

# Cambodia



**Demographic and  
Health Survey**

**2014**





# Cambodia

## Demographic and Health Survey

### 2014



**National Institute of Statistics**  
Ministry of Planning  
Phnom Penh, Cambodia



**Directorate General for Health**  
Ministry of Health  
Phnom Penh, Cambodia

**The DHS Program**  
ICF International  
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## FOREWORD

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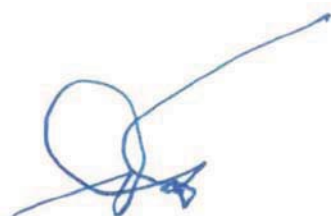
The 2014 Cambodia Demographic and Health Survey (2014 CDHS) is the fourth survey of its kind to be conducted successfully in Cambodia. Sponsors are the United States Agency for International Development (USAID), the Australian Department of Foreign Affairs and Trade (Australia-DFAT), United Nations Population Fund (UNFPA), United Nations Children's Fund (UNICEF), Japan International Cooperation Agency (JICA), Korean International Cooperation Agency (KOICA) and the Health Sector Support Program-Second Phase (HSSP-2). Technical assistance is provided by ICF International. The Directorate General for Health (DGH) of the Ministry of Health and the National Institute of Statistics (NIS) of the Ministry of Planning are the project implementation agencies.

This report includes information on demography, family planning, maternal mortality, infant and child mortality, and women's health care status, including related information, such as breastfeeding, antenatal care, children's immunization, childhood diseases, HIV/AIDS, and domestic violence. The questionnaires (Household, Man's, and Woman's questionnaires) are designed to evaluate the nutritional status of mothers and children and to measure the prevalence of anemia.

The 2014 CDHS findings are expected to be used by policymakers and program managers to evaluate Cambodia's demographic and health status and then to formulate appropriate population and health policies and programs. The programs of reproductive health and child health and health facilities need to be expanded and improved based on the survey findings.

We would like to thank USAID, Australia-DFAT, UNFPA, UNICEF, JICA, KOICA, and HSSP2 for sponsoring this survey project and ICF International for providing technical assistance. We gratefully acknowledge the support and encouragement extended by the Minister of Health and Minister of Planning; and other members of the 2014 CDHS Executive Committee and Technical Committee who contributed to the survey activities.

We express our sincere thanks to all persons involved in the implementation, analysis, and writing of the 2014 CDHS and especially thank the survey respondents, whose contributions made the survey a success.



H.E. Prof. Eng Huot  
Secretary of State  
For Minister of Health



H.E. San Sy Than  
Secretary of State  
For Senior Minister  
Minister of Planning



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---

The 2014 Cambodia Demographic and Health Survey (2014 CDHS) represents the continuing commitment and efforts in Cambodia to obtain data on population and health. The survey also reflects interest in obtaining information on maternal health, child health, and anemia prevalence. The 2014 CDHS was sponsored by the United States Agency for International Development (USAID), the Australian Department of Foreign Affairs and Trade (Australia-OF AT), United Nations Population Fund (UNFPA), United Nations Children's Fund (UNICEF), Japan International Cooperation Agency (JICA), Korean International Cooperation Agency (KOICA) and the Health Sector Support Program-Second Phase (HSSP-2). The survey was implemented by the Directorate General for Health (DGH) of the Ministry of Health (MOH) and by the National Institute of Statistics (NIS) of the Ministry of Planning (MOP). This survey could not have been completed without the active support and the efforts of many institutions and individuals. The active support and guidance of the Excellencies Secretaries of State; H.E. Prof. Eng Huot, Ministry of Health, and H.E. San Sy Than, Ministry of Planning, are acknowledged with deep gratitude. We also gratefully acknowledge the representatives of USAID, Australia-OF AT, UNFPA, UNICEF, JICA, KOICA, and HSSP-2 and their staff for their support and valuable comments throughout the survey activities.

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Finally, we would like to thank members of the 2014 CDHS Executive Committee and Technical Committee who contributed to the survey activities.

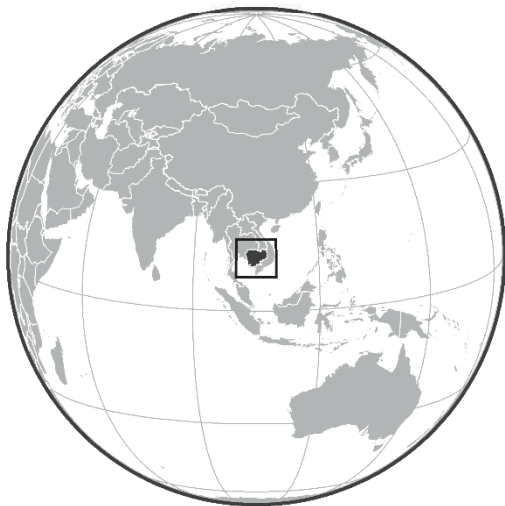
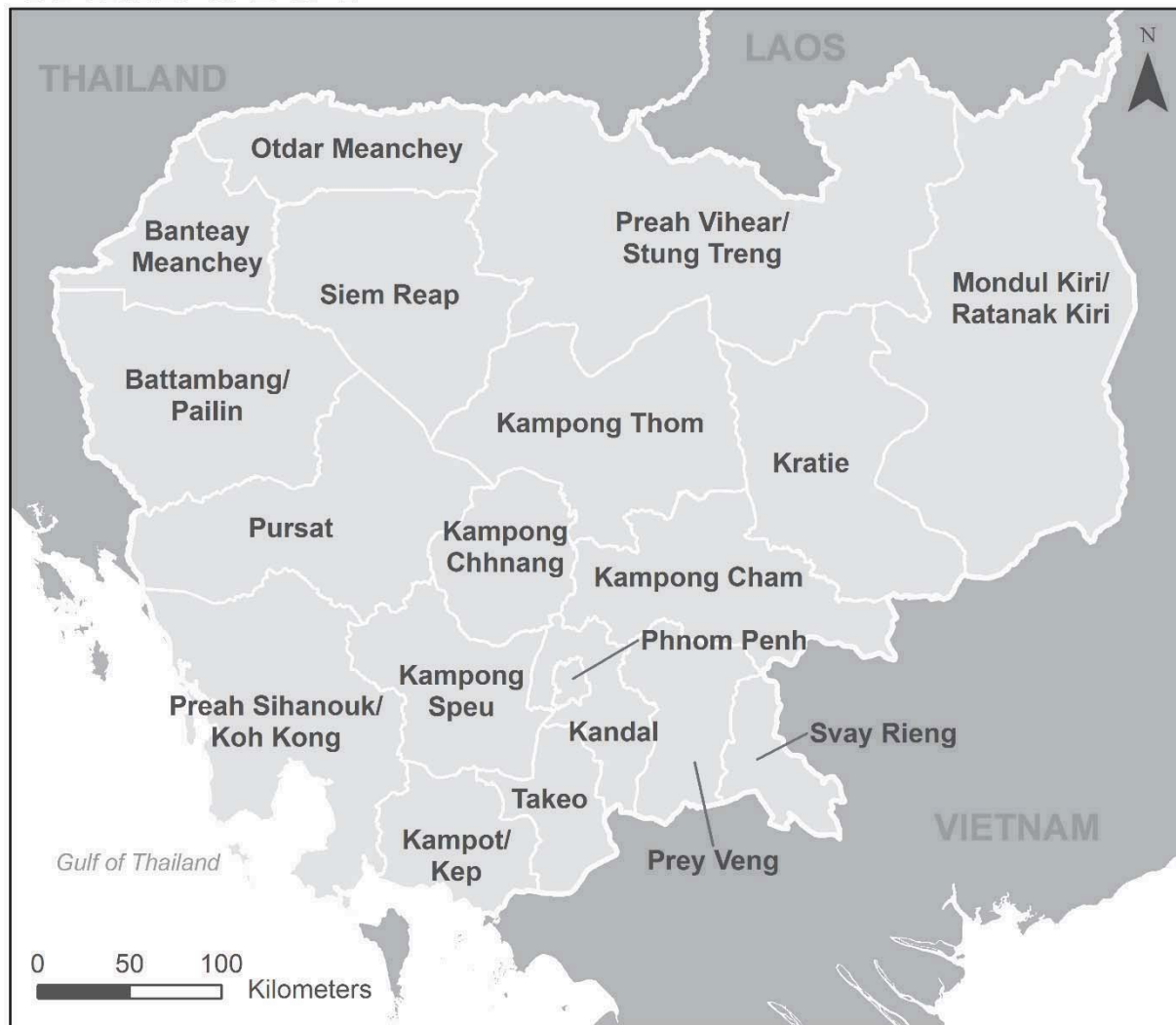


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# CAMBODIA





# INTRODUCTION

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## Key Findings

- The 2014 Cambodia Demographic and Health Survey (CDHS) is a nationally representative survey of 15,825 households with 17,578 women age 15-49 and 5,190 men age 15-49.
- The 2014 CDHS is the fourth Demographic and Health Survey conducted in Cambodia as part of the worldwide Demographic and Health Surveys project.
- The primary purpose of the CDHS is to furnish policymakers and planners with detailed information on fertility and family planning; infant, child, adult, and maternal mortality; maternal and child health; nutrition; and knowledge of HIV/AIDS and other sexually transmitted infections.
- In all selected households, women age 15-49 and children age 6-59 months were tested for anemia.

## 1.1 GEODEMOGRAPHY, HISTORY, AND ECONOMY

### 1.1.1 Geodemography

Cambodia is an agricultural country located in Southeast Asia. It borders with Thailand to the west, Laos and Thailand to the north, the Gulf of Thailand to the southwest, and Vietnam to the east and the south. It has a total land area of 181,035 square kilometers.

Cambodia has a tropical climate with two distinct seasons that set the rhythm of rural life. From November to February, the cool, dry northeastern monsoon brings little rain, whereas from May to October the southwestern monsoon carries strong winds, high humidity, and heavy rains. The mean annual temperature for Phnom Penh, the capital city, is 27°C.

The 1962 population census was the last official census to be conducted prior to 1998; it revealed a population of 5.7 million. The population census in 1998 recorded a population of 11.4 million with an annual growth rate of 2.5 percent (National Institute of Statistics, 1999). The 2004 Inter-Censal Population Survey showed that the annual growth rate had declined to 1.8 percent, with a total population of 13.1 million (National Institute of Statistics, 2004). The 2008 General Population Census (GPC) showed a further decrease in the annual growth rate to 1.54, with a total population of 13.4 million (National Institute of Statistics, 2009).

The proportion of the population living in rural areas is 80.5 percent; only 19.5 percent of the country's residents live in urban areas. The population density in the country as a whole is 75 per square kilometer, with approximately 1.3 million inhabitants living in Phnom Penh. The average size of the Cambodian household is 4.7. The total male to female sex ratio is 94.7. The literacy rate among adult males is 84 percent, considerably higher than the rate among females (76 percent). Currently, it is estimated that the percentage of the total population living below the poverty line fell to 21.1 percent in 2010 and decreased further to 19.8 percent in 2011 (MOP, 2012).

### **1.1.2 History**

Cambodia gained complete independence from France under the leadership of Prince Norodom Sihanouk on November 9, 1953. In March 1970, a military coup led by General Lon Nol overthrew Prince Sihanouk.

On April 17, 1975, the Khmer Rouge ousted the Lon Nol regime and took control of the country. Under the new regime, the country was renamed Democratic Kampuchea. Nearly 2 million Cambodian people died during the Khmer Rouge's radical and genocidal regime.

On January 7, 1979, the revolutionary army of the National Front for Solidarity and Liberation of Cambodia defeated the Khmer Rouge regime and proclaimed the country the People's Republic of Kampuchea and later, in 1989, the State of Cambodia.

The country's most important political event was the free elections held in May 1993 under the close supervision of the United Nations Transitional Authority in Cambodia (UNTAC). At that time Cambodia was proclaimed the Kingdom of Cambodia, and it is a constitutional monarchy. Four additional free and fair elections took place in 1998, 2003, 2008, and 2013. Now Cambodia is stable and well on its way to democracy and a promising future.

### **1.1.3 Economy**

Since the 1991 Paris Peace Accord, Cambodia's economy has made significant progress after more than two decades of political unrest. However, Cambodia still remains one of the poorest and least developed countries in Asia, with the gross domestic product per capita estimated at approximately 4.4 million Riel or \$1,088 in 2014 (US\$1 = 4,087 Riel) (International Monetary Fund, 2011). Agriculture, mainly rice production, is still the main economic activity in Cambodia. Small-scale subsistence agriculture, such as fisheries, forestry, and livestock, is another important sector. Garment factories and tourism services are also important components of foreign direct investments.

## **1.2 HEALTH STATUS AND POLICY**

Health outcomes have improved recently. The infant mortality rate has decreased from 45 per 1,000 live births in 2010 to 27 per 1,000 live births in 2014. The under-5 mortality rate decreased from 54 per 1,000 live births to 35 per 1,000 live births in the same period. Life expectancy at birth is 67.1 years for males and 70.1 years for females (NIS, 2013). General government expenditures on health per capita increased from US\$8 in 2008 to US\$11 in 2010, US\$13 in 2012, and US\$16 in 2014 (MOH, 2015). The health status of the Cambodian people has steadily improved in a number of key areas. Nonetheless, challenges remain in many other areas.

To improve the health status of the Cambodian people, the Ministry of Health developed the Health Sector Strategic Plan for 2008-2015 (Ministry of Health, 2008). Its policy direction is as follows:

- Make services more responsive and closer to the public through implementation of a decentralized service delivery function and a management function guided by the national "Policy on Service Delivery" and the policy on "Decentralization and Deconcentration."
- Strengthen sector-wide governance through implementation of a sector-wide approach, focusing on increased national ownership and accountability to improved health outcomes, harmonization and alignment, greater coordination, and effective partnerships among all stakeholders.
- Scale up access to and coverage of health services, especially comprehensive reproductive, maternal, newborn, and child health services, both demand and supply side, through

mechanisms such as institutionalization and expansion of contracting through Special Operating Agencies, exemptions for the poor, health equity funds, and health insurance.

- Implement pro-poor health financing systems, including exemptions for the poor and expansion of health equity funds, in combination with other forms of social assistance mechanisms.
- Reinforce health legislation, professional ethics, and codes of conduct and strengthen regulatory mechanisms, including for the production and distribution of pharmaceuticals, drug quality control, cosmetics, and food safety and hygiene, to protect providers and consumers' rights and their health.
- Improve quality in service delivery and management through establishment of and compliance with national protocols, clinical practice guidelines, and quality standards, in particular establishment of accreditation systems.
- Increase the competency and skills of the health workforce to deal with increased demands for accountability and high-quality care, including through strengthening allied technical skills and advanced technology through increased quality of training, career development, appropriate incentives, and a good working environment.
- Strengthen and invest in health information systems and health research for evidence-based policy-making, planning, performance monitoring, and evaluation.
- Increase investments in physical infrastructures, medical care equipment, and advanced technology, as well as in improvement of non-medical support services including management, maintenance, blood safety, and supply systems for drugs and commodities.
- Promote quality of life and healthy lifestyles by raising health awareness and creating supportive environments, including through strengthening institutional structures, financial and human resources, and IEC (information, education, and communication) materials for health promotion, behavior change communication, and appropriate health-seeking practices.
- Prevent and control communicable and selected chronic and noncommunicable diseases and strengthen disease surveillance systems for an effective response to emerging and reemerging diseases.
- Strengthen public health interventions to deal with cross-cutting challenges, especially those related to gender, health of minorities, hygiene and sanitation, school health, environmental health risks, substance abuse/mental health, injury, occupational health, and disaster, through timely responses and effective collaboration and coordination with other sectors.
- Promote effective public and private partnerships in service provision based on policy, regulation, legislation, and technical standards.
- Encourage community engagement in health service delivery activities, management of health facilities, and continuous quality improvement.
- Systematically strengthen institutions at all levels of the health system to implement the policy agenda listed under the previous 14 elements.

### **1.3 OBJECTIVE AND SURVEY ORGANIZATION**

The 2014 Cambodia Demographic and Health Survey (CDHS) is the fourth nationally representative survey conducted in Cambodia on population and health issues. It uses the same methodology as its predecessors, the 2000, 2005, and 2010 Cambodia Demographic and Health Surveys, allowing policymakers to use these surveys to assess trends over time.

The primary objective of the CDHS is to provide the Ministry of Health (MOH), Ministry of Planning (MOP), and other relevant institutions and users with updated and reliable data on infant and child mortality, fertility preferences, family planning behavior, maternal mortality, utilization of maternal and child health services, health expenditures, women's status, and knowledge and behavior regarding HIV/AIDS and other sexually transmitted infections. This information contributes to policy decisions, planning, monitoring, and program evaluation for the development of Cambodia at both the national and local government levels.

The long-term objectives of the survey are to build the capacity of the Ministry of Health and the National Institute of Statistics (NIS) of the Ministry of Planning for planning, conducting, and analyzing the results of further surveys.

The 2014 CDHS survey was conducted by the Directorate General for Health (DGH) of the Ministry of Health and the National Institute of Statistics of the Ministry of Planning. The CDHS executive committee and technical committee were established to oversee all technical aspects of implementation. They consisted of representatives from the Ministry of Health, the Ministry of Planning, the National Institute of Statistics, the U.S. Agency for International Development (USAID), the Australian Department of Foreign Affairs and Trade (Australia-DFAT), the United Nations Population Fund (UNFPA), the United Nations Children's Fund (UNICEF), the Japan International Cooperation Agency (JICA), and the Korean International Cooperation Agency (KOICA). Funding for the survey came from USAID, Australia-DFAT, UNFPA, UNICEF, JICA, KOICA, and the Health Sector Support Program–Second Phase (HSSP-2). Technical assistance was provided by ICF International.

### **1.4 SAMPLE DESIGN**

The 2014 CDHS sample is a nationally representative sample of women and men between age 15 and 49 who completed interviews. To achieve a balance between the ability to provide estimates at the subnational level and limiting the sample size, 19 sampling domains were defined, 14 of which correspond to individual provinces and 5 of which correspond to grouped provinces:

- Fourteen individual provinces: Banteay Meanchey, Kampong Cham, Kampong Chhnang, Kampong Speu, Kampong Thom, Kandal, Kratie, Phnom Penh, Prey Veng, Pursat, Siem Reap, Svay Rieng, Takeo, and Otdar Meanchey
- Five groups of provinces: Battambang and Pailin, Kampot and Kep, Preah Sihanouk and Koh Kong, Preah Vihear and Stung Treng, and Mondul Kiri and Ratanak Kiri

The sample of households was allocated to the sampling domains in such a way that estimates of indicators could be produced with precision at the national level, as well as separately for urban and rural areas of the country and for each of the 19 sampling domains.

The sampling frame used for the 2014 CDHS was derived from the list of all enumeration areas (EAs) created for the 2008 Cambodia General Population Census (GPC), provided by NIS. The list had been updated in 2012, and it excluded 241 EAs that are special settlement areas and not ordinary residential areas. It included 28,455 EAs for the entire country. The GPC also created maps that delimited the boundaries of each EA. Overall, 4,245 EAs were designated as urban and 24,210 as rural, with an average size of 99 households per EA.

The survey used a stratified sample selected in two stages. Stratification was achieved by separating every reporting domain into urban and rural areas. Thus, the 19 domains were stratified into a total of 38 sampling strata. Samples were selected independently in every stratum through a two-stage selection process. Implicit stratifications were achieved at each of the lower geographical or administrative levels by sorting the sampling frame according to geographical/administrative order before sample selection and by using a probability proportional to size selection strategy at the first stage of selection.

In the first stage, 611 EAs (188 in urban areas and 423 in rural areas) were selected with probability proportional to size. The size of an EA was defined as the number of households residing in the EA. Some of the largest EAs (more than 200 households) were divided into segments; only one segment was selected randomly to be included in the survey. Thus, the 611 CDHS clusters were either an EA or a segment of an EA. A listing of all households was carried out in each of the 611 clusters during the months of February through April 2014. Listing teams also drew fresh maps delineating EA boundaries and identifying all households. These maps and lists were used by field teams during data collection. The household listings provided the frame from which households were selected in the second stage. In the second stage selection, a fixed number of 24 households were selected from every urban cluster, and a fixed number of 28 households were selected from every rural cluster, through equal probability systematic sampling. Small areas and urban areas were oversampled, and this oversampling was corrected in the analysis using sampling weights to ensure the natural representation of the sample for all 38 strata (19 domains by urban or rural area). Appendix A provides a complete description of the sample design and weighting procedures.

All women age 15-49 who were either usual residents of the selected households or visitors present in the household on the night before the survey were eligible to be interviewed. In addition, in a subsample of one-third of the households selected for the survey, all men age 15-49 were eligible to be interviewed (if they were either usual residents of the selected households or visitors present in the household on the night before the survey). This was a cost-effective strategy given that the minimum sample size required for the women's survey was larger than that for the men's survey because complex indicators (such as total fertility and infant and child mortality rates) require larger sample sizes to achieve a reasonable level of precision, and these data are derived from interviews with women.

In the subsample of households chosen for the male interviews (one-third of the total sample), all women eligible for interviews and all children under age 5 were eligible for anemia testing. These same women and children were also eligible for height and weight measurements to determine their nutritional status.

In a subsample consisting of one in every six of the selected clusters, a survey component focusing on micronutrient indicators was implemented among all eligible women age 15-49 who had children under age born since January 2009, as well as among the children themselves. Since data on micronutrient indicators are reported only at the national level and for urban and rural areas, a subsample of clusters was cost-effective, producing a sample size large enough to provide estimations with adequate precision.

## **1.5 QUESTIONNAIRES**

Four questionnaires were used in the 2014 CDHS: the Household Questionnaire, the Woman's Questionnaire, the Man's Questionnaire, and the Micronutrient Questionnaire. These questionnaires are based on the questionnaires developed by the worldwide Demographic and Health Surveys (DHS) Program and on the questionnaires used during the 2010 CDHS survey. To reflect relevant population and health issues in Cambodia, the questionnaires were adapted during a series of technical meetings with various stakeholders from government ministries and agencies, nongovernmental organizations, and international donors. The final drafts of the questionnaires were discussed at a stakeholders' meeting

organized by the National Institute of Statistics. The adapted questionnaires were translated from English into Khmer and pretested in February and March 2014.

The Household Questionnaire was used to list all of the usual members and visitors in the selected households. Basic information was collected on the characteristics of each person listed, including age, sex, education, and relationship to the head of the household. For children under age 18, parents' survival status was determined. The Household Questionnaire also collected information on the following topics:

- Dwelling characteristics
- Accidental death and injury
- Physical impairment
- Utilization of health services and health expenditures for recent illness and injury
- Disability
- Possession of iodized salt
- Height and weight of women and children
- Hemoglobin measurements among women and children for diagnosing anemia

The Household Questionnaire was used to identify women and men eligible for an individual interview. The Woman's Questionnaire was used to collect information from all women age 15-49 and was organized into the following sections:

- Respondent background characteristics
- Reproduction, including a complete birth and death history of respondents' live births and information on abortion
- Contraception
- Pregnancy, postnatal care, and women's nutrition
- Immunization, health, children's nutrition, and early childhood development
- Marriage and sexual activity
- Fertility preferences
- Husbands' background and women's work
- Domestic violence
- HIV/AIDS and other sexually transmitted infections
- Maternal mortality

The Man's Questionnaire was administered to all men age 15-49 living in one-third of the households in the CDHS sample. The Man's Questionnaire was organized into the following sections:

- Respondent background characteristics
- Reproduction
- Marriage and sexual activity
- HIV/AIDS
- Other health issues

The Micronutrient Questionnaire was implemented in a subsample of one-sixth of the sampled clusters for the collection of micronutrient specimens among eligible women and children. Specimens collected included venous blood, urine, and stool samples.

The CDHS underwent a full pretest before commencement of the main data collection. All aspects of data collection were pretested in February and March 2014. Forty-four women and men were trained from February 27 to March 17, 2014, in the administration of the CDHS survey instruments, taking of anthropometric measurements, and hemoglobin testing. Five days of fieldwork were followed by three days of interviewer debriefing and correction of questionnaires. Pretest fieldwork was conducted in 79



households in two rural and two urban villages. Constructive input from interviewers was used to refine the survey instruments and survey logistics. These pretest activities were used to finalize the questionnaires. The majority of pretest participants also attended the training for the main survey, with many of them serving as field editors and team leaders for the survey.

## **1.6 TRAINING AND FIELDWORK**

The goal of training was to create 19 field teams capable of collecting data for the 2014 CDHS. Each team was responsible for data collection in one of the 19 survey domains (comprising the 23 provinces and the capital city of Phnom Penh). Field teams were composed of five people (5 teams) or six people (14 teams): a team leader, a field editor, two or three female interviewers, and one male interviewer. Nineteen fully staffed field teams would require 114 field personnel, and at the end of training 109 field personnel were retained. Twenty-six days of training included four days of field practice in Kandal province. Data processing personnel (3 data processing supervisors, 10 office editors/coders, 19 data entry operators, and 5 reserves) also attended classroom training.

Training began with the Household Questionnaire and was followed by the Woman's Questionnaire. Additional time was spent reviewing the Household Questionnaire, including consent statements for hemoglobin testing, and conversion of ages and dates of birth from the Khmer calendar to the Gregorian calendar. One week was devoted to additional activities, including the Man's Questionnaire, measurement of women's and children's height and weight, sample implementation and household selection, testing of household salt for iodine, and organization of documents and materials for return to the head office. After completion of training, including field practice, fieldwork was launched and teams disbursed to their assigned provinces.

During the training period, the 19 CDHS team leaders were provided with the cluster information for the provinces in which they would be working so that they could devise a data collection sequence for their sample points. Team leaders were best equipped to perform this task because they hailed from their own provinces. They also conducted the CDHS household listing operation (described in Appendix A) and therefore were well acquainted with the areas in which they would be working. The progression of fieldwork by geographic location had to take into account weather conditions during the rainy season.

Fieldwork supervision was carried out regularly by three CDHS survey coordinators from NIS and MOH along with an ICF Macro consultant. Supervision visits were conducted throughout the six months of data collection and included retrieval of questionnaires from the field. In addition, a quality control program was run by the data processing team to detect key data collection errors for each team. These data checks were used to provide regular feedback to each team based on its specific performance. Data collection was conducted from June 2 to December 12, 2014.

The training and fieldwork for collection of stool, urine, and venous blood samples were conducted separately by UNICEF in collaboration with the Institut de Recherche pour le Développement (France) and Cambodia's Ministry of Agriculture, Forestry, and Fisheries. Details are provided in the micronutrient chapter.

## **1.7 BIOMARKER TESTING**

### **1.7.1 Anthropometric Measurement**

The 2014 CDHS included an anthropometric component in which children under age 5 in a subsample of two-thirds of the households were measured for height and weight. Weight measurements were taken using a lightweight, electronic SECA scale designed and manufactured under the guidance of UNICEF. The scale allowed for the weighing of very young children through an automatic mother-child adjustment that eliminates the mother's weight while she is standing on the scale with her baby. Height measurements were carried out using a SECA measuring board, also produced under the guidance of



UNICEF. Children younger than age 24 months were measured lying down (recumbent length) on the board, whereas standing height was measured for older children. Three nutritional indices were calculated using children's age, height, and weight: height-for-age (stunting), weight-for-height (wasting), and weight-for-age (underweight). The height and weight of women age 15-49 were also measured among the two-thirds subsample of households selected in the 2014 CDHS.

### **1.7.2 Hemoglobin Testing**

Hemoglobin testing is the primary method for anemia diagnosis. The 2014 CDHS included anemia testing of children age 6 to 59 months and women age 15-49 in the two-thirds of CDHS households that were not selected for the men's interview. A consent statement was read to the eligible respondent or, in the case of children and young unmarried women age 15-17, the parent or responsible adult. This statement explained the purpose of the test, informed the individual that the results would be made available as soon as the test was completed, and requested permission for the test to be carried out. Anemia levels were determined by measuring the level of hemoglobin in the blood; a decreased concentration characterizes anemia. The concentration of hemoglobin in the blood was measured in the field using the HemoCue system. The HemoCue instrument is a special purpose photometer designed specifically for the determination of hemoglobin levels. A capillary blood sample was taken from the palm side of the end of a finger, by puncturing with a sterile, non-reusable, self-retractable lancet. The blood drop was collected in a HemoCue microcuvette, which serves as a measuring tool, and placed in the HemoCue photometer to determine the level of hemoglobin in the blood. A pamphlet was given to each respondent explaining symptoms of anemia, prevention methods, and the individual results of the hemoglobin measurement of the respondent and any children for whom she gave permission to be measured. Each person whose hemoglobin level was lower than the recommended cutoff point (testing severely anemic) was advised to visit a health facility for follow-up with a health professional.

### **1.7.3 Micronutrient Testing**

The 2014 CDHS included a micronutrient component that was implemented in one out of six clusters selected for the main survey. In these clusters, blood, urine, and stool samples were collected by separate data collection teams from women who had had children born since January 2009 and from the children themselves. The blood/urine/stool samples were sent to several laboratories inside and outside of Cambodia.

## **1.8 DATA PROCESSING**

Completed questionnaires were returned from the field to NIS headquarters, where they were entered and edited by data processing personnel who were specially trained for this task and had also attended questionnaire training of field staff. Data processing personnel included a data processing chief, two assistants, four secondary editors and coordinators, 25 entry operators, and eight office editors.

Data processing for the 2014 CDHS began on 25 personal computers on July 6, 2014, five weeks after the first interviews were conducted. Processing the data concurrently with data collection allowed for regular monitoring of team performance and data quality. Field check tables were generated regularly during the data processing to check various data quality parameters. As a result, feedback was given on a regular basis, encouraging teams to continue in areas of high quality and to correct areas of needed improvement. Feedback was individually tailored to each team. Data entry, which included 100 percent double entry to minimize keying errors, and data editing were completed on January 8, 2015. Data cleaning and finalization were completed on January 23, 2015.

## **1.9 SAMPLE COVERAGE**

All of the 611 clusters selected for the sample were surveyed in the 2014 CDHS. A total of 16,356 households were selected, of which 15,937 were found to be occupied during data collection. Among these

households, 15,825 completed the Household Questionnaire, yielding a response rate of 99 percent (Table 1.1).

In these interviewed households, 18,012 women were identified as eligible for the individual interview. Interviews were completed with 98 percent of these women. Of the 5,484 eligible men identified in every third household, 95 percent were successfully interviewed. There was little variation in response rates by urban-rural residence.

**Table 1.1 Results of the household and individual interviews**

Number of households, number of interviews, and response rates, according to residence (unweighted), Cambodia 2014

| Result                                    | Residence |        | Total  |
|---|-----------|--------|--------|
|   | Urban     | Rural  |        |
| <b>Household interviews</b>               |           |        |        |
| Households selected                       | 4,512     | 11,844 | 16,356 |
| Households occupied                       | 4,399     | 11,538 | 15,937 |
| Households interviewed                    | 4,366     | 11,459 | 15,825 |
| Household response rate <sup>1</sup>      | 99.2      | 99.3   | 99.3   |
| <b>Interviews with women age 15-49</b>    |           |        |        |
| Number of eligible women                  | 5,842     | 12,170 | 18,012 |
| Number of eligible women interviewed      | 5,667     | 11,911 | 17,578 |
| Eligible women response rate <sup>2</sup> | 97.0      | 97.9   | 97.6   |
| <b>Interviews with men age 15-49</b>      |           |        |        |
| Number of eligible men                    | 1,641     | 3,843  | 5,484  |
| Number of eligible men interviewed        | 1,540     | 3,650  | 5,190  |
| Eligible men response rate <sup>2</sup>   | 93.8      | 95.0   | 94.6   |

<sup>1</sup> Households interviewed/households occupied

<sup>2</sup> Respondents interviewed/eligible respondents



## Key Findings

- Forty-three percent of the population in Cambodia is age 19 or younger.
- Twenty-seven percent of household heads are women.
- Sixty-five percent of households use an improved source of drinking water during the dry season and 84 percent during the rainy season.
- Two in three households (67 percent) use an appropriate method of treating their drinking water, primarily boiling it (55 percent).
- Forty-six percent of households have an improved, not shared sanitation facility.
- Slightly more than half of households (56 percent) have electricity.
- Nine in 10 Cambodians own a mobile phone.
- Nearly three-quarters of children (73 percent) under age 5 have their birth registered.

This chapter summarizes the socioeconomic characteristics of households and respondents surveyed, including age, sex, residence (urban-rural), educational status, household facilities, and household characteristics. The profile of the households provided in this chapter will help in understanding the results of the 2014 CDHS in the following chapters. In addition, it may provide useful information for social and economic development planning.

Throughout this report, numbers in the tables reflect weighted numbers. Due to the way the sample was designed, the number of weighted cases in some regions appears small, because they are weighted to make the regional distribution nationally representative. However, roughly the same number of households and women and men were interviewed in each province or group of provinces, and the number of unweighted cases is always large enough to calculate the presented estimates. Estimates based on an insufficient number of cases are shown in parentheses or not shown at all.

The 2014 CDHS collected information from all usual residents of a selected household (*de jure* population) and persons who had stayed in the selected household the night before the interview (*de facto* population). Although the difference between these two populations is small, to avoid double counting all tables in this report refer to the *de facto* population unless otherwise specified. The CDHS used the same definition of households as the 2008 census conducted by the National Institute of Statistics. A household was defined as a person or group of related and unrelated persons who live together in the same dwelling unit(s) or in connected premises, who acknowledge one adult member as the head of the household, and who have common arrangements for cooking and eating meals.

## 2.1 CHARACTERISTICS OF THE HOUSEHOLD POPULATION

### 2.1.1 Age and Sex Composition

Age and sex are important demographic variables and are the primary basis of demographic classification in vital statistics, censuses, and surveys. They are also important variables in the study of mortality, fertility, and nuptiality. The effect of variations in sex composition from one population group to another should be taken into account in comparative studies of mortality. In general, a cross-classification with sex is useful for the effective analysis of all forms of data obtained in surveys.

The survey collected information on age in completed years for each household member. When the age was not known, interviewers inquired further for dates of birth in the Gregorian calendar, the Khmer calendar, and/or a historical calendar. Age was then calculated using conversion charts specifically designed for this purpose.

Table 2.1 presents the percent distribution of the household population by age, according to urban-rural residence and sex. The population spending the night before the survey in the households selected for the survey included 69,471 individuals, of whom 48 percent were males and 52 percent were females.

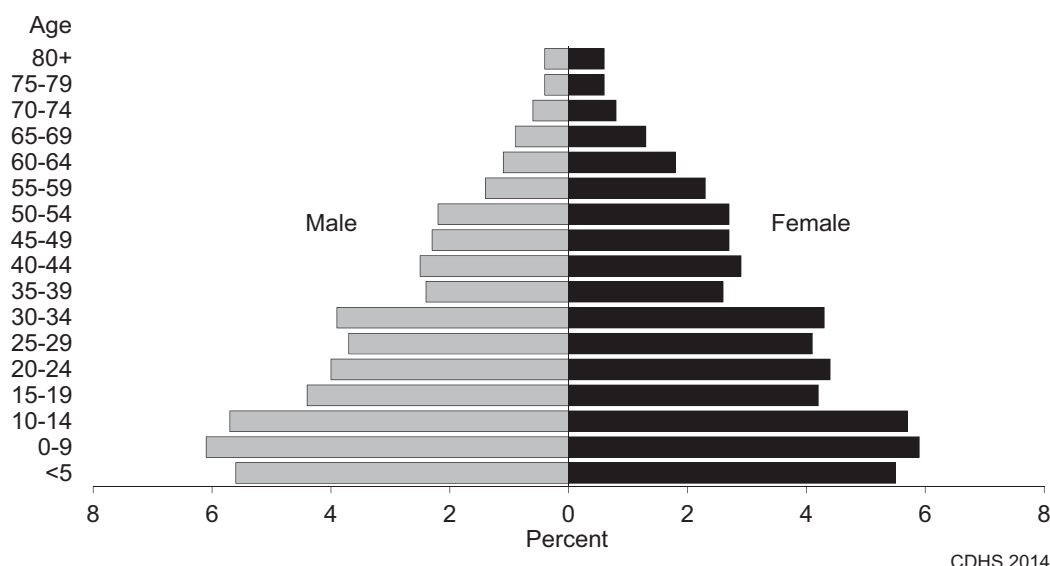
The age structure of the household population is typical of a society with a young population and recently declining fertility. The sex and age distribution of the population is also shown in the population pyramid in Figure 2.1. Cambodia has a relatively broad-based pyramid structure because 43 percent of the population is less than age 20.

**Table 2.1 Household population by age, sex, and residence**

Percent distribution of the de facto household population by five-year age groups, according to sex and residence, Cambodia 2014

| Age    | Urban |        |        | Rural  |        |        | Male   | Female | Total  |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
|        | Male  | Female | Total  | Male   | Female | Total  |        |        |        |
| <5     | 10.2  | 8.9    | 9.5    | 12.2   | 10.8   | 11.5   | 11.8   | 10.5   | 11.2   |
| 5-9    | 10.2  | 8.7    | 9.4    | 13.4   | 11.6   | 12.5   | 12.9   | 11.2   | 12.0   |
| 10-14  | 9.5   | 9.1    | 9.3    | 12.3   | 11.2   | 11.7   | 11.9   | 10.9   | 11.4   |
| 15-19  | 9.5   | 8.9    | 9.2    | 9.2    | 7.8    | 8.4    | 9.2    | 7.9    | 8.6    |
| 20-24  | 10.0  | 10.9   | 10.5   | 8.1    | 7.9    | 8.0    | 8.4    | 8.4    | 8.4    |
| 25-29  | 9.6   | 9.5    | 9.5    | 7.5    | 7.4    | 7.5    | 7.9    | 7.8    | 7.8    |
| 30-34  | 9.4   | 9.7    | 9.6    | 7.9    | 8.0    | 7.9    | 8.2    | 8.3    | 8.2    |
| 35-39  | 4.8   | 4.7    | 4.8    | 5.0    | 5.0    | 5.0    | 4.9    | 5.0    | 5.0    |
| 40-44  | 5.7   | 5.7    | 5.7    | 5.2    | 5.5    | 5.4    | 5.3    | 5.5    | 5.4    |
| 45-49  | 5.0   | 5.2    | 5.1    | 4.8    | 5.2    | 5.0    | 4.9    | 5.2    | 5.0    |
| 50-54  | 5.0   | 4.9    | 5.0    | 4.4    | 5.2    | 4.9    | 4.5    | 5.2    | 4.9    |
| 55-59  | 3.8   | 4.4    | 4.1    | 2.9    | 4.4    | 3.7    | 3.0    | 4.4    | 3.7    |
| 60-64  | 2.7   | 3.5    | 3.1    | 2.3    | 3.4    | 2.9    | 2.4    | 3.4    | 2.9    |
| 65-69  | 1.5   | 2.5    | 2.0    | 1.9    | 2.5    | 2.2    | 1.8    | 2.5    | 2.2    |
| 70-74  | 1.4   | 1.3    | 1.3    | 1.3    | 1.7    | 1.5    | 1.3    | 1.6    | 1.5    |
| 75-79  | 0.8   | 1.2    | 1.0    | 0.9    | 1.2    | 1.0    | 0.8    | 1.2    | 1.0    |
| 80+    | 0.7   | 1.0    | 0.9    | 0.8    | 1.1    | 1.0    | 0.8    | 1.1    | 0.9    |
| Total  | 100.0 | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  |
| Number | 5,248 | 5,932  | 11,180 | 27,818 | 30,473 | 58,291 | 33,066 | 36,405 | 69,471 |

**Figure 2.1 Population pyramid**



Above the age of 10 years, the pyramid follows a typical pattern of decreasing numbers as age increases. However, the percentage of people age 35 to 44 is less than would be expected because these are the two age groups born in the decade of the 1970s. The early 1970s saw escalating civil war, and in the

late 1970s the Khmer Rouge ruled. This period of time was characterized by few births and high mortality, including high infant and child mortality.

Cambodia has a large dependent population of children and adolescents, although with decreasing fertility the proportion of the population under age 15 has recently declined. The proportion of those age 50 or older has slightly increased. Table 2.2 shows that the proportion of children under age 15 has remained constant over the past four years, with this age group accounting for 35 percent of the population. Sixty percent of the population is in the 15-64 age group, and 6 percent are age 65 or older.

**Table 2.2 Population by age according to selected sources**

Percent distribution of the de facto population by age group, according to selected sources, Cambodia 2014

| Age   | 1998<br>census <sup>1</sup> | 2000<br>CDHS <sup>2</sup> | 2004<br>CIPS <sup>3</sup> | 2005<br>CDHS <sup>4</sup> | 2008<br>census <sup>5</sup> | 2010<br>CDHS <sup>6</sup> | 2014<br>CDHS |
|-------|-----------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|---------------------------|--------------|
| <15   | 42.8                        | 42.7                      | 38.6                      | 38.9                      | 33.7                        | 34.5                      | 34.5         |
| 15-49 | 46.9                        | 46.3                      | 49.5                      | 47.9                      | 53.4                        | 50.5                      | 48.4         |
| 50-64 | 6.8                         | 7.4                       | 8.0                       | 8.6                       | 8.6                         | 10.0                      | 11.5         |
| 65+   | 3.5                         | 3.6                       | 3.9                       | 4.6                       | 4.3                         | 5.0                       | 5.6          |
| Total | 100.0                       | 100.0                     | 100.0                     | 100.0                     | 100.0                       | 100.0                     | 100.0        |

<sup>1</sup> General Population Census of Cambodia, 1998 (National Institute of Statistics, 1999)

<sup>2</sup> Cambodia Demographic and Health Survey, 2000 (National Institute of Statistics and ORC Macro, 2001)

<sup>3</sup> Cambodia Inter-Censal Population Survey, 2004 (National Institute of Statistics, 2004)

<sup>4</sup> Cambodia Demographic and Health Survey, 2005 (National Institute of Statistics and ORC Macro, 2006)

<sup>5</sup> General Population Census of Cambodia, 2008 (National Institute of Statistics, 2009)

<sup>6</sup> Cambodia Demographic and Health Survey, 2010 (National Institute of Statistics, Directorate General for Health, and ICF Macro, 2011)

## 2.1.2 Household Composition

Table 2.3 shows the distribution of households in the survey by the sex of the head of the household and the number of household members, according to urban and rural residence. Households in Cambodia are predominantly male-headed. However, 27 percent of households are headed by women (28 percent and 27 percent in urban and rural areas, respectively).

The average household size is 4.6 persons, about the same as that observed in the 2010 CDHS (4.7 persons per household). Urban households have 5.0 persons per household on average and are slightly larger than rural households (4.5 persons).

Table 2.3 also shows that 17 percent of households include foster and/or orphaned children. Overall, 13 percent of households have foster children, 6 percent have single orphans, and 1 percent have double orphans. The variation between rural and urban areas is small.

**Table 2.3 Household composition**

Percent distribution of households by sex of head of household and by household size, mean size of household, and percentage of households with orphans and foster children under age 18, according to residence, Cambodia 2014

| Characteristic  | Residence |        | Total  |
|---|-----------|--------|--------|
|   | Urban     | Rural  |        |
| <b>Household headship</b>   |           |        |        |
| Male  | 71.7      | 73.4   | 73.1   |
| Female  | 28.3      | 26.6   | 26.9   |
| Total   | 100.0     | 100.0  | 100.0  |
| <b>Number of usual members</b>  |           |        |        |
| 1   | 3.2       | 3.4    | 3.4    |
| 2   | 8.2       | 9.4    | 9.2    |
| 3   | 13.5      | 17.0   | 16.5   |
| 4   | 20.8      | 24.0   | 23.5   |
| 5   | 19.6      | 19.5   | 19.6   |
| 6   | 13.8      | 12.8   | 12.9   |
| 7   | 7.9       | 7.4    | 7.5    |
| 8   | 5.5       | 3.3    | 3.7    |
| 9+  | 7.5       | 3.2    | 3.8    |
| Total   | 100.0     | 100.0  | 100.0  |
| Mean size of households   | 5.0       | 4.5    | 4.6    |
| <b>Percentage of households with orphans and foster children under age 18</b> |           |        |        |
| Foster children <sup>1</sup>  | 14.6      | 12.9   | 13.1   |
| Double orphans  | 1.3       | 1.0    | 1.0    |
| Single orphans <sup>2</sup>   | 4.5       | 5.6    | 5.5    |
| Foster and/or orphan children   | 17.3      | 16.7   | 16.8   |
| Number of households  | 2,284     | 13,541 | 15,825 |

Note: Table is based on de jure household members, i.e., usual residents.

<sup>1</sup> Foster children are those under age 18 living in households with neither their mother nor their father present.

<sup>2</sup> Includes children with one dead parent and an unknown survival status of the other parent

## 2.2 EDUCATION OF THE HOUSEHOLD POPULATION

Many behaviors, including those in the realms of reproduction, contraceptive use, child health, and proper hygiene, are affected by the education of household members. Information on the educational level of the female and male population age 6 and above is presented in Tables 2.4.1 and 2.4.2. Survey results show that although the majority of Cambodians have not completed primary school, the country has experienced strong improvement in educational attainment over time. Overall, 19 percent of females have never attended school, as compared with 10 percent of males. Improvements over time have resulted in only 2 percent of girls and 3 percent of boys age 10-14 having never attended school at all.

Table 2.4.1 Educational attainment of the female household population

Percent distribution of the de facto female household population age 6 and over by highest level of schooling attended or completed and median years completed, according to background characteristics, Cambodia 2014

| Background characteristic | No education | Some primary | Completed primary <sup>1</sup> | Some secondary | Completed secondary <sup>2</sup> | More than secondary | Don't know/missing | Total        | Number        | Median years completed |
|---------------------------|--------------|--------------|--------------------------------|----------------|----------------------------------|---------------------|--------------------|--------------|---------------|------------------------|
| <b>Age</b>                |              |              |                                |                |                                  |                     |                    |              |               |                        |
| 6-9                       | 15.5         | 84.4         | 0.0                            | 0.0            | 0.0                              | 0.0                 | 0.0                | 100.0        | 3,318         | 0.3                    |
| 10-14                     | 1.9          | 64.8         | 3.6                            | 29.6           | 0.0                              | 0.0                 | 0.0                | 100.0        | 3,957         | 4.2                    |
| 15-19                     | 3.1          | 20.2         | 9.2                            | 62.3           | 2.3                              | 3.0                 | 0.0                | 100.0        | 2,891         | 7.1                    |
| 20-24                     | 5.7          | 25.0         | 11.2                           | 38.8           | 7.3                              | 12.0                | 0.0                | 100.0        | 3,054         | 6.5                    |
| 25-29                     | 11.5         | 36.1         | 10.8                           | 29.2           | 4.6                              | 7.8                 | 0.0                | 100.0        | 2,825         | 5.2                    |
| 30-34                     | 18.0         | 46.8         | 6.5                            | 22.0           | 3.2                              | 3.5                 | 0.0                | 100.0        | 3,005         | 3.8                    |
| 35-39                     | 17.8         | 53.0         | 6.0                            | 20.0           | 2.3                              | 1.0                 | 0.0                | 100.0        | 1,806         | 3.2                    |
| 40-44                     | 16.6         | 51.7         | 5.2                            | 22.5           | 2.3                              | 1.8                 | 0.0                | 100.0        | 2,019         | 3.3                    |
| 45-49                     | 25.1         | 55.5         | 2.9                            | 13.8           | 1.8                              | 0.9                 | 0.0                | 100.0        | 1,883         | 2.3                    |
| 50-54                     | 37.1         | 53.7         | 3.0                            | 5.3            | 0.6                              | 0.2                 | 0.0                | 100.0        | 1,889         | 1.2                    |
| 55-59                     | 33.0         | 52.4         | 4.3                            | 9.2            | 0.6                              | 0.4                 | 0.1                | 100.0        | 1,613         | 1.6                    |
| 60-64                     | 36.6         | 47.8         | 6.5                            | 7.5            | 1.2                              | 0.4                 | 0.0                | 100.0        | 1,248         | 1.4                    |
| 65+                       | 63.8         | 27.7         | 3.0                            | 5.0            | 0.3                              | 0.2                 | 0.0                | 100.0        | 2,316         | 0.0                    |
| <b>Residence</b>          |              |              |                                |                |                                  |                     |                    |              |               |                        |
| Urban                     | 10.7         | 35.5         | 5.4                            | 31.8           | 5.8                              | 10.8                | 0.0                | 100.0        | 5,307         | 5.5                    |
| Rural                     | 20.6         | 50.5         | 5.7                            | 20.7           | 1.4                              | 1.1                 | 0.0                | 100.0        | 26,521        | 2.7                    |
| <b>Province</b>           |              |              |                                |                |                                  |                     |                    |              |               |                        |
| Banteay Meanchey          | 19.6         | 52.8         | 4.7                            | 19.6           | 2.2                              | 1.1                 | 0.0                | 100.0        | 1,340         | 2.6                    |
| Kampong Cham              | 19.9         | 51.9         | 6.6                            | 19.2           | 1.3                              | 1.1                 | 0.0                | 100.0        | 3,985         | 2.4                    |
| Kampong Chhnang           | 15.3         | 50.3         | 7.0                            | 23.0           | 2.5                              | 1.9                 | 0.0                | 100.0        | 1,218         | 3.2                    |
| Kampong Speu              | 18.7         | 46.7         | 7.1                            | 25.4           | 1.2                              | 0.9                 | 0.1                | 100.0        | 2,027         | 3.5                    |
| Kampong Thom              | 19.1         | 54.0         | 6.0                            | 17.5           | 1.7                              | 1.6                 | 0.0                | 100.0        | 1,589         | 2.5                    |
| Kandal                    | 16.4         | 48.1         | 6.2                            | 26.1           | 1.4                              | 1.9                 | 0.0                | 100.0        | 2,454         | 3.5                    |
| Kratie                    | 20.1         | 55.4         | 5.0                            | 17.1           | 1.4                              | 1.0                 | 0.0                | 100.0        | 903           | 2.2                    |
| Phnom Penh                | 9.9          | 34.6         | 5.0                            | 31.7           | 5.5                              | 13.3                | 0.0                | 100.0        | 3,135         | 5.7                    |
| Prey Veng                 | 22.1         | 49.4         | 5.3                            | 21.3           | 1.1                              | 0.7                 | 0.1                | 100.0        | 2,172         | 2.8                    |
| Pursat                    | 22.5         | 51.1         | 6.5                            | 17.0           | 2.0                              | 1.0                 | 0.0                | 100.0        | 1,239         | 2.3                    |
| Siem Reap                 | 26.3         | 47.8         | 4.8                            | 17.0           | 2.0                              | 2.1                 | 0.0                | 100.0        | 2,015         | 2.2                    |
| Svay Rieng                | 12.4         | 59.5         | 4.9                            | 20.9           | 1.0                              | 1.4                 | 0.0                | 100.0        | 1,229         | 2.8                    |
| Takeo                     | 22.7         | 40.0         | 5.1                            | 27.5           | 2.7                              | 2.0                 | 0.0                | 100.0        | 2,023         | 3.6                    |
| Otdar Meanchey            | 28.4         | 45.5         | 5.3                            | 18.9           | 1.5                              | 0.5                 | 0.0                | 100.0        | 509           | 1.9                    |
| Battambang/Pailin         | 16.5         | 47.0         | 5.5                            | 25.1           | 2.9                              | 2.9                 | 0.0                | 100.0        | 2,446         | 3.6                    |
| Kampot/Kep                | 15.9         | 51.3         | 4.9                            | 24.3           | 2.0                              | 1.7                 | 0.0                | 100.0        | 1,449         | 3.3                    |
| Preah Sihanouk/Koh Kong   | 15.8         | 46.2         | 6.8                            | 25.2           | 2.3                              | 3.6                 | 0.0                | 100.0        | 696           | 3.9                    |
| Preah Vihear/Stung Treng  | 26.2         | 52.1         | 3.8                            | 15.4           | 1.1                              | 1.5                 | 0.0                | 100.0        | 760           | 1.8                    |
| Mondul Kiri/Ratanak Kiri  | 33.9         | 43.6         | 4.2                            | 16.7           | 0.8                              | 0.9                 | 0.0                | 100.0        | 639           | 1.2                    |
| <b>Wealth quintile</b>    |              |              |                                |                |                                  |                     |                    |              |               |                        |
| Lowest                    | 28.9         | 56.8         | 4.3                            | 9.6            | 0.3                              | 0.1                 | 0.0                | 100.0        | 6,013         | 1.4                    |
| Second                    | 23.7         | 54.1         | 5.5                            | 16.0           | 0.5                              | 0.2                 | 0.0                | 100.0        | 6,370         | 2.2                    |
| Middle                    | 18.9         | 50.9         | 5.6                            | 23.1           | 1.0                              | 0.4                 | 0.0                | 100.0        | 6,313         | 3.0                    |
| Fourth                    | 15.0         | 44.7         | 6.8                            | 28.2           | 2.9                              | 2.5                 | 0.0                | 100.0        | 6,507         | 4.0                    |
| Highest                   | 9.2          | 34.8         | 6.0                            | 34.5           | 5.7                              | 9.9                 | 0.0                | 100.0        | 6,625         | 5.7                    |
| <b>Total</b>              | <b>18.9</b>  | <b>48.0</b>  | <b>5.6</b>                     | <b>22.6</b>    | <b>2.1</b>                       | <b>2.7</b>          | <b>0.0</b>         | <b>100.0</b> | <b>31,828</b> | <b>3.1</b>             |

Note: Totals include 4 women with information on age missing.

<sup>1</sup> Completed grade 6 at the primary level

<sup>2</sup> Completed grade 12 at the secondary level



Table 2.4.2 Educational attainment of the male household population

Percent distribution of the de facto male household population age 6 and over by highest level of schooling attended or completed and median years completed, according to background characteristics, Cambodia 2014

| Background characteristic | No education | Some primary | Completed primary <sup>1</sup> | Some secondary | Completed secondary <sup>2</sup> | More than secondary | Don't know/missing | Total | Number | Median years completed |
|---------------------------|--------------|--------------|--------------------------------|----------------|----------------------------------|---------------------|--------------------|-------|--------|------------------------|
| <b>Age</b>                |              |              |                                |                |                                  |                     |                    |       |        |                        |
| 6-9                       | 19.3         | 80.6         | 0.0                            | 0.0            | 0.0                              | 0.0                 | 0.0                | 100.0 | 3,486  | 0.1                    |
| 10-14                     | 2.5          | 70.8         | 2.4                            | 24.2           | 0.0                              | 0.0                 | 0.0                | 100.0 | 3,930  | 3.8                    |
| 15-19                     | 4.7          | 25.2         | 7.9                            | 57.6           | 1.8                              | 2.7                 | 0.0                | 100.0 | 3,053  | 6.7                    |
| 20-24                     | 5.1          | 25.2         | 9.7                            | 41.0           | 8.0                              | 11.0                | 0.0                | 100.0 | 2,770  | 6.7                    |
| 25-29                     | 7.3          | 29.6         | 8.4                            | 34.5           | 7.9                              | 12.2                | 0.1                | 100.0 | 2,602  | 6.3                    |
| 30-34                     | 9.7          | 36.2         | 7.7                            | 30.4           | 8.1                              | 8.0                 | 0.0                | 100.0 | 2,698  | 5.4                    |
| 35-39                     | 11.5         | 41.6         | 6.7                            | 28.6           | 6.8                              | 4.8                 | 0.0                | 100.0 | 1,634  | 4.7                    |
| 40-44                     | 8.6          | 35.9         | 6.5                            | 34.8           | 8.5                              | 5.8                 | 0.0                | 100.0 | 1,746  | 5.7                    |
| 45-49                     | 10.3         | 39.3         | 7.3                            | 33.6           | 5.6                              | 4.0                 | 0.0                | 100.0 | 1,606  | 5.1                    |
| 50-54                     | 17.7         | 49.3         | 8.4                            | 19.3           | 2.7                              | 2.6                 | 0.0                | 100.0 | 1,496  | 2.9                    |
| 55-59                     | 18.8         | 48.6         | 10.0                           | 17.4           | 3.5                              | 1.6                 | 0.0                | 100.0 | 992    | 3.1                    |
| 60-64                     | 16.2         | 47.4         | 11.4                           | 21.0           | 2.8                              | 1.2                 | 0.0                | 100.0 | 791    | 3.5                    |
| 65+                       | 23.4         | 40.5         | 11.8                           | 20.4           | 2.5                              | 1.3                 | 0.1                | 100.0 | 1,572  | 3.6                    |
| <b>Residence</b>          |              |              |                                |                |                                  |                     |                    |       |        |                        |
| Urban                     | 4.3          | 28.7         | 5.6                            | 35.9           | 8.9                              | 16.6                | 0.0                | 100.0 | 4,623  | 7.2                    |
| Rural                     | 11.6         | 49.0         | 6.8                            | 27.2           | 3.3                              | 2.0                 | 0.0                | 100.0 | 23,756 | 3.9                    |
| <b>Province</b>           |              |              |                                |                |                                  |                     |                    |       |        |                        |
| Banteay Meanchey          | 10.3         | 50.0         | 5.9                            | 28.5           | 3.6                              | 1.9                 | 0.0                | 100.0 | 1,112  | 3.9                    |
| Kampong Cham              | 11.1         | 54.2         | 7.5                            | 23.2           | 1.7                              | 2.3                 | 0.0                | 100.0 | 3,489  | 3.5                    |
| Kampong Chhnang           | 8.5          | 50.9         | 7.5                            | 25.3           | 4.4                              | 3.4                 | 0.0                | 100.0 | 1,006  | 4.2                    |
| Kampong Speu              | 9.3          | 43.9         | 7.0                            | 33.2           | 4.6                              | 1.8                 | 0.0                | 100.0 | 1,851  | 4.7                    |
| Kampong Thom              | 12.5         | 51.7         | 8.4                            | 22.2           | 1.9                              | 3.2                 | 0.1                | 100.0 | 1,365  | 3.7                    |
| Kandal                    | 8.9          | 45.3         | 6.7                            | 32.2           | 4.4                              | 2.6                 | 0.0                | 100.0 | 2,287  | 4.6                    |
| Kratie                    | 12.8         | 55.9         | 5.0                            | 22.5           | 2.7                              | 1.1                 | 0.0                | 100.0 | 839    | 3.0                    |
| Phnom Penh                | 4.0          | 25.5         | 4.6                            | 36.6           | 9.0                              | 20.3                | 0.0                | 100.0 | 2,750  | 7.7                    |
| Prey Veng                 | 9.8          | 45.9         | 6.8                            | 33.4           | 2.3                              | 1.6                 | 0.1                | 100.0 | 1,922  | 4.5                    |
| Pursat                    | 12.0         | 52.4         | 7.7                            | 22.7           | 4.1                              | 1.1                 | 0.0                | 100.0 | 1,100  | 3.3                    |
| Siem Reap                 | 20.1         | 47.9         | 5.1                            | 19.3           | 4.5                              | 3.0                 | 0.1                | 100.0 | 1,807  | 2.7                    |
| Svay Rieng                | 3.8          | 46.4         | 6.3                            | 34.5           | 5.3                              | 3.7                 | 0.0                | 100.0 | 1,053  | 5.0                    |
| Takeo                     | 11.6         | 37.0         | 6.5                            | 36.0           | 4.3                              | 4.6                 | 0.0                | 100.0 | 1,857  | 5.1                    |
| Otdar Meanchey            | 13.9         | 50.8         | 6.3                            | 24.5           | 3.5                              | 0.9                 | 0.0                | 100.0 | 518    | 3.1                    |
| Battambang/Pailin         | 6.9          | 45.5         | 8.9                            | 30.3           | 5.0                              | 3.4                 | 0.0                | 100.0 | 2,216  | 4.7                    |
| Kampot/Kep                | 8.3          | 48.0         | 6.8                            | 29.9           | 4.4                              | 2.7                 | 0.0                | 100.0 | 1,245  | 4.3                    |
| Preah Sihanouk/Koh Kong   | 9.0          | 41.2         | 7.3                            | 30.9           | 5.1                              | 6.4                 | 0.0                | 100.0 | 655    | 5.0                    |
| Preah Vihear/Stung Treng  | 19.3         | 55.5         | 3.9                            | 16.0           | 2.5                              | 2.9                 | 0.0                | 100.0 | 651    | 2.3                    |
| Mondul Kiri/Ratanak Kiri  | 23.8         | 44.2         | 3.6                            | 22.5           | 3.4                              | 2.6                 | 0.0                | 100.0 | 655    | 2.4                    |
| <b>Wealth quintile</b>    |              |              |                                |                |                                  |                     |                    |       |        |                        |
| Lowest                    | 19.9         | 58.9         | 5.9                            | 14.2           | 1.0                              | 0.2                 | 0.0                | 100.0 | 5,424  | 2.3                    |
| Second                    | 12.9         | 56.3         | 6.9                            | 21.6           | 1.5                              | 0.8                 | 0.0                | 100.0 | 5,669  | 3.2                    |
| Middle                    | 9.5          | 47.4         | 8.0                            | 30.5           | 2.9                              | 1.7                 | 0.0                | 100.0 | 5,614  | 4.3                    |
| Fourth                    | 6.9          | 41.2         | 6.7                            | 36.6           | 5.5                              | 3.0                 | 0.0                | 100.0 | 5,876  | 5.2                    |
| Highest                   | 3.6          | 26.0         | 5.6                            | 39.2           | 9.7                              | 15.9                | 0.0                | 100.0 | 5,796  | 7.5                    |
| Total                     | 10.4         | 45.7         | 6.6                            | 28.7           | 4.2                              | 4.4                 | 0.0                | 100.0 | 28,379 | 4.3                    |

<sup>1</sup> Completed grade 6 at the primary level

<sup>2</sup> Completed grade 12 at the secondary level

Forty-eight percent of females and 46 percent of males in the household population have had some primary schooling without having completed primary school. However, 37 percent of the male population has gone on to attend secondary or higher schooling, compared with only 27 percent of females. Sixty-two percent of males and 68 percent of females age 15-19 have gone on to secondary school. Sixty percent of males and 58 percent of females age 20-24 have done so. As would be expected, higher percentages of males and females in urban areas than rural areas have gone on to secondary schooling. There is a great deal of variation in educational attainment across provinces. The outliers are Mondul Kiri/Ratanak Kiri and Phnom Penh, where 24 percent and 4 percent of males, respectively, and 34 percent and 10 percent of females, respectively, have never been to school.

Data on net attendance ratios (NARs) and gross attendance ratios (GARs) by school level, sex, residence, and province are shown in Table 2.5. The NAR indicates participation in primary schooling for the population age 6-12 and secondary schooling for the population age 13-18. The GAR measures participation at each level of schooling among those age 6-24. The GAR is nearly always higher than the NAR for the same level because the GAR includes participation by those who may be older or younger than the official age range for that level. An NAR of 100 percent would indicate that all of those in the official age range for the level are attending at that level. The GAR can exceed 100 percent if there is significant overage or underage participation at a given level of schooling. Overage participation for a given level of schooling occurs when students start school earlier, repeat one or more grades, or drop out of school and later return.

Table 2.5 School attendance ratios

Net attendance ratios (NARs) and gross attendance ratios (GARs) for the de facto household population by sex and level of schooling, and the gender parity index (GPI), according to background characteristics, Cambodia 2014

| Background characteristic | Net attendance ratio <sup>1</sup> |        |       |                                  | Gross attendance ratio <sup>2</sup> |        |       |                                  |
|---------------------------|-----------------------------------|--------|-------|----------------------------------|-------------------------------------|--------|-------|----------------------------------|
|                           | Male                              | Female | Total | Gender parity index <sup>3</sup> | Male                                | Female | Total | Gender parity index <sup>3</sup> |
| <b>PRIMARY SCHOOL</b>     |                                   |        |       |                                  |                                     |        |       |                                  |
| <b>Residence</b>          |                                   |        |       |                                  |                                     |        |       |                                  |
| Urban                     | 89.8                              | 86.6   | 88.2  | 0.96                             | 113.3                               | 109.5  | 111.4 | 0.97                             |
| Rural                     | 87.4                              | 88.1   | 87.8  | 1.01                             | 113.6                               | 111.0  | 112.3 | 0.98                             |
| <b>Province</b>           |                                   |        |       |                                  |                                     |        |       |                                  |
| Banteay Meanchey          | 88.8                              | 89.6   | 89.2  | 1.01                             | 115.5                               | 110.6  | 112.8 | 0.96                             |
| Kampong Cham              | 89.0                              | 91.3   | 90.2  | 1.03                             | 119.0                               | 114.7  | 116.7 | 0.96                             |
| Kampong Chhnang           | 93.3                              | 88.3   | 90.8  | 0.95                             | 117.3                               | 112.9  | 115.1 | 0.96                             |
| Kampong Speu              | 86.8                              | 89.3   | 88.0  | 1.03                             | 115.7                               | 115.3  | 115.5 | 1.00                             |
| Kampong Thom              | 85.2                              | 85.3   | 85.3  | 1.00                             | 108.0                               | 105.5  | 106.7 | 0.98                             |
| Kandal                    | 83.3                              | 88.9   | 85.8  | 1.07                             | 102.9                               | 104.8  | 103.7 | 1.02                             |
| Kratie                    | 81.8                              | 82.2   | 82.0  | 1.01                             | 108.1                               | 111.0  | 109.6 | 1.03                             |
| Phnom Penh                | 89.5                              | 88.7   | 89.1  | 0.99                             | 108.8                               | 107.7  | 108.3 | 0.99                             |
| Prey Veng                 | 91.1                              | 84.1   | 88.0  | 0.92                             | 109.6                               | 108.3  | 109.0 | 0.99                             |
| Pursat                    | 86.3                              | 83.3   | 84.8  | 0.97                             | 117.3                               | 109.5  | 113.4 | 0.93                             |
| Siem Reap                 | 85.1                              | 87.1   | 86.0  | 1.02                             | 106.4                               | 107.9  | 107.1 | 1.01                             |
| Svay Rieng                | 90.1                              | 91.5   | 90.9  | 1.02                             | 118.4                               | 109.9  | 113.9 | 0.93                             |
| Takeo                     | 89.8                              | 88.3   | 89.0  | 0.98                             | 123.9                               | 108.6  | 115.8 | 0.88                             |
| Otdar Meanchey            | 87.8                              | 82.2   | 85.2  | 0.94                             | 121.1                               | 107.2  | 114.6 | 0.89                             |
| Battambang/Pailin         | 92.3                              | 89.2   | 90.8  | 0.97                             | 117.4                               | 119.0  | 118.2 | 1.01                             |
| Kampot/Kep                | 88.4                              | 91.4   | 90.0  | 1.03                             | 116.6                               | 110.2  | 113.2 | 0.94                             |
| Preah Sihanouk/Koh Kong   | 91.4                              | 87.5   | 89.5  | 0.96                             | 119.1                               | 116.1  | 117.7 | 0.97                             |
| Preah Vihear/Stung Treng  | 81.3                              | 85.3   | 83.4  | 1.05                             | 113.9                               | 113.3  | 113.6 | 0.99                             |
| Mondul Kiri/Ratanak Kiri  | 74.3                              | 81.4   | 78.1  | 1.10                             | 107.6                               | 109.6  | 108.7 | 1.02                             |
| <b>Wealth quintile</b>    |                                   |        |       |                                  |                                     |        |       |                                  |
| Lowest                    | 81.8                              | 86.6   | 84.2  | 1.06                             | 108.7                               | 110.7  | 109.7 | 1.02                             |
| Second                    | 88.4                              | 88.2   | 88.3  | 1.00                             | 112.9                               | 115.3  | 114.1 | 1.02                             |
| Middle                    | 89.5                              | 89.1   | 89.3  | 1.00                             | 115.6                               | 108.7  | 112.0 | 0.94                             |
| Fourth                    | 90.7                              | 91.1   | 90.9  | 1.00                             | 119.6                               | 112.4  | 116.1 | 0.94                             |
| Highest                   | 90.8                              | 84.5   | 87.5  | 0.93                             | 112.8                               | 105.9  | 109.2 | 0.94                             |
| Total                     | 87.7                              | 87.9   | 87.8  | 1.00                             | 113.5                               | 110.8  | 112.2 | 0.98                             |
| <b>SECONDARY SCHOOL</b>   |                                   |        |       |                                  |                                     |        |       |                                  |
| <b>Residence</b>          |                                   |        |       |                                  |                                     |        |       |                                  |
| Urban                     | 58.9                              | 54.3   | 56.5  | 0.92                             | 75.5                                | 67.7   | 71.4  | 0.90                             |
| Rural                     | 39.5                              | 42.3   | 40.9  | 1.07                             | 48.6                                | 51.5   | 50.0  | 1.06                             |
| <b>Province</b>           |                                   |        |       |                                  |                                     |        |       |                                  |
| Banteay Meanchey          | 46.6                              | 43.0   | 44.8  | 0.92                             | 53.7                                | 52.4   | 53.1  | 0.98                             |
| Kampong Cham              | 35.1                              | 46.7   | 40.9  | 1.33                             | 43.3                                | 55.6   | 49.4  | 1.28                             |
| Kampong Chhnang           | 46.7                              | 49.9   | 48.4  | 1.07                             | 52.3                                | 58.1   | 55.4  | 1.11                             |
| Kampong Speu              | 41.4                              | 30.6   | 36.2  | 0.74                             | 50.0                                | 35.9   | 43.2  | 0.72                             |
| Kampong Thom              | 36.8                              | 43.6   | 40.1  | 1.18                             | 47.6                                | 54.0   | 50.8  | 1.13                             |
| Kandal                    | 40.8                              | 37.9   | 39.3  | 0.93                             | 53.1                                | 42.5   | 47.9  | 0.80                             |
| Kratie                    | 29.7                              | 38.0   | 33.7  | 1.28                             | 38.0                                | 46.7   | 42.2  | 1.23                             |
| Phnom Penh                | 57.9                              | 49.9   | 53.9  | 0.86                             | 73.0                                | 61.1   | 67.1  | 0.84                             |
| Prey Veng                 | 50.8                              | 51.5   | 51.1  | 1.01                             | 58.8                                | 65.5   | 61.9  | 1.11                             |
| Pursat                    | 24.4                              | 33.5   | 28.9  | 1.37                             | 36.7                                | 43.4   | 40.0  | 1.18                             |
| Siem Reap                 | 34.6                              | 34.9   | 34.8  | 1.01                             | 44.1                                | 44.3   | 44.2  | 1.00                             |
| Svay Rieng                | 58.0                              | 47.3   | 53.2  | 0.82                             | 71.5                                | 61.9   | 67.3  | 0.87                             |
| Takeo                     | 58.1                              | 66.8   | 62.1  | 1.15                             | 74.9                                | 82.1   | 78.2  | 1.10                             |
| Otdar Meanchey            | 29.8                              | 32.6   | 31.1  | 1.09                             | 36.1                                | 41.3   | 38.5  | 1.14                             |
| Battambang/Pailin         | 40.5                              | 52.8   | 46.8  | 1.30                             | 48.2                                | 65.4   | 57.0  | 1.36                             |
| Kampot/Kep                | 47.4                              | 54.8   | 50.9  | 1.16                             | 59.0                                | 66.0   | 62.3  | 1.12                             |
| Preah Sihanouk/Koh Kong   | 45.4                              | 43.3   | 44.3  | 0.95                             | 53.1                                | 56.2   | 54.7  | 1.06                             |
| Preah Vihear/Stung Treng  | 21.2                              | 27.1   | 24.2  | 1.28                             | 28.7                                | 34.2   | 31.6  | 1.19                             |
| Mondul Kiri/Ratanak Kiri  | 23.6                              | 20.2   | 21.8  | 0.85                             | 30.2                                | 24.2   | 27.1  | 0.80                             |
| <b>Wealth quintile</b>    |                                   |        |       |                                  |                                     |        |       |                                  |
| Lowest                    | 17.0                              | 25.0   | 20.8  | 1.47                             | 23.1                                | 29.6   | 26.2  | 1.28                             |
| Second                    | 30.7                              | 34.4   | 32.5  | 1.12                             | 37.2                                | 41.8   | 39.4  | 1.12                             |
| Middle                    | 45.9                              | 45.6   | 45.8  | 0.99                             | 58.5                                | 56.3   | 57.4  | 0.96                             |
| Fourth                    | 53.1                              | 55.4   | 54.2  | 1.04                             | 64.6                                | 65.3   | 64.9  | 1.01                             |
| Highest                   | 66.5                              | 58.9   | 62.5  | 0.88                             | 81.4                                | 75.1   | 78.1  | 0.92                             |
| Total                     | 42.4                              | 44.3   | 43.3  | 1.05                             | 52.6                                | 54.2   | 53.4  | 1.03                             |

<sup>1</sup> The NAR for primary school is the percentage of the primary school age (6-12 years) population that is attending primary school. The NAR for secondary school is the percentage of the secondary school age (13-18 years) population that is attending secondary school. By definition the NAR cannot exceed 100 percent.

<sup>2</sup> The GAR for primary school is the total number of primary school students, expressed as a percentage of the official primary school age population. The GAR for secondary school is the total number of secondary school students, expressed as a percentage of the official secondary school age population. If there are significant numbers of overage and underage students at a given level of schooling, the GAR can exceed 100 percent.

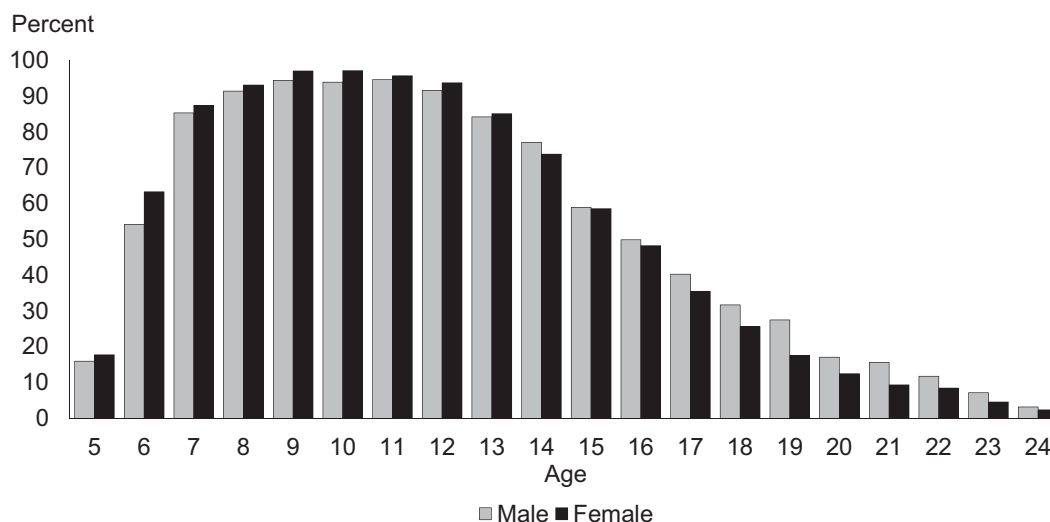
<sup>3</sup> The gender parity index for primary school is the ratio of the primary school NAR (GAR) for females to the NAR (GAR) for males. The gender parity index for secondary school is the ratio of the secondary school NAR (GAR) for females to the NAR (GAR) for males.

Of those children who should be attending primary school, 88 percent are currently doing so. In 2010, 85 percent of children who should have been attending primary school were doing so. The NAR is significantly lower at the secondary school level and at about the same level found in 2010. Forty-three percent of secondary school-age youths are in school at that level (this figure was 44 percent in 2010). Similar to 2010, there is little difference between the NAR of males and females at both the primary and the secondary level.

Table 2.5 also shows the gender parity index (GPI) for primary and secondary school. The GPI for primary school is the ratio of the primary school NAR/GAR for females to the NAR/GAR for males. The GPI for secondary school is the ratio of the secondary school NAR/GAR for females to the NAR/GAR for males. The primary school GPI for NAR of 1.00 indicates gender parity at the primary level, reflecting the fact that about the same proportions of girls and boys attend primary school. The GPI for NAR of 1.05 at the secondary school level indicates near parity at the secondary level. The GPIs for NAR in urban areas and rural areas indicate parity or near parity at the primary level (0.96 and 1.01, respectively). However, the GPI for NAR at the secondary level in urban areas is 0.92, reflecting the fact that a smaller proportion of girls than boys in urban areas attend secondary school. The GPI for NAR varies across provinces, and this variation is far more evident at the secondary school level than at the primary school level (Table 2.5). The GPI for GAR at the primary level (0.98) and at the secondary level (1.03) indicates near parity. The primary school GPI and the secondary school GPI for GAR follow patterns of the GPIs for NAR.

Figure 2.2 illustrates age-specific attendance rates, that is, the percentage of a given age cohort attending school regardless of the level attended (primary, secondary, or higher). Although the minimum age for schooling in Cambodia is 6 years, some children enroll prior to this age, and only about three in every five children age 6 are attending school.

**Figure 2.2 Age-specific attendance rates**



Note: Figure shows percentage of the de jure household population age 5-24 years attending school

CDHS 2014

Similar to 2010, boys and girls attend school in about equal proportions. Up to and including age 13, the proportion of girls attending school is slightly higher than for boys, and then it is slightly lower than for boys at age 14 to 16. From age 17 to 23, young men attend school at a noticeably higher proportion than young women. At age 24, the proportions of men and women attending school are about equal.

## 2.3 HOUSING CHARACTERISTICS

Types of water sources and sanitation facilities are important determinants of the health status of household members and particularly of children. Proper hygienic and sanitation practices can reduce

exposure to and the seriousness of major childhood diseases such as diarrhea. The CDHS asked respondents about the household source of drinking water, the time required round trip to obtain that water, and the type of sanitation facility used by the household. In Cambodia, the source of drinking water can vary between the dry season and the rainy season, so separate questions were asked for the different seasons. If households had more than one source of drinking water, respondents were asked to identify the most commonly used source.

### **2.3.1 Water Supply**

Table 2.6 shows that sources of drinking water were the same during the dry and rainy seasons for 92 percent of urban households and 67 percent of rural households. The source of drinking water is an indicator of whether it is suitable for drinking. Sources that are considered likely to be of suitable quality are listed under “Improved source” and those that may not be of suitable quality are listed under “Non-improved source,” reflecting the categorizations proposed by the World Health Organization (WHO), the United Nations Children’s Fund (UNICEF), and the Joint Monitoring Programme (JMP) for Water Supply and Sanitation.

During the dry season, 35 percent of households in Cambodia consume drinking water from a non-improved source. This percentage declines to 16 percent of households during the rainy season, when more households utilize rainwater for drinking water. The main source of drinking water during the rainy season is rainwater for nearly two of five households. Rainwater is the most common source of drinking water during the rainy season for rural households.

Even if water is not piped directly into the dwelling or yard, it is common for the source of water to be on the household premises, especially during the rainy season. Seventy-five percent of households report that their source of drinking water during the rainy season is located on the household premises. The variation between urban households and rural households is insignificant. During the dry season, the percentage of households with their source of drinking water on the premises declines to 69 percent and 51 percent among urban and rural households, respectively. Among those households neither having a source of drinking water on the premises nor having water delivered, the majority are within 30 minutes or less in round trip time of obtaining it. During the dry season only 6 percent of households are 30 minutes or longer away from a source, and during the rainy season that number drops to just 2 percent requiring 30 minutes or more.

Table 2.6 Household drinking water

Percent distribution of households and de jure population by source of drinking water, time to obtain drinking water, and treatment of drinking water, according to residence, Cambodia 2014

| Characteristic  | Households |        |        | Population |        |        |
|---|------------|--------|--------|------------|--------|--------|
|   | Urban      | Rural  | Total  | Urban      | Rural  | Total  |
| <b>Source of drinking water during dry season</b>                     |            |        |        |            |        |        |
| <i>Improved source</i>  | 95.0       | 60.1   | 65.2   | 95.1       | 58.8   | 64.5   |
| Piped water into dwelling/yard/plot                                   | 51.7       | 5.7    | 12.3   | 54.0       | 5.7    | 13.3   |
| Public tap/standpipe  | 1.8        | 0.5    | 0.7    | 1.9        | 0.5    | 0.8    |
| Tube well or borehole   | 7.7        | 31.1   | 27.8   | 7.2        | 30.0   | 26.4   |
| Protected dug well  | 1.4        | 4.0    | 3.6    | 1.4        | 4.2    | 3.8    |
| Protected spring  | 0.2        | 0.3    | 0.3    | 0.2        | 0.3    | 0.3    |
| Rainwater   | 5.5        | 10.1   | 9.4    | 4.9        | 9.6    | 8.9    |
| Bottled water   | 26.7       | 8.4    | 11.0   | 25.7       | 8.4    | 11.1   |
| <i>Non-improved source</i>  | 4.9        | 39.8   | 34.8   | 4.7        | 41.2   | 35.4   |
| Unprotected dug well  | 1.6        | 13.4   | 11.7   | 1.5        | 13.8   | 11.9   |
| Unprotected spring  | 0.1        | 1.3    | 1.1    | 0.1        | 1.3    | 1.1    |
| Tanker truck/cart with small tank                                     | 1.6        | 3.9    | 3.6    | 1.6        | 3.9    | 3.6    |
| Surface water   | 1.6        | 21.2   | 18.4   | 1.4        | 22.2   | 18.9   |
| Other   | 0.1        | 0.0    | 0.0    | 0.2        | 0.0    | 0.0    |
| Total   | 100.0      | 100.0  | 100.0  | 100.0      | 100.0  | 100.0  |
| <b>Time to obtain drinking water (round trip)</b>                     |            |        |        |            |        |        |
| Water on premises   | 69.1       | 51.3   | 53.9   | 70.4       | 50.9   | 54.0   |
| Less than 30 minutes  | 27.6       | 39.5   | 37.8   | 26.1       | 39.5   | 37.4   |
| 30 minutes or longer  | 1.3        | 7.1    | 6.3    | 1.6        | 7.5    | 6.6    |
| Don't know/missing  | 2.0        | 2.1    | 2.1    | 1.9        | 2.1    | 2.1    |
| Total   | 100.0      | 100.0  | 100.0  | 100.0      | 100.0  | 100.0  |
| <b>Source of drinking water during rainy season</b>                   |            |        |        |            |        |        |
| <i>Improved source</i>  | 97.6       | 81.4   | 83.7   | 97.5       | 80.6   | 83.3   |
| Piped water into dwelling/yard/plot                                   | 49.9       | 4.7    | 11.2   | 51.9       | 4.6    | 12.1   |
| Public tap/standpipe  | 1.6        | 0.5    | 0.7    | 1.7        | 0.5    | 0.7    |
| Tube well or borehole   | 6.7        | 25.4   | 22.7   | 6.2        | 24.1   | 21.3   |
| Protected dug well  | 1.2        | 2.8    | 2.5    | 1.2        | 2.9    | 2.6    |
| Protected spring  | 0.2        | 0.2    | 0.2    | 0.1        | 0.2    | 0.2    |
| Rainwater   | 13.4       | 40.8   | 36.9   | 12.7       | 41.4   | 36.9   |
| Bottled water   | 24.7       | 7.0    | 9.6    | 23.6       | 6.9    | 9.5    |
| <i>Non-improved source</i>  | 2.3        | 18.5   | 16.2   | 2.3        | 19.3   | 16.6   |
| Unprotected dug well  | 1.1        | 9.3    | 8.1    | 1.1        | 9.5    | 8.2    |
| Unprotected spring  | 0.0        | 0.7    | 0.6    | 0.0        | 0.8    | 0.7    |
| Tanker truck/cart with small tank                                     | 0.6        | 0.9    | 0.8    | 0.7        | 0.9    | 0.8    |
| Surface water   | 0.6        | 7.7    | 6.6    | 0.6        | 8.1    | 6.9    |
| Other   | 0.1        | 0.0    | 0.0    | 0.1        | 0.0    | 0.0    |
| Missing   | 0.0        | 0.1    | 0.1    | 0.0        | 0.1    | 0.1    |
| Total   | 100.0      | 100.0  | 100.0  | 100.0      | 100.0  | 100.0  |
| <b>Time to obtain drinking water (round trip) during rainy season</b> |            |        |        |            |        |        |
| Water on premises   | 73.7       | 74.9   | 74.8   | 74.7       | 75.2   | 75.1   |
| Less than 30 minutes  | 24.0       | 21.9   | 22.2   | 22.8       | 21.4   | 21.6   |
| 30 minutes or longer  | 0.8        | 2.1    | 1.9    | 0.9        | 2.3    | 2.1    |
| Don't know/missing  | 1.5        | 1.1    | 1.1    | 1.5        | 1.1    | 1.2    |
| Total   | 100.0      | 100.0  | 100.0  | 100.0      | 100.0  | 100.0  |
| <b>Percentage using same water within dry and rainy season</b>        |            |        |        |            |        |        |
|   | 91.5       | 67.3   | 70.8   | 91.7       | 66.2   | 70.2   |
| <b>Water treatment prior to drinking<sup>1</sup></b>                  |            |        |        |            |        |        |
| Boiled  | 56.7       | 54.9   | 55.1   | 56.6       | 54.4   | 54.7   |
| Bleach/chlorine added   | 0.1        | 0.3    | 0.2    | 0.0        | 0.3    | 0.2    |
| Strained through cloth  | 0.3        | 0.7    | 0.6    | 0.3        | 0.7    | 0.6    |
| Ceramic, sand, or other filter  | 15.9       | 16.7   | 16.6   | 17.0       | 16.9   | 16.9   |
| Solar disinfection  | 0.3        | 0.1    | 0.1    | 0.3        | 0.1    | 0.1    |
| Stand and settle  | 0.7        | 5.3    | 4.7    | 0.7        | 5.3    | 4.6    |
| Other   | 0.6        | 0.2    | 0.3    | 0.5        | 0.2    | 0.3    |
| No treatment  | 30.4       | 30.8   | 30.8   | 29.9       | 31.4   | 31.2   |
| Percentage using an appropriate treatment method <sup>2</sup>         | 68.7       | 67.0   | 67.3   | 69.3       | 66.6   | 67.0   |
| Number  | 2,284      | 13,541 | 15,825 | 11,469     | 61,489 | 72,958 |

<sup>1</sup> Respondents may report multiple treatment methods, so the sum of treatment may exceed 100 percent.

<sup>2</sup> Appropriate water treatment methods include boiling, bleaching, filtering, and solar disinfecting.

Fifty-five percent of households boil their water prior to drinking. There is little variation between urban and rural areas in the proportion of households that boil their water prior to drinking. Seventeen percent of households use a ceramic, sand, or other type of filter to filter their water prior to drinking. Among those that do not boil their water, the most common action is to do nothing to treat the water prior to drinking. Overall, 31 percent of households report that they do nothing to treat their drinking water before consuming it. Drinking water without prior treatment is equally likely among urban and rural households. However, the likelihood of drinking water without prior treatment is somewhat higher than in 2010.

## 2.3.2 Sanitation Facilities

A household's toilet facility is classified as hygienic if it is used only by household members (is not shared by other households) and if the type of toilet effectively separates human waste from human contact. The types of facilities most likely to accomplish this are toilets that flush or pour flush into a piped sewer system, septic tank, or pit latrine; ventilated improved pit (VIP) latrines; pit latrines with a slab; and composting toilets. Households that share their toilet facility or do not effectively separate human waste from human contact are classified as unhygienic. These categories are those proposed by the WHO/UNICEF Joint Monitoring Program.

**Table 2.7 Household sanitation facilities**

Percent distribution of households and de jure population by type of toilet/latrine facilities, according to residence, Cambodia 2014

| Type of toilet/latrine facility                       | Households |        |        | Population |        |        |
|---|------------|--------|--------|------------|--------|--------|
|   | Urban      | Rural  | Total  | Urban      | Rural  | Total  |
| <b>Improved, not shared facility</b>                  |            |        |        |            |        |        |
| Flush/pour flush to piped sewer system                | 37.4       | 0.7    | 6.0    | 38.8       | 0.7    | 6.7    |
| Flush/pour flush to septic tank                       | 45.2       | 37.2   | 38.4   | 45.7       | 38.6   | 39.7   |
| Flush/pour flush to pit latrine                       | 0.5        | 1.0    | 0.9    | 0.4        | 0.9    | 0.9    |
| Ventilated improved pit (VIP) latrine                 | 0.0        | 0.1    | 0.0    | 0.0        | 0.0    | 0.0    |
| Pit latrine with slab                                 | 0.1        | 0.5    | 0.5    | 0.1        | 0.6    | 0.5    |
| Composting toilet                                     | 0.0        | 0.2    | 0.2    | 0.0        | 0.3    | 0.2    |
| Total   | 83.2       | 39.7   | 46.0   | 85.0       | 41.2   | 48.1   |
| <b>Shared facility<sup>1</sup></b>                    |            |        |        |            |        |        |
| Flush/pour flush to piped sewer system                | 2.3        | 0.2    | 0.5    | 1.8        | 0.2    | 0.5    |
| Flush/pour flush to septic tank                       | 6.1        | 8.7    | 8.3    | 5.5        | 8.3    | 7.9    |
| Flush/pour flush to pit latrine                       | 0.1        | 0.2    | 0.2    | 0.1        | 0.1    | 0.1    |
| Ventilated improved pit (VIP) latrine                 | 0.0        | 0.0    | 0.0    | 0.0        | 0.0    | 0.0    |
| Pit latrine with slab                                 | 0.0        | 0.1    | 0.1    | 0.0        | 0.1    | 0.1    |
| Composting toilet                                     | 0.0        | 0.0    | 0.0    | 0.0        | 0.0    | 0.0    |
| Total   | 8.6        | 9.1    | 9.0    | 7.5        | 8.7    | 8.5    |
| <b>Non-improved facility</b>                          |            |        |        |            |        |        |
| Flush/pour flush not to sewer/septic tank/pit latrine | 1.0        | 0.2    | 0.3    | 1.0        | 0.2    | 0.3    |
| Pit latrine without slab/open pit                     | 0.0        | 0.1    | 0.1    | 0.0        | 0.1    | 0.1    |
| Bucket  | 0.0        | 0.1    | 0.1    | 0.0        | 0.1    | 0.1    |
| Hanging toilet/hanging latrine                        | 0.3        | 0.4    | 0.4    | 0.3        | 0.4    | 0.4    |
| No facility/bush/field                                | 6.9        | 50.4   | 44.1   | 6.2        | 49.3   | 42.5   |
| Missing   | 0.0        | 0.0    | 0.0    | 0.0        | 0.0    | 0.0    |
| Total   | 8.2        | 51.2   | 45.0   | 7.6        | 50.1   | 43.4   |
| Total   | 100.0      | 100.0  | 100.0  | 100.0      | 100.0  | 100.0  |
| Number  | 2,284      | 13,541 | 15,825 | 11,469     | 61,489 | 72,958 |

<sup>1</sup> Facilities that would be considered improved if they were not shared by two or more households

Households vary greatly in access to hygienic facilities by urban and rural residence, as shown in Table 2.7. The majority of households in rural areas have no toilet facility, with half of households (50 percent) reporting no toilet facility and making use of fields or bush areas. This figure was reported among only 7 percent of urban households. Access to hygienic facilities has improved substantially, as the percentage of households which have no facilities declined from 57 percent in 2010 to 44 percent in 2014.

### 2.3.3 Hand Washing

Washing hands with water and soap before preparing and eating food and after leaving the toilet is a simple and inexpensive practice that protects against many diseases. During the survey, interviewers asked to see the place members of the household used for hand washing and observed whether water and soap or some other cleansing agent was available.

Table 2.8 shows that interviewers observed a place for hand washing in 85 percent of households—a significant increase from 66 percent observed in 2010. Eighty percent of these households had water and soap for hand washing, and 19 percent had water only. In urban areas, nearly all households (97 percent) had a place for hand washing, as compared with 83 percent of households in rural areas. Ninety-four percent of urban households had soap and water available at a hand washing place, compared with only 77 percent of rural households. A higher percentage of households in rural areas than urban areas had water but no soap (22 percent versus 6 percent).

Among the provinces, interviewers observed a place for hand washing in only 42 percent of the households in Mondul Kiri/Ratanak Kiri and 55 percent of the households in Takeo. Among households where a place for hand washing was observed, the lowest proportions with soap and water were in Takeo (59 percent) and Kandal (60 percent). The proportion of households with a place for hand washing increases with increasing wealth, from 74 percent among households in the lowest quintile to 96 percent among those in the highest quintile. Thirty percent of households in the lowest wealth quintile have water but no soap, compared with only 6 percent of households in the highest quintile.

Table 2.8 Hand washing

Percentage of households in which the place most often used for washing hands was observed, and among households in which the place for hand washing was observed, percent distribution by availability of water, soap, and other cleansing agents, Cambodia 2014

| Background characteristic | Percentage of households where place for washing hands was observed | Number of households | Among households where place for hand washing was observed, percentage with: |   |             |                                |   |            | Total        | Number of households with place for hand washing observed |
|---------------------------|---|----------------------|--|---|-------------|--------------------------------|---|------------|--------------|---|
|                           |   |                      | Soap and water <sup>1</sup>  | Water and cleansing agent <sup>2</sup> other than soap only | Water only  | Soap but no water <sup>3</sup> | No water, no soap, no other cleansing agent | Missing    |              |   |
| <b>Residence</b>          |   |                      |  |   |             |                                |   |            |              |   |
| Urban                     | 97.1  | 2,284                | 94.1   | 0.0   | 5.7         | 0.0                            | 0.1   | 0.0        | 100.0        | 2,217   |
| Rural                     | 82.6  | 13,541               | 77.0   | 0.1   | 22.0        | 0.2                            | 0.8   | 0.0        | 100.0        | 11,189  |
| <b>Province</b>           |   |                      |  |   |             |                                |   |            |              |   |
| Banteay Meanchey          | 98.3  | 670                  | 94.1   | 0.2   | 5.7         | 0.0                            | 0.0   | 0.0        | 100.0        | 658   |
| Kampong Cham              | 82.0  | 1,997                | 89.4   | 0.1   | 10.2        | 0.2                            | 0.0   | 0.0        | 100.0        | 1,638   |
| Kampong Chhnang           | 83.1  | 608                  | 87.2   | 0.0   | 12.8        | 0.0                            | 0.0   | 0.0        | 100.0        | 506   |
| Kampong Speu              | 99.0  | 973                  | 69.8   | 0.0   | 30.2        | 0.0                            | 0.0   | 0.0        | 100.0        | 963   |
| Kampong Thom              | 97.5  | 801                  | 85.3   | 0.1   | 11.5        | 0.5                            | 2.5   | 0.0        | 100.0        | 781   |
| Kandal                    | 89.5  | 1,259                | 59.8   | 0.0   | 39.3        | 0.3                            | 0.6   | 0.0        | 100.0        | 1,127   |
| Kratie                    | 87.9  | 451                  | 70.9   | 0.8   | 26.6        | 0.8                            | 1.0   | 0.0        | 100.0        | 397   |
| Phnom Penh                | 98.8  | 1,293                | 98.5   | 0.0   | 1.4         | 0.0                            | 0.0   | 0.0        | 100.0        | 1,278   |
| Prey Veng                 | 60.1  | 1,228                | 93.0   | 0.2   | 6.8         | 0.0                            | 0.0   | 0.0        | 100.0        | 738   |
| Pursat                    | 96.5  | 611                  | 61.8   | 0.0   | 36.8        | 0.0                            | 1.4   | 0.0        | 100.0        | 589   |
| Siem Reap                 | 63.6  | 1,000                | 95.8   | 0.0   | 4.2         | 0.0                            | 0.0   | 0.0        | 100.0        | 636   |
| Svay Rieng                | 93.2  | 678                  | 78.2   | 0.0   | 21.5        | 0.1                            | 0.2   | 0.0        | 100.0        | 632   |
| Takeo                     | 54.9  | 1,011                | 59.1   | 0.1   | 35.3        | 0.3                            | 5.3   | 0.0        | 100.0        | 555   |
| Otdar Meanchey            | 89.9  | 271                  | 89.2   | 0.0   | 10.7        | 0.0                            | 0.2   | 0.0        | 100.0        | 244   |
| Battambang/Pailin         | 96.7  | 1,222                | 60.9   | 0.0   | 37.5        | 0.2                            | 1.4   | 0.0        | 100.0        | 1,181   |
| Kampot/Kep                | 90.2  | 762                  | 70.4   | 0.0   | 29.0        | 0.4                            | 0.2   | 0.0        | 100.0        | 687   |
| Preah Sihanouk/Koh Kong   | 99.8  | 320                  | 98.1   | 0.0   | 1.9         | 0.0                            | 0.0   | 0.0        | 100.0        | 319   |
| Preah Vihear/Stung Treng  | 96.1  | 361                  | 88.7   | 0.0   | 11.2        | 0.1                            | 0.0   | 0.0        | 100.0        | 346   |
| Mondul Kiri/Ratanak Kiri  | 41.9  | 309                  | 77.3   | 0.4   | 22.2        | 0.0                            | 0.0   | 0.1        | 100.0        | 130   |
| <b>Wealth quintile</b>    |   |                      |  |   |             |                                |   |            |              |   |
| Lowest                    | 73.7  | 3,208                | 68.1   | 0.1   | 30.4        | 0.3                            | 1.1   | 0.0        | 100.0        | 2,364   |
| Second                    | 79.6  | 3,320                | 74.0   | 0.1   | 24.8        | 0.2                            | 0.8   | 0.0        | 100.0        | 2,642   |
| Middle                    | 85.1  | 3,147                | 77.9   | 0.1   | 21.1        | 0.1                            | 0.8   | 0.0        | 100.0        | 2,677   |
| Fourth                    | 90.0  | 3,176                | 82.3   | 0.0   | 16.8        | 0.2                            | 0.6   | 0.0        | 100.0        | 2,859   |
| Highest                   | 96.3  | 2,975                | 94.2   | 0.0   | 5.8         | 0.0                            | 0.1   | 0.0        | 100.0        | 2,865   |
| <b>Total</b>              | <b>84.7</b>   | <b>15,825</b>        | <b>79.8</b>  | <b>0.1</b>  | <b>19.3</b> | <b>0.2</b>                     | <b>0.7</b>                                  | <b>0.0</b> | <b>100.0</b> | <b>13,406</b>   |

<sup>1</sup> Soap includes soap or detergent in bar, liquid, powder, or paste form. This column includes households with soap and water only as well as those that had soap and water and another cleansing agent.

<sup>2</sup> Cleansing agents other than soap include locally available materials such as ash, mud, or sand.

<sup>3</sup> Includes households with soap only as well as those with soap and another cleansing agent



### 2.3.4 Flooring Material and Cooking Arrangements

Table 2.9 presents the distribution of households by dwelling characteristics. Nearly all households in urban areas (97 percent) live in dwellings with electricity, whereas in rural areas only about half of households (49 percent) have electricity. Ceramic tiles are the most common type of flooring material in urban areas, and wood planks are the most common material in rural areas. Thirty-six percent of urban households live in dwellings with ceramic tiles, followed by 26 percent who live in dwellings with wood planks. In rural areas, approximately half of households live in dwellings with wood plank flooring, followed by one-quarter who live in dwellings with palm or bamboo flooring<sup>1</sup>. About two-thirds of rural households (66 percent) sleep together in one room, whereas only 42 percent of urban households do so. In urban areas, 57 percent of households use two or more rooms for sleeping.

Firewood is the most common source of fuel for cooking in rural areas, with 85 percent of rural households using firewood for this purpose. There is more variability in urban areas as to what is used for cooking fuel. Twenty-two percent of urban households use firewood, 59 percent use liquid petroleum gas, and 16 percent use charcoal. Sixty-one percent of urban households and 37 percent of rural households report that they do their cooking in the house.

**Table 2.9 Household characteristics**

Percent distribution of households by housing characteristics and percentage of households using solid fuel for cooking, according to residence, Cambodia 2014

| Housing characteristic         | Households |        |        | Population |        |        |
|--------------------------------|------------|--------|--------|------------|--------|--------|
|                                | Urban      | Rural  | Total  | Urban      | Rural  | Total  |
| <b>Electricity</b>             |            |        |        |            |        |        |
| Yes                            | 96.9       | 49.2   | 56.1   | 97.3       | 49.8   | 57.1   |
| No                             | 3.1        | 50.8   | 43.9   | 2.7        | 50.2   | 42.8   |
| Total                          | 100.0      | 100.0  | 100.0  | 100.0      | 100.0  | 100.0  |
| <b>Flooring material</b>       |            |        |        |            |        |        |
| Earth, sand                    | 3.1        | 9.2    | 8.3    | 2.9        | 8.7    | 7.8    |
| Dung                           | 0.1        | 0.0    | 0.0    | 0.1        | 0.0    | 0.0    |
| Wood/planks                    | 26.1       | 51.1   | 47.5   | 26.7       | 52.7   | 48.7   |
| Palm/bamboo                    | 3.7        | 23.6   | 20.7   | 3.5        | 22.7   | 19.8   |
| Parquet or polished wood       | 0.1        | 0.1    | 0.1    | 0.1        | 0.1    | 0.1    |
| Vinyl or asphalt strips        | 0.0        | 0.1    | 0.1    | 0.0        | 0.0    | 0.0    |
| Ceramic tiles                  | 35.6       | 5.3    | 9.6    | 35.3       | 5.5    | 10.1   |
| Cement tiles                   | 19.2       | 2.8    | 5.2    | 20.0       | 2.8    | 5.5    |
| Cement                         | 12.1       | 7.7    | 8.4    | 11.4       | 7.2    | 7.9    |
| Floating house                 | 0.1        | 0.1    | 0.1    | 0.0        | 0.2    | 0.2    |
| Total                          | 100.0      | 100.0  | 100.0  | 100.0      | 100.0  | 100.0  |
| <b>Rooms used for sleeping</b> |            |        |        |            |        |        |
| One                            | 42.2       | 65.8   | 62.4   | 38.1       | 63.9   | 59.9   |
| Two                            | 27.4       | 23.8   | 24.3   | 27.5       | 24.7   | 25.2   |
| Three or more                  | 29.8       | 8.7    | 11.8   | 33.8       | 9.8    | 13.5   |
| Missing                        | 0.6        | 1.7    | 1.5    | 0.6        | 1.6    | 1.4    |
| Total                          | 100.0      | 100.0  | 100.0  | 100.0      | 100.0  | 100.0  |
| <b>Cooking fuel</b>            |            |        |        |            |        |        |
| Electricity                    | 2.1        | 0.6    | 0.8    | 2.0        | 0.6    | 0.8    |
| LPG/natural gas/biogas         | 58.8       | 7.7    | 15.0   | 59.0       | 7.2    | 15.2   |
| Charcoal                       | 16.3       | 6.5    | 7.9    | 16.3       | 6.5    | 8.0    |
| Wood                           | 22.1       | 84.6   | 75.6   | 22.3       | 85.2   | 75.4   |
| Agricultural crop              | 0.0        | 0.3    | 0.2    | 0.0        | 0.3    | 0.2    |
| Animal dung                    | 0.0        | 0.1    | 0.1    | 0.0        | 0.1    | 0.1    |
| No food cooked in household    | 0.7        | 0.2    | 0.3    | 0.4        | 0.1    | 0.1    |
| Total                          | 100.0      | 100.0  | 100.0  | 100.0      | 100.0  | 100.0  |
| <b>Place for cooking</b>       |            |        |        |            |        |        |
| In the house                   | 60.9       | 37.0   | 40.4   | 60.6       | 36.5   | 40.3   |
| In a separate building         | 17.1       | 25.8   | 24.6   | 17.8       | 26.9   | 25.5   |
| Outdoors                       | 20.4       | 34.1   | 32.1   | 20.4       | 33.5   | 31.5   |
| No food cooked in household    | 1.4        | 3.1    | 2.8    | 1.1        | 3.0    | 2.7    |
| Other                          | 0.1        | 0.0    | 0.0    | 0.0        | 0.0    | 0.0    |
| Total                          | 100.0      | 100.0  | 100.0  | 100.0      | 100.0  | 100.0  |
| Number                         | 2,284      | 13,541 | 15,825 | 13,753     | 75,030 | 88,783 |

LPG = Liquid petroleum gas

<sup>1</sup> If there was more than one type of flooring, interviewers recorded the predominant flooring material.

## 2.4 HOUSEHOLD POSSESSIONS

Information on ownership of durable goods and other possessions is presented in Table 2.10. The availability of durable consumer goods is a good indicator of a household's socioeconomic level, and particular goods have specific benefits. For example, radio access can increase exposure to innovative ideas, whereas transport vehicles can provide access to services out of the local area.

Sixty-six percent of households in Cambodia own a television, and 87 percent own a mobile telephone. Ownership of mobile telephones is almost universal among urban households (96 percent) and is very common among rural households (86 percent). About two of five households (39 percent) own a generator/battery or a solar panel.

Twenty-six percent of urban households own a car, truck, or van, an increase from 22 percent in 2010. About two-thirds of all households (68 percent) own a motorcycle, an increase from 54 percent of households in 2010. The percentage of households owning a boat remains unchanged at about 8 percent.

Sixty-nine percent of all households own some land, which is about the same as the 2010 figure of 68 percent. Sixty-six percent of households own at least one farm animal, also about the same as the figure reported in 2010 (67 percent).

Table 2.10 Household possessions

Percentage of households possessing various household effects, means of transportation, agricultural land, and livestock/farm animals by residence, Cambodia 2014

| Possession                             | Households |        |        | Population |        |        |
|--|------------|--------|--------|------------|--------|--------|
|  | Urban      | Rural  | Total  | Urban      | Rural  | Total  |
| <b>Household effects</b>               |            |        |        |            |        |        |
| Radio                                  | 50.4       | 38.2   | 40.0   | 52.9       | 38.4   | 40.7   |
| Television                             | 91.4       | 61.4   | 65.7   | 93.6       | 63.9   | 68.6   |
| Mobile telephone                       | 96.1       | 85.7   | 87.2   | 97.1       | 88.4   | 89.8   |
| Non-mobile telephone                   | 12.2       | 5.5    | 6.5    | 13.2       | 5.8    | 7.0    |
| Refrigerator                           | 40.4       | 2.5    | 8.0    | 43.5       | 2.7    | 9.1    |
| Wardrobe                               | 72.7       | 38.5   | 43.4   | 75.1       | 39.7   | 45.3   |
| Sewing machine                         | 17.6       | 6.7    | 8.3    | 19.2       | 7.1    | 9.0    |
| CD/DVD player                          | 47.7       | 27.3   | 30.2   | 51.4       | 30.0   | 33.4   |
| Generator/battery/solar                | 7.9        | 43.9   | 38.7   | 9.2        | 44.9   | 39.3   |
| Watch                                  | 43.7       | 14.9   | 19.0   | 47.7       | 16.2   | 21.1   |
| <b>Means of transport</b>              |            |        |        |            |        |        |
| Bicycle/cyclo                          | 54.9       | 65.7   | 64.2   | 59.8       | 68.9   | 67.5   |
| Animal-drawn cart                      | 1.0        | 14.2   | 12.3   | 1.1        | 15.4   | 13.2   |
| Motorcycle/scooter                     | 83.2       | 65.5   | 68.0   | 86.6       | 69.9   | 72.5   |
| Car/truck                              | 26.0       | 12.1   | 14.1   | 29.1       | 13.4   | 15.8   |
| Boat with a motor                      | 1.3        | 4.5    | 4.1    | 1.7        | 5.3    | 4.8    |
| Motorcycle cart                        | 6.7        | 3.3    | 3.8    | 8.5        | 3.7    | 4.5    |
| Boat without a motor                   | 1.1        | 4.7    | 4.1    | 1.3        | 5.3    | 4.6    |
| Ownership of agricultural land         | 28.7       | 75.9   | 69.1   | 29.5       | 77.1   | 69.6   |
| Ownership of farm animals <sup>1</sup> | 21.9       | 73.0   | 65.6   | 22.9       | 76.2   | 67.8   |
| Number                                 | 2,284      | 13,541 | 15,825 | 11,469     | 61,489 | 72,958 |

<sup>1</sup> Water buffaloes, cows, bulls, horses, donkeys, mules, goats, sheep, pigs, chickens, ducks, or elephants

## 2.5 HOUSEHOLD WEALTH

In addition to standard background characteristics, many of the results in this report are shown by wealth quintiles, an indicator of the economic status of households. The 2014 CDHS did not collect data on consumption or income, but the information collected on dwelling and household characteristics, consumer goods, and assets is used as a measure of socioeconomic status. The resulting wealth index is an indicator of relative level of wealth that is used as a proxy for expenditure and income measures.

Each household asset for which information is collected is assigned a weight or factor score generated through principal components analysis. The resulting asset scores are standardized in relation to a standard normal distribution with a mean of zero and a standard deviation of one.

These standardized scores are then used to create the break points that define wealth quintiles. Each household is assigned a standardized score for each asset, where the score differs depending on whether or not the household owns that asset (or, in the case of sleeping arrangements, the number of people per room). These scores are summed by household, and individuals are ranked according to the total score of the household in which they reside. The sample is then divided into population quintiles (i.e., five groups with the same number of individuals in each). At the national level, approximately 20 percent of the household population is grouped into each wealth quintile.

A single asset index is developed on the basis of data from the entire country sample and used in all of the tabulations presented. The reader should keep in mind that wealth quintiles are expressed in terms of quintiles of individuals in the population rather than quintiles of individuals at risk for any one health or population indicator. For example, quintile rates for infant mortality refer to infant mortality rates per 1,000 live births among all people in the population quintile concerned, as distinct from quintiles of live births or newly born infants, who constitute the only members of the population at risk of mortality during infancy.

The wealth index has been compared against poverty rates and gross domestic product per capita in India and against expenditure data from household surveys in Nepal, Pakistan, and Indonesia (Filmer and Pritchett, 1998) as well as Guatemala (Rutstein, 1999). The evidence from those studies suggests that the asset index is highly comparable to conventionally measured consumption expenditures.

Table 2.11 shows the distribution of the household population into five wealth quintiles (five equally divided levels) based on the wealth index by residence. These distributions indicate the degree to which wealth is evenly (or unevenly) distributed across Cambodia. As expected, urban areas are wealthier than rural areas. For example, 84 percent of Phnom Penh's population falls in the highest wealth quintile. By contrast, Pursat has the lowest representation in the highest wealth quintile, with only 5 percent of its population falling in that quintile.

**Table 2.11 Wealth quintiles**

Percent distribution of the de jure population by wealth quintiles, according to residence and province, Cambodia 2014

| Residence/region         | Wealth quintile |        |        |        |         | Total | Number of persons |
|--------------------------|-----------------|--------|--------|--------|---------|-------|-------------------|
|                          | Lowest          | Second | Middle | Fourth | Highest |       |                   |
| <b>Residence</b>         |                 |        |        |        |         |       |                   |
| Urban                    | 1.3             | 1.8    | 4.1    | 14.9   | 78.0    | 100.0 | 11,469            |
| Rural                    | 23.5            | 23.4   | 23.0   | 20.9   | 9.2     | 100.0 | 61,489            |
| <b>Province</b>          |                 |        |        |        |         |       |                   |
| Banteay Meanchey         | 6.0             | 12.1   | 22.6   | 36.4   | 22.9    | 100.0 | 3,134             |
| Kampong Cham             | 25.2            | 21.0   | 25.3   | 17.5   | 11.0    | 100.0 | 9,454             |
| Kampong Chhnang          | 35.5            | 25.6   | 17.9   | 11.2   | 9.9     | 100.0 | 2,574             |
| Kampong Speu             | 20.4            | 21.3   | 25.6   | 24.4   | 8.2     | 100.0 | 4,665             |
| Kampong Thom             | 35.9            | 27.5   | 15.3   | 12.7   | 8.8     | 100.0 | 3,632             |
| Kandal                   | 5.3             | 13.3   | 27.4   | 33.7   | 20.2    | 100.0 | 5,674             |
| Kratie                   | 43.0            | 21.5   | 14.7   | 15.0   | 5.8     | 100.0 | 2,160             |
| Phnom Penh               | 0.3             | 1.3    | 3.0    | 11.0   | 84.4    | 100.0 | 6,814             |
| Prey Veng                | 22.6            | 27.6   | 26.9   | 15.6   | 7.3     | 100.0 | 4,942             |
| Pursat                   | 34.2            | 29.6   | 16.0   | 15.5   | 4.7     | 100.0 | 2,839             |
| Siem Reap                | 30.9            | 25.3   | 15.8   | 11.6   | 16.4    | 100.0 | 4,811             |
| Svay Rieng               | 23.4            | 30.0   | 24.7   | 14.9   | 6.9     | 100.0 | 2,736             |
| Takeo                    | 8.5             | 21.4   | 27.2   | 34.3   | 8.6     | 100.0 | 4,475             |
| Otdar Meanchey           | 23.5            | 27.3   | 19.8   | 17.2   | 12.2    | 100.0 | 1,203             |
| Battambang/Pailin        | 9.1             | 13.6   | 20.8   | 29.4   | 27.1    | 100.0 | 5,623             |
| Kampot/Kep               | 23.2            | 28.5   | 23.6   | 17.2   | 7.5     | 100.0 | 3,220             |
| Preah Sihanouk/Koh Kong  | 8.0             | 9.3    | 11.0   | 28.3   | 43.5    | 100.0 | 1,622             |
| Preah Vihear/Stung Treng | 47.1            | 27.3   | 12.9   | 7.0    | 5.7     | 100.0 | 1,813             |
| Mondul Kiri/Ratanak Kiri | 30.8            | 26.1   | 11.4   | 13.5   | 18.1    | 100.0 | 1,567             |
| Total                    | 20.0            | 20.0   | 20.0   | 20.0   | 20.0    | 100.0 | 72,958            |

## 2.6 BIRTH REGISTRATION

The registration of births is the inscription of the facts of a birth into an official log. A birth certificate is issued as proof of the registration of the birth. Information on the registration of births was

collected in the household interview by asking whether children under age 5 had a birth certificate. If the interviewer was told that the child did not have a birth certificate, the interviewer probed further to ascertain whether the child's birth had been registered with the civil authority. Nearly two-thirds of children (64 percent) had a birth certificate, and the births of 73 percent of children under age 5 were registered. These figures are significantly higher than those found in the 2010 CDHS (51 percent and 62 percent, respectively). However, levels of registration varied greatly across the country, as shown in Table 2.12.

**Table 2.12 Birth registration of children under age 5**

Percentage of de jure children under age 5 whose births are registered with the civil authorities, according to background characteristics, Cambodia 2014

| Background characteristic | Children whose births are registered   |   |                       | Number of children |
|---------------------------|--|---|-----------------------|--------------------|
|                           | Percentage who had a birth certificate | Percentage who did not have a birth certificate | Percentage registered |                    |
| <b>Age</b>                |  |   |                       |                    |
| <2                        | 59.4                                   | 7.8   | 67.2                  | 3,125              |
| 2-4                       | 66.8                                   | 10.5  | 77.4                  | 4,680              |
| <b>Sex</b>                |  |   |                       |                    |
| Male                      | 64.8                                   | 8.9   | 73.7                  | 3,940              |
| Female                    | 62.9                                   | 10.0  | 72.9                  | 3,865              |
| <b>Residence</b>          |  |   |                       |                    |
| Urban                     | 75.5                                   | 8.8   | 84.4                  | 1,066              |
| Rural                     | 62.0                                   | 9.5   | 71.6                  | 6,739              |
| <b>Province</b>           |  |   |                       |                    |
| Banteay Meanchey          | 61.7                                   | 10.5  | 72.2                  | 372                |
| Kampong Cham              | 54.1                                   | 15.8  | 69.9                  | 1,086              |
| Kampong Chhnang           | 71.5                                   | 4.0   | 75.5                  | 263                |
| Kampong Speu              | 74.0                                   | 4.2   | 78.1                  | 478                |
| Kampong Thom              | 59.7                                   | 4.0   | 63.7                  | 364                |
| Kandal                    | 80.1                                   | 4.0   | 84.1                  | 530                |
| Kratie                    | 40.5                                   | 4.8   | 45.3                  | 271                |
| Phnom Penh                | 84.9                                   | 4.5   | 89.4                  | 607                |
| Prey Veng                 | 73.7                                   | 5.5   | 79.2                  | 592                |
| Pursat                    | 52.0                                   | 10.7  | 62.7                  | 313                |
| Siem Reap                 | 70.5                                   | 2.0   | 72.6                  | 536                |
| Svay Rieng                | 84.7                                   | 2.8   | 87.5                  | 297                |
| Takeo                     | 60.4                                   | 15.3  | 75.7                  | 408                |
| Otdar Meanchey            | 73.5                                   | 7.9   | 81.4                  | 140                |
| Battambang/Pailin         | 32.6                                   | 37.8  | 70.5                  | 613                |
| Kampot/Kep                | 75.8                                   | 1.1   | 76.9                  | 321                |
| Preah Sihanouk/Koh Kong   | 72.8                                   | 0.8   | 73.6                  | 170                |
| Preah Vihear/Stung Treng  | 62.8                                   | 3.7   | 66.5                  | 234                |
| Mondul Kiri/Ratanak Kiri  | 32.8                                   | 7.0   | 39.7                  | 211                |
| <b>Wealth quintile</b>    |  |   |                       |                    |
| Lowest                    | 52.5                                   | 6.7   | 59.1                  | 1,878              |
| Second                    | 60.7                                   | 8.8   | 69.6                  | 1,586              |
| Middle                    | 65.6                                   | 9.9   | 75.4                  | 1,554              |
| Fourth                    | 69.1                                   | 11.7  | 80.8                  | 1,347              |
| Highest                   | 75.5                                   | 11.1  | 86.6                  | 1,439              |
| <b>Total</b>              | <b>63.9</b>                            | <b>9.4</b>                                      | <b>73.3</b>           | <b>7,805</b>       |

## 2.7 CHILDREN'S LIVING ARRANGEMENTS, ORPHANHOOD, AND SCHOOL ATTENDANCE BY SURVIVORSHIP OF PARENTS

### 2.7.1 Children's Living Arrangements and Orphanhood

Because the family is the primary safety net for children, any strategy aimed at protecting children must place a high priority on strengthening the family's capacities to care for children. It is therefore essential to identify orphaned children and find out whether those who have one or both parents alive are living with either or both surviving parents. Table 2.13 presents these two types of information for children under age 18, according to background characteristics.

Table 2.13 Children's living arrangements and orphanhood

Percent distribution of de jure children under age 18 by living arrangements and survival status of parents, the percentage of children not living with a biological parent, and the percentage of children with one or both parents dead, according to background characteristics, Cambodia 2014

| Background characteristic   | Living with mother but not with father |              | Living with father but not with mother |              | Not living with either parent |            |                   |                   |           | Missing information on father/mother | Total | Percentage not living with a biological parent | Percentage with one or both parents dead <sup>1</sup> | Number of children |
|-----------------------------|--|--------------|--|--------------|-------------------------------|------------|-------------------|-------------------|-----------|--------------------------------------|-------|--|---|--------------------|
|                             | Living with both parents               | Father alive | Father dead                            | Mother alive | Mother dead                   | Both alive | Only father alive | Only mother alive | Both dead |                                      |       |  |   |                    |
| <b>Age</b>                  |  |              |  |              |                               |            |                   |                   |           |                                      |       |  |   |                    |
| 0-4                         | 82.8                                   | 6.4          | 0.9                                    | 0.6          | 0.1                           | 8.5        | 0.1               | 0.3               | 0.3       | 0.0                                  | 100.0 | 9.2  | 1.7   | 7,805              |
| <2                          | 85.9                                   | 7.2          | 0.7                                    | 0.3          | 0.0                           | 5.3        | 0.2               | 0.2               | 0.2       | 0.0                                  | 100.0 | 5.8  | 1.2   | 3,125              |
| 2-4                         | 80.7                                   | 5.9          | 1.1                                    | 0.8          | 0.1                           | 10.7       | 0.1               | 0.4               | 0.3       | 0.0                                  | 100.0 | 11.4   | 2.0   | 4,680              |
| 5-9                         | 78.3                                   | 5.3          | 2.2                                    | 1.1          | 0.6                           | 10.6       | 0.4               | 0.7               | 0.8       | 0.0                                  | 100.0 | 12.5   | 4.6   | 8,377              |
| 10-14                       | 76.1                                   | 5.5          | 4.6                                    | 1.2          | 0.9                           | 9.2        | 0.6               | 0.9               | 0.8       | 0.1                                  | 100.0 | 11.5   | 7.8   | 8,069              |
| 15-17                       | 72.3                                   | 5.8          | 7.2                                    | 1.3          | 1.9                           | 8.0        | 0.8               | 1.1               | 1.5       | 0.1                                  | 100.0 | 11.4   | 12.5  | 3,963              |
| <b>Sex</b>                  |  |              |  |              |                               |            |                   |                   |           |                                      |       |  |   |                    |
| Male                        | 77.9                                   | 5.9          | 3.4                                    | 1.0          | 0.7                           | 9.3        | 0.5               | 0.6               | 0.7       | 0.1                                  | 100.0 | 11.0   | 5.8   | 14,346             |
| Female                      | 78.2                                   | 5.5          | 3.1                                    | 1.1          | 0.8                           | 9.3        | 0.4               | 0.8               | 0.8       | 0.0                                  | 100.0 | 11.3   | 5.9   | 13,868             |
| <b>Residence</b>            |  |              |  |              |                               |            |                   |                   |           |                                      |       |  |   |                    |
| Urban                       | 75.1                                   | 7.2          | 2.6                                    | 1.5          | 0.7                           | 10.2       | 0.7               | 0.8               | 0.9       | 0.2                                  | 100.0 | 12.7   | 5.6   | 3,745              |
| Rural                       | 78.5                                   | 5.5          | 3.4                                    | 1.0          | 0.7                           | 9.1        | 0.4               | 0.7               | 0.7       | 0.0                                  | 100.0 | 10.9   | 5.9   | 24,470             |
| <b>Province</b>             |  |              |  |              |                               |            |                   |                   |           |                                      |       |  |   |                    |
| Banteay Meanchey            | 67.6                                   | 4.5          | 2.9                                    | 0.8          | 0.4                           | 23.2       | 0.3               | 0.1               | 0.2       | 0.0                                  | 100.0 | 23.8   | 3.8   | 1,251              |
| Kampong Cham                | 77.7                                   | 5.8          | 3.4                                    | 0.9          | 0.9                           | 9.0        | 0.2               | 0.8               | 1.2       | 0.1                                  | 100.0 | 11.2   | 6.6   | 3,723              |
| Kampong Chhnang             | 74.4                                   | 7.9          | 5.7                                    | 1.2          | 0.7                           | 9.0        | 0.3               | 0.4               | 0.4       | 0.0                                  | 100.0 | 10.1   | 7.4   | 1,014              |
| Kampong Speu                | 85.6                                   | 5.1          | 2.1                                    | 0.4          | 0.8                           | 5.5        | 0.1               | 0.2               | 0.2       | 0.0                                  | 100.0 | 6.0  | 3.4   | 1,832              |
| Kampong Thom                | 78.9                                   | 6.4          | 3.3                                    | 0.8          | 0.9                           | 8.1        | 0.4               | 0.3               | 0.8       | 0.0                                  | 100.0 | 9.7  | 5.7   | 1,514              |
| Kandal                      | 81.3                                   | 6.4          | 3.9                                    | 0.3          | 0.5                           | 6.3        | 0.2               | 0.5               | 0.7       | 0.0                                  | 100.0 | 7.6  | 5.7   | 2,047              |
| Kratie                      | 84.5                                   | 3.7          | 2.2                                    | 0.6          | 0.4                           | 6.0        | 1.7               | 0.5               | 0.4       | 0.0                                  | 100.0 | 8.6  | 5.1   | 885                |
| Phnom Penh                  | 77.3                                   | 7.0          | 2.2                                    | 1.3          | 0.8                           | 8.4        | 0.9               | 0.9               | 0.9       | 0.3                                  | 100.0 | 11.1   | 5.6   | 2,079              |
| Prey Veng                   | 66.9                                   | 10.0         | 3.3                                    | 1.4          | 0.8                           | 16.1       | 0.3               | 0.6               | 0.5       | 0.0                                  | 100.0 | 17.5   | 5.5   | 1,913              |
| Pursat                      | 81.9                                   | 3.6          | 4.0                                    | 1.7          | 0.2                           | 7.1        | 0.3               | 0.6               | 0.6       | 0.1                                  | 100.0 | 8.6  | 5.7   | 1,156              |
| Siem Reap                   | 80.0                                   | 5.1          | 4.3                                    | 0.6          | 1.0                           | 6.6        | 0.5               | 0.8               | 0.9       | 0.1                                  | 100.0 | 8.8  | 7.5   | 2,037              |
| Svay Rieng                  | 78.7                                   | 4.6          | 2.5                                    | 1.3          | 0.4                           | 10.5       | 0.2               | 0.7               | 1.0       | 0.0                                  | 100.0 | 12.5   | 4.9   | 976                |
| Takeo                       | 73.6                                   | 6.5          | 4.2                                    | 1.7          | 0.7                           | 9.5        | 0.1               | 2.3               | 1.3       | 0.0                                  | 100.0 | 13.2   | 8.6   | 1,678              |
| Otdar Meanchey              | 83.8                                   | 2.3          | 2.5                                    | 1.5          | 0.4                           | 7.1        | 0.5               | 0.4               | 1.5       | 0.1                                  | 100.0 | 9.4  | 5.3   | 515                |
| Battambang/Pailin           | 74.9                                   | 5.1          | 1.5                                    | 2.0          | 0.9                           | 13.2       | 0.7               | 0.9               | 0.7       | 0.2                                  | 100.0 | 15.5   | 4.7   | 2,243              |
| Kampot/Kep                  | 79.9                                   | 3.6          | 3.2                                    | 0.8          | 0.8                           | 9.9        | 0.8               | 0.7               | 0.4       | 0.0                                  | 100.0 | 11.7   | 5.9   | 1,246              |
| Preah Sihanouk/<br>Koh Kong | 81.5                                   | 5.8          | 1.9                                    | 1.9          | 0.8                           | 7.1        | 0.1               | 0.6               | 0.3       | 0.0                                  | 100.0 | 8.1  | 3.7   | 612                |
| Preah Vihear/Stung<br>Treng | 85.6                                   | 3.9          | 6.1                                    | 0.5          | 0.6                           | 2.3        | 0.3               | 0.1               | 0.5       | 0.0                                  | 100.0 | 3.2  | 7.6   | 808                |
| Mondul Kiri/Ratanak<br>Kiri | 86.2                                   | 4.5          | 3.4                                    | 0.5          | 0.6                           | 2.8        | 0.6               | 0.3               | 1.1       | 0.0                                  | 100.0 | 4.8  | 5.9   | 685                |
| <b>Wealth quintile</b>      |  |              |  |              |                               |            |                   |                   |           |                                      |       |  |   |                    |
| Lowest                      | 79.5                                   | 5.5          | 4.5                                    | 1.0          | 0.9                           | 7.0        | 0.3               | 0.6               | 0.8       | 0.0                                  | 100.0 | 8.7  | 7.0   | 6,616              |
| Second                      | 77.7                                   | 5.7          | 3.7                                    | 1.1          | 1.0                           | 8.9        | 0.5               | 0.5               | 0.8       | 0.0                                  | 100.0 | 10.8   | 6.5   | 6,023              |
| Middle                      | 77.4                                   | 6.1          | 2.6                                    | 1.2          | 0.5                           | 10.2       | 0.4               | 0.8               | 0.6       | 0.1                                  | 100.0 | 12.0   | 5.0   | 5,574              |
| Fourth                      | 77.2                                   | 5.5          | 3.0                                    | 0.7          | 0.5                           | 11.1       | 0.5               | 0.8               | 0.7       | 0.0                                  | 100.0 | 13.1   | 5.5   | 5,213              |
| Highest                     | 78.3                                   | 5.9          | 2.0                                    | 1.1          | 0.7                           | 9.7        | 0.4               | 0.8               | 0.8       | 0.2                                  | 100.0 | 11.8   | 4.7   | 4,788              |
| Total <15                   | 79.0                                   | 5.7          | 2.6                                    | 1.0          | 0.5                           | 9.5        | 0.4               | 0.6               | 0.6       | 0.1                                  | 100.0 | 11.1   | 4.7   | 24,252             |
| Total <18                   | 78.1                                   | 5.7          | 3.3                                    | 1.0          | 0.7                           | 9.3        | 0.4               | 0.7               | 0.7       | 0.1                                  | 100.0 | 11.1   | 5.8   | 28,215             |

Note: Table is based on de jure members, i.e., usual residents.

<sup>1</sup> Includes children with father dead, mother dead, both dead, and one parent dead but missing information on survival status of the other parent

The data show that 78 percent of Cambodian children under age 18 live with both of their parents. This proportion declines steadily with age, from a high of 86 percent among children under age 2 to a low of 72 percent among children age 15 to 17. There is little variation according to the child's sex. The proportion of children living with both of their parents is slightly higher in rural areas (79 percent) than in urban areas (75 percent). The lowest proportions of children living with both parents are in Prey Veng (67 percent) and Banteay Meanchey (68 percent). Nine percent of children under age 18 live with their mother only, whether their father is alive (6 percent) or deceased (3 percent), and 2 percent live with their father only. Eleven percent do not live with either parent.

Overall, 6 percent of children under age 18 have lost one or both parents: less than 1 percent have lost both parents, 5 percent have lost their father, and 2 percent have lost their mother. Because a parent's

risk of dying increases with time, the proportion of children who have lost their father and/or mother increases significantly with age, from 1 percent among children less than age 2 and 2 percent among children age 2 to 4 to 5 percent among children age 5 to 9. It increases further to 8 percent among children age 10 to 14 and 13 percent among children age 15 to 17.

## 2.7.2 School Attendance by Survivorship of Parents

Access to education is considered an “essential service” and is included among the key components of national responses to guarantee orphans access to services on an equal basis with other children.

To assess whether orphans are educationally disadvantaged in relation to other children, an indicator was devised to compare school attendance among orphans and non-orphans. The results are presented in Table 2.14 for children age 10 to 14, the age group in which school attendance is generally assumed for all children.

The data show a clear relationship between parent survivorship and school attendance of children age 10 to 14. According to the 2014 CDHS, 89 percent of children whose parents are both alive and who are living with one or both of their parents attend school, as compared with only 78 percent of children who have lost both parents. The ratio of school attendance for orphaned and non-orphaned children is less than 1 (0.88), indicating an educational disadvantage for orphans.

**Table 2.14 School attendance by survivorship of parents**

For de jure children 10-14 years of age, the percentage attending school by parental survival and the ratio of the percentage attending, by parental survival, according to background characteristics, Cambodia 2014

| Background characteristic | Percentage attending school by survivorship of parents |           |  |              |                    |
|---------------------------|--|-----------|--|--------------|--------------------|
|                           | Both parents deceased                                  | Number    | Both parents alive and living with at least one parent | Number       | Ratio <sup>1</sup> |
| <b>Sex</b>                |  |           |  |              |                    |
| Male                      | (65.0)   | 24        | 88.4   | 3,360        | 0.74               |
| Female                    | (86.0)   | 39        | 89.1   | 3,323        | 0.97               |
| <b>Residence</b>          |  |           |  |              |                    |
| Urban                     | (89.9)   | 8         | 93.4   | 842          | 0.96               |
| Rural                     | (76.2)   | 55        | 88.1   | 5,841        | 0.86               |
| <b>Province</b>           |  |           |  |              |                    |
| Banteay Meanchey          | *  | 0         | 85.4   | 248          | 1.17               |
| Kampong Cham              | *  | 2         | 91.0   | 882          | 1.10               |
| Kampong Chhnang           | *  | 3         | 93.5   | 240          | 1.07               |
| Kampong Speu              | *  | 3         | 86.7   | 504          | 1.15               |
| Kampong Thom              | *  | 5         | 84.7   | 375          | 0.72               |
| Kandal                    | *  | 6         | 83.4   | 475          | 0.35               |
| Kratie                    | *  | 2         | 89.6   | 202          | 1.12               |
| Phnom Penh                | *  | 2         | 94.2   | 452          | 1.06               |
| Prey Veng                 | *  | 5         | 93.1   | 414          | 0.37               |
| Pursat                    | *  | 2         | 86.2   | 298          | 1.10               |
| Siem Reap                 | *  | 6         | 81.5   | 479          | 1.23               |
| Svay Rieng                | *  | 1         | 93.2   | 246          | 1.07               |
| Takeo                     | *  | 6         | 95.2   | 386          | 0.82               |
| Otdar Meanchey            | *  | 4         | 86.1   | 125          | 0.85               |
| Battambang/Pailin         | *  | 8         | 90.0   | 489          | 1.11               |
| Kampot/Kep                | *  | 3         | 90.8   | 326          | 0.73               |
| Preah Sihanouk/Koh Kong   | *  | 1         | 92.0   | 157          | 0.88               |
| Preah Vihear/Stung Treng  | *  | 1         | 84.3   | 196          | 1.19               |
| Mondul Kiri/Ratanak Kiri  | *  | 2         | 80.5   | 189          | 1.02               |
| <b>Wealth quintile</b>    |  |           |  |              |                    |
| Lowest                    | *  | 18        | 81.0   | 1,626        | 0.81               |
| Second                    | *  | 14        | 86.7   | 1,446        | 0.79               |
| Middle                    | *  | 10        | 89.9   | 1,339        | 0.83               |
| Fourth                    | *  | 11        | 93.9   | 1,249        | 1.04               |
| Highest                   | *  | 10        | 96.1   | 1,023        | 0.99               |
| <b>Total</b>              | <b>78.0</b>  | <b>63</b> | <b>88.7</b>  | <b>6,683</b> | <b>0.88</b>        |

Note: Table is based only on children who usually live in the household.

<sup>1</sup> Ratio of the percentage with both parents deceased to the percentage with both parents alive and living with a parent





## Key Findings

- Two percent of household members were injured or killed in an accident in the years before the survey.
- Seven in 10 injuries or deaths are attributed to road accidents.
- Thirteen percent of household members had an illness or injury in the month before the survey. Among them 95 percent sought a first treatment, 22 percent a second treatment, and 7 percent a third treatment.

In 1998, the Ministry of Health was beginning to implement a redesigned health coverage plan created to improve the accessibility and quality of government health services. The major aim of the new health care plan was to create a network of health centers throughout the country delivering the “Minimum Package of Activities” services. The data collected in the 1998 National Health Survey provided a baseline of health conditions in the country before implementation of the new health coverage plan. The CDHS surveys implemented in 2000, 2005, and 2010 assessed progress every five years under the coverage plan, and the 2014 CDHS provides updated progress on those health conditions.

Utilization of health services was assessed in the Household Questionnaire. The questions were asked to all households in the sample. First, information was collected to assess the prevalence of injuries and deaths due to accidents in the past year. Second, the respondent was asked whether any household members suffered from any physical impairment. Third, the respondent was asked about the severity of illness or injury and the subsequent utilization of health services among all members of the household who had been ill or injured in the 30 days preceding the interview.

## 3.1 ACCIDENTAL DEATH OR INJURY

All households reported on whether any household member had suffered accidental injury or death in the 12 months preceding the household interview. If anyone had been injured, the cause of the injury was recorded. The respondent to the Household Questionnaire was further asked whether the accident victim was alive or dead and, if dead, whether the death was the result of the reported accident. The questions were designed in this order to definitively assess the cause of injury and, if a death was noted, the cause of death.

### 3.1.1 Frequency of Accidental Death or Injury

Accidental injuries and deaths in Cambodia were not common (Table 3.1). Two percent of the population had suffered an injury or death by accident in the past 12 months. Accidental injuries were much more common than accidental deaths; for every 1,000 people in the population, 17 suffered an injury and 1 suffered an accidental death.

The percentage of the population injured in the past 12 months increased with age from 0.7 percent among children age 0-9 to a peak of 2.6 percent among adults age 20-39. The percentage experiencing accidental injury decreased thereafter, to 1.7 percent among adults age 40-59 and 1.5 percent among those age 60 and above.

Males were more than twice as likely as females to be injured in an accident. Overall, 2.4 percent of males had been injured in an accident in the past 12 months, as compared with 1.1 percent of females.

Although there were no differences in accidental injuries by urban-rural residence, there were differences across provinces. The highest percentage of accidental injury was reported in Kratie, with 3.3 percent of the household population experiencing an injury in the preceding 12 months. The lowest rates of accidental injury were in Preah Vihear/Stung Treng (0.2 percent) and Otdar Meanchey (0.8 percent). The percentage of accidental death ranged from 0.0 to 0.2 percent across provinces.

**Table 3.1 Injury or death in an accident**

Percentage of the de jure household population injured or killed in an accident in the past 12 months, according to background characteristics, Cambodia 2014

| Background characteristic | Result of accident |            | Total injured or killed | Total number of de jure household members |
|---------------------------|--------------------|------------|-------------------------|---|
|                           | Injured            | Killed     |                         |   |
| <b>Age</b>                |                    |            |                         |   |
| 0-9                       | 0.7                | 0.2        | 0.9                     | 16,182                                    |
| 10-19                     | 1.6                | 0.1        | 1.6                     | 14,576                                    |
| 20-39                     | 2.6                | 0.0        | 2.6                     | 22,161                                    |
| 40-59                     | 1.7                | 0.0        | 1.7                     | 13,959                                    |
| 60+                       | 1.5                | 0.0        | 1.6                     | 6,079                                     |
| <b>Sex</b>                |                    |            |                         |   |
| Male                      | 2.4                | 0.0        | 2.5                     | 35,336                                    |
| Female                    | 1.1                | 0.1        | 1.1                     | 37,622                                    |
| <b>Residence</b>          |                    |            |                         |   |
| Urban                     | 1.7                | 0.0        | 1.7                     | 11,469                                    |
| Rural                     | 1.7                | 0.1        | 1.8                     | 61,489                                    |
| <b>Province</b>           |                    |            |                         |   |
| Banteay Meanchey          | 1.4                | 0.1        | 1.5                     | 3,134                                     |
| Kampong Cham              | 2.1                | 0.0        | 2.1                     | 9,454                                     |
| Kampong Chhnang           | 2.9                | 0.1        | 3.0                     | 2,574                                     |
| Kampong Speu              | 1.4                | 0.1        | 1.5                     | 4,665                                     |
| Kampong Thom              | 1.4                | 0.0        | 1.4                     | 3,632                                     |
| Kandal                    | 2.1                | 0.0        | 2.1                     | 5,674                                     |
| Kratie                    | 3.3                | 0.0        | 3.3                     | 2,160                                     |
| Phnom Penh                | 1.7                | 0.0        | 1.7                     | 6,814                                     |
| Prey Veng                 | 1.1                | 0.1        | 1.2                     | 4,942                                     |
| Pursat                    | 1.1                | 0.1        | 1.2                     | 2,839                                     |
| Siem Reap                 | 1.6                | 0.0        | 1.7                     | 4,811                                     |
| Svay Rieng                | 1.4                | 0.1        | 1.5                     | 2,736                                     |
| Takeo                     | 1.6                | 0.1        | 1.7                     | 4,475                                     |
| Otdar Meanchey            | 0.8                | 0.0        | 0.8                     | 1,203                                     |
| Battambang/Pailin         | 2.1                | 0.1        | 2.2                     | 5,623                                     |
| Kampot/Kep                | 1.7                | 0.1        | 1.8                     | 3,220                                     |
| Preah Sihanouk/Koh Kong   | 2.3                | 0.0        | 2.3                     | 1,622                                     |
| Preah Vihear/Stung Treng  | 0.2                | 0.0        | 0.3                     | 1,813                                     |
| Mondul Kiri/Ratanak Kiri  | 1.6                | 0.2        | 1.8                     | 1,567                                     |
| <b>Total</b>              | <b>1.7</b>         | <b>0.1</b> | <b>1.8</b>              | <b>72,958</b>                             |

### 3.1.2 Type of Accident

Table 3.2 presents data on accidental injury by type of accident, according to the background characteristics of age, sex, residence, and province. Data on accidental deaths are also included, but these data are not available by age and sex.

Road accidents accounted for the greatest proportion of accidental injuries and deaths. More than 7 of 10 people who had been injured or killed in the previous 12 months were injured as a result of a road accident. Nine percent of injuries/deaths were the result of a fall, and 5 percent were the result of a snake or animal bite. Two percent of injuries/deaths resulted from violence. One percent of injuries/deaths were the result of burning, while less than 1 percent each were the result of a gunshot, drowning, and poisoning. Nine percent of injuries/deaths were due to other or unknown causes.

Table 3.2 Injury or death in an accident by type of accident

Percentage of the de jure household population injured or killed in an accident in the past 12 months by type of accident, according to age and sex, Cambodia 2014

| Background characteristic | Type of accident |               |                |                   |                         |                       |                      |          |       | Don't know/missing | Total   | Number of persons injured |
|---------------------------|------------------|---------------|----------------|-------------------|-------------------------|-----------------------|----------------------|----------|-------|--------------------|---------|---------------------------|
|                           | Gunshot          | Road accident | Severe burning | Snake/animal bite | Fall from tree/building | Drowning <sup>1</sup> | Poisoning (chemical) | Violence | Other |                    |         |                           |
| INJURED                   |                  |               |                |                   |                         |                       |                      |          |       |                    |         |                           |
| Age                       |                  |               |                |                   |                         |                       |                      |          |       |                    |         |                           |
| 0-9                       | 0.0              | 48.7          | 2.0            | 13.5              | 22.5                    | 0.0                   | 0.0                  | 1.5      | 6.6   | 5.1                | 100.0   | 121                       |
| 10-19                     | 0.0              | 67.8          | 2.0            | 5.1               | 9.2                     | 0.0                   | 0.0                  | 3.7      | 12.1  | 0.0                | 100.0   | 230                       |
| 20-39                     | 0.7              | 79.4          | 1.1            | 3.3               | 6.1                     | 0.0                   | 0.4                  | 2.7      | 6.3   | 0.0                | 100.0   | 581                       |
| 40-59                     | 0.1              | 73.1          | 0.9            | 4.5               | 11.1                    | 0.0                   | 0.6                  | 1.6      | 8.2   | 0.0                | 100.0   | 243                       |
| 60+                       | 0.0              | 60.3          | 0.0            | 6.4               | 13.1                    | 0.0                   | 0.0                  | 1.1      | 17.6  | 1.4                | 100.0   | 92                        |
| Sex                       |                  |               |                |                   |                         |                       |                      |          |       |                    |         |                           |
| Male                      | 0.5              | 74.1          | 0.2            | 4.9               | 8.6                     | 0.0                   | 0.3                  | 3.0      | 8.2   | 0.3                | 100.0   | 864                       |
| Female                    | 0.0              | 66.8          | 3.5            | 5.6               | 12.0                    | 0.0                   | 0.3                  | 1.3      | 9.3   | 1.3                | 100.0   | 402                       |
| Total                     | 0.3              | 71.8          | 1.2            | 5.1               | 9.7                     | 0.0                   | 0.3                  | 2.4      | 8.6   | 0.6                | 100.0   | 1,267                     |
| INJURED OR KILLED         |                  |               |                |                   |                         |                       |                      |          |       |                    |         |                           |
| Residence                 |                  |               |                |                   |                         |                       |                      |          |       |                    |         |                           |
| Urban                     | 1.5              | 81.8          | 0.6            | 2.0               | 5.5                     | 0.0                   | 0.1                  | 3.1      | 4.8   | 0.5                | 100.0   | 197                       |
| Rural                     | 0.3              | 69.6          | 1.3            | 5.5               | 10.1                    | 0.9                   | 0.3                  | 2.3      | 9.2   | 0.6                | 100.0   | 1,109                     |
| Province                  |                  |               |                |                   |                         |                       |                      |          |       |                    |         |                           |
| Banteay Meanchey          | 0.0              | 62.5          | 9.5            | 4.0               | 14.4                    | 0.0                   | 0.0                  | 0.0      | 9.6   | 0.0                | 100.0   | 47                        |
| Kampong Cham              | 0.0              | 67.3          | 1.8            | 6.6               | 14.4                    | 0.0                   | 0.0                  | 0.0      | 8.0   | 1.9                | 100.0   | 199                       |
| Kampong Chhnang           | 0.0              | 64.8          | 0.0            | 2.7               | 15.4                    | 1.1                   | 0.0                  | 3.4      | 12.6  | 0.0                | 100.0   | 78                        |
| Kampong Speu              | 0.0              | 90.4          | 0.0            | 0.0               | 4.2                     | 0.0                   | 0.0                  | 0.0      | 5.4   | 0.0                | 100.0   | 69                        |
| Kampong Thom              | 0.4              | 63.7          | 2.9            | 7.0               | 14.6                    | 2.3                   | 0.0                  | 2.4      | 4.5   | 2.2                | 100.0   | 53                        |
| Kandal                    | 0.0              | 71.1          | 1.5            | 2.2               | 6.2                     | 0.0                   | 0.0                  | 5.2      | 13.8  | 0.0                | 100.0   | 120                       |
| Kratie                    | 0.0              | 56.4          | 0.8            | 10.7              | 15.5                    | 0.0                   | 4.4                  | 0.9      | 11.4  | 0.0                | 100.0   | 72                        |
| Phnom Penh                | 2.3              | 84.5          | 0.8            | 3.5               | 2.8                     | 0.0                   | 0.0                  | 2.0      | 4.1   | 0.0                | 100.0   | 115                       |
| Prey Veng                 | (5.2)            | (71.9)        | (0.0)          | (3.0)             | (8.2)                   | (5.5)                 | (0.0)                | (2.6)    | (3.5) | (0.0)              | (100.0) | 60                        |
| Pursat                    | (0.0)            | (59.9)        | (0.0)          | (6.8)             | (19.1)                  | (8.6)                 | (0.0)                | (0.5)    | (5.0) | (0.0)              | (100.0) | 34                        |
| Siem Reap                 | 0.0              | 81.1          | 0.0            | 0.0               | 8.2                     | 0.0                   | 0.0                  | 5.9      | 4.9   | 0.0                | 100.0   | 81                        |
| Svay Rieng                | 0.0              | 75.8          | 3.8            | 0.0               | 12.7                    | 0.0                   | 0.0                  | 0.0      | 7.8   | 0.0                | 100.0   | 41                        |
| Takeo                     | 0.0              | 68.9          | 1.7            | 5.4               | 6.7                     | 2.0                   | 0.0                  | 1.8      | 11.9  | 1.7                | 100.0   | 76                        |
| Otdar Meanchey            | (0.0)            | (89.0)        | (0.0)          | (0.0)             | (6.6)                   | (0.0)                 | (0.0)                | (4.4)    | (0.0) | (0.0)              | (100.0) | 10                        |
| Battambang/Pailin         | 0.0              | 80.4          | 0.0            | 2.9               | 5.5                     | 0.0                   | 0.0                  | 4.1      | 7.0   | 0.0                | 100.0   | 123                       |
| Kampot/Kep                | 0.0              | 56.0          | 0.0            | 17.2              | 6.5                     | 0.0                   | 0.5                  | 3.9      | 13.9  | 2.1                | 100.0   | 57                        |
| Preah Sihanouk/Koh Kong   | 0.0              | 67.1          | 0.0            | 4.0               | 8.2                     | 0.0                   | 0.0                  | 6.5      | 14.1  | 0.0                | 100.0   | 38                        |
| Preah Vihear/Stung Treng  | *                | *             | *              | *                 | *                       | *                     | *                    | *        | *     | *                  | *       | 5                         |
| Mondul Kiri/Ratanak Kiri  | 0.0              | 63.8          | 0.0            | 20.5              | 2.2                     | 2.1                   | 0.0                  | 0.8      | 10.5  | 0.0                | 100.0   | 28                        |
| Total                     | 0.5              | 71.4          | 1.2            | 4.9               | 9.4                     | 0.8                   | 0.3                  | 2.4      | 8.5   | 0.6                | 100.0   | 1,306                     |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup>All drowning cases reported were deceased

Cause of injury varied by age, but road accidents were the most commonly cited source of injury for people of all ages, especially those age 20-39. After road accidents, animal/snake bites and falls from trees/buildings were the most common causes of injuries among children age 0-9, accounting for 14 percent and 23 percent of injuries, respectively. Gunshots accounted for a higher percentage of injuries among people age 20-39 than for any other age group. Severe burning accounted for a higher percentage among children and young adults less than age 20 than among other age groups. Violence as a cause of injury was most common among people age 10-39. There were significant differences in accidental injuries in the preceding 12 months by sex. While males were more likely than females to be injured in road accidents (74 percent versus 67 percent), females were more likely to be injured from severe burning and falls than males.

There were other significant differences in accidental injuries/deaths in the preceding 12 months by urban-rural residence and province. Not surprisingly, road accidents accounted for a higher percentage of injuries/deaths in urban areas (82 percent) than in rural areas (70 percent). Falls accounted for a higher proportion of accidental injuries or deaths in rural areas than in urban areas (10 percent versus 6 percent). The distribution of causes of injuries/deaths by province should be analyzed with caution because sample sizes were small in some provinces.

### 3.2 PREVALENCE AND SEVERITY OF ILLNESS OR INJURY

All households were asked whether any members had been sick or injured at any time in the 30 days before the interview. If any members had been sick, their names were recorded to ask specifically about their conditions in the questions that followed. The Household Questionnaire allotted space for information to be recorded for up to three household members. Interviewers were instructed to use extra questionnaires to record the information on all household members who were ill or injured. The respondent was asked to judge the illness or injury as slight, moderate, or serious. Finally, questions were asked as to whether ill or injured household members sought care, where they sought care, how much they spent on transport, and how much they spent on treatment. These questions were repeated to collect information on patterns of health care-seeking behavior. For example, a man might first seek treatment from a Kru Khmer traditional healer but later visit a health clinic if the illness continued. Up to three care-seeking attempts were recorded on the questionnaire for each ill or injured person.

Thirteen percent of household members had been ill in the 30 days prior to the interview (Table 3.3). However, this percentage may underrepresent the actual prevalence of morbidity and injury for two reasons. The questions were asked only about living household members at the time of the interview. Therefore, the recorded episodes of illness and injury excluded any cases that ended in the death of a household member in the 30 days prior to the interview. Furthermore, the responses were based on the 30-day recall of one respondent in the household. That respondent might not have been aware of all of the illnesses or injuries that had occurred within the household. It is likely that illnesses or injuries that occurred at the beginning of the 30-day period or that were of mild severity were forgotten and not reported.

Table 3.3 Prevalence and severity of illness or injury in previous 30 days

Percent distribution of the de jure household population ill or injured in the previous 30 days by severity of illness or injury, according to background characteristics, Cambodia 2014

| Background characteristics | Severity of illness or injury |            |            |            | Any illness or injury | Number of persons |
|----------------------------|-------------------------------|------------|------------|------------|-----------------------|-------------------|
|                            | Not ill or injured            | Slight     | Moderate   | Serious    |                       |                   |
| <b>Age</b>                 |                               |            |            |            |                       |                   |
| 0-9                        | 83.1                          | 10.1       | 5.7        | 1.2        | 16.9                  | 16,182            |
| 10-19                      | 93.7                          | 3.0        | 2.6        | 0.6        | 6.3                   | 14,576            |
| 20-39                      | 90.6                          | 3.9        | 4.6        | 0.9        | 9.4                   | 22,161            |
| 40-59                      | 82.7                          | 6.2        | 9.3        | 1.8        | 17.3                  | 13,959            |
| 60+                        | 75.5                          | 7.5        | 13.4       | 3.6        | 24.5                  | 6,079             |
| <b>Sex</b>                 |                               |            |            |            |                       |                   |
| Male                       | 88.8                          | 5.1        | 4.8        | 1.3        | 11.2                  | 35,336            |
| Female                     | 84.9                          | 6.5        | 7.3        | 1.3        | 15.1                  | 37,622            |
| <b>Residence</b>           |                               |            |            |            |                       |                   |
| Urban                      | 84.7                          | 9.1        | 5.2        | 0.9        | 15.3                  | 11,469            |
| Rural                      | 87.1                          | 5.2        | 6.3        | 1.4        | 12.9                  | 61,489            |
| <b>Province</b>            |                               |            |            |            |                       |                   |
| Banteay Meanchey           | 87.8                          | 4.3        | 6.0        | 1.8        | 12.2                  | 3,134             |
| Kampong Cham               | 86.3                          | 6.2        | 6.1        | 1.4        | 13.7                  | 9,454             |
| Kampong Chhnang            | 82.0                          | 5.8        | 10.7       | 1.5        | 18.0                  | 2,574             |
| Kampong Speu               | 85.9                          | 7.2        | 5.9        | 0.9        | 14.1                  | 4,665             |
| Kampong Thom               | 87.7                          | 5.9        | 5.3        | 1.1        | 12.3                  | 3,632             |
| Kandal                     | 87.3                          | 4.1        | 7.2        | 1.3        | 12.7                  | 5,674             |
| Kratie                     | 82.7                          | 6.6        | 9.0        | 1.6        | 17.3                  | 2,160             |
| Phnom Penh                 | 76.8                          | 15.8       | 6.8        | 0.6        | 23.2                  | 6,814             |
| Prey Veng                  | 92.1                          | 1.8        | 5.0        | 1.1        | 7.9                   | 4,942             |
| Pursat                     | 93.7                          | 2.3        | 2.8        | 1.2        | 6.3                   | 2,839             |
| Siem Reap                  | 90.9                          | 2.9        | 5.1        | 1.1        | 9.1                   | 4,811             |
| Svay Rieng                 | 83.2                          | 7.6        | 7.6        | 1.6        | 16.8                  | 2,736             |
| Takeo                      | 91.3                          | 1.9        | 4.6        | 2.2        | 8.7                   | 4,475             |
| Otdar Meanchey             | 89.9                          | 4.2        | 5.2        | 0.7        | 10.1                  | 1,203             |
| Battambang/Pailin          | 86.7                          | 6.6        | 5.1        | 1.5        | 13.3                  | 5,623             |
| Kampot/Kep                 | 86.9                          | 3.0        | 9.0        | 1.1        | 13.1                  | 3,220             |
| Preah Sihanouk/Koh Kong    | 88.3                          | 5.5        | 5.0        | 1.2        | 11.7                  | 1,622             |
| Preah Vihear/Stung Treng   | 85.0                          | 5.7        | 7.1        | 2.0        | 15.0                  | 1,813             |
| Mondul Kiri/Ratanak Kiri   | 91.9                          | 4.8        | 2.0        | 1.3        | 8.1                   | 1,567             |
| <b>Total</b>               | <b>86.8</b>                   | <b>5.8</b> | <b>6.1</b> | <b>1.3</b> | <b>13.2</b>           | <b>72,958</b>     |

The majority (90 percent) of all illnesses or injuries were slight or moderate in severity. Only 1.3 percent of household members experienced a serious illness or injury. The highest percentage of illness or injury was found among persons age 60 and older; 25 percent had an illness or injury. Females and urban residents suffered slightly more illnesses and injuries than males and rural residents. The highest percentages of illness or injury were found in Phnom Penh (23 percent), Kampong Chhnang (18 percent), and Kratie and Svay Rieng (17 percent each).

### 3.3 TREATMENT SOUGHT FOR ILLNESS OR INJURY

Table 3.4 presents the percentage of ill or injured household members who sought treatment according to the number of times they did so. The type of treatment recorded included, but was not limited to, care provided by medically trained professionals. For example, if a sick child was first given a remedy by a Kru Khmer traditional healer, this was recorded as the first treatment. If the parents later observed that the child was still ill and went to a shop in the market for medicine, this was recorded as the second treatment. If the medicine was not effective and the parents took the child to a doctor at a private clinic, this was recorded as the third treatment.

**Table 3.4 Percentage of ill or injured population who sought treatment**

Percentage of de jure household members ill or injured in the past 30 days who sought a first, second, and third treatment, according to background characteristics, Cambodia 2014

| Background characteristics                       | Treatment for illness or injury |                  |                 | Number of ill/injured population |
|--|---------------------------------|------------------|-----------------|----------------------------------|
|  | First treatment                 | Second treatment | Third treatment |                                  |
| <b>Severity of illness or injury<sup>1</sup></b> |                                 |                  |                 |                                  |
| Slight   | 93.2                            | 17.8             | 5.2             | 4,249                            |
| Moderate   | 96.3                            | 23.5             | 7.7             | 4,442                            |
| Serious  | 98.4                            | 36.1             | 12.6            | 956                              |
| <b>Age</b>                                       |                                 |                  |                 |                                  |
| 0-9  | 97.1                            | 21.8             | 6.1             | 2,742                            |
| 10-19  | 97.0                            | 18.5             | 5.2             | 912                              |
| 20-39  | 95.0                            | 24.1             | 7.2             | 2,094                            |
| 40-59  | 93.6                            | 22.9             | 8.6             | 2,416                            |
| 60+  | 93.1                            | 21.4             | 7.4             | 1,492                            |
| <b>Sex</b>                                       |                                 |                  |                 |                                  |
| Male   | 95.6                            | 22.3             | 6.8             | 3,973                            |
| Female   | 94.8                            | 22.1             | 7.3             | 5,683                            |
| <b>Residence</b>                                 |                                 |                  |                 |                                  |
| Urban  | 96.1                            | 28.5             | 11.5            | 1,755                            |
| Rural  | 94.9                            | 20.8             | 6.1             | 7,902                            |
| <b>Province</b>                                  |                                 |                  |                 |                                  |
| Banteay Meanchey                                 | 96.1                            | 16.8             | 4.9             | 381                              |
| Kampong Cham                                     | 93.0                            | 17.3             | 5.8             | 1,296                            |
| Kampong Chhnang                                  | 99.2                            | 26.9             | 5.1             | 464                              |
| Kampong Speu                                     | 96.7                            | 7.5              | 2.0             | 657                              |
| Kampong Thom                                     | 96.2                            | 9.5              | 1.5             | 448                              |
| Kandal   | 95.6                            | 31.6             | 11.5            | 718                              |
| Kratie   | 94.5                            | 9.2              | 1.1             | 373                              |
| Phnom Penh                                       | 96.8                            | 37.9             | 16.3            | 1,582                            |
| Prey Veng  | 98.3                            | 40.4             | 16.2            | 390                              |
| Pursat   | 91.1                            | 12.3             | 0.0             | 180                              |
| Siem Reap  | 96.5                            | 23.8             | 6.2             | 440                              |
| Svay Rieng                                       | 95.7                            | 18.9             | 3.4             | 460                              |
| Takeo  | 94.3                            | 28.0             | 10.9            | 389                              |
| Otdar Meanchey                                   | 87.8                            | 16.6             | 1.0             | 121                              |
| Battambang/Pailin                                | 91.2                            | 15.0             | 3.2             | 748                              |
| Kampot/Kep                                       | 96.5                            | 16.6             | 3.5             | 420                              |
| Preah Sihanouk/Koh Kong                          | 97.2                            | 17.1             | 3.8             | 189                              |
| Preah Vihear/Stung Treng                         | 92.2                            | 16.4             | 1.5             | 273                              |
| Mondul Kiri/Ratanak Kiri                         | 86.1                            | 13.7             | 3.2             | 126                              |
| <b>Total</b>                                     | <b>95.1</b>                     | <b>22.2</b>      | <b>7.1</b>      | <b>9,656</b>                     |

<sup>1</sup> Includes 10 cases of don't know or missing severity of illness or injury

Ninety-five percent of household members who were ill sought at least one treatment (Table 3.4), a slight increase from the 2010 CDHS. Twenty-two percent of those ill or injured sought at least two treatments, and 7 percent sought at least three treatments. In general, there was a positive relationship between the severity of illness or injury and the number of times treatment was sought. Persons with serious illnesses or injuries were more likely to seek treatment than those with moderate illnesses or injuries. These latter individuals in turn were more likely to seek treatment than those with slight illnesses or injuries. Ninety-three percent of those with a slight illness, 96 percent of those with a moderate illness, and 98 percent of those with a serious illness or injury sought a first treatment. The corresponding percentages among those who sought a second treatment were 18 percent, 24 percent, and 36 percent. Five percent of those with slight illnesses or injuries were treated three times or more, as compared with 13 percent of those with serious illnesses or injuries. There were small differences in health-seeking behavior by sex and age. Urban residents were twice as likely to seek a third treatment as rural residents (12 percent versus 6 percent).

The provinces with the highest percentages of ill or injured persons seeking treatment were Kampong Chhnang (99 percent) and Prey Veng (98 percent), whereas the province with the lowest percentage was Mondul Kiri/Ratanak Kiri (86 percent).

### **3.4 UTILIZATION OF HEALTH CARE FACILITIES**

Information on the location of health care providers was collected to determine where persons who were ill or injured went for treatment. Health care providers were distinguished by public sector, private sector, and non-medical sector. Interviewers were provided with descriptions of the different types of hospitals, clinics, pharmacies, and other health venues. If, during data collection, the interviewer had difficulties distinguishing among the various types, the team supervisor or field editor ascertained the correct designation from local sources.

Table 3.5 presents data on utilization of health services by type of residence (urban-rural). Small differences in patterns of health care use can be observed, with the private sector in general used most often, followed by the public sector and then the non-medical sector.

Within the public sector, health centers were most often visited for treatment of illnesses and injuries in rural areas (13 percent), whereas national hospitals were the most common source for treatment in urban areas (7 percent). Within the private sector, private pharmacies were most often visited for treatment in urban areas (41 percent), and private clinics were the most common source in rural areas (17 percent). Private pharmacies were much more likely to be visited for first treatment in urban areas than in rural areas (41 percent versus 13 percent), whereas trained health workers and nurses were more commonly sought out for first-time treatment in rural areas than in urban areas (29 percent versus 10 percent). Within the non-medical sector, shops or markets were the overwhelming choice as a source of health care.

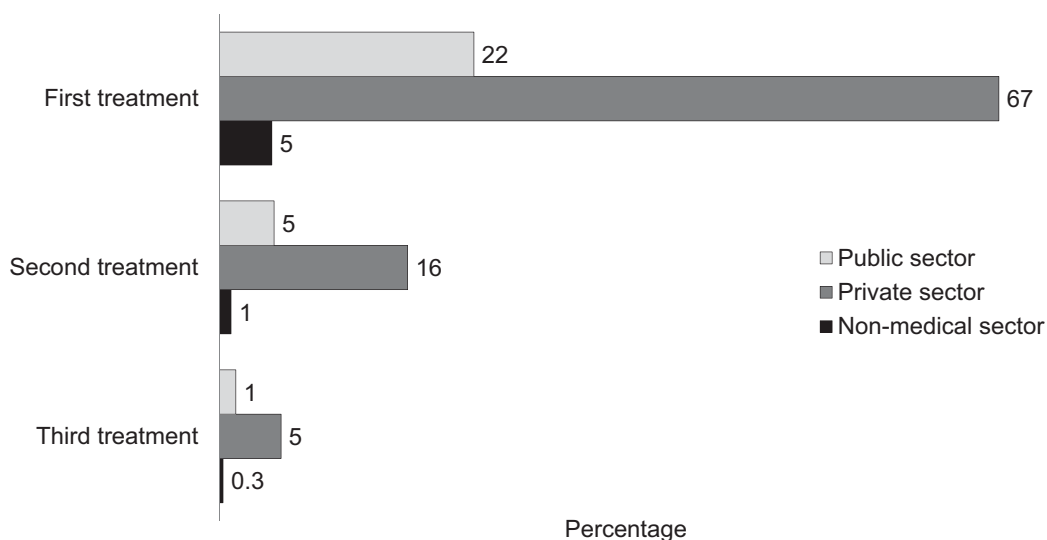
Table 3.5 Percentage of ill or injured population who sought treatment

Percent distribution of de jure household members who were ill or injured in the past 30 days by place of treatment, according to urban-rural residence, Cambodia 2014

| Place of treatment                         | Residence       |                  |                 |                 |                  |                 | Total           |                  |                 |
|--|-----------------|------------------|-----------------|-----------------|------------------|-----------------|-----------------|------------------|-----------------|
|  | Urban           |                  |                 | Rural           |                  |                 | First treatment | Second treatment | Third treatment |
|  | First treatment | Second treatment | Third treatment | First treatment | Second treatment | Third treatment |                 |                  |                 |
| <b>Did not seek treatment</b>              | <b>3.9</b>      | <b>71.5</b>      | <b>88.5</b>     | <b>5.1</b>      | <b>79.2</b>      | <b>93.9</b>     | <b>4.9</b>      | <b>77.8</b>      | <b>92.9</b>     |
| <b>Public sector</b>                       | <b>14.9</b>     | <b>4.0</b>       | <b>1.3</b>      | <b>23.5</b>     | <b>4.8</b>       | <b>1.4</b>      | <b>21.9</b>     | <b>4.7</b>       | <b>1.4</b>      |
| National hospital (PP)                     | 6.5             | 2.2              | 0.9             | 3.6             | 1.0              | 0.5             | 4.2             | 1.2              | 0.5             |
| Provincial hospital (RH)                   | 2.2             | 0.2              | 0.1             | 3.1             | 0.6              | 0.1             | 3.0             | 0.5              | 0.1             |
| District hospital (RH)                     | 0.5             | 0.4              | 0.0             | 2.9             | 0.7              | 0.3             | 2.5             | 0.7              | 0.2             |
| Health center                              | 5.0             | 1.1              | 0.4             | 12.8            | 2.2              | 0.5             | 11.4            | 2.0              | 0.4             |
| Health post                                | 0.0             | 0.0              | 0.0             | 0.2             | 0.0              | 0.0             | 0.2             | 0.0              | 0.0             |
| Outreach                                   | 0.0             | 0.0              | 0.0             | 0.0             | 0.0              | 0.0             | 0.0             | 0.0              | 0.0             |
| Other public                               | 0.7             | 0.1              | 0.0             | 0.8             | 0.2              | 0.1             | 0.7             | 0.2              | 0.1             |
| <b>Private sector</b>                      | <b>78.1</b>     | <b>23.9</b>      | <b>9.9</b>      | <b>64.7</b>     | <b>14.5</b>      | <b>4.3</b>      | <b>67.1</b>     | <b>16.2</b>      | <b>5.3</b>      |
| Private hospital                           | 3.3             | 1.0              | 0.2             | 3.6             | 1.0              | 0.3             | 3.6             | 1.0              | 0.3             |
| Private clinic                             | 22.6            | 6.7              | 2.4             | 17.2            | 5.0              | 1.3             | 18.2            | 5.3              | 1.5             |
| Private pharmacy                           | 40.6            | 13.4             | 6.1             | 12.7            | 2.2              | 0.8             | 17.8            | 4.2              | 1.8             |
| Home/office of trained health worker/nurse | 5.4             | 1.6              | 0.4             | 14.4            | 3.7              | 1.0             | 12.8            | 3.3              | 0.9             |
| Visit of trained health worker/nurse       | 4.7             | 0.9              | 0.6             | 15.0            | 2.2              | 0.8             | 13.1            | 2.0              | 0.8             |
| Other private medical                      | 1.5             | 0.4              | 0.2             | 1.7             | 0.4              | 0.1             | 1.7             | 0.4              | 0.1             |
| <b>Non-medical sector</b>                  | <b>1.0</b>      | <b>0.4</b>       | <b>0.2</b>      | <b>5.3</b>      | <b>1.1</b>       | <b>0.3</b>      | <b>4.5</b>      | <b>1.0</b>       | <b>0.3</b>      |
| Shop/market                                | 0.7             | 0.2              | 0.1             | 4.3             | 0.5              | 0.1             | 3.6             | 0.4              | 0.1             |
| Kru Khmer/magician                         | 0.3             | 0.1              | 0.1             | 0.9             | 0.6              | 0.1             | 0.8             | 0.5              | 0.1             |
| Monk/religious leader                      | 0.0             | 0.0              | 0.0             | 0.1             | 0.0              | 0.0             | 0.1             | 0.0              | 0.0             |
| Traditional birth attendant                | 0.0             | 0.1              | 0.0             | 0.0             | 0.0              | 0.0             | 0.0             | 0.0              | 0.0             |
| <b>Outside of country/other</b>            | <b>2.1</b>      | <b>0.2</b>       | <b>0.1</b>      | <b>1.5</b>      | <b>0.3</b>       | <b>0.1</b>      | <b>1.6</b>      | <b>0.3</b>       | <b>0.1</b>      |
| Total                                      | 100.0           | 100.0            | 100.0           | 100.0           | 100.0            | 100.0           | 100.0           | 100.0            | 100.0           |
| Number                                     | 1,755           | 1,755            | 1,755           | 7,902           | 7,902            | 7,902           | 9,656           | 9,656            | 9,656           |

Figure 3.1 summarizes the findings detailed in Table 3.5. The private sector is the most popular source for all three types of treatments. After the private sector, people most often choose the public sector for first, second, and third treatments, whereas the non-medical sector is the least popular choice for seeking treatment.

**Figure 3.1 Percentage of ill or injured household members seeking treatment by order of treatment and sector of health care**





## 3.5 COST FOR HEALTH CARE

### 3.5.1 Distribution of Cost for Health Care

For each ill or injured person, the respondent was asked to state the costs expended for transportation and treatment for each visit to a health care provider. These costs were reported only for living people who had been recently ill or injured and did not include costs incurred for people who had died in the 30 days preceding the interview. Costs are presented in US dollars in Table 3.6. In the case of all treatments, 9 percent of household members spent \$1 or less for transportation and treatment for illness or injury, and 21 percent spent \$1 to \$4. Ten percent of all household members spent \$50-\$99 for transportation and treatment for illness or injury, and another 10 percent spent \$100 or more.

These expenditures varied by type of spending. For transport, 48 percent of household members spent less than \$1, 35 percent spent \$1 to \$4, 8 percent spent \$5 to \$9, and the rest spent \$10 or more. For health care, 6 in 10 household members spent up to \$19, 18 percent spent between \$20 and \$49, 10 percent spent between \$50 and \$99, and 9 percent spent \$100 or more. There were small variations in spending according to order of treatment.

Table 3.6 Distribution of cost for health care

Percent distribution of de jure household members who were ill or injured in the past 30 days and sought treatment by amount of money spent for transport and health care, according to number of treatments, Cambodia 2014

| Amount spent for transport and health care | Treatment for illness or injury |             |       |                  |             |       |                 |             |       |                |             |       |
|--|---------------------------------|-------------|-------|------------------|-------------|-------|-----------------|-------------|-------|----------------|-------------|-------|
|  | First treatment                 |             |       | Second treatment |             |       | Third treatment |             |       | All treatments |             |       |
|  | Transport                       | Health care | Total | Transport        | Health care | Total | Transport       | Health care | Total | Transport      | Health care | Total |
| \$0-1                                      | 50.4                            | 17.3        | 10.6  | 46.0             | 16.4        | 9.7   | 51.6            | 19.2        | 11.7  | 48.4           | 14.9        | 9.3   |
| \$1-4                                      | 35.1                            | 20.9        | 23.7  | 37.5             | 22.1        | 23.9  | 32.5            | 26.5        | 28.7  | 34.5           | 19.1        | 21.1  |
| \$5-9                                      | 7.5                             | 13.9        | 15.1  | 8.4              | 14.8        | 15.4  | 7.6             | 15.1        | 16.0  | 8.1            | 13.1        | 13.9  |
| \$10-19                                    | 4.1                             | 15.8        | 16.5  | 4.1              | 17.7        | 18.8  | 3.5             | 16.5        | 17.7  | 4.6            | 16.0        | 16.3  |
| \$20-49                                    | 1.2                             | 15.9        | 16.6  | 2.3              | 15.8        | 17.7  | 1.5             | 13.5        | 14.8  | 2.3            | 17.5        | 18.5  |
| \$50-99                                    | 0.4                             | 7.9         | 8.3   | 0.5              | 7.0         | 7.6   | 1.1             | 2.9         | 3.9   | 0.7            | 9.6         | 10.0  |
| \$100+                                     | 0.4                             | 7.7         | 7.9   | 0.6              | 5.6         | 6.0   | 1.2             | 5.1         | 5.7   | 0.6            | 9.2         | 9.6   |
| Don't know/missing                         | 0.8                             | 0.6         | 1.2   | 0.6              | 0.4         | 0.9   | 1.0             | 1.1         | 1.5   | 0.8            | 0.7         | 1.4   |
| Total                                      | 100.0                           | 100.0       | 100.0 | 100.0            | 100.0       | 100.0 | 100.0           | 100.0       | 100.0 | 100.0          | 100.0       | 100.0 |
| Number                                     | 9,186                           | 9,186       | 9,186 | 2,143            | 2,143       | 2,143 | 684             | 684         | 684   | 9,186          | 9,186       | 9,186 |

### 3.5.2 Expenditures for Health Care

Table 3.7 presents the mean cost of transport and treatment by order of treatment and background characteristics. Mean total costs for first, second, and third treatments are \$41.08, \$34.27, and \$32.19, respectively. Mean cost of transport increases with treatment order, from \$2.78 for the first treatment to \$3.59 for the second treatment and then \$4.94 for the third treatment.

The mean cost of transport and health care varies according to type of health sector, severity of illness or injury, age group, sex, residence, and province. Examining total costs by type of health sector shows that the highest mean expenditure is for “outside of country/other” treatment, which may include going to Singapore, Thailand, or Vietnam or seeking specialized services. This is true for both costs of transport and costs of health care.

Total cost has continued to increase in the past four years, from a mean of \$32.37 in 2010 to \$39.36 in 2014. Increases have been observed in both the public and private sectors, in the first and third treatment cycles, and in transport as well as health care costs. Total “outside of country/other” costs have declined from the level reported in the 2010 CDHS, from \$324.26 to \$234.93. “Outside of country/other” treatment is the most expensive treatment option due to high transport (\$33.86) and health care (\$201.08) costs.

Table 3.7 Expenditures for health care

Mean expenditures in United States dollars for transport and health care by de jure household members who were ill or injured in the past 30 days and sought treatment by order of treatments, according to background characteristics, Cambodia 2014

| Background characteristic            | Treatment for illness or injury |              |              |                  |              |              |                 |              |              |                |              |              |
|--------------------------------------|---------------------------------|--------------|--------------|------------------|--------------|--------------|-----------------|--------------|--------------|----------------|--------------|--------------|
|                                      | First treatment                 |              |              | Second treatment |              |              | Third treatment |              |              | All treatments |              |              |
|                                      | Transport                       | Health care  | Total        | Transport        | Health care  | Total        | Transport       | Health care  | Total        | Transport      | Health care  | Total        |
| <b>Type of health sector</b>         |                                 |              |              |                  |              |              |                 |              |              |                |              |              |
| Public                               | 4.57                            | 48.76        | 53.33        | 6.81             | 27.22        | 34.03        | 8.17            | 32.20        | 40.36        | 5.11           | 44.39        | 49.51        |
| Private                              | 1.72                            | 33.00        | 34.72        | 2.03             | 30.16        | 32.19        | 2.61            | 21.27        | 23.88        | 1.83           | 31.78        | 33.61        |
| Non-medical                          | 0.66                            | 8.54         | 9.20         | 2.75             | 18.71        | 21.45        | 0.43            | 5.56         | 5.98         | 1.01           | 10.12        | 11.12        |
| Outside of country/ other            | 28.48                           | 202.49       | 230.97       | 43.27            | 155.88       | 199.15       | 83.19           | 293.65       | 376.83       | 33.86          | 201.08       | 234.93       |
| <b>Severity of illness or injury</b> |                                 |              |              |                  |              |              |                 |              |              |                |              |              |
| Slight                               | 1.22                            | 11.82        | 13.04        | 1.23             | 8.78         | 10.00        | 2.51            | 17.62        | 20.12        | 1.28           | 11.61        | 12.89        |
| Moderate                             | 2.59                            | 36.97        | 39.56        | 2.84             | 27.13        | 29.97        | 2.57            | 26.32        | 28.89        | 2.63           | 34.50        | 37.14        |
| Serious                              | 10.22                           | 156.53       | 166.75       | 11.16            | 90.23        | 101.39       | 16.27           | 47.91        | 64.18        | 10.96          | 131.12       | 142.08       |
| <b>Age</b>                           |                                 |              |              |                  |              |              |                 |              |              |                |              |              |
| 0-9                                  | 1.62                            | 10.90        | 12.52        | 2.92             | 11.49        | 14.41        | 4.08            | 5.51         | 9.59         | 1.97           | 10.74        | 12.71        |
| 10-19                                | 1.95                            | 23.69        | 25.64        | 3.32             | 21.87        | 25.19        | 1.70            | 9.37         | 11.07        | 2.15           | 22.78        | 24.93        |
| 20-39                                | 3.28                            | 49.60        | 52.88        | 2.72             | 31.21        | 33.93        | 2.60            | 21.68        | 24.28        | 3.14           | 44.54        | 47.67        |
| 40-59                                | 3.25                            | 47.90        | 51.15        | 5.03             | 45.60        | 50.63        | 9.45            | 45.01        | 54.46        | 4.01           | 47.28        | 51.28        |
| 60+                                  | 4.04                            | 68.52        | 72.55        | 3.89             | 44.77        | 48.66        | 2.10            | 41.84        | 43.94        | 3.90           | 62.73        | 66.62        |
| <b>Sex</b>                           |                                 |              |              |                  |              |              |                 |              |              |                |              |              |
| Male                                 | 2.74                            | 38.20        | 40.94        | 3.83             | 36.14        | 39.97        | 3.77            | 20.93        | 24.69        | 2.99           | 36.89        | 39.88        |
| Female                               | 2.80                            | 38.38        | 41.18        | 3.43             | 26.86        | 30.28        | 5.70            | 31.36        | 37.06        | 3.08           | 35.90        | 38.99        |
| <b>Residence</b>                     |                                 |              |              |                  |              |              |                 |              |              |                |              |              |
| Urban                                | 3.39                            | 48.49        | 51.88        | 2.41             | 22.69        | 25.09        | 4.74            | 32.82        | 37.56        | 3.30           | 41.76        | 45.05        |
| Rural                                | 2.64                            | 36.00        | 38.64        | 3.95             | 33.12        | 37.08        | 5.02            | 24.93        | 29.95        | 2.98           | 34.95        | 37.94        |
| <b>Province</b>                      |                                 |              |              |                  |              |              |                 |              |              |                |              |              |
| Banteay Meanchey                     | 3.63                            | 53.97        | 57.59        | 5.14             | 48.72        | 53.86        | 11.01           | 46.96        | 57.97        | 4.15           | 52.93        | 57.08        |
| Kampong Cham                         | 2.71                            | 34.11        | 36.82        | 5.70             | 44.42        | 50.12        | 13.98           | 54.87        | 68.85        | 3.71           | 36.67        | 40.38        |
| Kampong Chhnang                      | 2.21                            | 32.62        | 34.83        | 2.28             | 38.86        | 41.14        | 3.00            | 44.70        | 47.70        | 2.26           | 34.34        | 36.60        |
| Kampong Speu                         | 2.28                            | 36.44        | 38.72        | 2.39             | 19.64        | 22.03        | 1.23            | 13.07        | 14.31        | 2.27           | 34.79        | 37.06        |
| Kampong Thom                         | 1.61                            | 26.16        | 27.77        | 7.21             | 94.18        | 101.39       | 3.29            | 23.88        | 27.17        | 2.13           | 32.19        | 34.32        |
| Kandal                               | 1.84                            | 46.81        | 48.64        | 1.36             | 12.21        | 13.57        | 4.04            | 18.32        | 22.36        | 1.91           | 36.62        | 38.53        |
| Kratie                               | 2.88                            | 27.83        | 30.71        | 4.08             | 51.43        | 55.51        | 3.87            | 38.15        | 42.02        | 3.00           | 30.02        | 33.02        |
| Phnom Penh                           | 2.65                            | 33.59        | 36.24        | 1.23             | 13.21        | 14.44        | 2.22            | 18.24        | 20.46        | 2.25           | 26.82        | 29.06        |
| Prey Veng                            | 3.54                            | 66.03        | 69.57        | 3.10             | 24.54        | 27.64        | 2.53            | 27.14        | 29.68        | 3.32           | 51.15        | 54.47        |
| Pursat                               | 3.64                            | 71.72        | 75.36        | 5.84             | 63.55        | 69.40        | na              | na           | na           | 3.90           | 70.75        | 74.65        |
| Siem Reap                            | 3.45                            | 37.77        | 41.21        | 6.29             | 40.46        | 46.75        | 10.91           | 43.36        | 54.27        | 4.34           | 38.55        | 42.89        |
| Svay Rieng                           | 2.32                            | 42.75        | 45.07        | 3.10             | 61.09        | 64.19        | 1.44            | 19.03        | 20.47        | 2.42           | 45.04        | 47.47        |
| Takeo                                | 3.97                            | 45.15        | 49.12        | 3.16             | 27.19        | 30.35        | 3.09            | 17.77        | 20.86        | 3.73           | 39.24        | 42.98        |
| Otdar Meanchey                       | 9.70                            | 36.80        | 46.50        | 31.14            | 51.97        | 83.11        | 178.65          | 178.75       | 357.40       | 14.74          | 40.58        | 55.33        |
| Battambang/Pailin                    | 2.97                            | 37.06        | 40.03        | 8.49             | 51.72        | 60.21        | 5.74            | 33.05        | 38.79        | 3.82           | 38.99        | 42.82        |
| Kampot/Kep                           | 1.63                            | 34.82        | 36.45        | 1.22             | 13.26        | 14.48        | 0.95            | 8.17         | 9.13         | 1.55           | 30.99        | 32.54        |
| Preah Sihanouk/Koh Kong              | 2.84                            | 29.35        | 32.19        | 4.70             | 33.89        | 38.59        | 4.58            | 46.14        | 50.72        | 3.17           | 30.55        | 33.72        |
| Preah Vihear/Stung Treng             | 2.32                            | 21.64        | 23.96        | 3.73             | 19.39        | 23.13        | 23.59           | 139.47       | 163.05       | 2.82           | 22.92        | 25.74        |
| Mondul Kiri/Ratanak Kiri             | 7.10                            | 49.35        | 56.45        | 18.40            | 166.02       | 184.42       | 1.59            | 8.02         | 9.60         | 8.59           | 65.33        | 73.92        |
| <b>Total</b>                         | <b>2.78</b>                     | <b>38.30</b> | <b>41.08</b> | <b>3.59</b>      | <b>30.68</b> | <b>34.27</b> | <b>4.94</b>     | <b>27.25</b> | <b>32.19</b> | <b>3.05</b>    | <b>36.31</b> | <b>39.36</b> |

na = No third treatment was reported

In general, health care costs increased significantly by severity of illness or injury. The total mean cost of health care increased from \$11.61 for slight illness or injury to \$131.12 for serious conditions. This followed the same pattern established in the 2010 CDHS.

Overall, average health care costs rise consistently with the patient's age, from \$10.74 for children age 0-9 to \$62.73 for people age 60 or older. Health care expenditures by sex show that men and women spent about the same on health care (\$36.89 and \$35.90, respectively). A comparison with the findings of the 2010 CDHS shows that health care spending seems to have become more equitable. In 2010, men spent more than women on health care (\$34.28 versus \$26.90).

Total health care costs have remained higher in urban areas than in rural areas since the 2010 CDHS. However, the urban-rural difference in health care costs has narrowed considerably due to a decline in costs in urban areas. In urban areas average health care costs decreased from \$74.79 in 2010 to

\$41.76 in 2014, and in rural areas costs increased from \$23.55 to \$34.95 over the same period. The average transport cost per treatment has not changed much over the past four years (from \$2.38 to \$3.05). The difference in transport costs in urban and rural areas is small (\$3.30 versus \$2.98).

Health care expenditures vary greatly in Cambodia's provinces. The cost of health care is highest in Pursat (\$70.75) and lowest in Preah Vihear/Stung Treng (\$22.92).

### **3.5.3 Sources of Money for Health Care Expenditures**

Because the health care system in Cambodia is largely fee-based, it is important to know the source of the money used to pay for health care. One goal of the health care system is to have appropriate funding mechanisms for the population to acquire health care without deepening poverty. Table 3.8 shows the different sources of money spent by people seeking treatment for health care. Percentages could sum to greater than 100 because a person could use money from more than one source.

Table 3.8 shows the different sources of money spent by persons who sought treatment for health care. The total percent could be greater than 100 because a person could use money from more than one source. Similar to 2010, the two major sources of money spent on health care are wages or income and savings; in 2014, 64 percent of people who sought health care used money from wages/income and 31 percent used savings. Gifts from relatives or friends and sale of assets were mentioned as a source of funding by 14 percent and 8 percent of those who obtained health care, respectively. Twelve percent of those who had health care treatment said they used money from tontine,<sup>1</sup> and 4 percent used money from a health equity fund. Each of the other sources of funding was mentioned by 1 percent or less of respondents.

There are small differences in the source of money spent on health care by type of health sector. In all sectors, the most common source of funding is wages or income (50 percent to 72 percent), followed by savings (22 percent to 33 percent). Gifts from relatives are the next most common source of funding for health care (13 percent to 17 percent).

As severity of illness or injury increases, dependence on loans, sale of assets, gifts, and savings increases; however, spending of wages or income declines as severity of illness or injury increases.

Wages/income was the most common source of funding regardless of the total cost of treatments; however, as treatment costs increase, the proportion of people who use funds from loans, sale of assets, gifts from relatives, and savings also increases. Health equity funds were used by 15 percent of those spending \$0 to \$1.

There were no substantial differences in the source of money used for health care costs by the patient's sex. Urban residents were more likely than rural residents to use wages (86 percent versus 59 percent) but less likely to use savings (13 percent versus 35 percent) for health care.

Large differences were found in the sources of money for health care costs by province. Patients in Phnom Penh, Preah Vihear/Stung Treng, and Kandal were most likely to use wages to pay for their health care (92 percent, 89 percent, and 87 percent, respectively) and among the least likely to use their savings (5 percent and 15 percent, respectively).

Conversely, Kampong Chhnang and Kampot/Kep are the provinces in which health care users are most likely to use savings for health care spending (86 percent and 76 percent, respectively). Patients in Prey Veng are least likely to use wages for health care spending (9 percent). Patients in Svay Rieng (34 percent) had the highest reliance on sale of assets for health care spending. Patients in Otdar Meanchey were most likely to use a health equity fund to finance their health care spending. Approximately 1 of 3 patients (32 percent) in Prey Veng reported gifts from relatives or friends as a source of funding for health care costs.

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<sup>1</sup> Tontine is an informal group saving and loan scheme in Cambodia.

Table 3.8 Source of money (United States dollars) spent by persons who sought treatment for health care

Among de jure household members who were ill or injured in the 30 days before the survey and who sought treatment, percentage who reported specific sources of expenditures for transport and health care, according to background characteristics, Cambodia 2014

| Background characteristic                        | Source of money for health care |         |                |     |                        |                                  |          |                             |              |              |                |                    |         |               | Number <sup>1</sup> |
|--|---------------------------------|---------|----------------|-----|------------------------|----------------------------------|----------|-----------------------------|--------------|--------------|----------------|--------------------|---------|---------------|---------------------|
|  | Health equity fund              | Voucher | Free exemption | NGO | National Security Fund | Community based health insurance | Employer | Commercial health insurance | Wages/income | Loan/tontine | Sale of assets | Gift from relative | Savings | Other/missing |                     |
| <b>Type of health sector</b>                     |                                 |         |                |     |                        |                                  |          |                             |              |              |                |                    |         |               |                     |
| Public   | 13.1                            | 0.3     | 3.5            | 0.8 | 0.1                    | 0.7                              | 0.2      | 0.3                         | 50.4         | 11.1         | 7.3            | 13.1               | 30.9    | 0.0           | 1,958               |
| Private  | 1.4                             | 0.1     | 0.2            | 0.2 | 0.0                    | 0.1                              | 0.3      | 0.0                         | 67.5         | 12.9         | 7.7            | 14.3               | 31.5    | 0.1           | 6,594               |
| Non-medical                                      | 2.4                             | 0.3     | 0.5            | 0.6 | 0.0                    | 0.0                              | 0.0      | 0.0                         | 72.1         | 11.3         | 7.2            | 16.6               | 33.4    | 0.3           | 472                 |
| Other  | 1.1                             | 0.0     | 1.9            | 1.4 | 0.0                    | 0.0                              | 1.0      | 0.0                         | 62.6         | 9.6          | 7.7            | 16.9               | 22.4    | 2.7           | 161                 |
| <b>Severity of illness or injury<sup>2</sup></b> |                                 |         |                |     |                        |                                  |          |                             |              |              |                |                    |         |               |                     |
| Slight   | 3.7                             | 0.1     | 0.8            | 0.2 | 0.0                    | 0.1                              | 0.1      | 0.0                         | 74.6         | 9.1          | 4.5            | 9.6                | 24.4    | 0.0           | 3,961               |
| Moderate   | 4.1                             | 0.2     | 1.3            | 0.4 | 0.0                    | 0.3                              | 0.4      | 0.2                         | 57.7         | 13.1         | 8.4            | 16.1               | 36.3    | 0.2           | 4,277               |
| Serious  | 4.6                             | 0.3     | 0.4            | 0.3 | 0.1                    | 0.1                              | 0.7      | 0.0                         | 47.5         | 23.0         | 16.9           | 25.6               | 38.2    | 0.2           | 941                 |
| <b>Cost of transport and health care</b>         |                                 |         |                |     |                        |                                  |          |                             |              |              |                |                    |         |               |                     |
| \$0-1  | 15.2                            | 0.1     | 5.0            | 1.6 | 0.2                    | 0.2                              | 0.9      | 0.0                         | 55.9         | 2.4          | 1.5            | 7.8                | 25.0    | 0.7           | 851                 |
| \$1-4  | 4.9                             | 0.2     | 1.1            | 0.2 | 0.1                    | 0.4                              | 0.4      | 0.1                         | 72.7         | 4.7          | 3.8            | 8.9                | 26.6    | 0.1           | 1,934               |
| \$5-9  | 3.4                             | 0.0     | 0.9            | 0.5 | 0.0                    | 0.2                              | 0.0      | 0.1                         | 68.7         | 8.6          | 6.4            | 9.7                | 32.1    | 0.0           | 1,274               |
| \$10-19  | 2.8                             | 0.1     | 0.3            | 0.2 | 0.0                    | 0.0                              | 0.1      | 0.1                         | 64.1         | 12.4         | 6.7            | 13.9               | 33.0    | 0.1           | 1,499               |
| \$20-49  | 1.6                             | 0.1     | 0.4            | 0.1 | 0.0                    | 0.2                              | 0.0      | 0.1                         | 60.9         | 15.8         | 9.2            | 19.1               | 34.4    | 0.0           | 1,702               |
| \$50-99  | 1.2                             | 0.1     | 0.0            | 0.0 | 0.0                    | 0.0                              | 0.2      | 0.0                         | 60.7         | 22.8         | 12.5           | 20.1               | 32.4    | 0.0           | 917                 |
| \$100+   | 1.5                             | 0.2     | 0.0            | 0.1 | 0.0                    | 0.0                              | 0.2      | 0.0                         | 56.7         | 27.9         | 17.3           | 23.7               | 37.1    | 0.0           | 883                 |
| <b>Sex</b>                                       |                                 |         |                |     |                        |                                  |          |                             |              |              |                |                    |         |               |                     |
| Male   | 3.9                             | 0.1     | 1.0            | 0.4 | 0.0                    | 0.3                              | 0.4      | 0.0                         | 65.0         | 11.8         | 7.3            | 12.9               | 31.2    | 0.2           | 3,799               |
| Female   | 4.0                             | 0.2     | 0.9            | 0.3 | 0.0                    | 0.1                              | 0.2      | 0.1                         | 63.3         | 12.8         | 7.8            | 15.2               | 31.4    | 0.0           | 5,387               |
| <b>Residence</b>                                 |                                 |         |                |     |                        |                                  |          |                             |              |              |                |                    |         |               |                     |
| Urban  | 3.3                             | 0.0     | 1.1            | 0.9 | 0.0                    | 0.1                              | 0.5      | 0.1                         | 85.7         | 6.8          | 1.6            | 11.2               | 13.2    | 0.0           | 1,686               |
| Rural  | 4.1                             | 0.2     | 1.0            | 0.2 | 0.0                    | 0.2                              | 0.2      | 0.1                         | 59.1         | 13.7         | 8.9            | 14.9               | 35.4    | 0.1           | 7,500               |
| <b>Province</b>                                  |                                 |         |                |     |                        |                                  |          |                             |              |              |                |                    |         |               |                     |
| Banteay Meanchey                                 | 3.1                             | 0.0     | 0.8            | 0.3 | 0.0                    | 0.2                              | 0.0      | 0.0                         | 57.8         | 16.1         | 8.4            | 31.1               | 35.0    | 0.0           | 366                 |
| Kampong Cham                                     | 4.0                             | 0.3     | 0.5            | 0.2 | 0.0                    | 0.3                              | 0.5      | 0.0                         | 62.1         | 19.9         | 6.6            | 12.1               | 33.8    | 0.3           | 1,206               |
| Kampong Chhnang                                  | 7.4                             | 0.0     | 1.4            | 0.2 | 0.0                    | 0.0                              | 0.3      | 0.0                         | 42.2         | 7.3          | 13.9           | 16.0               | 85.8    | 0.0           | 460                 |
| Kampong Speu                                     | 0.9                             | 0.0     | 0.2            | 0.0 | 0.0                    | 0.0                              | 0.0      | 0.0                         | 64.5         | 7.0          | 11.3           | 14.7               | 22.4    | 0.0           | 635                 |
| Kampong Thom                                     | 5.4                             | 0.0     | 0.3            | 0.0 | 0.0                    | 0.7                              | 0.0      | 0.0                         | 63.2         | 6.1          | 6.5            | 4.8                | 40.3    | 0.0           | 431                 |
| Kandal   | 0.7                             | 0.2     | 0.4            | 0.2 | 0.0                    | 0.0                              | 0.3      | 0.0                         | 86.6         | 6.2          | 1.7            | 18.6               | 14.7    | 0.0           | 687                 |
| Kratie   | 4.0                             | 0.1     | 0.7            | 0.6 | 0.0                    | 0.0                              | 0.0      | 0.0                         | 70.8         | 12.4         | 5.7            | 12.6               | 31.8    | 0.4           | 352                 |
| Phnom Penh                                       | 3.6                             | 0.0     | 1.7            | 0.9 | 0.0                    | 0.1                              | 0.7      | 0.1                         | 92.1         | 8.5          | 1.0            | 8.6                | 4.6     | 0.0           | 1,532               |
| Prey Veng  | 2.1                             | 0.0     | 0.4            | 0.0 | 0.0                    | 0.0                              | 0.0      | 0.0                         | 8.7          | 20.5         | 12.2           | 32.0               | 64.4    | 0.0           | 384                 |
| Pursat   | 9.1                             | 0.0     | 0.5            | 0.2 | 0.9                    | 1.2                              | 0.0      | 0.4                         | 24.3         | 12.0         | 8.0            | 8.6                | 59.3    | 0.0           | 164                 |
| Siem Reap  | 5.4                             | 0.8     | 1.1            | 0.0 | 0.0                    | 1.4                              | 0.0      | 0.0                         | 52.6         | 22.5         | 5.9            | 5.3                | 32.8    | 0.0           | 424                 |
| Svay Rieng                                       | 0.4                             | 0.0     | 0.5            | 0.0 | 0.0                    | 0.0                              | 0.2      | 0.0                         | 64.1         | 19.1         | 34.3           | 23.9               | 34.5    | 0.2           | 440                 |
| Takeo  | 7.7                             | 1.2     | 0.8            | 0.0 | 0.4                    | 0.0                              | 0.0      | 1.3                         | 36.1         | 12.3         | 19.2           | 20.5               | 36.2    | 0.8           | 367                 |
| Otdar Meanchey                                   | 13.3                            | 0.0     | 1.1            | 0.2 | 0.0                    | 0.0                              | 0.0      | 0.0                         | 61.7         | 18.9         | 4.0            | 5.5                | 51.5    | 0.0           | 106                 |
| Battambang/Pailin                                | 6.0                             | 0.1     | 0.8            | 0.4 | 0.0                    | 0.0                              | 0.7      | 0.0                         | 66.7         | 15.5         | 2.0            | 21.0               | 13.9    | 0.0           | 683                 |
| Kampot/Kep                                       | 1.9                             | 0.0     | 2.7            | 0.5 | 0.0                    | 0.0                              | 0.0      | 0.0                         | 36.3         | 7.6          | 10.2           | 8.7                | 75.6    | 0.0           | 406                 |
| Preah Sihanouk/Koh Kong                          | 8.5                             | 0.3     | 0.6            | 1.2 | 0.0                    | 0.0                              | 0.3      | 0.2                         | 56.2         | 5.6          | 1.8            | 10.3               | 41.1    | 0.2           | 184                 |
| Preah Vihear/Stung Treng                         | 3.6                             | 0.0     | 3.9            | 0.0 | 0.0                    | 0.0                              | 0.0      | 0.0                         | 89.2         | 11.3         | 2.2            | 4.2                | 9.9     | 0.0           | 251                 |
| Mondul Kiri/Ratanak Kiri                         | 2.7                             | 0.4     | 0.2            | 1.7 | 0.0                    | 0.0                              | 0.0      | 0.0                         | 74.3         | 2.8          | 1.7            | 3.1                | 21.8    | 0.6           | 109                 |
| <b>Total</b>                                     | 4.0                             | 0.2     | 1.0            | 0.3 | 0.0                    | 0.2                              | 0.3      | 0.1                         | 64.0         | 12.4         | 7.6            | 14.2               | 31.3    | 0.1           | 9,186               |

<sup>1</sup> Total includes 127 non-monetary cases (1 in-kind case and 126 cases of don't know or missing amount of spending)

<sup>2</sup> Includes 7 cases for which information on severity of illness is missing



## Key Findings

- Overall, 10 percent of household members age 5 and older suffer with at least one form of disability.
- Twenty-one percent of household members who were ill or injured in the 30 days prior to the interview are disabled.
- The most common types of disabilities reported in the survey are difficulties in seeing, walking or climbing stairs, and concentrating.
- One in 10 men who are not currently employed are disabled, as compared with only 5 percent among other men.

Persons with disabilities are considered vulnerable in Cambodia. The commitment of the Royal Government of Cambodia (RGC) to improving the lives of people with disabilities through recognition of their rights was demonstrated through ratification of the Convention on the Rights of Persons with Disabilities (CRPD) in 2012. The RGC has also enacted a number of disability laws and strategic plans in recent years. The government has developed a National Disability Policy to promote effective service delivery to persons with disabilities, and recently the Disability Rights Initiative Cambodia (DRIC) was jointly developed by the Australian government, the United Nations Development Program (UNDP), the World Health Organization (WHO), and the United Nations Children’s Fund (UNICEF). The main objective of this latter initiative is to improve the quality of life of persons with disabilities in Cambodia.

People with disabilities are disadvantaged in workplaces and in other public places. Understanding the prevalence of disabilities in the population and the associated circumstances can improve efforts to remove disabling barriers and provide services that allow people with disabilities to integrate better into society. In the 2014 CDHS, information was collected on each household member age 5 and older about whether he or she had difficulties with seeing, hearing, walking or climbing stairs, remembering or concentrating, performing self-care, or communicating. The survey also collected information as to the severity of these disabilities, that is, whether a disabled person has some difficulty performing the listed activities, a great deal of difficulty, or cannot perform the listed activities at all.

## 4.1 DISABILITY AMONG THE GENERAL HOUSEHOLD POPULATION

Table 4.1 presents the prevalence of disability in Cambodia according to type of disability and level of difficulty. The first column shows the proportion of the population with no disabilities. The next group of columns shows the proportion of the population with some level of difficulty performing various types of functions, while the final set of columns shows those with a great degree of difficulty or no ability to perform the described functions at all.

According to the survey, 10 percent of persons age 5 and over have some form of disability. Difficulties in seeing, walking or climbing stairs, and concentrating are the most common types of disabilities reported. Five percent of household members have difficulty seeing, 3 percent have difficulty hearing, 4 percent have difficulty walking or climbing stairs, and 4 percent have difficulties with remembering or concentrating. Only 1 percent of the population has at least some difficulty with self-care and 2 percent with communicating.

The prevalence of disability increases with age, from 2 percent among children age 5-14 to 44 percent among those age 60 and above. The prevalence of disability is 13 percent among persons age 35-59.

Table 4.1 Disability among the household population

Percentage of the de jure household population age 5 and over with specific types of physical disabilities, according to background characteristics, Cambodia 2014

| Background characteristic                 | Some difficulty, a lot of difficulty, or cannot do |            |        |         |         |               |           |               | A lot of difficulty or cannot do |        |         |         |               |           |               | Number |
|---|--|------------|--------|---------|---------|---------------|-----------|---------------|----------------------------------|--------|---------|---------|---------------|-----------|---------------|--------|
|   | No difficulties                                    | Any domain | Seeing | Hearing | Walking | Concentrating | Self-care | Communicating | Any domain                       | Seeing | Hearing | Walking | Concentrating | Self-care | Communicating |        |
| <b>Age</b>                                |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| 5-14                                      | 98.2   | 1.8        | 0.3    | 0.5     | 0.3     | 0.7           | 0.6       | 0.5           | 0.5                              | 0.1    | 0.1     | 0.1     | 0.2           | 0.2       | 0.3           | 16,446 |
| 15-34                                     | 96.5   | 3.5        | 1.0    | 1.0     | 0.8     | 1.6           | 0.3       | 0.8           | 0.9                              | 0.1    | 0.3     | 0.2     | 0.4           | 0.2       | 0.5           | 24,987 |
| 35-59                                     | 86.8   | 13.2       | 6.6    | 2.7     | 4.4     | 5.2           | 0.7       | 1.2           | 2.0                              | 0.4    | 0.4     | 0.9     | 0.5           | 0.3       | 0.6           | 17,640 |
| 60+                                       | 55.7   | 44.2       | 30.5   | 17.0    | 22.3    | 21.5          | 6.9       | 7.9           | 11.8                             | 5.3    | 3.2     | 5.5     | 3.6           | 3.0       | 2.2           | 6,079  |
| <b>Sex</b>                                |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| Male                                      | 91.5   | 8.5        | 4.2    | 2.5     | 3.1     | 3.5           | 1.0       | 1.3           | 1.9                              | 0.5    | 0.6     | 0.8     | 0.6           | 0.4       | 0.6           | 31,395 |
| Female                                    | 89.5   | 10.5       | 5.9    | 3.1     | 4.2     | 4.9           | 1.2       | 1.7           | 2.3                              | 0.8    | 0.6     | 0.9     | 0.8           | 0.5       | 0.6           | 33,757 |
| <b>Marital status<sup>1</sup></b>         |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| Never married                             | 94.9   | 5.1        | 1.5    | 1.5     | 1.3     | 2.3           | 0.9       | 1.9           | 2.2                              | 0.3    | 0.6     | 0.6     | 1.0           | 0.4       | 1.3           | 11,787 |
| Married                                   | 88.4   | 11.6       | 6.4    | 3.1     | 4.4     | 4.9           | 0.8       | 1.1           | 1.9                              | 0.6    | 0.5     | 0.8     | 0.4           | 0.3       | 0.3           | 31,883 |
| Widowed                                   | 63.1   | 36.7       | 25.0   | 14.7    | 19.2    | 18.4          | 6.2       | 7.1           | 10.5                             | 4.6    | 2.8     | 5.3     | 3.6           | 2.8       | 2.2           | 3,913  |
| Divorced                                  | 86.9   | 13.1       | 6.2    | 2.8     | 3.6     | 6.3           | 1.6       | 2.7           | 2.9                              | 0.8    | 0.8     | 0.7     | 1.5           | 0.9       | 1.4           | 1,099  |
| <b>Education</b>                          |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| No education                              | 79.4   | 20.5       | 12.0   | 7.7     | 9.1     | 10.4          | 3.8       | 5.1           | 6.4                              | 2.3    | 2.1     | 2.4     | 2.5           | 1.8       | 2.4           | 10,587 |
| Primary                                   | 91.3   | 8.7        | 4.5    | 2.4     | 3.2     | 3.5           | 0.7       | 1.0           | 1.6                              | 0.5    | 0.4     | 0.7     | 0.4           | 0.3       | 0.3           | 33,787 |
| Secondary                                 | 94.5   | 5.5        | 2.6    | 1.1     | 1.9     | 2.2           | 0.4       | 0.5           | 0.9                              | 0.2    | 0.1     | 0.4     | 0.3           | 0.1       | 0.2           | 18,393 |
| Higher                                    | 97.2   | 2.8        | 1.3    | 0.4     | 0.4     | 1.7           | 0.0       | 0.2           | 0.4                              | 0.1    | 0.1     | 0.1     | 0.1           | 0.0       | 0.1           | 2,378  |
| <b>Household size<sup>2</sup></b>         |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| 1-4                                       | 89.1   | 10.9       | 6.2    | 3.2     | 4.3     | 4.9           | 1.2       | 1.7           | 2.3                              | 0.8    | 0.6     | 0.9     | 0.8           | 0.4       | 0.6           | 27,500 |
| 5+  | 91.5   | 8.5        | 4.3    | 2.6     | 3.2     | 3.7           | 1.1       | 1.4           | 2.0                              | 0.6    | 0.6     | 0.9     | 0.6           | 0.5       | 0.6           | 37,588 |
| <b>Region</b>                             |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| Banteay Meanchey                          | 89.8   | 10.1       | 6.4    | 2.0     | 4.1     | 2.8           | 1.2       | 1.0           | 1.5                              | 0.4    | 0.4     | 0.8     | 0.3           | 0.2       | 0.4           | 2,763  |
| Kampong Cham                              | 88.2   | 11.7       | 6.6    | 4.0     | 4.5     | 4.4           | 1.1       | 1.8           | 2.6                              | 1.0    | 0.8     | 0.8     | 0.9           | 0.7       | 0.8           | 8,368  |
| Kampong Chhnang                           | 94.7   | 5.3        | 3.6    | 1.8     | 1.9     | 1.7           | 1.1       | 1.1           | 1.6                              | 0.6    | 0.4     | 0.6     | 0.5           | 0.5       | 0.3           | 2,311  |
| Kampong Speu                              | 94.9   | 5.1        | 1.9    | 2.2     | 1.5     | 1.2           | 0.7       | 1.4           | 1.9                              | 0.4    | 0.7     | 0.7     | 0.7           | 0.5       | 0.6           | 4,187  |
| Kampong Thom                              | 92.5   | 7.5        | 4.5    | 2.7     | 2.9     | 2.3           | 1.1       | 1.0           | 2.1                              | 0.6    | 0.8     | 1.1     | 0.5           | 0.6       | 0.6           | 3,268  |
| Kandal                                    | 88.9   | 11.1       | 6.3    | 4.0     | 2.6     | 5.3           | 1.4       | 2.1           | 2.7                              | 0.9    | 0.9     | 1.0     | 0.7           | 0.6       | 0.8           | 5,144  |
| Kratie                                    | 92.7   | 7.2        | 3.1    | 2.1     | 1.7     | 3.4           | 0.8       | 1.9           | 1.7                              | 0.4    | 0.4     | 0.5     | 0.6           | 0.3       | 0.9           | 1,889  |
| Phnom Penh                                | 91.0   | 9.0        | 4.8    | 2.4     | 2.3     | 4.5           | 0.7       | 1.1           | 2.5                              | 0.9    | 0.4     | 0.9     | 0.7           | 0.2       | 0.7           | 6,206  |
| Prey Veng                                 | 90.8   | 9.2        | 5.2    | 3.0     | 3.2     | 3.9           | 1.4       | 1.8           | 2.0                              | 0.6    | 0.5     | 1.0     | 0.5           | 0.5       | 0.7           | 4,351  |
| Pursat                                    | 91.8   | 8.1        | 4.6    | 2.2     | 4.7     | 3.5           | 1.4       | 1.7           | 2.5                              | 0.6    | 0.5     | 1.2     | 0.6           | 0.7       | 0.7           | 2,526  |
| Siem Reap                                 | 89.6   | 10.3       | 5.0    | 3.6     | 2.8     | 5.3           | 0.8       | 1.5           | 1.3                              | 0.3    | 0.4     | 0.4     | 0.5           | 0.3       | 0.4           | 4,275  |
| Svay Rieng                                | 90.4   | 9.6        | 5.4    | 2.9     | 2.6     | 3.9           | 0.4       | 1.0           | 1.5                              | 0.3    | 0.4     | 0.5     | 0.7           | 0.2       | 0.5           | 2,440  |
| Takeo                                     | 94.0   | 6.0        | 2.8    | 1.9     | 2.9     | 3.3           | 1.6       | 1.9           | 1.5                              | 0.6    | 0.4     | 0.8     | 0.7           | 0.5       | 0.6           | 4,067  |
| Otdar Meanchey                            | 93.3   | 6.6        | 4.3    | 1.8     | 3.2     | 2.0           | 1.0       | 1.0           | 2.3                              | 0.9    | 0.7     | 1.1     | 1.0           | 0.5       | 0.5           | 1,063  |
| Battambang/Pailin                         | 80.3   | 19.7       | 9.7    | 2.8     | 12.4    | 11.0          | 1.1       | 1.2           | 3.4                              | 1.1    | 0.6     | 1.7     | 1.4           | 0.4       | 0.6           | 5,010  |
| Kampot/Kep                                | 93.8   | 6.2        | 2.7    | 2.4     | 2.9     | 2.5           | 2.6       | 2.6           | 2.5                              | 0.9    | 0.8     | 1.1     | 0.9           | 0.9       | 0.7           | 2,900  |
| Preah Sihanouk/<br>Koh Kong               | 95.6   | 4.4        | 1.9    | 1.3     | 1.7     | 1.7           | 0.9       | 1.1           | 0.7                              | 0.2    | 0.1     | 0.3     | 0.2           | 0.3       | 0.1           | 1,452  |
| Preah Vihear/<br>Stung Treng              | 85.0   | 15.0       | 8.8    | 5.1     | 4.0     | 7.4           | 0.8       | 1.2           | 1.9                              | 0.5    | 0.5     | 0.6     | 0.6           | 0.2       | 0.5           | 1,579  |
| Mondul Kiri/<br>Ratanak Kiri              | 97.8   | 2.1        | 1.0    | 0.9     | 0.6     | 0.5           | 0.2       | 0.4           | 0.8                              | 0.3    | 0.2     | 0.3     | 0.2           | 0.1       | 0.2           | 1,356  |
| <b>Residence</b>                          |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| Urban                                     | 91.3   | 8.7        | 4.8    | 2.3     | 3.0     | 4.0           | 0.9       | 1.1           | 2.2                              | 0.7    | 0.4     | 0.9     | 0.6           | 0.3       | 0.6           | 10,403 |
| Rural                                     | 90.3   | 9.7        | 5.1    | 2.9     | 3.8     | 4.3           | 1.1       | 1.6           | 2.1                              | 0.7    | 0.6     | 0.8     | 0.7           | 0.5       | 0.6           | 54,750 |
| <b>Ill or injured in the past 30 days</b> |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| Yes                                       | 79.3   | 20.7       | 11.8   | 6.3     | 10.3    | 10.0          | 3.1       | 3.5           | 5.8                              | 2.2    | 1.4     | 2.9     | 1.6           | 1.5       | 1.4           | 7,852  |
| No  | 92.0   | 8.0        | 4.2    | 2.3     | 2.8     | 3.4           | 0.8       | 1.2           | 1.6                              | 0.5    | 0.5     | 0.6     | 0.6           | 0.3       | 0.5           | 57,301 |
| <b>Total</b>                              | 90.5   | 9.5        | 5.1    | 2.8     | 3.7     | 4.2           | 1.1       | 1.5           | 2.1                              | 0.7    | 0.6     | 0.9     | 0.7           | 0.5       | 0.6           | 65,153 |

Note: Total includes 2 cases for which information on illness or injury in the past 30 days is missing, 21 cases for which information on marital status is missing, and 8 cases for which information on education is missing.

<sup>1</sup> Marital status was asked only for household members age 15 or older.

<sup>2</sup> Households with only de facto member(s) are excluded.



Females are slightly more likely to suffer from some level of disability than their male counterparts (11 percent versus 9 percent). The prevalence of disability is much higher among household members who are widowed (37 percent) than those who are divorced (13 percent), currently in a union (12 percent), or single (5 percent). There is a notable association between disability and education. Household members who have no education (21 percent) are more than twice as likely to suffer from some level of disability as those with a primary education (9 percent) and seven times as likely as those with more than a secondary education (3 percent). There is little difference according to urban or rural residence. However, the level of disability varies substantially by province, from 2 percent in Mondul Kiri/Ratanak Kiri to 20 percent in Battambang/Pailin. Household members who recently suffered an illness or injury (in the 30 days prior to the interview) are more likely than those who did not (21 percent versus 8 percent) to report a disability.

Only 2 percent of the household population suffers from a severe disability (a great degree of difficulty or lack of ability to perform the function at all). This indicates that the majority of disabled people experience a moderate level of disability. Overall, less than 1 percent of the population age 5 and older is severely suffering from each form of disability. The distribution of more severe disabilities by background characteristics follows a pattern similar to that observed among overall disability.

## 4.2 DISABILITY AMONG ILL OR INJURED HOUSEHOLD MEMBERS

Table 4.2 presents information about disability among household members who were ill or injured in the 30 days prior to the survey. It is worth noting that respondents were not asked the order in which these two morbidities occurred. Therefore, the relationship between disability and illness or injury as discussed here is purely an association and does not indicate cause and effect.

Table 4.2 Disability among the ill or injured population

Among the de jure household population age 5 and over who were ill or injured in the 30 days before the survey, percentage with specific types of physical disabilities, according to background characteristics, Cambodia 2014

| Background characteristic                       | Some difficulty, a lot of difficulty, or cannot do |            |        |         |         |               |           |               | A lot of difficulty or cannot do |        |         |         |               |           |               | Number |
|---|--|------------|--------|---------|---------|---------------|-----------|---------------|----------------------------------|--------|---------|---------|---------------|-----------|---------------|--------|
|   | No difficulties                                    | Any domain | Seeing | Hearing | Walking | Concentrating | Self-care | Communicating | Any domain                       | Seeing | Hearing | Walking | Concentrating | Self-care | Communicating |        |
| <b>Sought advice or health facility contact</b> |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| Did not seek treatment                          | 64.4   | 33.2       | 20.2   | 8.9     | 18.3    | 18.7          | 3.9       | 7.4           | 7.0                              | 3.5    | 3.7     | 3.8     | 3.0           | 2.5       | 4.0           | 418    |
| Public sector                                   | 77.5   | 21.3       | 12.3   | 6.6     | 11.4    | 11.0          | 4.7       | 5.1           | 7.0                              | 2.4    | 2.0     | 3.3     | 1.4           | 2.3       | 1.9           | 1,590  |
| Private pharmacy                                | 80.4   | 17.6       | 9.7    | 4.5     | 6.8     | 9.2           | 2.8       | 2.8           | 5.5                              | 2.1    | 1.1     | 2.4     | 2.0           | 1.2       | 1.2           | 1,384  |
| Other private facilities                        | 78.1   | 20.0       | 11.3   | 6.7     | 10.3    | 9.3           | 2.7       | 3.0           | 5.7                              | 2.2    | 1.1     | 2.9     | 1.6           | 1.2       | 1.2           | 3,903  |
| Other/missing                                   | 75.7   | 21.6       | 13.6   | 4.9     | 9.2     | 8.2           | 1.0       | 1.3           | 3.2                              | 1.1    | 0.5     | 2.0     | 0.5           | 0.5       | 0.4           | 558    |
| <b>Transport cost</b>                           |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| Free/no cost                                    | 77.2   | 20.6       | 12.5   | 6.0     | 9.9     | 9.7           | 2.9       | 2.9           | 5.8                              | 2.9    | 1.1     | 2.9     | 1.3           | 1.5       | 0.9           | 2,393  |
| Paid money                                      | 78.6   | 19.7       | 10.9   | 6.2     | 9.8     | 9.6           | 3.1       | 3.5           | 5.7                              | 1.8    | 1.3     | 2.8     | 1.7           | 1.3       | 1.5           | 4,980  |
| Other/don't know/missing                        | 66.9   | 30.7       | 17.9   | 8.9     | 16.8    | 16.7          | 4.1       | 6.9           | 6.8                              | 3.1    | 3.2     | 4.0     | 2.9           | 2.6       | 3.9           | 480    |
| <b>Treatment cost</b>                           |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| Free/no cost                                    | 74.6   | 23.7       | 13.1   | 7.0     | 12.7    | 12.4          | 4.7       | 5.0           | 5.3                              | 1.9    | 1.9     | 2.1     | 1.2           | 2.1       | 1.3           | 542    |
| Paid money                                      | 78.5   | 19.6       | 11.2   | 6.1     | 9.6     | 9.3           | 2.9       | 3.2           | 5.8                              | 2.2    | 1.2     | 2.8     | 1.6           | 1.4       | 1.3           | 6,842  |
| Other/don't know/missing                        | 65.1   | 32.4       | 19.3   | 8.3     | 17.7    | 17.4          | 4.1       | 7.0           | 7.1                              | 3.1    | 3.3     | 4.0     | 2.7           | 2.4       | 4.0           | 468    |
| <b>Health care financing mechanism</b>          |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| Health equity fund                              | 72.2   | 25.2       | 13.0   | 6.3     | 16.8    | 11.1          | 3.3       | 3.3           | 6.2                              | 1.7    | 1.9     | 2.8     | 1.0           | 1.3       | 1.0           | 315    |
| Other subsidy                                   | 74.4   | 20.9       | 15.6   | 2.8     | 5.4     | 5.7           | 1.3       | 2.5           | 0.0                              | 0.0    | 0.0     | 0.0     | 0.0           | 0.0       | 0.0           | 102    |
| Insurance                                       | (77.2)   | 22.8       | 20.8   | 10.4    | 10.4    | 9.0           | 0.0       | 0.0           | 0.0                              | 0.0    | 0.0     | 0.0     | 0.0           | 0.0       | 0.0           | 41     |
| Out of pocket                                   | 77.8   | 20.4       | 11.7   | 6.3     | 10.0    | 10.0          | 3.1       | 3.6           | 5.9                              | 2.3    | 1.4     | 2.9     | 1.7           | 1.5       | 1.5           | 7,381  |
| Total   | 77.5   | 20.7       | 11.8   | 6.3     | 10.3    | 10.0          | 3.1       | 3.5           | 5.8                              | 2.2    | 1.4     | 2.9     | 1.6           | 1.5       | 1.4           | 7,852  |

Note: Total includes 14 cases for which information on health care financing mechanism is missing. Figures in parentheses are based on 25-49 unweighted cases.



The prevalence of disability among ill or injured household members is about two times higher than that among the general household population (21 percent versus 10 percent). Difficulties in seeing (12 percent), walking or climbing stairs (10 percent), and remembering or concentrating (10 percent) are the most common types of disabilities reported among the ill and injured population.

According to source of treatment, level of disability is higher among those who did not seek any treatment for their illness or injury (33 percent) than among those who sought treatment in a public health facility (21 percent), a private facility (20 percent), or a pharmacy (18 percent). The percentage of people with a disability is slightly higher among those who received free treatment for their illness or injury than among those who paid for treatment (24 percent versus 20 percent). However, the difference in prevalence by cost of transport is minimal. The prevalence of disability among ill or injured people by type of health care financing shows that the percentage with a disability is slightly higher among those for whom the cost of treatment for their illness or injury was paid by a health equity fund (25 percent) than among those who received other forms of subsidies (21 percent), those who have insurance (23 percent), and those who paid out of their pocket for the treatment of their illness or injury (20 percent).

Six percent of ill and injured household members suffer from more severe disabilities (i.e., they have a great deal of difficulty or cannot perform the function at all). Similar to the general population, this finding indicates that the majority of ill or injured people experience a moderate level of disability. The distribution of more severe disability among the ill or injured population by background characteristics follows somewhat the same pattern observed for overall disability.

### 4.3 DISABILITY AND EMPLOYMENT

Table 4.3 presents information about disability by type of employment. Since information on employment was collected only among interviewed women and men age 15-49, this table provides data on disability and employment among only household members age 15-49 who were eligible for an individual interview and completed the interview.

Table 4.3 Disability and employment

Percentage of interviewed women and men age 15-49 with a physical disability according to employment status, Cambodia 2014

| Employment status                                  | Some difficulty, a lot of difficulty, or cannot do |            |        |         |         |               |           |               | A lot of difficulty or cannot do |        |         |         |               |           |               | Number |
|--|--|------------|--------|---------|---------|---------------|-----------|---------------|----------------------------------|--------|---------|---------|---------------|-----------|---------------|--------|
|  | No difficulties                                    | Any domain | Seeing | Hearing | Walking | Concentrating | Self-care | Communicating | Any domain                       | Seeing | Hearing | Walking | Concentrating | Self-care | Communicating |        |
| WOMEN  |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| Employed in the 12 months preceding the survey     |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| Currently employed <sup>1</sup>                    | 95.1   | 4.9        | 2.3    | 0.9     | 1.0     | 1.8           | 0.0       | 0.3           | 0.3                              | 0.1    | 0.1     | 0.1     | 0.0           | 0.0       | 0.1           | 12,436 |
| Not currently employed                             | 94.4   | 5.6        | 2.7    | 1.0     | 1.9     | 2.2           | 0.0       | 0.2           | 0.6                              | 0.1    | 0.0     | 0.2     | 0.3           | 0.0       | 0.1           | 1,542  |
| Not employed in the 12 months preceding the survey |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
|  | 93.8   | 6.2        | 2.4    | 0.8     | 2.0     | 2.7           | 0.4       | 0.8           | 1.1                              | 0.3    | 0.1     | 0.7     | 0.2           | 0.1       | 0.3           | 3,599  |
| Total  | 94.7   | 5.3        | 2.3    | 0.9     | 1.3     | 2.0           | 0.1       | 0.4           | 0.5                              | 0.2    | 0.1     | 0.2     | 0.1           | 0.0       | 0.1           | 17,578 |
| MEN  |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| Employed in the 12 months preceding the survey     |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
| Currently employed <sup>1</sup>                    | 95.2   | 4.7        | 1.8    | 0.9     | 1.2     | 1.6           | 0.3       | 0.2           | 0.4                              | 0.2    | 0.0     | 0.2     | 0.1           | 0.1       | 0.0           | 4,547  |
| Not currently employed                             | 89.8   | 10.2       | 2.5    | 4.4     | 2.3     | 3.8           | 0.9       | 0.2           | 0.0                              | 0.0    | 0.0     | 0.0     | 0.0           | 0.0       | 0.0           | 271    |
| Not employed in the 12 months preceding the survey |  |            |        |         |         |               |           |               |                                  |        |         |         |               |           |               |        |
|  | 94.8   | 5.2        | 1.4    | 0.2     | 3.0     | 1.7           | 0.3       | 1.1           | 2.0                              | 1.0    | 0.2     | 0.7     | 0.3           | 0.0       | 0.3           | 372    |
| Total  | 94.9   | 5.0        | 1.8    | 1.0     | 1.4     | 1.7           | 0.3       | 0.3           | 0.5                              | 0.2    | 0.0     | 0.2     | 0.1           | 0.1       | 0.0           | 5,190  |

Note: Total includes 1 woman for whom information on employment is missing.

<sup>1</sup> "Currently employed" is defined as having done work in the past 7 days. Includes persons who did not work in the past 7 days but who are regularly employed and were absent from work for leave, illness, vacation, or any other such reason.

According to the 2014 CDHS, only 5 percent of interviewed women and men age 15-49 suffer from at least one form of disability. Difficulties in seeing and concentrating (2 percent each) are the most common types of disabilities reported among these women and men.

The prevalence of disability among women who are currently employed is 5 percent, slightly lower than among those who are not currently employed and those who were not employed in the 12 months preceding the survey (6 percent each). Men who are not currently employed are twice as likely to be disabled as men who are currently employed and those not employed in the 12 months preceding the survey (10 percent versus 5 percent each). Severe disability is only reported for less than 1 percent among this group.



## RESPONDENT CHARACTERISTICS

### Key Findings

- Thirteen percent of women and 6 percent of men age 15-49 have no education; an additional 40 percent and 52 percent have at least some secondary education.
- Twenty-one percent of women and 25 percent of men age 15-49 are exposed to at least one source of mass media once a week.
- Only 16 percent of Cambodian women and 13 percent of men are covered by health insurance.
- Sixty-nine percent of women were employed in the 12 months preceding the survey, with the majority (57 percent of women) employed in the agricultural sector.
- Nearly half of working women (44 percent) work in the agricultural sector, and about three in four of these women are self-employed.

This chapter provides a demographic and socioeconomic profile of respondents interviewed in the 2014 Cambodia Demographic and Health Survey (CDHS). Such background information is essential to interpret the findings and understand the results presented later in the report. Basic characteristics of respondents include age, level of education, marital status, religion, and wealth status. Exposure to mass media and literacy status were examined, and detailed information was collected on employment status, occupation, and earnings. In addition, the CDHS collected data on knowledge and attitudes concerning health insurance coverage and use of tobacco.

### 5.1 CHARACTERISTICS OF SURVEY RESPONDENTS

Background characteristics of the 17,578 women age 15-49 and the 5,190 men age 15-49 interviewed in the 2014 CDHS are shown in Table 5.1. This table is important because it provides background for interpreting findings presented later in the report.

The distribution of the population of women and men by age reflects recent Cambodian history. It is notable that 16-18 percent of women and men fall into each of the age groups between 15-19 and 30-34. Smaller proportions are found in the older age groups. Between 11 and 12 percent of women and men fall into each of the five-year age groups between 35 and 49. This age distribution of respondents is unusual and reflects the effects of the Khmer Rouge regime (1975-1979), during which fertility rates declined and were coupled with higher than normal mortality. Between one and two million people are estimated to have been killed during the reign of the Khmer Rouge. These events are reflected in the smaller than expected proportions of women and men in the age groups between 35 and 49.

Approximately 68 percent of women and 66 percent of men are married or living with their partner. The proportion not currently married varies by gender, with 25 percent of women never married compared with 32 percent of men. Women are more than three times as likely as men to be divorced, separated, or widowed (7 percent and 2 percent, respectively).

Access to services and exposure to information pertaining to reproductive health and other aspects of life are often determined by one's area of residence. The majority of respondents reside in rural areas, with only 19 percent of women and 17 percent of men residing in urban areas. About 12 percent of women and 13 percent of men live in Kampong Cham, and 11 percent of each live in the capital city of Phnom Penh. Cambodians are predominantly Buddhist (96 percent of women and 95 percent of men). The other two main religions, Islam and Christianity, are practiced by a very small proportion of respondents (Table 5.1).

Table 5.1 Background characteristics of respondents

Percent distribution of women and men age 15-49 by selected background characteristics, Cambodia 2014

| Background characteristic | Women            |                 |                   | Men              |                 |                   |
|---------------------------|------------------|-----------------|-------------------|------------------|-----------------|-------------------|
|                           | Weighted percent | Weighted number | Unweighted number | Weighted percent | Weighted number | Unweighted number |
| <b>Age</b>                |                  |                 |                   |                  |                 |                   |
| 15-19                     | 16.5             | 2,893           | 3,006             | 17.8             | 926             | 946               |
| 20-24                     | 17.2             | 3,017           | 3,038             | 16.1             | 835             | 881               |
| 25-29                     | 16.1             | 2,836           | 2,866             | 15.7             | 815             | 796               |
| 30-34                     | 17.3             | 3,046           | 2,996             | 17.5             | 907             | 888               |
| 35-39                     | 10.5             | 1,839           | 1,776             | 10.7             | 556             | 528               |
| 40-44                     | 11.6             | 2,030           | 1,995             | 11.5             | 595             | 603               |
| 45-49                     | 10.9             | 1,916           | 1,901             | 10.7             | 556             | 548               |
| <b>Religion</b>           |                  |                 |                   |                  |                 |                   |
| Buddhist                  | 96.0             | 16,882          | 16,699            | 95.4             | 4,949           | 4,888             |
| Moslem                    | 1.9              | 335             | 338               | 2.6              | 133             | 124               |
| Christian                 | 0.9              | 157             | 151               | 0.9              | 47              | 48                |
| Other/missing             | 1.2              | 204             | 390               | 1.2              | 61              | 130               |
| <b>Marital status</b>     |                  |                 |                   |                  |                 |                   |
| Never married             | 25.2             | 4,428           | 4,651             | 32.0             | 1,663           | 1,746             |
| Married                   | 67.2             | 11,808          | 11,574            | 65.3             | 3,388           | 3,306             |
| Living together           | 0.5              | 91              | 94                | 0.3              | 17              | 14                |
| Divorced/separated        | 3.8              | 664             | 697               | 1.8              | 95              | 97                |
| Widowed                   | 3.3              | 588             | 562               | 0.5              | 26              | 27                |
| <b>Residence</b>          |                  |                 |                   |                  |                 |                   |
| Urban                     | 18.5             | 3,251           | 5,667             | 16.7             | 869             | 1,540             |
| Rural                     | 81.5             | 14,327          | 11,911            | 83.3             | 4,321           | 3,650             |
| <b>Province</b>           |                  |                 |                   |                  |                 |                   |
| Banteay Meanchey          | 3.9              | 689             | 810               | 3.7              | 192             | 223               |
| Kampong Cham              | 11.5             | 2,021           | 853               | 12.8             | 663             | 300               |
| Kampong Chhnang           | 3.8              | 662             | 899               | 3.5              | 182             | 251               |
| Kampong Speu              | 6.8              | 1,196           | 1,022             | 6.2              | 323             | 269               |
| Kampong Thom              | 4.8              | 851             | 905               | 4.5              | 232             | 261               |
| Kandal                    | 7.6              | 1,330           | 875               | 8.0              | 413             | 239               |
| Kratie                    | 2.8              | 488             | 874               | 2.8              | 143             | 258               |
| Phnom Penh                | 11.3             | 1,994           | 1,400             | 10.6             | 550             | 391               |
| Prey Veng                 | 6.8              | 1,188           | 819               | 6.6              | 342             | 244               |
| Pursat                    | 3.6              | 631             | 859               | 3.5              | 184             | 261               |
| Siem Reap                 | 6.5              | 1,137           | 943               | 6.5              | 337             | 282               |
| Svay Rieng                | 3.7              | 654             | 822               | 3.5              | 183             | 237               |
| Takeo                     | 6.2              | 1,082           | 868               | 6.4              | 334             | 252               |
| Otdar Meanchey            | 1.7              | 294             | 823               | 1.9              | 99              | 277               |
| Battambang/Pailin         | 7.6              | 1,333           | 867               | 7.8              | 405             | 249               |
| Kampot/Kep                | 4.4              | 770             | 880               | 4.6              | 241             | 284               |
| Preah Sihanouk/Koh Kong   | 2.4              | 422             | 1,010             | 2.3              | 120             | 288               |
| Preah Vihear/Stung Treng  | 2.6              | 462             | 1,085             | 2.2              | 112             | 274               |
| Mondul Kiri/Ratanak Kiri  | 2.1              | 372             | 964               | 2.6              | 134             | 350               |
| <b>Education</b>          |                  |                 |                   |                  |                 |                   |
| No education              | 12.8             | 2,250           | 2,233             | 6.2              | 324             | 327               |
| Primary                   | 47.1             | 8,281           | 7,826             | 41.8             | 2,167           | 2,026             |
| Secondary and higher      | 40.1             | 7,047           | 7,519             | 52.0             | 2,699           | 2,837             |
| <b>Wealth quintile</b>    |                  |                 |                   |                  |                 |                   |
| Lowest                    | 17.9             | 3,143           | 3,050             | 17.4             | 901             | 885               |
| Second                    | 18.9             | 3,314           | 3,057             | 18.4             | 954             | 930               |
| Middle                    | 19.2             | 3,381           | 2,798             | 20.0             | 1,040           | 867               |
| Fourth                    | 20.6             | 3,612           | 3,450             | 21.7             | 1,124           | 1,037             |
| Highest                   | 23.5             | 4,128           | 5,223             | 22.6             | 1,171           | 1,471             |
| Total                     | 100.0            | 17,578          | 17,578            | 100.0            | 5,190           | 5,190             |

Note: Education categories refer to the highest level of education attended, whether or not that level was completed.

The majority of Cambodians have some formal schooling, and educational levels of women have improved within the past 10 years. The percentage of women with no schooling declined from 28 percent in the 2000 CDHS to 19 percent in the 2005 CDHS, declined further to 16 percent in the 2010 CDHS, and finished at 13 percent in the 2014 CDHS. Moreover, the percentage of women who had at least some secondary education increased from 25 percent in 2005, to 35 percent in 2010, and reached 40 percent in 2014. However, Table 5.1 shows there are still notable differences in educational attainment between women and men. Twice as many women as men have no schooling (13 percent versus 6 percent), and men are more likely than women to have secondary education or higher (52 percent versus 40 percent).

## 5.2 EDUCATIONAL ATTAINMENT AND LITERACY

Tables 5.2.1 and 5.2.2 present a detailed distribution of educational attainment among Cambodian women and men, according to background characteristics. The general pattern evident in Table 5.2.1 indicates a decrease in the proportion of women with no schooling from the oldest to the youngest cohorts. Men, with the exception of those in the 40-44 age group, exhibit the same pattern (Table 5.2.2). The data presented in Tables 5.2.1 and 5.2.2 provide evidence of an increase in educational attainment among the youngest age cohort. For example, 68 percent of women age 15-19 have attended secondary school, as compared with only 58 percent of women age 20-24. A similar trend is seen in young men, with 66 percent of those age 15-19 and 62 percent of those age 20-24 having attended some secondary school.

**Table 5.2.1 Educational attainment: Women**

Percent distribution of women age 15-49 by highest level of schooling attended or completed, and median years completed, according to background characteristics, Cambodia 2014

| Background characteristic | Highest level of schooling |              |                                |                |                                  |                     | Total | Median years completed | Number of women |
|---------------------------|----------------------------|--------------|--------------------------------|----------------|----------------------------------|---------------------|-------|------------------------|-----------------|
|                           | No education               | Some primary | Completed primary <sup>1</sup> | Some secondary | Completed secondary <sup>2</sup> | More than secondary |       |                        |                 |
| <b>Age</b>                |                            |              |                                |                |                                  |                     |       |                        |                 |
| 15-24                     | 4.1                        | 22.6         | 10.5                           | 50.2           | 5.4                              | 7.2                 | 100.0 | 6.9                    | 5,910           |
| 15-19                     | 2.8                        | 19.7         | 9.7                            | 61.8           | 3.1                              | 2.9                 | 100.0 | 7.2                    | 2,893           |
| 20-24                     | 5.3                        | 25.3         | 11.3                           | 39.2           | 7.6                              | 11.3                | 100.0 | 6.6                    | 3,017           |
| 25-29                     | 11.2                       | 36.2         | 11.0                           | 29.6           | 4.5                              | 7.6                 | 100.0 | 5.2                    | 2,836           |
| 30-34                     | 17.8                       | 46.7         | 6.6                            | 22.2           | 3.3                              | 3.4                 | 100.0 | 3.8                    | 3,046           |
| 35-39                     | 17.4                       | 53.8         | 5.8                            | 19.8           | 2.3                              | 0.9                 | 100.0 | 3.2                    | 1,839           |
| 40-44                     | 17.2                       | 51.0         | 5.3                            | 22.4           | 2.3                              | 1.8                 | 100.0 | 3.3                    | 2,030           |
| 45-49                     | 24.9                       | 55.7         | 2.9                            | 14.0           | 1.7                              | 0.7                 | 100.0 | 2.3                    | 1,916           |
| <b>Residence</b>          |                            |              |                                |                |                                  |                     |       |                        |                 |
| Urban                     | 5.4                        | 23.5         | 5.7                            | 39.8           | 8.9                              | 16.6                | 100.0 | 7.5                    | 3,251           |
| Rural                     | 14.5                       | 42.6         | 8.5                            | 29.8           | 2.6                              | 1.9                 | 100.0 | 4.3                    | 14,327          |
| <b>Province</b>           |                            |              |                                |                |                                  |                     |       |                        |                 |
| Banteay Meanchey          | 12.8                       | 46.3         | 7.1                            | 27.7           | 4.0                              | 2.1                 | 100.0 | 4.2                    | 689             |
| Kampong Cham              | 14.1                       | 43.1         | 9.9                            | 28.4           | 2.7                              | 1.8                 | 100.0 | 4.0                    | 2,021           |
| Kampong Chhnang           | 8.7                        | 41.1         | 8.7                            | 33.6           | 4.3                              | 3.5                 | 100.0 | 5.0                    | 662             |
| Kampong Speu              | 11.0                       | 39.2         | 11.2                           | 35.4           | 1.9                              | 1.3                 | 100.0 | 5.0                    | 1,196           |
| Kampong Thom              | 14.0                       | 46.9         | 8.8                            | 23.6           | 3.7                              | 3.0                 | 100.0 | 3.7                    | 851             |
| Kandal                    | 5.4                        | 42.0         | 8.5                            | 38.5           | 2.1                              | 3.6                 | 100.0 | 5.2                    | 1,330           |
| Kratie                    | 15.6                       | 50.1         | 7.7                            | 22.1           | 2.6                              | 1.9                 | 100.0 | 3.3                    | 488             |
| Phnom Penh                | 4.1                        | 23.7         | 5.3                            | 39.6           | 7.8                              | 19.5                | 100.0 | 7.6                    | 1,994           |
| Prey Veng                 | 19.1                       | 42.7         | 7.6                            | 27.3           | 2.2                              | 1.0                 | 100.0 | 3.9                    | 1,188           |
| Pursat                    | 16.3                       | 41.0         | 10.5                           | 26.5           | 4.0                              | 1.7                 | 100.0 | 4.2                    | 631             |
| Siem Reap                 | 25.4                       | 38.4         | 6.8                            | 22.0           | 3.9                              | 3.4                 | 100.0 | 3.3                    | 1,137           |
| Svay Rieng                | 6.0                        | 50.7         | 8.1                            | 30.6           | 2.1                              | 2.5                 | 100.0 | 4.2                    | 654             |
| Takeo                     | 11.7                       | 32.6         | 6.1                            | 40.8           | 5.3                              | 3.5                 | 100.0 | 5.6                    | 1,082           |
| Otdar Meanchey            | 26.4                       | 37.2         | 7.8                            | 24.9           | 2.8                              | 0.9                 | 100.0 | 3.3                    | 294             |
| Battambang/Pailin         | 10.0                       | 35.1         | 7.9                            | 36.6           | 5.1                              | 5.3                 | 100.0 | 5.6                    | 1,333           |
| Kampot/Kep                | 8.5                        | 39.9         | 7.4                            | 37.3           | 3.9                              | 3.0                 | 100.0 | 5.2                    | 770             |
| Preah Sihanouk/Koh Kong   | 9.6                        | 38.8         | 9.6                            | 32.3           | 4.0                              | 5.6                 | 100.0 | 5.2                    | 422             |
| Preah Vihear/Stung Treng  | 23.7                       | 45.1         | 7.1                            | 19.7           | 2.2                              | 2.1                 | 100.0 | 2.8                    | 462             |
| Mondul Kiri/Ratanak Kiri  | 34.5                       | 32.9         | 6.0                            | 23.8           | 1.4                              | 1.3                 | 100.0 | 2.3                    | 372             |
| <b>Wealth quintile</b>    |                            |              |                                |                |                                  |                     |       |                        |                 |
| Lowest                    | 27.9                       | 50.4         | 7.0                            | 14.0           | 0.6                              | 0.1                 | 100.0 | 2.2                    | 3,143           |
| Second                    | 18.1                       | 48.5         | 8.9                            | 22.9           | 1.1                              | 0.4                 | 100.0 | 3.3                    | 3,314           |
| Middle                    | 10.3                       | 46.0         | 8.0                            | 33.0           | 1.9                              | 0.8                 | 100.0 | 4.5                    | 3,381           |
| Fourth                    | 7.1                        | 34.1         | 9.3                            | 40.2           | 5.2                              | 4.0                 | 100.0 | 5.8                    | 3,612           |
| Highest                   | 4.1                        | 21.7         | 6.9                            | 43.7           | 8.6                              | 15.1                | 100.0 | 7.6                    | 4,128           |
| Total                     | 12.8                       | 39.1         | 8.0                            | 31.7           | 3.8                              | 4.6                 | 100.0 | 4.8                    | 17,578          |

<sup>1</sup> Completed 6th grade at the primary level

<sup>2</sup> Completed 12th grade at the secondary level

Urban women have higher levels of education than rural women. Almost two-thirds of urban women have attended at least some secondary school, as compared with only about one-third of rural women. Tables 5.2.1 and 5.2.2 show great variation in education across provinces. Mondul Kiri/Ratanak Kiri has an exceptionally low level of educational attainment among women (35 percent of women having no formal education) whereas Siem Reap has the lowest level among men (21 percent of men having no formal education). By contrast, only 4 percent of women and less than 1 percent of men in Phnom Penh have no schooling. Median number of years of education completed is highest in Phnom Penh (7.6 for women and 9.9 for men).

Educational attainment rises dramatically with wealth quintile. Twenty-eight percent of women in the lowest quintile have no formal education, as compared with 4 percent of women in the highest wealth quintile. The percentage of women who have attended some secondary school increases from 15 percent in the lowest wealth quintile to 67 percent in the highest. The pattern of variation in educational attainment by wealth among men is similar to that among women.

**Table 5.2.2 Educational attainment: Men**

Percent distribution of men age 15-49 by highest level of schooling attended or completed, and median years completed, according to background characteristics, Cambodia 2014

| Background characteristic | Highest level of schooling |              |                                |                |                                  |                     | Total | Median years completed | Number of men |
|---------------------------|----------------------------|--------------|--------------------------------|----------------|----------------------------------|---------------------|-------|------------------------|---------------|
|                           | No education               | Some primary | Completed primary <sup>1</sup> | Some secondary | Completed secondary <sup>2</sup> | More than secondary |       |                        |               |
| <b>Age</b>                |                            |              |                                |                |                                  |                     |       |                        |               |
| 15-24                     | 3.3                        | 24.2         | 8.2                            | 50.9           | 5.2                              | 8.2                 | 100.0 | 7.0                    | 1,760         |
| 15-19                     | 2.2                        | 23.6         | 7.9                            | 59.3           | 2.8                              | 4.2                 | 100.0 | 7.0                    | 926           |
| 20-24                     | 4.5                        | 25.0         | 8.6                            | 41.5           | 7.8                              | 12.6                | 100.0 | 7.0                    | 835           |
| 25-29                     | 3.9                        | 30.4         | 9.4                            | 36.6           | 6.4                              | 13.4                | 100.0 | 6.5                    | 815           |
| 30-34                     | 8.4                        | 38.4         | 8.4                            | 30.0           | 7.0                              | 7.8                 | 100.0 | 5.3                    | 907           |
| 35-39                     | 10.3                       | 45.0         | 6.9                            | 28.0           | 5.8                              | 4.0                 | 100.0 | 4.6                    | 556           |
| 40-44                     | 8.1                        | 42.6         | 6.7                            | 29.3           | 8.3                              | 5.0                 | 100.0 | 4.9                    | 595           |
| 45-49                     | 9.6                        | 39.5         | 8.2                            | 34.6           | 4.9                              | 3.3                 | 100.0 | 5.1                    | 556           |
| <b>Residence</b>          |                            |              |                                |                |                                  |                     |       |                        |               |
| Urban                     | 1.0                        | 14.9         | 5.1                            | 42.2           | 10.0                             | 26.8                | 100.0 | 9.0                    | 869           |
| Rural                     | 7.3                        | 37.4         | 8.7                            | 37.5           | 5.3                              | 3.7                 | 100.0 | 5.5                    | 4,321         |
| <b>Province</b>           |                            |              |                                |                |                                  |                     |       |                        |               |
| Banteay Meanchey          | 7.5                        | 40.0         | 5.5                            | 38.7           | 4.2                              | 4.2                 | 100.0 | 5.3                    | 192           |
| Kampong Cham              | 5.2                        | 45.5         | 10.0                           | 30.1           | 2.5                              | 6.7                 | 100.0 | 4.9                    | 663           |
| Kampong Chhnang           | 4.6                        | 41.3         | 8.9                            | 31.4           | 7.3                              | 6.5                 | 100.0 | 5.5                    | 182           |
| Kampong Speu              | 6.7                        | 24.9         | 12.4                           | 48.6           | 5.5                              | 1.9                 | 100.0 | 6.3                    | 323           |
| Kampong Thom              | 8.7                        | 42.1         | 10.6                           | 30.5           | 3.2                              | 4.9                 | 100.0 | 4.9                    | 232           |
| Kandal                    | 2.1                        | 39.7         | 6.8                            | 40.0           | 6.5                              | 5.0                 | 100.0 | 5.5                    | 413           |
| Kratie                    | 3.6                        | 45.1         | 5.2                            | 33.2           | 8.3                              | 4.5                 | 100.0 | 5.2                    | 143           |
| Phnom Penh                | 0.3                        | 11.2         | 3.7                            | 43.4           | 10.2                             | 31.2                | 100.0 | 9.9                    | 550           |
| Prey Veng                 | 9.2                        | 25.4         | 9.0                            | 51.6           | 2.8                              | 2.1                 | 100.0 | 6.5                    | 342           |
| Pursat                    | 8.0                        | 41.3         | 12.6                           | 30.6           | 5.8                              | 1.8                 | 100.0 | 5.1                    | 184           |
| Siem Reap                 | 20.8                       | 35.5         | 9.0                            | 20.3           | 9.8                              | 4.6                 | 100.0 | 4.2                    | 337           |
| Svay Rieng                | 1.1                        | 31.6         | 7.2                            | 48.0           | 7.8                              | 4.4                 | 100.0 | 6.7                    | 183           |
| Takeo                     | 4.1                        | 29.9         | 7.9                            | 45.8           | 6.9                              | 5.4                 | 100.0 | 6.9                    | 334           |
| Otdar Meanchey            | 13.0                       | 38.4         | 8.7                            | 33.1           | 6.1                              | 0.8                 | 100.0 | 4.8                    | 99            |
| Battambang/Pailin         | 2.3                        | 29.9         | 9.0                            | 46.3           | 5.7                              | 6.8                 | 100.0 | 6.7                    | 405           |
| Kampot/Kep                | 6.1                        | 33.9         | 8.0                            | 40.6           | 8.7                              | 2.7                 | 100.0 | 6.1                    | 241           |
| Preah Sihanouk/Koh Kong   | 4.7                        | 29.0         | 8.1                            | 39.5           | 8.2                              | 10.5                | 100.0 | 6.7                    | 120           |
| Preah Vihear/Stung Treng  | 11.7                       | 53.1         | 0.8                            | 26.6           | 1.5                              | 6.4                 | 100.0 | 3.7                    | 112           |
| Mondul Kiri/Ratanak Kiri  | 16.4                       | 36.9         | 6.3                            | 30.8           | 3.9                              | 5.7                 | 100.0 | 4.6                    | 134           |
| <b>Wealth quintile</b>    |                            |              |                                |                |                                  |                     |       |                        |               |
| Lowest                    | 15.7                       | 53.4         | 8.2                            | 20.5           | 1.5                              | 0.7                 | 100.0 | 3.3                    | 901           |
| Second                    | 8.9                        | 47.7         | 10.8                           | 29.6           | 1.7                              | 1.2                 | 100.0 | 4.5                    | 954           |
| Middle                    | 5.7                        | 36.9         | 9.6                            | 41.2           | 4.5                              | 2.1                 | 100.0 | 5.6                    | 1,040         |
| Fourth                    | 2.9                        | 26.3         | 8.3                            | 49.0           | 8.2                              | 5.4                 | 100.0 | 6.9                    | 1,124         |
| Highest                   | 0.6                        | 11.1         | 4.3                            | 46.3           | 12.5                             | 25.2                | 100.0 | 9.2                    | 1,171         |
| <b>Total</b>              | 6.2                        | 33.6         | 8.1                            | 38.3           | 6.1                              | 7.6                 | 100.0 | 6.0                    | 5,190         |

<sup>1</sup> Completed 6th grade at the primary level

<sup>2</sup> Completed 12th grade at the secondary level

The 2014 CDHS assessed literacy levels among respondents who had never been to school or who had attended only primary school by asking them to read all or part of a sentence in whatever language they chose. Those with at least some secondary education were assumed to be literate. Literacy results are shown in Tables 5.3.1 and 5.3.2.

Table 5.3.1 shows that 76 percent of women are literate, and Table 5.3.2 shows that 84 percent of men are literate. For women, those in the younger age groups are more likely to be literate than those in the older age groups. Literacy increases from 62 percent among women age 45-49 to 90 percent among women age 15-19. For men the negative relationship between literacy and age is less evident. The percentage of men who are literate is highest at age group 15-19 (89 percent). It decreases gradually to 76 percent among those age 35-39; then it reverses its pattern and is 83 percent among men age 40-49.



Table 5.3.1 Literacy: Women

Percent distribution of women age 15-49 by level of schooling attended and level of literacy, and percentage literate, according to background characteristics, Cambodia 2014

| Background characteristic | Secondary school or higher | No schooling or primary school |                             |                    |                                |                         |         | Total | Percentage literate <sup>1</sup> | Number of women |
|---------------------------|----------------------------|--------------------------------|-----------------------------|--------------------|--------------------------------|-------------------------|---------|-------|----------------------------------|-----------------|
|                           |                            | Can read a whole sentence      | Can read part of a sentence | Cannot read at all | No card with required language | Blind/visually impaired | Missing |       |                                  |                 |
| <b>Age</b>                |                            |                                |                             |                    |                                |                         |         |       |                                  |                 |
| 15-24                     | 62.8                       | 12.6                           | 12.8                        | 11.7               | 0.0                            | 0.0                     | 0.0     | 100.0 | 88.2                             | 5,910           |
| 15-19                     | 67.7                       | 11.8                           | 10.2                        | 10.1               | 0.0                            | 0.1                     | 0.1     | 100.0 | 89.8                             | 2,893           |
| 20-24                     | 58.1                       | 13.4                           | 15.2                        | 13.3               | 0.0                            | 0.0                     | 0.0     | 100.0 | 86.7                             | 3,017           |
| 25-29                     | 41.6                       | 17.1                           | 20.9                        | 20.2               | 0.0                            | 0.0                     | 0.1     | 100.0 | 79.6                             | 2,836           |
| 30-34                     | 28.9                       | 18.7                           | 20.9                        | 31.5               | 0.0                            | 0.0                     | 0.1     | 100.0 | 68.5                             | 3,046           |
| 35-39                     | 23.0                       | 16.2                           | 26.2                        | 34.6               | 0.0                            | 0.0                     | 0.0     | 100.0 | 65.4                             | 1,839           |
| 40-44                     | 26.5                       | 18.7                           | 24.9                        | 29.8               | 0.0                            | 0.0                     | 0.1     | 100.0 | 70.1                             | 2,030           |
| 45-49                     | 16.4                       | 16.6                           | 29.1                        | 37.9               | 0.0                            | 0.0                     | 0.0     | 100.0 | 62.1                             | 1,916           |
| <b>Residence</b>          |                            |                                |                             |                    |                                |                         |         |       |                                  |                 |
| Urban                     | 65.4                       | 14.8                           | 10.3                        | 9.5                | 0.0                            | 0.0                     | 0.1     | 100.0 | 90.5                             | 3,251           |
| Rural                     | 34.3                       | 16.2                           | 22.3                        | 27.1               | 0.0                            | 0.0                     | 0.1     | 100.0 | 72.8                             | 14,327          |
| <b>Province</b>           |                            |                                |                             |                    |                                |                         |         |       |                                  |                 |
| Banteay Meanchey          | 33.8                       | 12.1                           | 26.6                        | 27.5               | 0.0                            | 0.0                     | 0.0     | 100.0 | 72.5                             | 689             |
| Kampong Cham              | 32.9                       | 12.0                           | 29.9                        | 25.2               | 0.0                            | 0.0                     | 0.0     | 100.0 | 74.8                             | 2,021           |
| Kampong Chhnang           | 41.5                       | 14.0                           | 24.9                        | 19.5               | 0.0                            | 0.0                     | 0.0     | 100.0 | 80.5                             | 662             |
| Kampong Speu              | 38.5                       | 15.0                           | 18.6                        | 27.8               | 0.0                            | 0.0                     | 0.0     | 100.0 | 72.2                             | 1,196           |
| Kampong Thom              | 30.3                       | 18.7                           | 30.1                        | 20.9               | 0.0                            | 0.0                     | 0.0     | 100.0 | 79.1                             | 851             |
| Kandal                    | 44.2                       | 27.2                           | 8.1                         | 20.3               | 0.0                            | 0.0                     | 0.2     | 100.0 | 79.5                             | 1,330           |
| Kratie                    | 26.6                       | 28.4                           | 15.0                        | 29.8               | 0.0                            | 0.0                     | 0.3     | 100.0 | 69.9                             | 488             |
| Phnom Penh                | 66.9                       | 17.2                           | 7.2                         | 8.6                | 0.0                            | 0.0                     | 0.1     | 100.0 | 91.3                             | 1,994           |
| Prey Veng                 | 30.6                       | 15.0                           | 22.3                        | 31.7               | 0.0                            | 0.1                     | 0.3     | 100.0 | 67.9                             | 1,188           |
| Pursat                    | 32.2                       | 4.7                            | 35.4                        | 27.7               | 0.0                            | 0.0                     | 0.0     | 100.0 | 72.3                             | 631             |
| Siem Reap                 | 29.3                       | 16.4                           | 21.4                        | 33.0               | 0.0                            | 0.0                     | 0.0     | 100.0 | 67.0                             | 1,137           |
| Svay Rieng                | 35.2                       | 19.8                           | 19.2                        | 25.7               | 0.0                            | 0.2                     | 0.0     | 100.0 | 74.2                             | 654             |
| Takeo                     | 49.5                       | 12.3                           | 18.1                        | 20.0               | 0.0                            | 0.0                     | 0.0     | 100.0 | 80.0                             | 1,082           |
| Otdar Meanchey            | 28.6                       | 2.3                            | 27.7                        | 41.2               | 0.2                            | 0.0                     | 0.0     | 100.0 | 58.6                             | 294             |
| Battambang/Pailin         | 47.0                       | 22.2                           | 14.9                        | 15.9               | 0.0                            | 0.0                     | 0.0     | 100.0 | 84.1                             | 1,333           |
| Kampot/Kep                | 44.2                       | 12.2                           | 21.2                        | 22.5               | 0.0                            | 0.0                     | 0.0     | 100.0 | 77.5                             | 770             |
| Preah Sihanouk/Koh Kong   | 42.0                       | 14.6                           | 27.3                        | 16.0               | 0.0                            | 0.0                     | 0.1     | 100.0 | 83.9                             | 422             |
| Preah Vihear/Stung Treng  | 24.1                       | 15.7                           | 14.6                        | 45.2               | 0.4                            | 0.0                     | 0.0     | 100.0 | 54.4                             | 462             |
| Mondul Kiri/Ratanak Kiri  | 26.5                       | 2.1                            | 24.5                        | 46.9               | 0.0                            | 0.0                     | 0.0     | 100.0 | 53.1                             | 372             |
| <b>Wealth quintile</b>    |                            |                                |                             |                    |                                |                         |         |       |                                  |                 |
| Lowest                    | 14.7                       | 12.5                           | 27.4                        | 45.3               | 0.0                            | 0.1                     | 0.0     | 100.0 | 54.6                             | 3,143           |
| Second                    | 24.4                       | 17.0                           | 24.4                        | 34.0               | 0.1                            | 0.0                     | 0.0     | 100.0 | 65.8                             | 3,314           |
| Middle                    | 35.7                       | 17.8                           | 23.6                        | 22.8               | 0.0                            | 0.0                     | 0.1     | 100.0 | 77.1                             | 3,381           |
| Fourth                    | 49.5                       | 16.6                           | 17.8                        | 16.0               | 0.0                            | 0.0                     | 0.1     | 100.0 | 83.9                             | 3,612           |
| Highest                   | 67.4                       | 15.5                           | 10.0                        | 7.0                | 0.0                            | 0.0                     | 0.0     | 100.0 | 92.9                             | 4,128           |
| Total                     | 40.1                       | 15.9                           | 20.1                        | 23.9               | 0.0                            | 0.0                     | 0.1     | 100.0 | 76.1                             | 17,578          |

<sup>1</sup> Refers to women who attended secondary school or higher and women who can read a whole sentence or part of a sentence

Ninety-one percent of women residing in urban areas are literate, as compared with 73 percent of their rural counterparts. Similarly, urban men show higher rates of literacy than rural men (95 percent and 82 percent, respectively). Differences in literacy across provinces are marked, with the highest literacy rate among women in Phnom Penh (91 percent) and the lowest among women in Mondul Kiri/Ratanak Kiri (53 percent). Among men, literacy is also highest in Phnom Penh (96 percent) and lowest in Preah Vihear/Stung Treng (76 percent). Literacy levels increase along with wealth status among both women and men. For example, literacy levels increase from 55 percent among women in the lowest wealth quintile to 93 percent among women in the highest wealth quintile and from 67 percent among men in the lowest wealth quintile to 98 percent among men in the highest wealth quintile.

Women's overall literacy rate has continued to increase since the 2000 CDHS (67 percent in 2000 versus 69 percent in 2005, 74 percent in 2010, and 76 percent in 2014). The difference in the literacy rates among Cambodian men between 2010 (83 percent) and 2014 (84 percent) is very minimal.

Table 5.3.2 Literacy: Men

Percent distribution of men age 15-49 by level of schooling attended and level of literacy, and percentage literate, according to background characteristics, Cambodia 2014

| Background characteristic | Secondary school or higher | No schooling or primary school |                             |                    |                                |                         | Missing | Total | Percentage literate <sup>1</sup> | Number of men |
|---------------------------|----------------------------|--------------------------------|-----------------------------|--------------------|--------------------------------|-------------------------|---------|-------|----------------------------------|---------------|
|                           |                            | Can read a whole sentence      | Can read part of a sentence | Cannot read at all | No card with required language | Blind/visually impaired |         |       |                                  |               |
| Age                       |                            |                                |                             |                    |                                |                         |         |       |                                  |               |
| 15-24                     | 64.3                       | 6.1                            | 17.8                        | 11.8               | 0.1                            | 0.0                     | 0.0     | 100.0 | 88.1                             | 1,760         |
| 15-19                     | 66.4                       | 6.1                            | 16.4                        | 11.0               | 0.2                            | 0.0                     | 0.0     | 100.0 | 88.8                             | 926           |
| 20-24                     | 61.9                       | 6.1                            | 19.3                        | 12.7               | 0.0                            | 0.0                     | 0.0     | 100.0 | 87.3                             | 835           |
| 25-29                     | 56.4                       | 11.3                           | 18.9                        | 13.0               | 0.0                            | 0.4                     | 0.0     | 100.0 | 86.6                             | 815           |
| 30-34                     | 44.8                       | 13.3                           | 22.5                        | 19.3               | 0.1                            | 0.0                     | 0.0     | 100.0 | 80.6                             | 907           |
| 35-39                     | 37.7                       | 16.4                           | 22.3                        | 23.6               | 0.0                            | 0.0                     | 0.0     | 100.0 | 76.4                             | 556           |
| 40-44                     | 42.7                       | 13.8                           | 26.2                        | 17.2               | 0.0                            | 0.0                     | 0.1     | 100.0 | 82.6                             | 595           |
| 45-49                     | 42.8                       | 15.6                           | 24.7                        | 16.9               | 0.0                            | 0.0                     | 0.0     | 100.0 | 83.1                             | 556           |
| Residence                 |                            |                                |                             |                    |                                |                         |         |       |                                  |               |
| Urban                     | 78.9                       | 6.7                            | 9.1                         | 5.3                | 0.0                            | 0.0                     | 0.0     | 100.0 | 94.7                             | 869           |
| Rural                     | 46.6                       | 12.1                           | 23.4                        | 17.8               | 0.1                            | 0.1                     | 0.0     | 100.0 | 82.0                             | 4,321         |
| Province                  |                            |                                |                             |                    |                                |                         |         |       |                                  |               |
| Banteay Meanchey          | 47.0                       | 1.1                            | 36.2                        | 15.6               | 0.0                            | 0.0                     | 0.0     | 100.0 | 84.4                             | 192           |
| Kampong Cham              | 39.3                       | 17.4                           | 24.6                        | 18.2               | 0.0                            | 0.5                     | 0.0     | 100.0 | 81.3                             | 663           |
| Kampong Chhnang           | 45.2                       | 13.0                           | 25.2                        | 16.1               | 0.0                            | 0.0                     | 0.5     | 100.0 | 83.4                             | 182           |
| Kampong Speu              | 56.0                       | 5.7                            | 17.8                        | 20.5               | 0.0                            | 0.0                     | 0.0     | 100.0 | 79.5                             | 323           |
| Kampong Thom              | 38.6                       | 23.4                           | 22.3                        | 15.7               | 0.0                            | 0.0                     | 0.0     | 100.0 | 84.3                             | 232           |
| Kandal                    | 51.5                       | 12.3                           | 14.7                        | 21.5               | 0.0                            | 0.0                     | 0.0     | 100.0 | 78.5                             | 413           |
| Kratie                    | 46.1                       | 13.0                           | 24.6                        | 16.3               | 0.0                            | 0.0                     | 0.0     | 100.0 | 83.7                             | 143           |
| Phnom Penh                | 84.8                       | 4.5                            | 6.3                         | 4.4                | 0.0                            | 0.0                     | 0.0     | 100.0 | 95.6                             | 550           |
| Prey Veng                 | 56.5                       | 7.8                            | 20.5                        | 15.2               | 0.0                            | 0.0                     | 0.0     | 100.0 | 84.8                             | 342           |
| Pursat                    | 38.2                       | 16.1                           | 30.2                        | 15.5               | 0.0                            | 0.0                     | 0.0     | 100.0 | 84.5                             | 184           |
| Siem Reap                 | 34.7                       | 9.8                            | 36.1                        | 19.0               | 0.5                            | 0.0                     | 0.0     | 100.0 | 80.5                             | 337           |
| Svay Rieng                | 60.1                       | 11.9                           | 14.6                        | 13.3               | 0.0                            | 0.0                     | 0.0     | 100.0 | 86.7                             | 183           |
| Takeo                     | 58.1                       | 10.5                           | 13.6                        | 17.8               | 0.0                            | 0.0                     | 0.0     | 100.0 | 82.2                             | 334           |
| Otdar Meanchey            | 40.0                       | 3.1                            | 38.9                        | 17.9               | 0.0                            | 0.0                     | 0.0     | 100.0 | 82.1                             | 99            |
| Battambang/Pailin         | 58.8                       | 22.5                           | 8.2                         | 10.5               | 0.0                            | 0.0                     | 0.0     | 100.0 | 89.5                             | 405           |
| Kampot/Kep                | 52.0                       | 0.6                            | 29.2                        | 18.3               | 0.0                            | 0.0                     | 0.0     | 100.0 | 81.7                             | 241           |
| Preah Sihanouk/Koh Kong   | 58.2                       | 20.6                           | 12.5                        | 8.7                | 0.0                            | 0.0                     | 0.0     | 100.0 | 91.3                             | 120           |
| Preah Vihear/Stung Treng  | 34.5                       | 5.1                            | 35.9                        | 24.5               | 0.0                            | 0.0                     | 0.0     | 100.0 | 75.5                             | 112           |
| Mondul Kiri/Ratanak Kiri  | 40.4                       | 0.0                            | 39.8                        | 19.4               | 0.4                            | 0.0                     | 0.0     | 100.0 | 80.2                             | 134           |
| Wealth quintile           |                            |                                |                             |                    |                                |                         |         |       |                                  |               |
| Lowest                    | 22.8                       | 11.6                           | 33.0                        | 32.6               | 0.1                            | 0.0                     | 0.0     | 100.0 | 67.4                             | 901           |
| Second                    | 32.6                       | 14.0                           | 31.2                        | 22.0               | 0.2                            | 0.0                     | 0.0     | 100.0 | 77.8                             | 954           |
| Middle                    | 47.7                       | 14.2                           | 21.1                        | 17.0               | 0.0                            | 0.0                     | 0.1     | 100.0 | 83.0                             | 1,040         |
| Fourth                    | 62.5                       | 10.8                           | 17.0                        | 9.5                | 0.0                            | 0.3                     | 0.0     | 100.0 | 90.2                             | 1,124         |
| Highest                   | 84.0                       | 6.3                            | 7.1                         | 2.5                | 0.0                            | 0.0                     | 0.0     | 100.0 | 97.5                             | 1,171         |
| Total                     | 52.0                       | 11.2                           | 21.0                        | 15.7               | 0.0                            | 0.1                     | 0.0     | 100.0 | 84.1                             | 5,190         |

<sup>1</sup> Refers to men who attended secondary school or higher and men who can read a whole sentence or part of a sentence

## 5.3 ACCESS TO MASS MEDIA

The 2014 CDHS collected information on the exposure of respondents to both broadcast and print media. This information is important because it provides an indication of the exposure of women to mass media that can be used to disseminate family planning, health, and other information. Access to mass media is relatively high in Cambodia. Table 5.4.1 shows that 69 percent of women have some weekly exposure to mass media. Watching television is the most common way of accessing the media: 61 percent of women watch television at least once a week. Listening to the radio is also common (32 percent of women listen at least once a week), with newspapers being the least utilized form of media (8 percent read a newspaper at least once a week).

There is no strong pattern in access to the three types of media by age. The youngest group of women (age 15-19) is most likely to access each form of media. However, women in the oldest age group are not always the least likely to access media. Women age 35-49 are least likely to read a newspaper at least once a week (5 percent), and women age 35-39 are least likely to listen to the radio (25 percent).

Residence, by contrast, is associated with differences in media exposure. Urban women have better access to newspaper, television, and radio sources than their rural counterparts. The percentages of urban women who read newspapers, watch television, and listen to the radio at least once per week are 22

percent, 86 percent, and 43 percent, respectively. In contrast, rural women are significantly less likely than urban women to do so (5 percent read newspapers, 55 percent watch television, and 30 percent listen to the radio).

Media exposure among women varies by province as well. Women residing in Phnom Penh have the greatest exposure to all three media (17 percent). Women residing in Kratie are least likely to be exposed to the media, with 65 percent having no weekly access to media.

Table 5.4.1 Exposure to mass media: Women

Percentage of women age 15-49 who are exposed to specific media on a weekly basis, by background characteristics, Cambodia 2014

| Background characteristic | Reads a newspaper at least once a week | Watches television at least once a week | Listens to the radio at least once a week | Accesses all three media at least once a week | Accesses none of the three media at least once a week | Number of women |
|---------------------------|--|---|---|---|---|-----------------|
| <b>Age</b>                |  |   |   |   |   |                 |
| 15-19                     | 11.4                                   | 63.6                                    | 41.5                                      | 7.0   | 26.3  | 2,893           |
| 20-24                     | 10.2                                   | 63.4                                    | 35.4                                      | 6.2   | 28.2  | 3,017           |
| 25-29                     | 8.5                                    | 61.3                                    | 30.5                                      | 4.9   | 30.7  | 2,836           |
| 30-34                     | 7.1                                    | 60.4                                    | 26.8                                      | 4.5   | 33.3  | 3,046           |
| 35-39                     | 4.7                                    | 56.7                                    | 25.2                                      | 2.8   | 37.0  | 1,839           |
| 40-44                     | 5.4                                    | 57.6                                    | 30.3                                      | 3.4   | 34.8  | 2,030           |
| 45-49                     | 4.5                                    | 56.5                                    | 34.3                                      | 2.9   | 33.2  | 1,916           |
| <b>Residence</b>          |  |   |   |   |   |                 |
| Urban                     | 21.7                                   | 85.5                                    | 42.5                                      | 13.5  | 10.7  | 3,251           |
| Rural                     | 4.7                                    | 54.8                                    | 30.1                                      | 2.8   | 36.1  | 14,327          |
| <b>Province</b>           |  |   |   |   |   |                 |
| Banteay Meanchey          | 4.6                                    | 74.9                                    | 24.9                                      | 3.1   | 19.8  | 689             |
| Kampong Cham              | 3.8                                    | 53.2                                    | 26.2                                      | 2.2   | 36.8  | 2,021           |
| Kampong Chhnang           | 6.9                                    | 41.4                                    | 34.3                                      | 4.5   | 48.5  | 662             |
| Kampong Speu              | 3.6                                    | 59.7                                    | 34.8                                      | 1.9   | 31.3  | 1,196           |
| Kampong Thom              | 5.5                                    | 58.4                                    | 36.3                                      | 3.9   | 33.2  | 851             |
| Kandal                    | 5.6                                    | 87.1                                    | 45.4                                      | 4.3   | 10.3  | 1,330           |
| Kratie                    | 2.9                                    | 18.8                                    | 24.8                                      | 1.4   | 64.5  | 488             |
| Phnom Penh                | 26.9                                   | 89.5                                    | 49.1                                      | 16.9  | 6.8   | 1,994           |
| Prey Veng                 | 3.4                                    | 68.3                                    | 34.4                                      | 2.0   | 24.8  | 1,188           |
| Pursat                    | 3.5                                    | 43.0                                    | 22.5                                      | 2.0   | 49.0  | 631             |
| Siem Reap                 | 6.8                                    | 40.5                                    | 29.6                                      | 3.9   | 46.4  | 1,137           |
| Svay Rieng                | 3.6                                    | 64.2                                    | 21.7                                      | 2.4   | 30.7  | 654             |
| Takeo                     | 5.8                                    | 65.4                                    | 24.4                                      | 4.5   | 32.3  | 1,082           |
| Otdar Meanchey            | 5.7                                    | 36.4                                    | 18.8                                      | 2.1   | 53.3  | 294             |
| Battambang/Pailin         | 11.8                                   | 76.2                                    | 41.3                                      | 6.9   | 15.3  | 1,333           |
| Kampot/Kep                | 4.5                                    | 27.4                                    | 17.7                                      | 0.1   | 58.8  | 770             |
| Preah Sihanouk/Koh Kong   | 6.7                                    | 71.7                                    | 16.3                                      | 2.9   | 24.4  | 422             |
| Preah Vihear/Stung Treng  | 2.1                                    | 21.8                                    | 22.5                                      | 0.6   | 59.8  | 462             |
| Mondul Kiri/Ratanak Kiri  | 10.8                                   | 29.4                                    | 32.2                                      | 8.2   | 53.5  | 372             |
| <b>Education</b>          |  |   |   |   |   |                 |
| No education              | 0.1                                    | 33.4                                    | 18.2                                      | 0.0   | 58.2  | 2,250           |
| Primary                   | 3.0                                    | 55.9                                    | 27.8                                      | 1.7   | 35.2  | 8,281           |
| Secondary and higher      | 16.0                                   | 74.5                                    | 42.2                                      | 10.0  | 18.3  | 7,047           |
| <b>Wealth quintile</b>    |  |   |   |   |   |                 |
| Lowest                    | 1.3                                    | 22.8                                    | 19.5                                      | 0.5   | 65.0  | 3,143           |
| Second                    | 1.8                                    | 42.4                                    | 25.7                                      | 0.8   | 45.6  | 3,314           |
| Middle                    | 3.9                                    | 62.2                                    | 33.1                                      | 1.9   | 28.5  | 3,381           |
| Fourth                    | 7.8                                    | 76.4                                    | 36.6                                      | 5.0   | 18.3  | 3,612           |
| Highest                   | 21.1                                   | 88.3                                    | 43.0                                      | 13.4  | 8.3   | 4,128           |
| Total                     | 7.9                                    | 60.5                                    | 32.3                                      | 4.8   | 31.4  | 17,578          |

Media exposure increases with both the educational level and wealth quintile of the respondent. For example, 88 percent of women in the highest wealth quintile watch television at least once per week, as compared with 23 percent of women in the lowest wealth quintile. Similarly, 75 percent of women with secondary education compared with 33 percent of women with no schooling watch television once a week. In addition, 16 percent of women with at least some secondary school read a newspaper at least once a week, as compared with 3 percent of women who have attended only primary school.

Table 5.4.2 Exposure to mass media: Men

Percentage of men age 15-49 who are exposed to specific media on a weekly basis, by background characteristics, Cambodia 2014

| Background characteristic | Reads a newspaper at least once a week | Watches television at least once a week | Listens to the radio at least once a week | Accesses all three media at least once a week | Accesses none of the three media at least once a week | Number of men |
|---------------------------|--|---|---|---|---|---------------|
| <b>Age</b>                |  |   |   |   |   |               |
| 15-19                     | 12.3                                   | 65.2                                    | 44.7                                      | 7.1   | 23.4  | 926           |
| 20-24                     | 15.5                                   | 62.1                                    | 46.3                                      | 7.8   | 23.7  | 835           |
| 25-29                     | 16.7                                   | 65.9                                    | 44.7                                      | 11.8  | 23.3  | 815           |
| 30-34                     | 16.3                                   | 62.1                                    | 41.4                                      | 7.7   | 26.2  | 907           |
| 35-39                     | 14.7                                   | 58.2                                    | 43.1                                      | 7.1   | 26.3  | 556           |
| 40-44                     | 14.4                                   | 60.9                                    | 42.5                                      | 9.5   | 27.0  | 595           |
| 45-49                     | 16.7                                   | 56.2                                    | 55.3                                      | 8.3   | 22.8  | 556           |
| <b>Residence</b>          |  |   |   |   |   |               |
| Urban                     | 30.6                                   | 74.8                                    | 49.8                                      | 14.7  | 11.3  | 869           |
| Rural                     | 12.1                                   | 59.5                                    | 44.1                                      | 7.2   | 27.3  | 4,321         |
| <b>Province</b>           |  |   |   |   |   |               |
| Banteay Meanchey          | 3.4                                    | 70.0                                    | 49.0                                      | 3.3   | 19.7  | 192           |
| Kampong Cham              | 11.0                                   | 58.0                                    | 46.8                                      | 5.3   | 26.0  | 663           |
| Kampong Chhnang           | 7.4                                    | 38.5                                    | 24.9                                      | 1.9   | 46.5  | 182           |
| Kampong Speu              | 10.2                                   | 60.3                                    | 49.3                                      | 5.1   | 22.3  | 323           |
| Kampong Thom              | 2.9                                    | 71.5                                    | 48.1                                      | 2.3   | 22.0  | 232           |
| Kandal                    | 8.4                                    | 70.5                                    | 33.8                                      | 4.4   | 22.4  | 413           |
| Kratie                    | 7.6                                    | 27.9                                    | 30.7                                      | 4.2   | 58.8  | 143           |
| Phnom Penh                | 26.7                                   | 69.1                                    | 44.4                                      | 9.6   | 12.9  | 550           |
| Prey Veng                 | 2.6                                    | 53.8                                    | 25.9                                      | 0.5   | 34.1  | 342           |
| Pursat                    | 5.4                                    | 76.4                                    | 68.1                                      | 5.1   | 18.1  | 184           |
| Siem Reap                 | 24.5                                   | 31.9                                    | 27.2                                      | 7.9   | 46.2  | 337           |
| Svay Rieng                | 2.6                                    | 50.8                                    | 29.3                                      | 0.7   | 36.2  | 183           |
| Takeo                     | 9.6                                    | 84.9                                    | 62.9                                      | 7.2   | 5.6   | 334           |
| Otdar Meanchey            | 21.0                                   | 59.4                                    | 52.2                                      | 16.0  | 26.7  | 99            |
| Battambang/Pailin         | 38.2                                   | 86.7                                    | 75.3                                      | 32.3  | 6.1   | 405           |
| Kampot/Kep                | 19.9                                   | 56.5                                    | 42.8                                      | 8.6   | 26.5  | 241           |
| Preah Sihanouk/Koh Kong   | 49.0                                   | 92.2                                    | 61.9                                      | 34.9  | 2.8   | 120           |
| Preah Vihear/Stung Treng  | 2.6                                    | 35.6                                    | 27.7                                      | 0.9   | 45.2  | 112           |
| Mondul Kiri/Ratanak Kiri  | 29.2                                   | 41.3                                    | 42.6                                      | 16.1  | 38.0  | 134           |
| <b>Education</b>          |  |   |   |   |   |               |
| No education              | 0.6                                    | 35.3                                    | 20.6                                      | 0.1   | 54.4  | 324           |
| Primary                   | 7.8                                    | 54.3                                    | 39.6                                      | 3.5   | 32.0  | 2,167         |
| Secondary and higher      | 22.8                                   | 71.5                                    | 52.5                                      | 13.4  | 15.1  | 2,699         |
| <b>Wealth quintile</b>    |  |   |   |   |   |               |
| Lowest                    | 6.1                                    | 31.9                                    | 28.3                                      | 1.3   | 51.3  | 901           |
| Second                    | 7.3                                    | 47.0                                    | 39.1                                      | 2.9   | 34.9  | 954           |
| Middle                    | 9.3                                    | 65.7                                    | 49.9                                      | 5.9   | 20.6  | 1,040         |
| Fourth                    | 16.3                                   | 78.8                                    | 51.6                                      | 10.9  | 12.9  | 1,124         |
| Highest                   | 32.8                                   | 78.4                                    | 52.3                                      | 18.5  | 10.5  | 1,171         |
| Total                     | 15.2                                   | 62.1                                    | 45.1                                      | 8.5   | 24.6  | 5,190         |

A comparison of Tables 5.4.1 and 5.4.2 shows that women and men have relatively the same access to all three media at least once per week (5 percent of women versus 9 percent of men). The slight difference between the levels of exposure can be explained by greater access of men to printed material: 15 percent of men read a newspaper at least once per week, as compared with 8 percent of women.

In general, rates of media utilization remain more or less similar to those in 2010, when two-thirds of women (68 percent) were exposed to some source of mass media. The differences between media exposure in the 2010 CDHS and the 2014 CDHS are found among women who read a newspaper at least once a week (12 percent versus 8 percent, respectively) and women who watch television at least once per week (58 percent versus 61 percent, respectively). There was some improvement in men's exposure to mass media between 2010 and 2014 due to an increase in the percentage of men who watch television. In 2010, 30 percent of men were not exposed to a mass media source on a weekly basis, whereas this proportion decreased to 25 percent in 2014.

## 5.4 EMPLOYMENT

### 5.4.1 Employment Status

The 2014 CDHS included a number of questions regarding respondents' employment status, including whether they worked in the seven days preceding the survey and, if not, whether they worked in the 12 months before the survey. Employment status results for women and men are presented in Tables 5.5.1 and 5.5.2.

Table 5.5.1 Employment status: Women

Percent distribution of women age 15-49 by employment status, according to background characteristics, Cambodia 2014

| Background characteristic        | Employed in the 12 months preceding the survey |                        | Not employed in the 12 months preceding the survey | Total        | Number of women |
|----------------------------------|--|------------------------|--|--------------|-----------------|
|                                  | Currently employed <sup>1</sup>                | Not currently employed |  |              |                 |
| <b>Age</b>                       |  |                        |  |              |                 |
| 15-19                            | 55.2   | 7.1                    | 37.7   | 100.0        | 2,893           |
| 20-24                            | 66.8   | 10.3                   | 22.9   | 100.0        | 3,017           |
| 25-29                            | 72.1   | 8.5                    | 19.4   | 100.0        | 2,836           |
| 30-34                            | 75.4   | 8.2                    | 16.5   | 100.0        | 3,046           |
| 35-39                            | 77.6   | 9.2                    | 13.1   | 100.0        | 1,839           |
| 40-44                            | 79.0   | 9.1                    | 11.9   | 100.0        | 2,030           |
| 45-49                            | 75.7   | 9.5                    | 14.8   | 100.0        | 1,916           |
| <b>Marital status</b>            |  |                        |  |              |                 |
| Never married                    | 66.0   | 5.8                    | 28.2   | 100.0        | 4,428           |
| Married or living together       | 71.3   | 10.1                   | 18.6   | 100.0        | 11,898          |
| Divorced/separated/<br>widowed   | 82.5   | 7.1                    | 10.5   | 100.0        | 1,252           |
| <b>Number of living children</b> |  |                        |  |              |                 |
| 0                                | 67.1   | 7.2                    | 25.7   | 100.0        | 5,698           |
| 1-2                              | 71.1   | 9.4                    | 19.5   | 100.0        | 6,622           |
| 3-4                              | 74.9   | 9.0                    | 16.1   | 100.0        | 3,893           |
| 5+                               | 72.6   | 11.5                   | 15.9   | 100.0        | 1,365           |
| <b>Residence</b>                 |  |                        |  |              |                 |
| Urban                            | 73.1   | 4.3                    | 22.6   | 100.0        | 3,251           |
| Rural                            | 70.2   | 9.8                    | 20.0   | 100.0        | 14,327          |
| <b>Province</b>                  |  |                        |  |              |                 |
| Banteay Meanchey                 | 65.5   | 19.6                   | 14.9   | 100.0        | 689             |
| Kampong Cham                     | 71.2   | 10.4                   | 18.4   | 100.0        | 2,021           |
| Kampong Chhnang                  | 88.2   | 3.7                    | 8.1  | 100.0        | 662             |
| Kampong Speu                     | 84.0   | 4.4                    | 11.6   | 100.0        | 1,196           |
| Kampong Thom                     | 79.8   | 1.2                    | 19.0   | 100.0        | 851             |
| Kandal                           | 75.2   | 5.1                    | 19.7   | 100.0        | 1,330           |
| Kratie                           | 74.5   | 14.3                   | 11.2   | 100.0        | 488             |
| Phnom Penh                       | 76.2   | 3.3                    | 20.5   | 100.0        | 1,994           |
| Prey Veng                        | 78.6   | 5.2                    | 16.2   | 100.0        | 1,188           |
| Pursat                           | 56.8   | 15.9                   | 27.4   | 100.0        | 631             |
| Siem Reap                        | 69.4   | 7.3                    | 23.3   | 100.0        | 1,137           |
| Svay Rieng                       | 84.7   | 5.2                    | 10.1   | 100.0        | 654             |
| Takeo                            | 54.8   | 15.6                   | 29.5   | 100.0        | 1,082           |
| Otdar Meanchey                   | 77.8   | 2.4                    | 19.8   | 100.0        | 294             |
| Battambang/Pailin                | 46.0   | 8.8                    | 45.1   | 100.0        | 1,333           |
| Kampot/Kep                       | 52.5   | 35.1                   | 12.4   | 100.0        | 770             |
| Preah Sihanouk/Koh Kong          | 69.0   | 4.3                    | 26.7   | 100.0        | 422             |
| Preah Vihear/Stung Treng         | 70.3   | 7.1                    | 22.6   | 100.0        | 462             |
| Mondul Kiri/Ratanak Kiri         | 81.5   | 3.3                    | 15.2   | 100.0        | 372             |
| <b>Education</b>                 |  |                        |  |              |                 |
| No education                     | 70.4   | 9.3                    | 20.4   | 100.0        | 2,250           |
| Primary                          | 73.0   | 10.1                   | 16.9   | 100.0        | 8,281           |
| Secondary and higher             | 68.2   | 7.1                    | 24.7   | 100.0        | 7,047           |
| <b>Wealth quintile</b>           |  |                        |  |              |                 |
| Lowest                           | 70.4   | 12.4                   | 17.2   | 100.0        | 3,143           |
| Second                           | 70.9   | 11.1                   | 18.0   | 100.0        | 3,314           |
| Middle                           | 68.5   | 9.2                    | 22.3   | 100.0        | 3,381           |
| Fourth                           | 69.2   | 9.0                    | 21.7   | 100.0        | 3,612           |
| Highest                          | 74.0   | 3.6                    | 22.4   | 100.0        | 4,128           |
| <b>Total</b>                     | <b>70.7</b>                                    | <b>8.8</b>             | <b>20.5</b>  | <b>100.0</b> | <b>17,578</b>   |

<sup>1</sup> *Currently employed* is defined as having done work in the past seven days. Includes persons who did not work in the past seven days but who are regularly employed and were absent from work for leave, illness, vacation, or any other such reason.

Table 5.5.2 Employment status: Men

Percent distribution of men age 15-49 by employment status, according to background characteristics, Cambodia 2014

| Background characteristic        | Employed in the 12 months preceding the survey |                        | Not employed in the 12 months preceding the survey | Total | Number of men |
|----------------------------------|--|------------------------|--|-------|---------------|
|                                  | Currently employed <sup>1</sup>                | Not currently employed |  |       |               |
| <b>Age</b>                       |  |                        |  |       |               |
| 15-19                            | 60.9   | 8.4                    | 30.7   | 100.0 | 926           |
| 20-24                            | 87.3   | 5.1                    | 7.6  | 100.0 | 835           |
| 25-29                            | 93.8   | 4.3                    | 1.9  | 100.0 | 815           |
| 30-34                            | 95.8   | 4.0                    | 0.2  | 100.0 | 907           |
| 35-39                            | 94.5   | 5.5                    | 0.0  | 100.0 | 556           |
| 40-44                            | 95.7   | 3.7                    | 0.6  | 100.0 | 595           |
| 45-49                            | 94.5   | 4.9                    | 0.6  | 100.0 | 556           |
| <b>Marital status</b>            |  |                        |  |       |               |
| Never married                    | 70.9   | 7.8                    | 21.3   | 100.0 | 1,663         |
| Married or living together       | 95.6   | 4.0                    | 0.4  | 100.0 | 3,405         |
| Divorced/separated/<br>widowed   | 92.9   | 4.0                    | 3.1  | 100.0 | 122           |
| <b>Number of living children</b> |  |                        |  |       |               |
| 0                                | 75.0   | 7.5                    | 17.5   | 100.0 | 2,043         |
| 1-2                              | 96.2   | 3.3                    | 0.5  | 100.0 | 1,725         |
| 3-4                              | 95.1   | 4.5                    | 0.4  | 100.0 | 1,058         |
| 5+                               | 96.0   | 3.7                    | 0.3  | 100.0 | 364           |
| <b>Residence</b>                 |  |                        |  |       |               |
| Urban                            | 84.1   | 2.2                    | 13.8   | 100.0 | 869           |
| Rural                            | 88.3   | 5.8                    | 5.8  | 100.0 | 4,321         |
| <b>Province</b>                  |  |                        |  |       |               |
| Banteay Meanchey                 | 89.6   | 8.8                    | 1.6  | 100.0 | 192           |
| Kampong Cham                     | 84.0   | 6.8                    | 9.3  | 100.0 | 663           |
| Kampong Chhnang                  | 90.5   | 1.6                    | 7.8  | 100.0 | 182           |
| Kampong Speu                     | 90.3   | 1.3                    | 8.4  | 100.0 | 323           |
| Kampong Thom                     | 98.4   | 0.5                    | 1.1  | 100.0 | 232           |
| Kandal                           | 90.7   | 0.6                    | 8.8  | 100.0 | 413           |
| Kratie                           | 89.7   | 2.9                    | 7.4  | 100.0 | 143           |
| Phnom Penh                       | 81.2   | 2.9                    | 15.9   | 100.0 | 550           |
| Prey Veng                        | 91.2   | 8.5                    | 0.3  | 100.0 | 342           |
| Pursat                           | 86.7   | 4.7                    | 8.7  | 100.0 | 184           |
| Siem Reap                        | 91.6   | 2.1                    | 6.3  | 100.0 | 337           |
| Svay Rieng                       | 88.3   | 5.0                    | 6.7  | 100.0 | 183           |
| Takeo                            | 69.7   | 26.5                   | 3.8  | 100.0 | 334           |
| Otdar Meanchey                   | 91.2   | 0.0                    | 8.8  | 100.0 | 99            |
| Battambang/Pailin                | 88.6   | 7.7                    | 3.7  | 100.0 | 405           |
| Kampot/Kep                       | 89.0   | 0.0                    | 11.0   | 100.0 | 241           |
| Preah Sihanouk/Koh Kong          | 88.7   | 2.8                    | 8.5  | 100.0 | 120           |
| Preah Vihear/Stung Treng         | 95.8   | 1.4                    | 2.8  | 100.0 | 112           |
| Mondul Kiri/Ratanak Kiri         | 97.6   | 0.0                    | 2.4  | 100.0 | 134           |
| <b>Education</b>                 |  |                        |  |       |               |
| No education                     | 96.1   | 2.0                    | 2.0  | 100.0 | 324           |
| Primary                          | 92.5   | 5.3                    | 2.2  | 100.0 | 2,167         |
| Secondary and higher             | 82.7   | 5.5                    | 11.8   | 100.0 | 2,699         |
| <b>Wealth quintile</b>           |  |                        |  |       |               |
| Lowest                           | 90.8   | 4.5                    | 4.7  | 100.0 | 901           |
| Second                           | 91.2   | 5.1                    | 3.6  | 100.0 | 954           |
| Middle                           | 85.6   | 8.7                    | 5.8  | 100.0 | 1,040         |
| Fourth                           | 86.7   | 5.2                    | 8.1  | 100.0 | 1,124         |
| Highest                          | 84.9   | 2.8                    | 12.3   | 100.0 | 1,171         |
| Total                            | 87.6   | 5.2                    | 7.2  | 100.0 | 5,190         |

<sup>1</sup> *Currently employed* is defined as having done work in the past seven days. Includes persons who did not work in the past seven days but who are regularly employed and were absent from work for leave, illness, vacation, or any other such reason.

At the time of the survey, 71 percent of women were currently employed, and an additional 9 percent were not employed but had worked sometime during the preceding 12 months. The proportion of women currently employed generally increases with increasing age and peaks at age group 40-44 (79 percent) before decreasing to 76 percent at age 45-49. Women who are divorced, separated, or widowed are more likely to be employed than other women. Among men, in contrast, those who are married are more likely to be employed than those who are divorced, separated, or widowed and those who have never married.

Urban and rural women are roughly equally likely to be currently employed (73 percent versus 70 percent). However, rural women are almost two and a half times more likely than urban women to have worked in the past 12 months but not currently (10 percent versus 4 percent). As a result, urban women are slightly more likely than rural women not to have been employed at all in the 12 months preceding the survey (23 percent versus 20 percent). Women in Kampong Chhnang are most likely to be currently employed (88 percent). In contrast, women in Battambang/Pailin are most likely not to have been employed at any time in the 12 months preceding the survey (45 percent). Women who have attended secondary school or higher and those in the three highest wealth quintiles are most likely to have not worked in the 12 months preceding the survey.

The proportion of men currently employed is higher than that of women (88 percent versus 71 percent). Employment status differentials for men are similar to those for women. The proportion of men currently employed generally increases with age and peaks at age 30-34 (from 61 percent to 96 percent). From age 35 to 49, the percentage of men currently employed is relatively constant at 95-96 percent. As with women, urban men are more likely not to have worked in the 12 months preceding the survey, as are men with a secondary education or higher and those in the highest wealth quintile. The proportion of men currently employed ranges from a low of 70 percent in Takeo to a high of 98 percent in Kampong Thom and in Mondul Kiri/Ratanak Kiri. Phnom Penh has the highest percentage of men who are not currently employed (16 percent), and Takeo has the highest percentage of men who worked at some point in the previous 12 months (27 percent), but not currently.

The level of female employment in 2014 is similar to that in 2010. However, there is a difference between the two surveys in the proportions of men employed. In 2010, 81 percent of men in Cambodia were currently employed, whereas this proportion increased to 88 percent of men in 2014.

#### **5.4.2 Occupation**

Respondents who were currently employed or had worked in the 12 months preceding the survey were further asked to specify their occupation. Tables 5.6.1 and 5.6.2 show data on occupation of employed women and men, respectively.

Most employed persons are engaged in the agricultural sector, including 44 percent of working women and 51 percent of working men. About one in four working women are employed in sales and services (24 percent), along with 13 percent of men. Twenty-two percent of women are employed in skilled manual labor, and 2 percent are employed in unskilled manual labor. Men are more likely than women to be employed in skilled manual labor, with 26 percent engaged in this type of occupation. Six percent of women and 7 percent of men are employed in professional, technical, and managerial fields.



Table 5.6.1 Occupation: Women

Percent distribution of women age 15-49 employed in the 12 months preceding the survey by occupation, according to background characteristics, Cambodia 2014

| Background characteristic        | Professional/technical/managerial | Clerical | Sales and services | Skilled manual | Unskilled manual | Agriculture | Missing | Total | Number of women |
|----------------------------------|-----------------------------------|----------|--------------------|----------------|------------------|-------------|---------|-------|-----------------|
| <b>Age</b>                       |                                   |          |                    |                |                  |             |         |       |                 |
| 15-19                            | 2.5                               | 1.4      | 19.8               | 33.0           | 1.8              | 36.4        | 5.0     | 100.0 | 1,802           |
| 20-24                            | 8.4                               | 2.6      | 22.8               | 28.6           | 1.7              | 34.0        | 1.9     | 100.0 | 2,327           |
| 25-29                            | 8.0                               | 2.1      | 24.4               | 25.9           | 1.6              | 36.8        | 1.2     | 100.0 | 2,286           |
| 30-34                            | 5.4                               | 1.1      | 28.6               | 22.2           | 1.6              | 40.5        | 0.6     | 100.0 | 2,545           |
| 35-39                            | 3.4                               | 0.3      | 26.8               | 18.8           | 1.9              | 48.4        | 0.4     | 100.0 | 1,597           |
| 40-44                            | 4.9                               | 0.7      | 25.3               | 11.1           | 1.7              | 55.5        | 1.0     | 100.0 | 1,788           |
| 45-49                            | 4.8                               | 0.5      | 21.7               | 6.8            | 2.1              | 63.2        | 1.0     | 100.0 | 1,632           |
| <b>Marital status</b>            |                                   |          |                    |                |                  |             |         |       |                 |
| Never married                    | 8.8                               | 3.0      | 22.1               | 29.4           | 2.2              | 29.6        | 4.9     | 100.0 | 3,177           |
| Married or living together       | 4.6                               | 0.8      | 24.9               | 19.0           | 1.3              | 48.8        | 0.5     | 100.0 | 9,679           |
| Divorced/separated/widowed       | 5.1                               | 1.2      | 26.5               | 22.7           | 3.5              | 39.8        | 1.3     | 100.0 | 1,121           |
| <b>Number of living children</b> |                                   |          |                    |                |                  |             |         |       |                 |
| 0                                | 8.2                               | 2.7      | 22.3               | 29.5           | 2.2              | 31.2        | 3.8     | 100.0 | 4,231           |
| 1-2                              | 5.8                               | 1.0      | 26.6               | 23.1           | 1.4              | 41.2        | 0.7     | 100.0 | 5,332           |
| 3-4                              | 3.4                               | 0.5      | 26.0               | 13.9           | 1.5              | 54.2        | 0.5     | 100.0 | 3,267           |
| 5+                               | 1.0                               | 0.1      | 16.7               | 8.0            | 1.9              | 72.1        | 0.3     | 100.0 | 1,148           |
| <b>Residence</b>                 |                                   |          |                    |                |                  |             |         |       |                 |
| Urban                            | 15.6                              | 4.6      | 47.5               | 19.7           | 5.3              | 5.2         | 2.2     | 100.0 | 2,514           |
| Rural                            | 3.4                               | 0.6      | 19.3               | 22.1           | 0.9              | 52.2        | 1.4     | 100.0 | 11,464          |
| <b>Province</b>                  |                                   |          |                    |                |                  |             |         |       |                 |
| Banteay Meanchey                 | 4.1                               | 1.7      | 31.3               | 18.8           | 2.7              | 40.5        | 0.9     | 100.0 | 586             |
| Kampong Cham                     | 4.0                               | 0.1      | 22.0               | 16.3           | 0.6              | 54.3        | 2.6     | 100.0 | 1,649           |
| Kampong Chhnang                  | 3.8                               | 0.3      | 14.7               | 26.2           | 0.4              | 54.1        | 0.4     | 100.0 | 608             |
| Kampong Speu                     | 2.6                               | 0.2      | 10.3               | 45.5           | 0.6              | 40.8        | 0.0     | 100.0 | 1,057           |
| Kampong Thom                     | 4.0                               | 0.2      | 20.7               | 9.9            | 1.3              | 63.5        | 0.3     | 100.0 | 690             |
| Kandal                           | 5.9                               | 0.7      | 20.9               | 54.5           | 1.1              | 16.9        | 0.0     | 100.0 | 1,068           |
| Kratie                           | 3.6                               | 0.3      | 18.4               | 3.5            | 1.0              | 72.9        | 0.2     | 100.0 | 434             |
| Phnom Penh                       | 16.8                              | 5.1      | 39.0               | 27.8           | 6.0              | 3.4         | 1.8     | 100.0 | 1,584           |
| Prey Veng                        | 2.9                               | 0.1      | 24.0               | 13.1           | 0.5              | 54.7        | 4.8     | 100.0 | 996             |
| Pursat                           | 3.4                               | 0.2      | 22.5               | 12.9           | 1.2              | 58.8        | 0.9     | 100.0 | 458             |
| Siem Reap                        | 5.5                               | 0.7      | 29.5               | 9.0            | 2.5              | 51.6        | 1.1     | 100.0 | 872             |
| Svay Rieng                       | 3.3                               | 2.3      | 16.8               | 25.8           | 1.5              | 47.2        | 3.2     | 100.0 | 589             |
| Takeo                            | 4.5                               | 0.4      | 24.7               | 35.2           | 0.6              | 29.6        | 4.9     | 100.0 | 763             |
| Otdar Meanchey                   | 1.5                               | 1.2      | 17.4               | 1.9            | 0.5              | 77.0        | 0.5     | 100.0 | 236             |
| Battambang/Pailin                | 7.9                               | 4.9      | 39.2               | 7.9            | 1.5              | 37.2        | 1.5     | 100.0 | 731             |
| Kampot/Kep                       | 4.0                               | 0.6      | 18.3               | 7.0            | 1.2              | 68.8        | 0.2     | 100.0 | 675             |
| Preah Sihanouk/Koh Kong          | 5.6                               | 2.4      | 39.8               | 30.0           | 4.5              | 16.8        | 0.9     | 100.0 | 309             |
| Preah Vihear/Stung Treng         | 3.2                               | 1.0      | 14.8               | 1.9            | 0.3              | 78.4        | 0.3     | 100.0 | 358             |
| Mondul Kiri/Ratanak Kiri         | 2.2                               | 0.6      | 26.2               | 1.3            | 1.3              | 68.3        | 0.0     | 100.0 | 315             |
| <b>Education</b>                 |                                   |          |                    |                |                  |             |         |       |                 |
| No education                     | 0.5                               | 0.2      | 16.1               | 10.7           | 1.6              | 70.4        | 0.5     | 100.0 | 1,792           |
| Primary                          | 1.3                               | 0.4      | 20.9               | 22.8           | 1.9              | 52.4        | 0.4     | 100.0 | 6,882           |
| Secondary and higher             | 12.8                              | 2.9      | 31.7               | 23.9           | 1.6              | 23.5        | 3.5     | 100.0 | 5,303           |
| <b>Wealth quintile</b>           |                                   |          |                    |                |                  |             |         |       |                 |
| Lowest                           | 0.6                               | 0.2      | 5.8                | 12.7           | 0.7              | 79.0        | 1.1     | 100.0 | 2,602           |
| Second                           | 1.1                               | 0.1      | 11.8               | 20.5           | 1.0              | 64.6        | 0.9     | 100.0 | 2,718           |
| Middle                           | 2.1                               | 0.3      | 17.4               | 28.0           | 0.7              | 49.3        | 2.3     | 100.0 | 2,628           |
| Fourth                           | 6.5                               | 0.8      | 31.5               | 28.3           | 2.1              | 29.5        | 1.3     | 100.0 | 2,827           |
| Highest                          | 15.5                              | 4.6      | 49.6               | 18.9           | 3.7              | 5.5         | 2.2     | 100.0 | 3,202           |
| <b>Total</b>                     | 5.6                               | 1.3      | 24.4               | 21.7           | 1.7              | 43.7        | 1.6     | 100.0 | 13,978          |

Residence has an effect on type of occupation. Employed women and men in urban areas are more likely than those in rural areas to hold jobs in the professional, technical, and managerial; clerical; and sales and services sectors. In contrast, rural women and men are more likely than those in urban areas to be engaged in agricultural work. Those with lower levels of education and those in lower wealth quintiles are also more likely to work in agriculture. For example, 78 percent of employed men with no schooling work in the field of agriculture, whereas only 36 percent of men with a secondary education or higher work in agriculture.

Table 5.6.2 Occupation: Men

Percent distribution of men age 15-49 employed in the 12 months preceding the survey by occupation, according to background characteristics, Cambodia 2014

| Background characteristic        | Professional/technical/managerial | Clerical   | Sales and services | Skilled manual | Unskilled manual | Agriculture | Missing    | Total        | Number of men |
|----------------------------------|-----------------------------------|------------|--------------------|----------------|------------------|-------------|------------|--------------|---------------|
| <b>Age</b>                       |                                   |            |                    |                |                  |             |            |              |               |
| 15-19                            | 2.1                               | 0.0        | 9.2                | 23.9           | 1.2              | 63.2        | 0.4        | 100.0        | 641           |
| 20-24                            | 5.8                               | 1.1        | 11.6               | 31.6           | 1.1              | 47.7        | 1.0        | 100.0        | 772           |
| 25-29                            | 9.6                               | 1.7        | 13.0               | 27.5           | 2.3              | 44.3        | 1.7        | 100.0        | 799           |
| 30-34                            | 9.7                               | 2.1        | 13.4               | 28.7           | 1.2              | 44.5        | 0.4        | 100.0        | 906           |
| 35-39                            | 6.1                               | 0.6        | 11.1               | 27.8           | 0.6              | 53.0        | 0.9        | 100.0        | 556           |
| 40-44                            | 8.5                               | 2.0        | 14.1               | 20.7           | 0.1              | 54.1        | 0.6        | 100.0        | 592           |
| 45-49                            | 8.5                               | 1.0        | 16.7               | 15.1           | 0.6              | 57.9        | 0.2        | 100.0        | 553           |
| <b>Marital status</b>            |                                   |            |                    |                |                  |             |            |              |               |
| Never married                    | 6.4                               | 1.0        | 11.9               | 27.2           | 1.1              | 50.7        | 1.6        | 100.0        | 1,309         |
| Married or living together       | 7.9                               | 1.4        | 12.8               | 24.9           | 1.1              | 51.5        | 0.4        | 100.0        | 3,391         |
| Divorced/separated/widowed       | 3.9                               | 0.3        | 15.7               | 31.3           | 0.5              | 46.5        | 1.7        | 100.0        | 118           |
| <b>Number of living children</b> |                                   |            |                    |                |                  |             |            |              |               |
| 0                                | 6.9                               | 1.2        | 12.0               | 27.8           | 1.3              | 49.3        | 1.5        | 100.0        | 1,685         |
| 1-2                              | 8.3                               | 1.8        | 13.1               | 27.4           | 1.3              | 47.7        | 0.4        | 100.0        | 1,717         |
| 3-4                              | 7.8                               | 0.8        | 13.7               | 23.5           | 0.8              | 53.1        | 0.3        | 100.0        | 1,053         |
| 5+                               | 3.8                               | 0.5        | 10.6               | 14.5           | 0.1              | 70.1        | 0.5        | 100.0        | 363           |
| <b>Residence</b>                 |                                   |            |                    |                |                  |             |            |              |               |
| Urban                            | 20.1                              | 4.8        | 28.7               | 32.7           | 2.4              | 8.6         | 2.6        | 100.0        | 749           |
| Rural                            | 5.0                               | 0.6        | 9.7                | 24.4           | 0.8              | 59.0        | 0.4        | 100.0        | 4,069         |
| <b>Province</b>                  |                                   |            |                    |                |                  |             |            |              |               |
| Banteay Meanchey                 | 7.5                               | 1.1        | 10.9               | 22.6           | 1.8              | 55.7        | 0.5        | 100.0        | 189           |
| Kampong Cham                     | 5.0                               | 0.2        | 10.9               | 19.3           | 1.9              | 62.3        | 0.4        | 100.0        | 602           |
| Kampong Chhnang                  | 7.7                               | 0.0        | 7.8                | 20.0           | 0.6              | 62.4        | 1.5        | 100.0        | 168           |
| Kampong Speu                     | 4.9                               | 0.5        | 7.3                | 30.7           | 0.7              | 55.1        | 0.9        | 100.0        | 296           |
| Kampong Thom                     | 5.5                               | 0.2        | 9.1                | 18.1           | 0.2              | 66.5        | 0.5        | 100.0        | 230           |
| Kandal                           | 6.8                               | 0.4        | 11.8               | 39.0           | 1.8              | 40.1        | 0.1        | 100.0        | 377           |
| Kratie                           | 6.3                               | 0.6        | 5.2                | 17.8           | 0.9              | 68.9        | 0.3        | 100.0        | 132           |
| Phnom Penh                       | 21.9                              | 4.9        | 29.6               | 35.5           | 2.2              | 2.8         | 3.1        | 100.0        | 462           |
| Prey Veng                        | 4.7                               | 0.6        | 12.1               | 30.9           | 0.0              | 51.8        | 0.0        | 100.0        | 341           |
| Pursat                           | 2.4                               | 1.3        | 6.9                | 13.7           | 0.0              | 75.2        | 0.4        | 100.0        | 168           |
| Siem Reap                        | 6.0                               | 0.4        | 10.4               | 27.3           | 0.5              | 54.8        | 0.6        | 100.0        | 316           |
| Svay Rieng                       | 6.1                               | 2.3        | 16.4               | 36.2           | 3.0              | 35.3        | 0.6        | 100.0        | 171           |
| Takeo                            | 7.1                               | 0.0        | 13.8               | 29.5           | 0.6              | 48.6        | 0.6        | 100.0        | 321           |
| Otdar Meanchey                   | 5.1                               | 1.1        | 8.5                | 7.1            | 0.0              | 78.3        | 0.0        | 100.0        | 91            |
| Battambang/Pailin                | 5.1                               | 3.9        | 13.7               | 23.8           | 0.4              | 52.2        | 0.9        | 100.0        | 390           |
| Kampot/Kep                       | 6.9                               | 0.9        | 6.6                | 19.4           | 1.6              | 63.8        | 0.7        | 100.0        | 214           |
| Preah Sihanouk/Koh Kong          | 10.5                              | 2.5        | 17.4               | 36.7           | 1.7              | 29.8        | 1.4        | 100.0        | 110           |
| Preah Vihear/Stung Treng         | 4.1                               | 0.2        | 7.6                | 13.6           | 0.0              | 74.1        | 0.4        | 100.0        | 109           |
| Mondul Kiri/Ratanak Kiri         | 5.6                               | 1.4        | 14.9               | 8.4            | 0.0              | 69.6        | 0.0        | 100.0        | 131           |
| <b>Education</b>                 |                                   |            |                    |                |                  |             |            |              |               |
| No education                     | 1.7                               | 0.0        | 4.3                | 16.1           | 0.0              | 78.0        | 0.0        | 100.0        | 318           |
| Primary                          | 2.4                               | 0.0        | 8.0                | 23.6           | 1.3              | 64.6        | 0.1        | 100.0        | 2,119         |
| Secondary and higher             | 12.5                              | 2.6        | 17.9               | 28.8           | 1.0              | 35.6        | 1.4        | 100.0        | 2,380         |
| <b>Wealth quintile</b>           |                                   |            |                    |                |                  |             |            |              |               |
| Lowest                           | 1.1                               | 0.3        | 3.4                | 17.7           | 0.2              | 77.2        | 0.2        | 100.0        | 859           |
| Second                           | 2.5                               | 0.0        | 3.8                | 25.0           | 0.3              | 68.4        | 0.0        | 100.0        | 919           |
| Middle                           | 3.7                               | 0.4        | 8.0                | 24.8           | 1.0              | 61.6        | 0.5        | 100.0        | 980           |
| Fourth                           | 8.7                               | 0.6        | 16.4               | 27.6           | 2.1              | 44.2        | 0.4        | 100.0        | 1,033         |
| Highest                          | 19.1                              | 4.9        | 28.9               | 31.9           | 1.6              | 11.0        | 2.6        | 100.0        | 1,027         |
| <b>Total</b>                     | <b>7.4</b>                        | <b>1.3</b> | <b>12.7</b>        | <b>25.7</b>    | <b>1.1</b>       | <b>51.2</b> | <b>0.8</b> | <b>100.0</b> | <b>4,818</b>  |

### 5.4.3 Earnings, Employers, and Continuity of Employment

Table 5.7 shows the percent distribution of employed women by type of earnings and employment characteristics. Because all of the employment variables in the table are strongly influenced by the sector in which a woman is employed, data are grouped according to agricultural or nonagricultural work.

Table 5.7 Type of employment: Women

Percent distribution of women age 15-49 employed in the 12 months preceding the survey by type of earnings, type of employer, and continuity of employment, according to type of employment (agricultural or nonagricultural), Cambodia 2014

| Employment characteristic                          | Agricultural work | Nonagricultural work | Missing | Total  |
|--|-------------------|----------------------|---------|--------|
| <b>Type of earnings</b>                            |                   |                      |         |        |
| Cash only  | 67.5              | 97.0                 | 46.7    | 83.3   |
| Cash and in-kind                                   | 15.6              | 1.3                  | 2.3     | 7.6    |
| In-kind only                                       | 8.9               | 0.0                  | 0.9     | 3.9    |
| Not paid   | 8.1               | 1.6                  | 49.7    | 5.2    |
| Total  | 100.0             | 100.0                | 100.0   | 100.0  |
| <b>Type of employer</b>                            |                   |                      |         |        |
| Employed by family member                          | 13.8              | 4.6                  | 5.4     | 8.6    |
| Employed by nonfamily member                       | 13.8              | 51.8                 | 35.6    | 34.9   |
| Self-employed                                      | 72.5              | 43.6                 | 58.7    | 56.4   |
| Total  | 100.0             | 100.0                | 100.0   | 100.0  |
| <b>Continuity of employment</b>                    |                   |                      |         |        |
| All year   | 16.1              | 85.9                 | 67.9    | 55.1   |
| Seasonal   | 81.0              | 10.0                 | 19.5    | 41.2   |
| Occasional   | 2.8               | 4.1                  | 12.3    | 3.7    |
| Total  | 100.0             | 100.0                | 100.0   | 100.0  |
| Number of women employed during the last 12 months | 6,115             | 7,644                | 219     | 13,978 |

Note: Total includes women with missing information on type of employment who are not shown separately.

One in four women engaged in agricultural work are paid in-kind or through a combination of cash and in-kind, 68 percent are paid in cash only, and 8 percent are unpaid. Women employed in the nonagricultural sector are more likely to be paid in cash only (97 percent). Nationally, across all occupations, 83 percent of employed women are paid in cash and 8 percent are paid in cash and in-kind for their work. Five percent are not paid at all for their work.

In 2014, 56 percent of employed Cambodian women are self-employed, and 9 percent are employed by a family member. Thirty-five percent of employed women work for someone outside the family. Among women working in the agricultural sector, almost three-quarters (73 percent) are working for themselves, as compared with 44 percent of those in the nonagricultural sector. In addition, the proportion of women employed by someone outside the family is nearly four times higher among those working in the nonagricultural sector than among those in the agricultural sector (52 percent versus 14 percent).

Fifty-five percent of employed women work all year, and 41 percent work seasonally. Those who work occasionally account for only 4 percent. Among women working in the agricultural sector, 81 percent are seasonal workers, as compared with only 10 percent of those working in the nonagricultural sector. Continuity of employment is more assured for women engaged in nonagricultural work than for those in agricultural work. For example, 86 percent of women working in the nonagricultural sector work all year, as compared with 16 percent of women engaged in agricultural work.

## 5.5 HEALTH INSURANCE

In the 2014 CDHS, women and men age 15-49 were asked whether they were covered by any health insurance and, if so, which type. The choices were the following: a health equity fund, a maternal health voucher, community-based insurance, employer-based insurance, and privately purchased commercial insurance. Tables 5.8.1 and 5.8.2 show health insurance coverage for women and men in Cambodia.

Table 5.8.1 Health insurance coverage: Women

Percentage of women age 15-49 with specific types of health insurance coverage, according to background characteristics, Cambodia 2014

| Background characteristic | Health equity fund | Maternal health voucher | Community-based health insurance | Employer-based insurance | Privately purchased commercial insurance | Other      | None        | Number of women |
|---------------------------|--------------------|-------------------------|----------------------------------|--------------------------|--|------------|-------------|-----------------|
| <b>Age</b>                |                    |                         |                                  |                          |  |            |             |                 |
| 15-19                     | 9.3                | 0.3                     | 0.8                              | 2.8                      | 0.1                                      | 0.1        | 86.7        | 2,893           |
| 20-24                     | 8.6                | 0.7                     | 0.8                              | 4.3                      | 0.1                                      | 0.1        | 85.9        | 3,017           |
| 25-29                     | 12.5               | 0.5                     | 0.6                              | 3.1                      | 0.4                                      | 0.0        | 83.0        | 2,836           |
| 30-34                     | 12.4               | 0.4                     | 1.1                              | 2.9                      | 0.3                                      | 0.0        | 83.4        | 3,046           |
| 35-39                     | 15.5               | 0.4                     | 1.1                              | 1.0                      | 0.3                                      | 0.0        | 81.9        | 1,839           |
| 40-44                     | 13.1               | 0.8                     | 1.1                              | 1.1                      | 0.3                                      | 0.0        | 84.5        | 2,030           |
| 45-49                     | 13.3               | 0.2                     | 1.4                              | 0.8                      | 0.1                                      | 0.0        | 84.5        | 1,916           |
| <b>Residence</b>          |                    |                         |                                  |                          |  |            |             |                 |
| Urban                     | 5.9                | 0.2                     | 1.0                              | 7.0                      | 0.6                                      | 0.0        | 85.6        | 3,251           |
| Rural                     | 13.1               | 0.5                     | 0.9                              | 1.5                      | 0.1                                      | 0.0        | 84.1        | 14,327          |
| <b>Province</b>           |                    |                         |                                  |                          |  |            |             |                 |
| Banteay Meanchey          | 14.7               | 0.4                     | 0.0                              | 0.0                      | 0.0                                      | 0.0        | 85.0        | 689             |
| Kampong Cham              | 14.6               | 0.7                     | 1.9                              | 0.5                      | 0.5                                      | 0.0        | 82.9        | 2,021           |
| Kampong Chhnang           | 26.0               | 0.0                     | 0.0                              | 0.0                      | 0.0                                      | 0.0        | 74.0        | 662             |
| Kampong Speu              | 1.5                | 0.0                     | 0.2                              | 3.6                      | 0.0                                      | 0.5        | 94.2        | 1,196           |
| Kampong Thom              | 17.6               | 0.0                     | 2.6                              | 0.0                      | 0.0                                      | 0.0        | 79.8        | 851             |
| Kandal                    | 1.2                | 0.0                     | 0.0                              | 0.3                      | 0.0                                      | 0.0        | 98.4        | 1,330           |
| Kratie                    | 19.3               | 0.2                     | 0.8                              | 0.0                      | 0.0                                      | 0.0        | 79.8        | 488             |
| Phnom Penh                | 3.8                | 0.0                     | 1.5                              | 16.0                     | 0.8                                      | 0.0        | 78.4        | 1,994           |
| Prey Veng                 | 9.3                | 0.0                     | 0.1                              | 0.0                      | 0.0                                      | 0.0        | 90.7        | 1,188           |
| Pursat                    | 18.2               | 0.1                     | 0.9                              | 0.1                      | 0.1                                      | 0.0        | 80.9        | 631             |
| Siem Reap                 | 15.5               | 0.1                     | 4.8                              | 1.4                      | 0.2                                      | 0.0        | 78.9        | 1,137           |
| Svay Rieng                | 13.0               | 0.5                     | 0.0                              | 2.2                      | 0.0                                      | 0.0        | 84.7        | 654             |
| Takeo                     | 12.3               | 3.3                     | 0.3                              | 0.4                      | 0.3                                      | 0.0        | 83.6        | 1,082           |
| Otdar Meanchey            | 21.2               | 0.0                     | 0.6                              | 0.0                      | 0.0                                      | 0.0        | 78.2        | 294             |
| Battambang/Pailin         | 25.0               | 0.1                     | 0.3                              | 0.0                      | 0.0                                      | 0.0        | 74.7        | 1,333           |
| Kampot/Kep                | 5.1                | 1.5                     | 0.0                              | 0.0                      | 0.1                                      | 0.0        | 93.6        | 770             |
| Preah Sihanouk/Koh Kong   | 18.3               | 1.8                     | 0.0                              | 6.6                      | 0.0                                      | 0.0        | 73.6        | 422             |
| Preah Vihear/Stung Treng  | 0.8                | 0.4                     | 0.0                              | 0.0                      | 0.0                                      | 0.0        | 98.8        | 462             |
| Mondul Kiri/Ratanak Kiri  | 2.9                | 0.0                     | 0.0                              | 0.0                      | 0.2                                      | 0.2        | 96.8        | 372             |
| <b>Education</b>          |                    |                         |                                  |                          |  |            |             |                 |
| No education              | 21.0               | 0.7                     | 1.1                              | 0.4                      | 0.1                                      | 0.0        | 77.1        | 2,250           |
| Primary                   | 14.5               | 0.5                     | 0.9                              | 1.7                      | 0.1                                      | 0.0        | 82.8        | 8,281           |
| Secondary and higher      | 5.7                | 0.4                     | 1.0                              | 4.1                      | 0.4                                      | 0.0        | 88.7        | 7,047           |
| <b>Wealth quintile</b>    |                    |                         |                                  |                          |  |            |             |                 |
| Lowest                    | 24.3               | 0.4                     | 1.7                              | 0.5                      | 0.1                                      | 0.1        | 73.5        | 3,143           |
| Second                    | 17.8               | 0.7                     | 0.6                              | 0.6                      | 0.0                                      | 0.0        | 80.6        | 3,314           |
| Middle                    | 9.8                | 0.9                     | 0.9                              | 1.3                      | 0.1                                      | 0.1        | 87.3        | 3,381           |
| Fourth                    | 6.9                | 0.2                     | 0.9                              | 2.3                      | 0.2                                      | 0.0        | 89.9        | 3,612           |
| Highest                   | 3.3                | 0.2                     | 0.7                              | 6.8                      | 0.6                                      | 0.0        | 88.6        | 4,128           |
| <b>Total</b>              | <b>11.8</b>        | <b>0.5</b>              | <b>0.9</b>                       | <b>2.5</b>               | <b>0.2</b>                               | <b>0.0</b> | <b>84.4</b> | <b>17,578</b>   |

The majority of Cambodians, 84 percent of women and 87 percent of men, do not have health insurance. These percentages are slightly improved compared with the 2010 CDHS (89 percent and 92 percent, respectively). As for those who are insured, the gross majority (12 percent of women and 9 percent of men) are insured through a health equity fund. One percent of respondents report having community-based health insurance, and about 3 percent report being covered through employer-based health insurance, privately purchased commercial health insurance, or, in the case of female respondents, maternal health vouchers. These data imply that the health insurance system in the country is not widespread in its reach.

Table 5.8.2 Health insurance coverage: Men

Percentage of men age 15-49 with specific types of health insurance coverage, according to background characteristics, Cambodia 2014

| Background characteristic | Health equity fund | Community-based health insurance | Employer-based insurance | Privately purchased commercial insurance | Other      | None        | Number of men |
|---------------------------|--------------------|----------------------------------|--------------------------|--|------------|-------------|---------------|
| <b>Age</b>                |                    |                                  |                          |  |            |             |               |
| 15-19                     | 7.1                | 0.3                              | 2.1                      | 0.0                                      | 0.0        | 90.8        | 926           |
| 20-24                     | 5.3                | 0.6                              | 3.6                      | 0.2                                      | 0.0        | 90.3        | 835           |
| 25-29                     | 8.4                | 1.9                              | 4.6                      | 0.4                                      | 0.0        | 85.1        | 815           |
| 30-34                     | 10.0               | 0.8                              | 3.6                      | 0.8                                      | 0.1        | 84.8        | 907           |
| 35-39                     | 9.5                | 3.0                              | 1.5                      | 0.2                                      | 0.0        | 85.8        | 556           |
| 40-44                     | 9.9                | 1.0                              | 1.6                      | 0.4                                      | 0.0        | 87.0        | 595           |
| 45-49                     | 10.9               | 0.6                              | 1.7                      | 0.7                                      | 0.0        | 86.0        | 556           |
| <b>Residence</b>          |                    |                                  |                          |  |            |             |               |
| Urban                     | 4.7                | 0.7                              | 10.8                     | 1.0                                      | 0.0        | 82.8        | 869           |
| Rural                     | 9.3                | 1.2                              | 1.2                      | 0.3                                      | 0.0        | 88.2        | 4,321         |
| <b>Province</b>           |                    |                                  |                          |  |            |             |               |
| Banteay Meanchey          | 5.6                | 0.0                              | 3.9                      | 0.3                                      | 0.0        | 91.4        | 192           |
| Kampong Cham              | 11.6               | 1.0                              | 0.0                      | 0.0                                      | 0.0        | 88.0        | 663           |
| Kampong Chhnang           | 24.2               | 0.0                              | 0.0                      | 0.0                                      | 0.0        | 75.8        | 182           |
| Kampong Speu              | 4.3                | 0.4                              | 1.6                      | 0.1                                      | 0.0        | 93.5        | 323           |
| Kampong Thom              | 1.0                | 0.1                              | 0.2                      | 0.5                                      | 0.0        | 98.2        | 232           |
| Kandal                    | 0.2                | 4.0                              | 0.4                      | 0.5                                      | 0.0        | 95.0        | 413           |
| Kratie                    | 20.5               | 0.2                              | 0.5                      | 0.1                                      | 0.0        | 78.7        | 143           |
| Phnom Penh                | 3.2                | 0.9                              | 19.0                     | 1.0                                      | 0.0        | 75.8        | 550           |
| Prey Veng                 | 2.2                | 0.0                              | 1.0                      | 0.6                                      | 0.0        | 96.3        | 342           |
| Pursat                    | 14.2               | 0.4                              | 0.0                      | 0.0                                      | 0.0        | 85.4        | 184           |
| Siem Reap                 | 15.9               | 5.1                              | 1.1                      | 0.9                                      | 0.3        | 76.7        | 337           |
| Svay Rieng                | 0.1                | 0.0                              | 2.9                      | 0.5                                      | 0.0        | 96.5        | 183           |
| Takeo                     | 11.2               | 2.2                              | 0.8                      | 0.4                                      | 0.0        | 85.7        | 334           |
| Otdar Meanchey            | 4.6                | 0.0                              | 0.0                      | 0.0                                      | 0.0        | 95.4        | 99            |
| Battambang/Pailin         | 20.6               | 0.0                              | 0.0                      | 0.2                                      | 0.0        | 79.1        | 405           |
| Kampot/Kep                | 8.5                | 0.0                              | 0.0                      | 0.0                                      | 0.0        | 91.5        | 241           |
| Preah Sihanouk/Koh Kong   | 9.1                | 1.6                              | 9.6                      | 1.4                                      | 0.3        | 78.9        | 120           |
| Preah Vihear/Stung Treng  | 1.1                | 0.0                              | 0.1                      | 0.0                                      | 0.0        | 98.8        | 112           |
| Mondul Kiri/Ratanak Kiri  | 0.9                | 0.0                              | 0.0                      | 0.0                                      | 0.0        | 99.1        | 134           |
| <b>Education</b>          |                    |                                  |                          |  |            |             |               |
| No education              | 13.3               | 1.6                              | 0.2                      | 0.6                                      | 0.0        | 84.4        | 324           |
| Primary                   | 12.0               | 1.6                              | 0.9                      | 0.1                                      | 0.0        | 85.6        | 2,167         |
| Secondary and higher      | 5.1                | 0.6                              | 4.7                      | 0.6                                      | 0.0        | 89.1        | 2,699         |
| <b>Wealth quintile</b>    |                    |                                  |                          |  |            |             |               |
| Lowest                    | 17.6               | 1.1                              | 0.1                      | 0.0                                      | 0.1        | 81.5        | 901           |
| Second                    | 12.6               | 1.3                              | 0.5                      | 0.2                                      | 0.0        | 85.4        | 954           |
| Middle                    | 7.5                | 1.2                              | 0.7                      | 0.1                                      | 0.0        | 90.5        | 1,040         |
| Fourth                    | 5.2                | 1.2                              | 2.5                      | 0.6                                      | 0.0        | 90.8        | 1,124         |
| Highest                   | 2.3                | 0.7                              | 9.1                      | 0.9                                      | 0.0        | 87.2        | 1,171         |
| <b>Total</b>              | <b>8.5</b>         | <b>1.1</b>                       | <b>2.8</b>               | <b>0.4</b>                               | <b>0.0</b> | <b>87.3</b> | <b>5,190</b>  |

There are notable differentials in the proportions of women and men with health equity funds according to background characteristics. Both rural women and rural men are about twice as likely as their urban counterparts to have a health equity fund. The proportion of those with a health equity fund is higher among women and men with no education and in the lower wealth quintiles. For example, 24 percent of women in the lowest wealth quintile are covered through a health equity fund, as compared with only 3 percent of women in the highest wealth quintile. Health equity fund coverage among women varies by province, ranging from about 1 percent in Preah Vihear/Stung Treng and Kandal to 26 percent in Kampong Chhnang.

## 5.6 USE OF TOBACCO

Smoking or other use of tobacco affects one's health and may adversely affect the health of one's children, especially in terms of vulnerability to respiratory illness. In addition, tobacco use during pregnancy increases a woman's risk of having a small or low-birth-weight baby. All interviewed respondents in the 2014 CDHS were asked about their smoking habits. Tables 5.9.1 and 5.9.2 show the percentage of women and men, respectively, who use various types of tobacco and the percent distribution of cigarette smokers by number of cigarettes smoked in the preceding 24 hours, according to background characteristics.

Table 5.9.1 Use of tobacco: Women

Percentage of women age 15-49 who smoke cigarettes or a pipe or use other tobacco products, according to background characteristics and maternity status, Cambodia 2014

| Background characteristic    | Uses tobacco |      |               | Does not use tobacco | Number of women | Percent distribution of women who smoke cigarettes by number of cigarettes smoked in the past 24 hours |        |        |        |        |                    | Total | Number of cigarette smokers |
|------------------------------|--------------|------|---------------|----------------------|-----------------|--|--------|--------|--------|--------|--------------------|-------|-----------------------------|
|                              | Cigarettes   | Pipe | Other tobacco |                      |                 | 0  | 1-2    | 3-5    | 6-9    | 10+    | Don't know/missing |       |                             |
| <b>Age</b>                   |              |      |               |                      |                 |  |        |        |        |        |                    |       |                             |
| 15-19                        | 0.5          | 0.0  | 0.3           | 99.3                 | 2,893           | *  | *      | *      | *      | *      | *                  | 100.0 | 14                          |
| 20-24                        | 0.6          | 0.0  | 0.6           | 98.9                 | 3,017           | *  | *      | *      | *      | *      | *                  | 100.0 | 19                          |
| 25-29                        | 1.6          | 0.0  | 1.0           | 98.0                 | 2,836           | 0.0  | 16.0   | 45.9   | 5.2    | 30.8   | 2.2                | 100.0 | 44                          |
| 30-34                        | 2.0          | 0.1  | 2.7           | 95.9                 | 3,046           | 0.0  | 25.8   | 33.2   | 4.9    | 27.1   | 8.9                | 100.0 | 61                          |
| 35-39                        | 4.6          | 0.1  | 5.8           | 90.9                 | 1,839           | 0.0  | 17.2   | 35.4   | 12.4   | 32.4   | 2.6                | 100.0 | 85                          |
| 40-44                        | 4.8          | 0.1  | 10.5          | 85.7                 | 2,030           | 0.0  | 13.3   | 31.1   | 10.1   | 42.5   | 3.0                | 100.0 | 98                          |
| 45-49                        | 4.7          | 0.2  | 13.7          | 82.6                 | 1,916           | 0.0  | 19.9   | 33.7   | 11.6   | 33.3   | 1.5                | 100.0 | 89                          |
| <b>Maternity status</b>      |              |      |               |                      |                 |  |        |        |        |        |                    |       |                             |
| Pregnant                     | 1.1          | 0.0  | 1.6           | 97.8                 | 934             | *  | *      | *      | *      | *      | *                  | 100.0 | 10                          |
| Breastfeeding (not pregnant) | 3.0          | 0.2  | 2.6           | 95.2                 | 2,348           | 0.0  | 23.3   | 41.5   | 7.6    | 26.6   | 1.1                | 100.0 | 70                          |
| Neither                      | 2.3          | 0.1  | 4.5           | 93.7                 | 14,296          | 0.0  | 16.9   | 34.2   | 10.1   | 34.4   | 4.4                | 100.0 | 330                         |
| <b>Residence</b>             |              |      |               |                      |                 |  |        |        |        |        |                    |       |                             |
| Urban                        | 0.6          | 0.0  | 0.7           | 98.8                 | 3,251           | (0.0)  | (21.9) | (43.3) | (4.7)  | (26.1) | (3.9)              | 100.0 | 20                          |
| Rural                        | 2.7          | 0.1  | 4.9           | 93.1                 | 14,327          | 0.0  | 17.9   | 35.2   | 10.2   | 33.0   | 3.7                | 100.0 | 390                         |
| <b>Province</b>              |              |      |               |                      |                 |  |        |        |        |        |                    |       |                             |
| Banteay Meanchey             | 1.1          | 0.0  | 3.5           | 95.6                 | 689             | *  | *      | *      | *      | *      | *                  | 100.0 | 7                           |
| Kampong Cham                 | 4.6          | 0.0  | 5.9           | 90.5                 | 2,021           | (0.0)  | (17.8) | (24.5) | (10.4) | (43.5) | (3.8)              | 100.0 | 93                          |
| Kampong Chhnang              | 0.0          | 0.0  | 3.6           | 96.4                 | 662             | *  | *      | *      | *      | *      | *                  | 0.0   | 0                           |
| Kampong Speu                 | 0.5          | 0.0  | 1.6           | 97.9                 | 1,196           | *  | *      | *      | *      | *      | *                  | 100.0 | 6                           |
| Kampong Thom                 | 1.3          | 0.0  | 3.6           | 95.6                 | 851             | *  | *      | *      | *      | *      | *                  | 100.0 | 11                          |
| Kandal                       | 0.3          | 0.0  | 2.5           | 97.4                 | 1,330           | *  | *      | *      | *      | *      | *                  | 100.0 | 4                           |
| Kratie                       | 12.4         | 0.0  | 7.9           | 81.4                 | 488             | 0.0  | 32.6   | 32.5   | 9.2    | 25.7   | 0.0                | 100.0 | 60                          |
| Phnom Penh                   | 0.5          | 0.0  | 0.7           | 98.8                 | 1,994           | *  | *      | *      | *      | *      | *                  | 100.0 | 10                          |
| Prey Veng                    | 0.8          | 0.0  | 8.4           | 91.1                 | 1,188           | *  | *      | *      | *      | *      | *                  | 100.0 | 10                          |
| Pursat                       | 2.0          | 0.0  | 7.8           | 90.5                 | 631             | *  | *      | *      | *      | *      | *                  | 100.0 | 12                          |
| Siem Reap                    | 1.4          | 0.1  | 4.2           | 94.4                 | 1,137           | *  | *      | *      | *      | *      | *                  | 100.0 | 16                          |
| Svay Rieng                   | 0.0          | 0.0  | 8.3           | 91.7                 | 654             | *  | *      | *      | *      | *      | *                  | 0.0   | 0                           |
| Takeo                        | 1.1          | 0.0  | 1.8           | 97.8                 | 1,082           | *  | *      | *      | *      | *      | *                  | 100.0 | 12                          |
| Otdar Meanchey               | 1.5          | 0.0  | 3.3           | 95.7                 | 294             | *  | *      | *      | *      | *      | *                  | 100.0 | 4                           |
| Battambang/Pailin            | 2.4          | 0.0  | 1.8           | 96.0                 | 1,333           | *  | *      | *      | *      | *      | *                  | 100.0 | 32                          |
| Kampot/Kep                   | 0.9          | 0.0  | 1.6           | 97.7                 | 770             | *  | *      | *      | *      | *      | *                  | 100.0 | 7                           |
| Preah Sihanouk/<br>Koh Kong  | 0.8          | 0.0  | 0.6           | 98.7                 | 422             | *  | *      | *      | *      | *      | *                  | 100.0 | 3                           |
| Preah Vihear/<br>Stung Treng | 14.4         | 0.0  | 12.4          | 77.0                 | 462             | 0.0  | 24.6   | 50.3   | 4.0    | 17.8   | 3.2                | 100.0 | 67                          |
| Mondul Kiri/<br>Ratanak Kiri | 14.9         | 3.3  | 11.3          | 82.1                 | 372             | 0.0  | 13.1   | 53.3   | 9.3    | 24.3   | 0.0                | 100.0 | 55                          |
| <b>Education</b>             |              |      |               |                      |                 |  |        |        |        |        |                    |       |                             |
| No education                 | 8.2          | 0.4  | 11.3          | 83.4                 | 2,250           | 0.0  | 21.6   | 37.9   | 11.9   | 27.6   | 0.9                | 100.0 | 185                         |
| Primary                      | 2.4          | 0.1  | 5.1           | 92.9                 | 8,281           | 0.0  | 15.9   | 37.7   | 9.4    | 30.9   | 6.2                | 100.0 | 200                         |
| Secondary and higher         | 0.4          | 0.0  | 0.6           | 99.1                 | 7,047           | *  | *      | *      | *      | *      | *                  | 100.0 | 25                          |
| <b>Wealth quintile</b>       |              |      |               |                      |                 |  |        |        |        |        |                    |       |                             |
| Lowest                       | 6.1          | 0.3  | 9.7           | 85.5                 | 3,143           | 0.0  | 19.6   | 35.3   | 13.5   | 31.1   | 0.5                | 100.0 | 192                         |
| Second                       | 3.2          | 0.1  | 5.4           | 92.6                 | 3,314           | 0.0  | 19.4   | 34.8   | 9.0    | 33.5   | 3.4                | 100.0 | 106                         |
| Middle                       | 2.1          | 0.0  | 3.9           | 94.4                 | 3,381           | 0.0  | 13.8   | 38.4   | 4.8    | 35.9   | 7.0                | 100.0 | 71                          |
| Fourth                       | 0.9          | 0.0  | 2.5           | 96.8                 | 3,612           | (0.0)  | (11.5) | (29.2) | (5.3)  | (38.6) | (15.4)             | 100.0 | 33                          |
| Highest                      | 0.2          | 0.0  | 0.4           | 99.4                 | 4,128           | *  | *      | *      | *      | *      | *                  | 100.0 | 8                           |
| <b>Total</b>                 | 2.3          | 0.1  | 4.1           | 94.2                 | 17,578          | 0.0  | 18.1   | 35.6   | 9.9    | 32.7   | 3.7                | 100.0 | 410                         |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Overall, 6 percent of women in Cambodia use some form of tobacco, a slight decrease from self-reported tobacco use among women in the 2010 CDHS. Two percent smoke cigarettes and 4 percent use a form of tobacco other than cigarettes or a pipe (some women use more than one form of tobacco). Only 2 percent of pregnant women and 5 percent of women who are breastfeeding use tobacco. Tobacco use is much higher among men, with 32 percent of Cambodian men reporting that they smoke cigarettes and 5 percent reporting that they use other forms of tobacco.

Tobacco use varies greatly by background characteristics. Older women and men are much more likely to use tobacco than are younger women and men. Cigarette smoking increases from less than 1

percent among women age 15-19 to 5 percent among women 35-49. Similarly, reported cigarette smoking in men increases from 8 percent among those age 15-19 to 53 percent among those in the oldest age cohort. Use of tobacco other than cigarettes also increases with age among both women and men.

Table 5.9.2 Use of tobacco: Men

Percentage of men age 15-49 who smoke cigarettes or a pipe or use other tobacco products and the percent distribution of cigarette smokers by number of cigarettes smoked in preceding 24 hours, according to background characteristics, Cambodia 2014

| Background characteristic    | Uses tobacco |      |               |                      | Number of men | Percent distribution of men who smoke cigarettes by number of cigarettes smoked in the past 24 hours |      |      |      |      |                    | Total | Number of cigarette smokers |
|------------------------------|--------------|------|---------------|----------------------|---------------|--|------|------|------|------|--------------------|-------|-----------------------------|
|                              | Cigarettes   | Pipe | Other tobacco | Does not use tobacco |               | 0  | 1-2  | 3-5  | 6-9  | 10+  | Don't know/missing |       |                             |
| <b>Age</b>                   |              |      |               |                      |               |  |      |      |      |      |                    |       |                             |
| 15-19                        | 8.2          | 0.1  | 1.1           | 91.8                 | 926           | 0.0  | 20.2 | 27.2 | 14.1 | 38.4 | 0.0                | 100.0 | 76                          |
| 20-24                        | 23.7         | 0.0  | 2.9           | 76.1                 | 835           | 0.0  | 6.7  | 15.9 | 8.2  | 69.2 | 0.0                | 100.0 | 198                         |
| 25-29                        | 25.0         | 0.0  | 3.2           | 74.6                 | 815           | 0.1  | 2.4  | 12.0 | 7.7  | 77.8 | 0.0                | 100.0 | 204                         |
| 30-34                        | 36.8         | 0.1  | 6.8           | 62.1                 | 907           | 0.6  | 3.0  | 15.5 | 8.2  | 72.7 | 0.0                | 100.0 | 334                         |
| 35-39                        | 45.5         | 0.1  | 6.3           | 53.0                 | 556           | 0.0  | 2.5  | 7.2  | 4.2  | 86.1 | 0.0                | 100.0 | 253                         |
| 40-44                        | 48.7         | 0.1  | 7.1           | 49.2                 | 595           | 0.0  | 3.6  | 7.7  | 7.7  | 81.0 | 0.0                | 100.0 | 290                         |
| 45-49                        | 53.4         | 0.0  | 10.5          | 45.1                 | 556           | 0.0  | 1.1  | 10.7 | 7.3  | 80.6 | 0.3                | 100.0 | 297                         |
| <b>Residence</b>             |              |      |               |                      |               |  |      |      |      |      |                    |       |                             |
| Urban                        | 21.6         | 0.0  | 1.5           | 78.4                 | 869           | 0.1  | 9.7  | 17.5 | 8.8  | 63.9 | 0.0                | 100.0 | 187                         |
| Rural                        | 33.9         | 0.1  | 5.7           | 65.1                 | 4,321         | 0.1  | 3.1  | 11.5 | 7.4  | 77.8 | 0.1                | 100.0 | 1,466                       |
| <b>Province</b>              |              |      |               |                      |               |  |      |      |      |      |                    |       |                             |
| Banteay Meanchey             | 34.7         | 0.0  | 0.7           | 64.7                 | 192           | 0.0  | 1.8  | 10.2 | 3.0  | 85.0 | 0.0                | 100.0 | 67                          |
| Kampong Cham                 | 37.9         | 0.0  | 2.1           | 61.1                 | 663           | 0.0  | 1.6  | 4.3  | 8.8  | 85.3 | 0.0                | 100.0 | 251                         |
| Kampong Chhnang              | 25.4         | 0.0  | 10.7          | 66.6                 | 182           | 0.0  | 2.2  | 18.3 | 5.8  | 73.7 | 0.0                | 100.0 | 46                          |
| Kampong Speu                 | 30.9         | 0.0  | 0.0           | 69.1                 | 323           | 0.0  | 11.2 | 14.2 | 7.0  | 67.6 | 0.0                | 100.0 | 100                         |
| Kampong Thom                 | 34.8         | 0.0  | 2.4           | 63.4                 | 232           | 0.0  | 0.0  | 4.8  | 11.3 | 83.9 | 0.0                | 100.0 | 81                          |
| Kandal                       | 22.4         | 0.0  | 1.6           | 76.5                 | 413           | 0.0  | 0.0  | 36.3 | 4.7  | 59.0 | 0.0                | 100.0 | 93                          |
| Kratie                       | 37.5         | 0.0  | 0.0           | 62.5                 | 143           | 0.0  | 5.5  | 12.1 | 9.8  | 72.6 | 0.0                | 100.0 | 54                          |
| Phnom Penh                   | 17.9         | 0.0  | 2.6           | 82.1                 | 550           | 2.2  | 18.3 | 21.7 | 7.2  | 50.7 | 0.0                | 100.0 | 99                          |
| Prey Veng                    | 31.6         | 0.0  | 31.6          | 67.8                 | 342           | 0.0  | 0.0  | 19.1 | 7.2  | 73.7 | 0.0                | 100.0 | 108                         |
| Pursat                       | 30.3         | 0.0  | 2.1           | 69.7                 | 184           | 0.0  | 9.1  | 7.1  | 12.8 | 69.6 | 1.3                | 100.0 | 56                          |
| Siem Reap                    | 40.6         | 0.0  | 0.3           | 59.1                 | 337           | 0.0  | 3.5  | 13.3 | 2.9  | 80.3 | 0.0                | 100.0 | 137                         |
| Svay Rieng                   | 29.6         | 0.0  | 3.4           | 68.1                 | 183           | 0.0  | 6.7  | 12.2 | 5.7  | 75.4 | 0.0                | 100.0 | 54                          |
| Takeo                        | 30.3         | 0.0  | 1.0           | 68.7                 | 334           | 0.1  | 1.6  | 6.9  | 7.6  | 83.8 | 0.0                | 100.0 | 101                         |
| Otdar Meanchey               | 41.2         | 0.0  | 0.4           | 58.4                 | 99            | 0.0  | 1.7  | 5.8  | 8.6  | 83.9 | 0.0                | 100.0 | 41                          |
| Battambang/Pailin            | 31.4         | 0.0  | 0.0           | 68.6                 | 405           | 0.0  | 0.0  | 3.8  | 8.8  | 87.4 | 0.0                | 100.0 | 127                         |
| Kampot/Kep                   | 37.0         | 0.0  | 4.2           | 63.0                 | 241           | 0.0  | 4.5  | 12.5 | 5.0  | 78.0 | 0.0                | 100.0 | 89                          |
| Preah Sihanouk/<br>Koh Kong  | 37.9         | 0.0  | 0.0           | 62.1                 | 120           | 0.0  | 4.7  | 7.5  | 12.8 | 75.0 | 0.0                | 100.0 | 46                          |
| Preah Vihear/<br>Stung Treng | 44.7         | 0.0  | 8.3           | 55.3                 | 112           | 0.0  | 6.3  | 17.0 | 15.2 | 61.5 | 0.0                | 100.0 | 50                          |
| Mondul Kiri/<br>Ratanak Kiri | 40.2         | 1.7  | 40.1          | 58.4                 | 134           | 0.0  | 0.7  | 15.9 | 5.0  | 78.4 | 0.0                | 100.0 | 54                          |
| <b>Education</b>             |              |      |               |                      |               |  |      |      |      |      |                    |       |                             |
| No education                 | 59.4         | 0.2  | 16.3          | 38.0                 | 324           | 0.0  | 4.8  | 7.5  | 4.6  | 83.1 | 0.0                | 100.0 | 193                         |
| Primary                      | 41.8         | 0.1  | 5.8           | 56.9                 | 2,167         | 0.0  | 2.0  | 9.7  | 8.3  | 79.9 | 0.1                | 100.0 | 906                         |
| Secondary and higher         | 20.5         | 0.0  | 2.9           | 79.2                 | 2,699         | 0.4  | 6.6  | 17.7 | 7.3  | 68.0 | 0.0                | 100.0 | 554                         |
| <b>Wealth quintile</b>       |              |      |               |                      |               |  |      |      |      |      |                    |       |                             |
| Lowest                       | 46.9         | 0.1  | 9.6           | 50.7                 | 901           | 0.0  | 1.9  | 11.8 | 10.5 | 75.8 | 0.0                | 100.0 | 422                         |
| Second                       | 36.4         | 0.1  | 6.7           | 62.4                 | 954           | 0.0  | 2.5  | 8.7  | 8.6  | 80.2 | 0.0                | 100.0 | 348                         |
| Middle                       | 34.1         | 0.1  | 6.0           | 65.2                 | 1,040         | 0.0  | 3.6  | 7.4  | 5.3  | 83.7 | 0.0                | 100.0 | 355                         |
| Fourth                       | 27.2         | 0.0  | 2.6           | 72.6                 | 1,124         | 0.7  | 4.5  | 13.8 | 5.4  | 75.3 | 0.2                | 100.0 | 306                         |
| Highest                      | 19.0         | 0.0  | 1.4           | 80.9                 | 1,171         | 0.1  | 9.2  | 23.4 | 6.8  | 60.5 | 0.0                | 100.0 | 223                         |
| <b>Total</b>                 | 31.8         | 0.0  | 5.0           | 67.3                 | 5,190         | 0.1  | 3.9  | 12.2 | 7.5  | 76.2 | 0.0                | 100.0 | 1,653                       |

Women and men in rural areas, those with less education, and those in the lower wealth quintiles are more likely to use tobacco. Only 1 percent of women in urban areas use tobacco, as compared with 7 percent of women in rural areas. Likewise, almost 22 percent of urban men report using tobacco, as compared with 35 percent of their rural counterparts. Tobacco use ranges from less than 1 percent among women with a secondary education or higher and those in the highest wealth quintile to 17 percent among women with no education and 14 percent among those in the lowest wealth quintile. Men show a pattern similar to that of women. Tobacco use rates are highest among women in Preah Vihear/Stung Treng, where 23 percent of women use tobacco, in the form of cigarettes (14 percent) or other form of tobacco (12 percent), and in Mondul Kiri/Ratanak Kiri (18 percent), where the proportion of women using cigarettes is 15 percent and that using other forms of tobacco is 11 percent). Among men, tobacco use is highest in



Preah Vihear/Stung Treng (45 percent), where high proportions of men report smoking cigarettes (45 percent). Using other forms of tobacco is highest among men in Mondul Kiri/Ratanak Kiri (40 percent).

Respondents who reported smoking cigarettes were asked to recall the number of cigarettes smoked in the past 24 hours. The differentials in smoking frequency among female smokers are very small due to the small number of women in Cambodia who smoke. However, Table 5.9.1 shows that 36 percent of women who smoke cigarettes report smoking 3-5 cigarettes per day, and 33 percent report smoking 10 or more cigarettes per day. Proportions among women are much lower than those among men, as can be seen in Table 4.9.2. Seventy-six percent of male smokers reported smoking 10 or more cigarettes in the past 24 hours. This proportion is much higher among men living in Battambang/Pailin, where 87 percent report smoking 10 or more cigarettes in the past 24 hours.



**Key Findings**

- The total fertility rate in Cambodia for the three years preceding the survey is 2.7 children per woman. Rural women have almost one child more than urban women.
- Fertility declined by 0.4 children per woman between 2005 and 2010, from 3.4 children to 3.0 children per woman, and slightly decreased further to 2.7 children in 2014.
- One-tenth of women age 25-49 gave birth by age 18 and 28 percent by age 20. The median age at first birth is 22.4 years.
- Thirty-seven percent of births occur within three years of a previous birth; 13 percent occur within 24 months.
- Twelve percent of young women age 15-19 are already mothers or pregnant with their first child.

Fertility is an important component of population dynamics and plays a large role in changing the size and structure of the population of a given area. In Cambodia, population size and structure were severely affected during the reign of the Khmer Rouge (1975-1979), in terms of both excess mortality and reduced fertility. The CDHS generates detailed information on fertility and fertility patterns over time that will be useful for the formulation of policies and the design of programs.

Current fertility levels, trends and differentials in fertility, cumulative fertility, birth intervals, age at first birth, and adolescent fertility are examined in this chapter. The fertility indicators presented in this chapter are based on information obtained from women age 15-49. All women who were interviewed in the 2014 CDHS were asked to report the total number of daughters and sons they had given birth to in their lifetime. To encourage complete reporting, women were asked separately about children still living at home, those living elsewhere, and those who had died. A complete birth history was then obtained, including information on the sex, date of birth,<sup>1</sup> and survival status of each child and the age at death for deceased children.

## 6.1 CURRENT FERTILITY LEVELS AND DIFFERENTIALS

The current level of fertility refers to live births in the three-year period preceding the survey. This information was obtained from birth history data and is presented in Table 6.1. The summary measures include age-specific fertility rates (ASFRs),<sup>2</sup> total fertility rates (TFRs) for women age 15-49, the general fertility rate (GFR), and the crude birth rate (CBR). The ASFRs represent the number of live births per 1,000 women in the age group. The TFR is a common measure of current fertility and is defined as the total number of births a woman would have by the end of her childbearing years if she were to pass through those years bearing children at the currently observed age-specific fertility rates. The GFR is

<sup>1</sup> During data collection, interviewers recorded Gregorian month and year of birth. However, when the respondent knew only the Khmer month and year of birth, the interviewer used a chart specially designed for the CDHS to convert Khmer dates into Gregorian dates.

<sup>2</sup> Numerators of the three-year ASFRs are calculated by summing the number of live births that occurred in the period 1-36 months preceding the survey (determined by the date of the interview and the date of birth of the child) and classifying them by age (in 5-year groups) of the mother at the time of the birth (determined by the mother's birth date). The denominators of the rates are the number of woman-years lived in each of the specified 5-year age groups during the 1-36 months preceding the survey.

defined as the annual number of births per 1,000 women age 15-44. The CBR is the total number of births occurring in a given year per 1,000 population.

The total fertility rate in Cambodia for the three years preceding the survey indicates that if fertility rates were to remain constant at the level prevailing during the period 2012-2014, a Cambodian woman would bear 2.7 children during her lifetime. The average Cambodian woman will give birth to 1.1 children by age 25<sup>3</sup> and 1.9 children by age 30. The TFR in urban areas is 2.1 births per woman, almost one child lower than the rate in rural areas (2.9 births per woman). An examination of age-specific rates by urban-rural residence indicates that the age pattern of fertility is quite different in urban and rural areas. Fertility rates are higher in nearly every age group for rural women than for urban women. Among women age 15-19, fertility rates are quite low in both urban and rural areas (21 and 66 per 1,000 women, respectively). Among rural women, rates quickly increase to reach their maximum at age 20-24 (179 per 1,000) and remain quite high at age 25-29 (156 per 1,000) before declining regularly above age 29. Among urban women, fertility rates increase from 21 per 1,000 at age 15-19 to 101 per 1,000 at age 20-24 and reach a maximum of 135 per 1,000 at age 25-29. They then decline regularly, similar to rates among rural women.

The CBR, also presented in Table 6.1, is 22.0 per 1,000 population. The GFR, the average annual number of births per 1,000 women age 15-44 for the three years prior to the survey, is 98. As with the TFR, the GFR and CBR vary by urban-rural residence. The GFR for rural women is 103 births per 1,000 women, which is about 36 percent higher than that for urban women (76 births per 1,000 women). Also, the CBR in rural areas (22.4 per 1,000 population) is approximately 10 percent higher than the CBR in urban areas (20.2 per 1,000 population).

**Table 6.1. Current fertility**

Age-specific and total fertility rates, the general fertility rate, and the crude birth rate for the three years preceding the survey, by residence, Cambodia 2014

| Age group   | Residence |       | Total |
|-------------|-----------|-------|-------|
|             | Urban     | Rural |       |
| 15-19       | 21        | 66    | 57    |
| 20-24       | 101       | 179   | 162   |
| 25-29       | 135       | 156   | 152   |
| 30-34       | 92        | 104   | 102   |
| 35-39       | 56        | 50    | 51    |
| 40-44       | 11        | 18    | 17    |
| 45-49       | 3         | 5     | 4     |
| TFR (15-49) | 2.1       | 2.9   | 2.7   |
| GFR         | 76        | 103   | 98    |
| CBR         | 20.2      | 22.4  | 22.0  |

Notes: Age-specific fertility rates are per 1,000 women. Rates for age group 45-49 may be slightly biased due to truncation. Rates are for the period 1-36 months prior to the interview.

TFR: Total fertility rate, expressed per woman

GFR: General fertility rate, expressed per 1,000 women age 15-44

CBR: Crude birth rate, expressed per 1,000 population

Table 6.2 presents differentials in fertility by urban-rural residence, province, education, and wealth quintile. There are large differences in fertility levels across provinces. Fertility is lowest in the capital city of Phnom Penh, at 2.0 children per woman, and highest in Preah Vihear/Stung Treng and Kratie, at 3.6 children per woman. Among the remaining provinces, total fertility ranges from 2.4 to 3.3. Fertility is well known to be inversely related to level of education around the world, and Cambodian women demonstrate this universal pattern. A woman with no education (TFR of 3.3) has 0.2 children more

<sup>3</sup> Calculated as the age-specific fertility rate for women age 15-19 plus the age-specific fertility rate for women age 20-24, multiplied by 5 (to take into account the five-year age group) and divided by 1,000.

than a woman with a primary school education (TFR of 3.1) and one child more than a woman with a secondary education or higher (TFR of 2.3). Fertility is also very closely associated with wealth. The disparity in fertility between the poorest women, who have the most children (3.8), and the richest women, who have the fewest (2.2), is 1.6 children per woman.

**Table 6.2 Fertility by background characteristics**

Total fertility rate for the three years preceding the survey, percentage of women age 15-49 currently pregnant, and mean number of children ever born to women age 40-49, by background characteristics, Cambodia 2014

| Background characteristic | Total fertility rate | Percentage of women age 15-49 currently pregnant | Mean number of children ever born to women age 40-49 |
|---------------------------|----------------------|--|--|
| <b>Residence</b>          |                      |  |  |
| Urban                     | 2.1                  | 4.9  | 3.0  |
| Rural                     | 2.9                  | 5.4  | 4.0  |
| <b>Province</b>           |                      |  |  |
| Banteay Meanchey          | 2.8                  | 5.2  | 4.0  |
| Kampong Cham              | 3.3                  | 3.5  | 3.9  |
| Kampong Chhnang           | 2.4                  | 5.4  | 4.2  |
| Kampong Speu              | 2.4                  | 6.3  | 4.1  |
| Kampong Thom              | 2.9                  | 5.8  | 4.4  |
| Kandal                    | 2.5                  | 5.7  | 3.9  |
| Kratie                    | 3.6                  | 7.3  | 4.5  |
| Phnom Penh                | 2.0                  | 4.6  | 2.8  |
| Prey Veng                 | 3.0                  | 4.9  | 3.5  |
| Pursat                    | 3.1                  | 5.9  | 4.0  |
| Siem Reap                 | 2.7                  | 5.2  | 3.9  |
| Svay Rieng                | 2.5                  | 5.7  | 3.4  |
| Takeo                     | 2.4                  | 3.9  | 3.7  |
| Otdar Meanchey            | 3.0                  | 8.5  | 4.6  |
| Battambang/Pailin         | 2.9                  | 5.5  | 3.8  |
| Kampot/Kep                | 2.5                  | 4.9  | 3.9  |
| Preah Sihanouk/Koh Kong   | 2.7                  | 5.8  | 4.1  |
| Preah Vihear/Stung Treng  | 3.6                  | 9.5  | 5.2  |
| Mondul Kiri/Ratanak Kiri  | 3.3                  | 6.9  | 4.8  |
| <b>Education</b>          |                      |  |  |
| No education              | 3.3                  | 4.5  | 4.3  |
| Primary                   | 3.1                  | 5.3  | 4.0  |
| Secondary and higher      | 2.3                  | 5.6  | 3.1  |
| <b>Wealth quintile</b>    |                      |  |  |
| Lowest                    | 3.8                  | 5.2  | 4.4  |
| Second                    | 2.8                  | 6.4  | 4.3  |
| Middle                    | 2.8                  | 4.9  | 3.9  |
| Fourth                    | 2.4                  | 5.2  | 3.7  |
| Highest                   | 2.2                  | 4.9  | 3.0  |
| Total                     | 2.7                  | 5.3  | 3.9  |

Note: Total fertility rates are for the period 1-36 months prior to the interview.

Table 6.2 includes another indicator of current fertility, the percentage of women who reported being pregnant at the time of the survey. This percentage may be underreported because women may not be aware of a pregnancy, especially at the very early stages, and some women who are early in their pregnancy may not want to reveal that they are pregnant. Five percent of women reported that they were pregnant at the time of the survey. The proportion of pregnant women in urban areas and rural areas is about the same. Kampong Cham and Takeo had the lowest proportion of pregnant women (4 percent), and Preah Vihear/Stung Treng (10 percent) and Otdar/Meanchey (9 percent) had the highest. The proportion of women who are currently pregnant rises slightly as education increases. There is no clear relationship between current pregnancy and wealth quintile.

## 6.2 FERTILITY TRENDS

The 2014 CDHS data can be used to assess trends in fertility in Cambodia in several ways.

### 6.2.1 Comparison of Current and Cumulative Fertility Levels

Table 6.2 shows the mean number of live births among women age 40 to 49. This figure is an indicator of completed, or cumulative, fertility. Unlike the TFR, which measures the current or recent fertility of women age 15 to 49, cumulative fertility shows the past fertility of women surveyed at the end of their childbearing years. In a population whose fertility does not change, the level of cumulative fertility more or less coincides with the TFR. But TFRs that are lower than the mean number of children ever born to women at the end of their childbearing years indicate a downward trend in fertility.

In Cambodia, women age 40-49 have given birth to an average of 3.9 children. This is higher than the TFR (2.7). The difference, although small (1.2), suggests a substantial decline in fertility. Data from previous CDHS surveys show a difference between the two rates of 1.4 children in 2000, 1.5 children in 2005, and 1.2 children in 2010.

Fertility results by background characteristics show cumulative fertility rates above the TFR for all categories, indicating that fertility is declining among all women. However, the difference between cumulative fertility (number of children ever born) and the TFR is greatest in Kampong Chhnang (1.8 children).

### 6.2.2 Retrospective Data

Fertility trends can be investigated using retrospective data from the birth histories collected within the 2014 CDHS. Table 6.3.1 and Figure 6.1 show age-specific fertility rates (ASFRs) for successive five-year periods preceding the 2014 CDHS. Numerators of the rates are classified by five-year segments of time preceding the survey and the mother's age at the time of birth. Because women age 50 and over were not interviewed in the survey, the rates for older age groups become progressively more truncated for periods more distant from the survey date. For example, rates cannot be calculated for women age 35-39 for the period 15-19 years before the survey because these women would have been over age 50 at the time of the survey and were not interviewed.

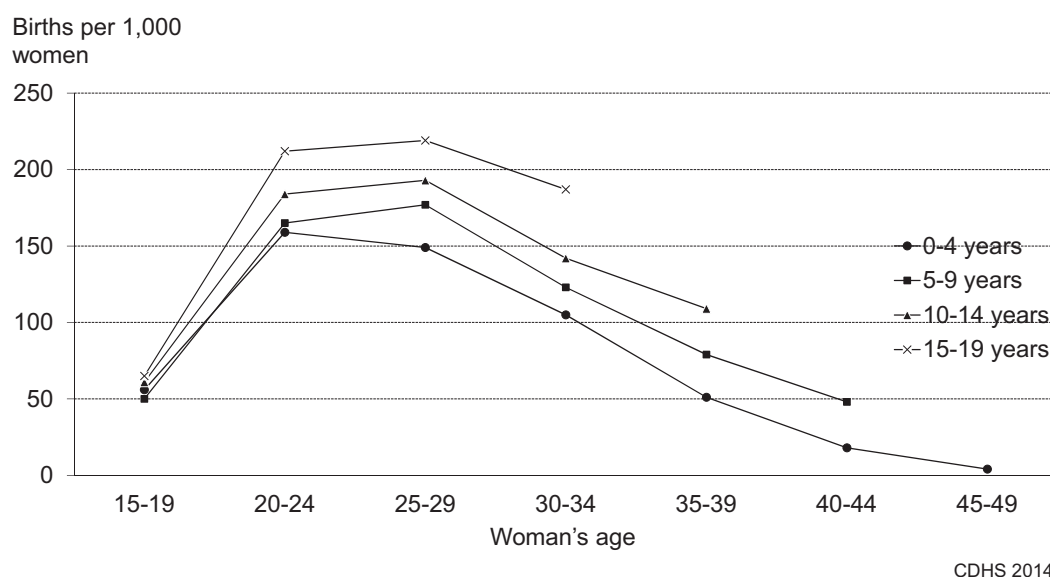
Table 6.3.1 Trends in age-specific fertility rates

Age-specific fertility rates for five-year periods preceding the survey, by mother's age at the time of the birth, Cambodia 2014

| Mother's age at birth | Number of years preceding survey |      |       |       |
|-----------------------|----------------------------------|------|-------|-------|
|                       | 0-4                              | 5-9  | 10-14 | 15-19 |
| 15-19                 | 56                               | 50   | 61    | 65    |
| 20-24                 | 159                              | 165  | 184   | 212   |
| 25-29                 | 149                              | 177  | 193   | 219   |
| 30-34                 | 105                              | 123  | 142   | [187] |
| 35-39                 | 51                               | 79   | [109] |       |
| 40-44                 | 18                               | [48] |       |       |
| 45-49                 | [4]                              |      |       |       |

Note: Age-specific fertility rates are per 1,000 women. Estimates in brackets are truncated. Rates exclude the month of the interview.

**Figure 6.1 Age-specific fertility rates for five-year periods preceding the survey**



Age-specific fertility rates calculated over time provide further evidence of a substantial decline in fertility at all ages. Among young women age 15-19, the ASFR declined from 65 per 1,000 15-19 years before the survey to 50 per 1,000 5-9 years before the survey and then slightly increased to 56 per 1,000 during the most recent period (0-4 years before the survey). Fertility rates have also progressively declined over time among women age 20-49 at the birth of their child. For instance, among mothers age 20-24 when they gave birth, the ASFR fell from 212 per 1,000 15-19 years before the survey to 159 per 1,000 0-4 years before the survey. A similar pattern was observed among women in the other age groups. The data further show that the decline in fertility rates has slowed slightly in recent years.

### 6.2.3 Comparison with Previous CDHS

Another way to assess fertility trends is to compare current estimates with earlier surveys. Table 6.3.2 and Figure 6.2 show the ASFRs for the 2005, 2010, and 2014 CDHSs. The current TFR of 2.7 attests to a decline in fertility, from 3.4 children per woman reported in the 2005 CDHS. As mentioned, the decline in fertility has slowed slightly in recent years: the TFR decreased by 0.6 children per woman between 2000 and 2005 (data not shown), by 0.4 between 2005 and 2010, and by 0.3 between 2010 and 2014. Although fertility declined in both urban and rural areas, the change in the TFR between the 2010 CDHS and the 2014 CDHS occurred predominantly as a result of declining fertility among rural women. The TFR decreased by 0.4 children among rural women and by 0.1 children among urban women.

**Table 6.3.2 Trends in fertility**

Age-specific and total fertility rates (TFR) for the three years preceding the survey, Cambodia 2005, 2010, and 2014

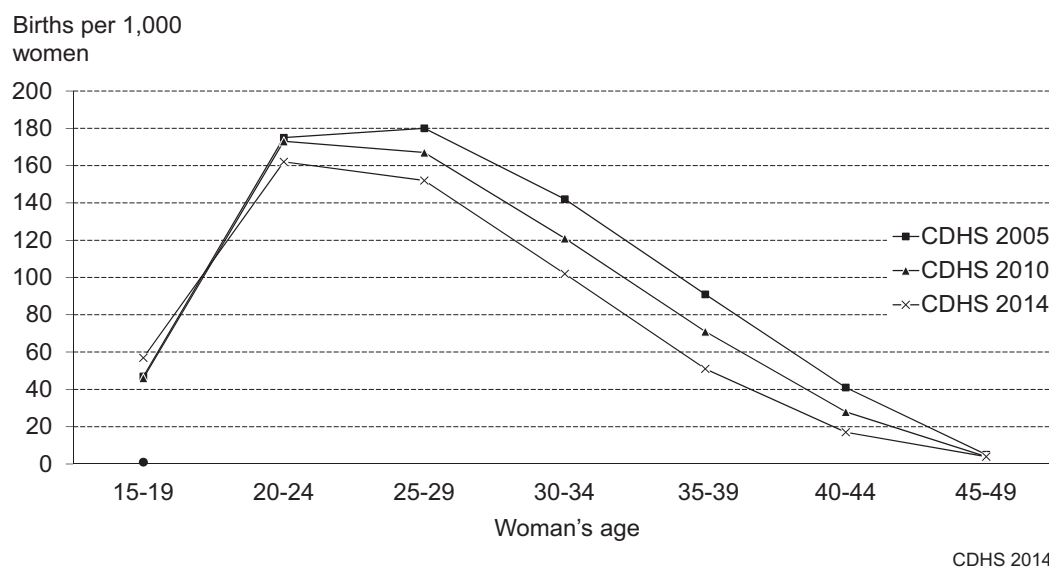
| Age group | CDHS 2005 <sup>1</sup> | CDHS 2010 <sup>2</sup> | CDHS 2014 |
|-----------|------------------------|------------------------|-----------|
| 15-19     | 47                     | 46                     | 57        |
| 20-24     | 175                    | 173                    | 162       |
| 25-29     | 180                    | 167                    | 152       |
| 30-34     | 142                    | 121                    | 102       |
| 35-39     | 91                     | 71                     | 51        |
| 40-44     | 41                     | 28                     | 28        |
| 45-49     | 5                      | 4                      | 5         |
| Total     | 3.4                    | 3.0                    | 2.7       |

Note: Age-specific fertility rates are per 1,000 women.

<sup>1</sup> NIPH, NIS, and ORC Macro, 2006

<sup>2</sup> NIS, DGH, and ICF Macro, 2011

**Figure 6.2 Trends in age-specific fertility rates, Cambodia 2005, 2010, and 2014**



Declines in ASFRs between 2010 and 2014 have occurred among women age 20-24 and older. The age groups in which women have demonstrated the largest decreases in fertility are 25-29, 30-34, and 35-39, with women in these age groups showing a decrease of 15-20 births per 1,000 women. In contrast, there has been a rise in teenage fertility in Cambodia over the past few years, with age-specific fertility rates among young women age 15-19 increasing from 46 children per 1,000 women in 2010 to 57 children per 1,000 women in 2014.

### 6.3 CHILDREN EVER BORN AND LIVING

Data on the number of children ever born reflect the accumulation of births over the past 30 years and therefore have limited relevance to current fertility levels, particularly when a country has experienced a decline in fertility. Nevertheless, information on children ever born (or parity) is useful in looking at how average family size varies across age groups and in assessing the level of primary infertility, the inability to bear children. A comparison of the differences in the mean number of children ever born and surviving reflects the cumulative effects of mortality levels during the period in which women have been bearing children.

Table 6.4 shows the percent distribution of all women and currently married women by the number of children ever born, the mean number of children ever born, and the mean number of children living. More than 9 in 10 women age 15-19 (93 percent) have never given birth. However, this proportion declines quickly to 23 percent among women age 25-29 and to 9 percent or less among women age 35 and above. On average, Cambodian women have attained a parity of 4.1 children by the end of their reproductive years. This is 1.4 children more than the total fertility rate, a difference brought about by sustained declines in fertility.



Table 6.4 Children ever born and living

Percent distribution of all women and currently married women age 15-49 by number of children ever born, mean number of children ever born, and mean number of living children, according to age group, Cambodia 2014

| Age                     | Number of children ever born |      |      |      |      |      |      |     |     |     |     | Total | Number of women | Mean number of children ever born | Mean number of living children |
|-------------------------|------------------------------|------|------|------|------|------|------|-----|-----|-----|-----|-------|-----------------|-----------------------------------|--------------------------------|
|                         | 0                            | 1    | 2    | 3    | 4    | 5    | 6    | 7   | 8   | 9   | 10+ |       |                 |                                   |                                |
| ALL WOMEN               |                              |      |      |      |      |      |      |     |     |     |     |       |                 |                                   |                                |
| 15-19                   | 92.7                         | 6.7  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 2,893           | 0.08                              | 0.08                           |
| 20-24                   | 50.6                         | 34.7 | 13.1 | 1.4  | 0.3  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 3,017           | 0.66                              | 0.64                           |
| 25-29                   | 23.0                         | 28.9 | 33.3 | 11.5 | 2.7  | 0.6  | 0.1  | 0.1 | 0.0 | 0.0 | 0.0 | 100.0 | 2,836           | 1.44                              | 1.39                           |
| 30-34                   | 11.1                         | 14.7 | 34.8 | 23.9 | 10.3 | 3.7  | 1.1  | 0.2 | 0.1 | 0.1 | 0.0 | 100.0 | 3,046           | 2.25                              | 2.14                           |
| 35-39                   | 8.7                          | 7.4  | 21.9 | 24.0 | 20.4 | 9.7  | 4.0  | 2.9 | 0.7 | 0.3 | 0.0 | 100.0 | 1,839           | 3.06                              | 2.81                           |
| 40-44                   | 7.1                          | 6.0  | 16.3 | 21.4 | 19.7 | 13.2 | 9.2  | 4.1 | 1.3 | 0.8 | 0.9 | 100.0 | 2,030           | 3.59                              | 3.23                           |
| 45-49                   | 6.8                          | 6.4  | 10.9 | 16.4 | 18.6 | 14.6 | 12.1 | 6.1 | 4.4 | 1.7 | 2.2 | 100.0 | 1,916           | 4.13                              | 3.57                           |
| Total                   | 32.0                         | 16.4 | 19.1 | 13.0 | 8.7  | 4.9  | 3.0  | 1.5 | 0.7 | 0.3 | 0.3 | 100.0 | 17,578          | 1.93                              | 1.77                           |
| CURRENTLY MARRIED WOMEN |                              |      |      |      |      |      |      |     |     |     |     |       |                 |                                   |                                |
| 15-19                   | 56.8                         | 39.5 | 3.6  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 450             | 0.47                              | 0.46                           |
| 20-24                   | 22.3                         | 54.4 | 20.8 | 2.1  | 0.3  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 1,833           | 1.04                              | 1.00                           |
| 25-29                   | 9.1                          | 32.4 | 40.4 | 14.0 | 3.4  | 0.7  | 0.1  | 0.1 | 0.0 | 0.0 | 0.0 | 100.0 | 2,249           | 1.73                              | 1.67                           |
| 30-34                   | 3.3                          | 14.3 | 38.6 | 26.7 | 11.5 | 4.1  | 1.3  | 0.2 | 0.1 | 0.1 | 0.0 | 100.0 | 2,625           | 2.48                              | 2.36                           |
| 35-39                   | 3.4                          | 5.5  | 22.9 | 25.7 | 22.7 | 10.9 | 4.4  | 3.3 | 0.8 | 0.3 | 0.0 | 100.0 | 1,573           | 3.33                              | 3.06                           |
| 40-44                   | 2.3                          | 3.9  | 16.4 | 23.0 | 21.3 | 14.4 | 10.3 | 4.9 | 1.5 | 0.8 | 1.1 | 100.0 | 1,673           | 3.90                              | 3.52                           |
| 45-49                   | 2.4                          | 4.4  | 10.0 | 17.3 | 19.0 | 16.4 | 13.7 | 7.5 | 5.1 | 1.8 | 2.5 | 100.0 | 1,495           | 4.53                              | 3.91                           |
| Total                   | 9.1                          | 21.0 | 26.1 | 17.7 | 11.6 | 6.6  | 4.0  | 2.1 | 1.0 | 0.4 | 0.5 | 100.0 | 11,898          | 2.61                              | 2.40                           |

The same pattern is observed for currently married women, except that the mean number of children ever born is higher for currently married women (2.6 children) than for all women (1.9 children). The difference between all women and currently married women in mean number of children ever born is due to the substantial proportion of young and unmarried women in the all-women category who exhibit lower fertility. For example, only 7 percent of teenage women overall have given birth to a child, whereas 43 percent of currently married teenage women have begun childbearing.

As would be expected, the mean number of children ever born and the mean number of children surviving rise monotonically as age increases. A comparison of the mean number of children ever born with the mean number of living children reveals the experience of child loss among Cambodian women. By the end of their reproductive years (age 45-49), married women in Cambodia have given birth, on average, to 4.5 children, with 3.9 surviving.

Voluntary childlessness is not common in Cambodia, and currently married women with no children are likely to be those who are unable to bear children (primary infertility). Whereas 57 percent of currently married adolescent women are childless, this proportion decreases to 9 percent among currently married women age 25-29 and continues to decline with increasing age. The percentage of childless women among currently married women at the end of the reproductive period (age 45-49) shows that primary infertility among currently married women is low (2 percent).

## 6.4 BIRTH INTERVALS

Longer birth intervals contribute to improved health status of both mother and child (Rutstein, 2005). Infants born within two years of the birth of a previous child experience a higher risk of health problems. Table 6.5 shows the distribution of second- and higher-order births that occurred in the five years preceding the survey by the number of months since the previous birth, according to background characteristics.

Table 6.5 Birth intervals

Percent distribution of non-first births in the five years preceding the survey by number of months since preceding birth, and median number of months since preceding birth, according to background characteristics, Cambodia 2014

| Background characteristic          | Months since preceding birth |       |       |       |       |      | Total | Number of non-first births | Median number of months since preceding birth |
|------------------------------------|------------------------------|-------|-------|-------|-------|------|-------|----------------------------|---|
|                                    | 7-17                         | 18-23 | 24-35 | 36-47 | 48-59 | 60+  |       |                            |   |
| <b>Age</b>                         |                              |       |       |       |       |      |       |                            |   |
| 15-19                              | *                            | *     | *     | *     | *     | *    | 100.0 | 17                         | *   |
| 20-29                              | 6.8                          | 12.2  | 28.6  | 23.7  | 13.2  | 15.3 | 100.0 | 1,807                      | 37.1  |
| 30-39                              | 4.0                          | 5.5   | 20.8  | 17.4  | 15.2  | 37.1 | 100.0 | 2,233                      | 49.6  |
| 40-49                              | 4.3                          | 3.1   | 16.2  | 11.7  | 11.1  | 53.6 | 100.0 | 374                        | 63.6  |
| <b>Sex of preceding birth</b>      |                              |       |       |       |       |      |       |                            |   |
| Male                               | 5.5                          | 8.0   | 20.9  | 20.8  | 13.7  | 31.1 | 100.0 | 2,306                      | 44.5  |
| Female                             | 4.9                          | 8.2   | 26.5  | 18.3  | 14.4  | 27.7 | 100.0 | 2,124                      | 42.7  |
| <b>Survival of preceding birth</b> |                              |       |       |       |       |      |       |                            |   |
| Living                             | 4.2                          | 7.9   | 23.2  | 20.1  | 14.2  | 30.4 | 100.0 | 4,189                      | 44.5  |
| Dead                               | 22.5                         | 12.4  | 31.2  | 9.8   | 11.1  | 13.1 | 100.0 | 242                        | 30.6  |
| <b>Birth order</b>                 |                              |       |       |       |       |      |       |                            |   |
| 2-3                                | 5.1                          | 8.3   | 23.8  | 20.8  | 14.4  | 27.6 | 100.0 | 3,274                      | 43.4  |
| 4-6                                | 4.0                          | 7.7   | 22.0  | 15.9  | 13.2  | 37.1 | 100.0 | 971                        | 48.3  |
| 7+                                 | 13.8                         | 5.8   | 29.7  | 17.4  | 11.2  | 22.2 | 100.0 | 186                        | 36.3  |
| <b>Residence</b>                   |                              |       |       |       |       |      |       |                            |   |
| Urban                              | 5.1                          | 8.2   | 21.1  | 18.9  | 12.8  | 33.9 | 100.0 | 616                        | 45.7  |
| Rural                              | 5.2                          | 8.1   | 24.0  | 19.7  | 14.2  | 28.8 | 100.0 | 3,815                      | 43.5  |
| <b>Province</b>                    |                              |       |       |       |       |      |       |                            |   |
| Banteay Meanchey                   | 7.2                          | 8.4   | 15.7  | 14.9  | 14.5  | 39.3 | 100.0 | 129                        | 50.5  |
| Kampong Cham                       | 5.2                          | 5.1   | 24.6  | 21.5  | 14.3  | 29.3 | 100.0 | 637                        | 44.9  |
| Kampong Chhnang                    | 4.1                          | 9.6   | 25.6  | 18.0  | 18.5  | 24.1 | 100.0 | 153                        | 41.6  |
| Kampong Speu                       | 3.8                          | 9.2   | 23.4  | 22.8  | 13.4  | 27.4 | 100.0 | 265                        | 43.9  |
| Kampong Thom                       | 5.7                          | 5.8   | 23.3  | 17.3  | 16.5  | 31.3 | 100.0 | 217                        | 45.7  |
| Kandal                             | 5.7                          | 7.2   | 26.3  | 21.1  | 13.4  | 26.3 | 100.0 | 339                        | 42.9  |
| Kratie                             | 2.5                          | 11.8  | 30.0  | 18.0  | 11.2  | 26.6 | 100.0 | 177                        | 37.8  |
| Phnom Penh                         | 4.1                          | 7.8   | 22.0  | 17.8  | 12.9  | 35.3 | 100.0 | 370                        | 46.5  |
| Prey Veng                          | 4.3                          | 6.2   | 24.4  | 15.2  | 13.4  | 36.5 | 100.0 | 284                        | 47.9  |
| Pursat                             | 2.9                          | 8.1   | 29.2  | 19.0  | 19.1  | 21.6 | 100.0 | 191                        | 41.3  |
| Siem Reap                          | 7.6                          | 13.5  | 25.1  | 18.8  | 11.1  | 23.9 | 100.0 | 341                        | 38.6  |
| Svay Rieng                         | 2.4                          | 5.2   | 14.7  | 22.2  | 19.0  | 36.5 | 100.0 | 140                        | 51.1  |
| Takeo                              | 5.4                          | 10.4  | 19.9  | 16.9  | 17.8  | 29.6 | 100.0 | 228                        | 44.6  |
| Otdar Meanchey                     | 3.0                          | 8.7   | 21.0  | 19.8  | 16.6  | 30.9 | 100.0 | 86                         | 45.7  |
| Battambang/Pailin                  | 7.7                          | 5.4   | 18.7  | 26.9  | 12.2  | 29.2 | 100.0 | 313                        | 43.5  |
| Kampot/Kep                         | 2.8                          | 8.0   | 25.6  | 16.8  | 12.1  | 34.7 | 100.0 | 156                        | 46.2  |
| Preah Sihanouk/Koh Kong            | 6.3                          | 8.3   | 21.8  | 17.2  | 14.8  | 31.7 | 100.0 | 106                        | 46.2  |
| Preah Vihear/Stung Treng           | 8.8                          | 9.7   | 23.9  | 22.9  | 10.4  | 24.3 | 100.0 | 152                        | 38.7  |
| Mondul Kiri/Ratanak Kiri           | 6.2                          | 13.6  | 28.3  | 15.0  | 11.4  | 25.5 | 100.0 | 148                        | 36.9  |
| <b>Education</b>                   |                              |       |       |       |       |      |       |                            |   |
| No education                       | 6.1                          | 8.2   | 26.3  | 15.8  | 13.0  | 30.5 | 100.0 | 791                        | 41.4  |
| Primary                            | 5.4                          | 7.9   | 22.7  | 19.2  | 14.0  | 30.8 | 100.0 | 2,518                      | 44.5  |
| Secondary and higher               | 4.0                          | 8.5   | 23.7  | 23.1  | 14.9  | 25.8 | 100.0 | 1,122                      | 43.4  |
| <b>Wealth quintile</b>             |                              |       |       |       |       |      |       |                            |   |
| Lowest                             | 7.1                          | 8.6   | 27.2  | 20.4  | 14.4  | 22.4 | 100.0 | 1,214                      | 38.7  |
| Second                             | 3.9                          | 8.4   | 25.3  | 17.0  | 14.4  | 31.0 | 100.0 | 930                        | 44.4  |
| Middle                             | 4.7                          | 9.0   | 23.2  | 20.3  | 12.5  | 30.3 | 100.0 | 772                        | 43.4  |
| Fourth                             | 4.8                          | 8.3   | 19.4  | 18.8  | 16.2  | 32.6 | 100.0 | 681                        | 47.0  |
| Highest                            | 4.5                          | 6.1   | 20.5  | 21.2  | 12.8  | 35.0 | 100.0 | 834                        | 47.1  |
| <b>Total</b>                       | 5.2                          | 8.1   | 23.6  | 19.6  | 14.0  | 29.5 | 100.0 | 4,431                      | 43.8  |

Note: First-order births are excluded. The interval for multiple births is the number of months since the preceding pregnancy that ended in a live birth. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

In 2014, 13 percent of non-first births in Cambodia occurred less than 24 months after the preceding birth (as compared with 16 percent in 2010 and 18 percent in 2005), with 5 percent occurring less than 18 months after the preceding birth. Sixty-three percent of women gave birth at least 36 months after the previous birth, an improvement over the figure from the 2010 CDHS (58 percent). The overall median birth interval was 43.8 months. This means that half of the births in Cambodia occur within 43.8 months of the previous birth, and half occur after an interval of 43.8 months or longer.

The data also indicate that median birth intervals increase as age increases, from 37.1 months among women age 20-29 to 63.6 months among women age 40 and above. Birth intervals do not vary appreciably by sex of the preceding child or urban-rural residence. However, birth intervals vary markedly by the survival status of the preceding birth: 23 percent of births occur within an 18-month interval when the preceding child has died, as compared with 4 percent when the child is still alive. The median birth interval is 44.5 months if the previous child is living but falls to 30.6 months if the preceding child died. Median birth intervals are shortest in Kratie (37.8 months) and Mondul Kiri/Ratanak Kiri (36.9 months) and significantly longer in Banteay Meanchey (50.5 months) and Svay Rieng (51.1 months). Mothers with more education have slightly longer birth intervals: those with no education have a median birth interval of 41.4 months, whereas those with a primary education have a median birth interval of 44.5 months and those with a secondary education or higher have a median birth interval of 43.4 months. The median birth interval is shortest among women in the lowest wealth quintile (38.7 months) and longest among those in the highest wealth quintile (47.1 months).

## 6.5 AGE AT FIRST BIRTH

Early age at childbearing has a detrimental effect on the health of both mother and child. It also frequently leads to a longer reproductive span and a higher level of fertility. Table 6.6 shows the percentage of women age 15-49 who have given birth by exact ages, the percentage who have never given birth, and the median age at first birth, according to current age. The youngest cohort of women for whom median age at first birth can be calculated is 25-29 years. The medians age for women in the 15-19 and 20-24 age groups cannot be determined because fewer than half of these women had a birth before reaching the lowest age of the age group.

Table 6.6 Age at first birth

Percentage of women age 15-49 who gave birth by exact ages, percentage who have never given birth, and median age at first birth, according to current age, Cambodia 2014

| Current age | Percentage who gave birth by exact age |      |      |      |      | Percentage who have never given birth | Number of women | Median age at first birth |
|-------------|--|------|------|------|------|---------------------------------------|-----------------|---------------------------|
|             | 15                                     | 18   | 20   | 22   | 25   |                                       |                 |                           |
| 15-19       | 0.2                                    | na   | na   | na   | na   | 92.7                                  | 2,893           | a                         |
| 20-24       | 0.4                                    | 7.0  | 24.1 | na   | na   | 50.6                                  | 3,017           | a                         |
| 25-29       | 0.5                                    | 6.9  | 21.9 | 41.1 | 65.4 | 23.0                                  | 2,836           | 22.9                      |
| 30-34       | 0.5                                    | 10.3 | 26.4 | 44.5 | 66.0 | 11.1                                  | 3,046           | 22.7                      |
| 35-39       | 0.8                                    | 13.3 | 33.3 | 51.9 | 73.6 | 8.7                                   | 1,839           | 21.8                      |
| 40-44       | 0.9                                    | 11.7 | 32.0 | 53.4 | 75.5 | 7.1                                   | 2,030           | 21.7                      |
| 45-49       | 1.6                                    | 12.6 | 27.7 | 46.5 | 69.2 | 6.8                                   | 1,916           | 22.4                      |
| 25-49       | 0.8                                    | 10.5 | 27.6 | 46.7 | 69.2 | 12.2                                  | 11,668          | 22.4                      |

na = Not applicable due to censoring

a = Omitted because less than 50 percent of women had a birth before reaching the beginning of the age group

Whereas less than 1 percent of women in the 25-49 age group had given birth by age 15, 11 percent had given birth by age 18 and 28 percent by age 20. The percentage who had given birth by age 18 does not vary much between ages 30 and 49, but it is slightly lower among the youngest cohorts (7 percent), implying a trend toward postponement of childbearing. Median age at first birth ranged from 21.7 to 22.9 years across the age groups, with no discernible pattern of variation.

Table 6.7 presents the median age at first birth by background characteristics and age at the time of the survey. The median age at first birth (22.4 for all women age 25-49) is higher in urban areas than in rural areas, with a difference of 1.5 years among women age 25-49. Phnom Penh has the highest median age at first birth (23.9), and Mondul Kiri/Ratanak Kiri has the lowest (20.9). There is a positive relationship between educational attainment and median age at first birth. Women with no formal education have a lower median age at first birth (21.3) than women with a primary education (22.0) and those with a secondary education or higher (23.7). There is no clear pattern in median age at first birth by wealth quintile.

Table 6.7 Median age at first birth

Median age at first birth among women age 25-49, according to background characteristics, Cambodia 2014

| Background characteristic | Age   |       |       |       |       | Women age 25-49 |
|---------------------------|-------|-------|-------|-------|-------|-----------------|
|                           | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 |                 |
| <b>Residence</b>          |       |       |       |       |       |                 |
| Urban                     | a     | 24.2  | 22.1  | 22.4  | 22.9  | 23.6            |
| Rural                     | 22.5  | 22.4  | 21.8  | 21.6  | 22.3  | 22.1            |
| <b>Province</b>           |       |       |       |       |       |                 |
| Banteay Meanchey          | 22.5  | 22.8  | 20.9  | 21.4  | 21.9  | 22.0            |
| Kampong Cham              | 22.4  | 21.8  | 21.9  | 21.6  | 22.4  | 22.0            |
| Kampong Chhnang           | 24.1  | 22.6  | 22.8  | 22.7  | 22.5  | 22.9            |
| Kampong Speu              | 21.9  | 21.8  | 20.0  | 21.4  | 22.9  | 21.6            |
| Kampong Thom              | 22.8  | 22.4  | 22.3  | 20.8  | 22.2  | 22.2            |
| Kandal                    | 22.9  | 23.8  | 23.7  | 21.9  | 23.7  | 23.2            |
| Kratie                    | 21.6  | 23.1  | 21.0  | 21.6  | 22.6  | 22.0            |
| Phnom Penh                | a     | 24.6  | 22.3  | 22.5  | 23.1  | 23.9            |
| Prey Veng                 | 22.5  | 22.4  | 21.0  | 20.9  | 21.6  | 21.7            |
| Pursat                    | 23.4  | 21.8  | 21.3  | 22.3  | 24.2  | 22.6            |
| Siem Reap                 | 21.6  | 22.2  | 21.8  | 22.3  | 23.1  | 22.2            |
| Svay Rieng                | 22.7  | 22.0  | 21.8  | 21.4  | 22.9  | 22.1            |
| Takeo                     | 23.5  | 22.6  | 23.0  | 21.1  | 21.6  | 22.6            |
| Otdar Meanchey            | 21.9  | 22.7  | 21.7  | 20.6  | 21.4  | 21.8            |
| Battambang/Pailin         | 23.6  | 23.3  | 21.9  | 22.0  | 21.4  | 22.5            |
| Kampot/Kep                | 21.6  | 21.6  | 20.9  | 21.8  | 22.1  | 21.7            |
| Preah Sihanouk/Koh Kong   | 23.4  | 21.9  | 20.5  | 21.2  | 21.8  | 22.0            |
| Preah Vihear/Stung Treng  | 22.3  | 21.6  | 21.1  | 21.5  | 21.3  | 21.6            |
| Mondul Kiri/Ratanak Kiri  | 21.4  | 20.4  | 21.2  | 20.6  | 21.1  | 20.9            |
| <b>Education</b>          |       |       |       |       |       |                 |
| No education              | 21.4  | 21.7  | 20.9  | 21.1  | 21.5  | 21.3            |
| Primary                   | 22.0  | 22.3  | 21.8  | 21.6  | 22.2  | 22.0            |
| Secondary and higher      | 24.6  | 24.3  | 22.3  | 22.3  | 23.7  | 23.7            |
| <b>Wealth quintile</b>    |       |       |       |       |       |                 |
| Lowest                    | 22.0  | 22.0  | 21.7  | 22.0  | 23.4  | 22.2            |
| Second                    | 21.5  | 22.2  | 21.6  | 21.6  | 21.9  | 21.7            |
| Middle                    | 22.6  | 21.9  | 21.6  | 21.3  | 22.0  | 21.9            |
| Fourth                    | 23.6  | 22.8  | 21.7  | 21.2  | 22.2  | 22.4            |
| Highest                   | a     | 23.8  | 22.5  | 22.5  | 22.6  | 23.5            |
| Total                     | 22.9  | 22.7  | 21.8  | 21.7  | 22.4  | 22.4            |

a = Omitted because less than 50 percent of the women had a birth before reaching the beginning of the age group

## 6.6 TEENAGE PREGNANCY AND MOTHERHOOD

Teenage fertility is a major health concern because teenage mothers and their children are at high risk of illness and death. Childbearing during the teenage years can have dire social consequences as well, curtailing the educational and employment opportunities of women. Early initiation into childbearing is also often associated with higher lifetime levels of fertility. Table 6.8 presents the proportion of women age 15-19 (teenagers) who are mothers or pregnant with their first child, by background characteristics.

Approximately 1 in 8 women (12 percent) age 15-19 have become mothers or are currently pregnant with their first child. The percentage of women who have begun childbearing at age 15-19 provides further evidence of a sharp increase in teenage fertility in recent years. The level of teenage fertility was relatively stable from 2000 to 2010 at 8 percent.

The percentage of women who have begun childbearing increases with age, from less than 1 percent among women age 15 to 31 percent among women age 19. Six percent of urban women begin childbearing in their teens, as do 13 percent of rural women. The level of teenage fertility is strongly associated with education. More than one-third of teenagers (37 percent) who have never been to school have begun childbearing, as compared with 18 percent who have a primary school education and 8 percent who have a secondary education or higher. The level of teenage fertility is also strongly associated with wealth: 18 percent of the poorest teenagers have begun childbearing, as compared with only 7 percent of the richest. The percentage of teenagers who have begun childbearing varies greatly among provinces, with the lowest in Battambang/Pailin (4 percent) and the highest in Mondul Kiri/Ratanak Kiri (34 percent).

Table 6.8 Teenage pregnancy and motherhood

Percentage of women age 15-19 who have had a live birth or who are pregnant with their first child, and percentage who have begun childbearing, by background characteristics, Cambodia 2014

| Background characteristic | Percentage of women age 15-19 who: |                               | Percentage who have begun childbearing | Number of women |
|---------------------------|------------------------------------|-------------------------------|--|-----------------|
|                           | Have had a live birth              | Are pregnant with first child |  |                 |
| <b>Age</b>                |                                    |                               |  |                 |
| 15                        | 0.2                                | 0.4                           | 0.6                                    | 640             |
| 16                        | 1.4                                | 2.4                           | 3.8                                    | 556             |
| 17                        | 3.5                                | 4.4                           | 7.9                                    | 577             |
| 18                        | 10.0                               | 8.4                           | 18.4                                   | 577             |
| 19                        | 23.2                               | 8.2                           | 31.3                                   | 542             |
| <b>Residence</b>          |                                    |                               |  |                 |
| Urban                     | 4.3                                | 1.9                           | 6.2                                    | 532             |
| Rural                     | 8.0                                | 5.2                           | 13.3                                   | 2,361           |
| <b>Province</b>           |                                    |                               |  |                 |
| Banteay Meanchey          | 16.5                               | 2.5                           | 18.9                                   | 113             |
| Kampong Cham              | 13.1                               | 2.9                           | 16.1                                   | 327             |
| Kampong Chhnang           | 6.3                                | 2.9                           | 9.1                                    | 129             |
| Kampong Speu              | 2.0                                | 6.2                           | 8.2                                    | 202             |
| Kampong Thom              | 4.1                                | 4.4                           | 8.6                                    | 156             |
| Kandal                    | 8.8                                | 3.1                           | 11.9                                   | 225             |
| Kratie                    | 14.5                               | 5.0                           | 19.5                                   | 80              |
| Phnom Penh                | 3.8                                | 2.1                           | 5.9                                    | 316             |
| Prey Veng                 | 6.7                                | 4.2                           | 10.9                                   | 141             |
| Pursat                    | 3.8                                | 4.8                           | 8.6                                    | 100             |
| Siem Reap                 | 4.8                                | 10.5                          | 15.3                                   | 191             |
| Svay Rieng                | 6.5                                | 4.4                           | 10.9                                   | 73              |
| Takeo                     | 2.5                                | 5.2                           | 7.8                                    | 193             |
| Otdar Meanchey            | 11.0                               | 5.8                           | 16.8                                   | 50              |
| Battambang/Pailin         | 3.1                                | 1.2                           | 4.3                                    | 217             |
| Kampot/Kep                | 7.3                                | 4.3                           | 11.6                                   | 114             |
| Preah Sihanouk/Koh Kong   | 7.5                                | 5.5                           | 12.9                                   | 88              |
| Preah Vihear/Stung Treng  | 12.1                               | 13.1                          | 25.1                                   | 102             |
| Mondul Kiri/Ratanak Kiri  | 23.2                               | 10.6                          | 33.8                                   | 75              |
| <b>Education</b>          |                                    |                               |  |                 |
| No education              | 25.5                               | 11.6                          | 37.1                                   | 82              |
| Primary                   | 11.8                               | 6.7                           | 18.4                                   | 852             |
| Secondary and higher      | 4.7                                | 3.5                           | 8.1                                    | 1,959           |
| <b>Wealth quintile</b>    |                                    |                               |  |                 |
| Lowest                    | 11.2                               | 7.0                           | 18.1                                   | 458             |
| Second                    | 9.8                                | 5.1                           | 14.9                                   | 552             |
| Middle                    | 7.5                                | 6.2                           | 13.8                                   | 578             |
| Fourth                    | 4.9                                | 3.7                           | 8.6                                    | 630             |
| Highest                   | 4.9                                | 2.2                           | 7.1                                    | 675             |
| Total                     | 7.3                                | 4.6                           | 12.0                                   | 2,893           |



## PRACTICE OF ABORTION

### Key Findings

- Twelve percent of women have had at least one abortion in their lifetime, and 7 percent have had an abortion in the past five years.
- Among those who have had an abortion in the past five years, 53 percent have had it within the first two months of pregnancy.
- Forty-four percent of abortions take place in a private health facility and 40 percent occur in the respondent's or someone else's home.
- Sixty-one percent of abortions were assisted by a health care professional. However, 30 percent of women did not receive any assistance.

In many countries in the developing world, there are very few data on the practice of abortion. It is illegal in a number of countries, often has negative social connotations, and is often considered against religious principles. The practice of abortion was legalized in Cambodia in 1997. According to the 1997 law, abortions can be conducted only by medical doctors, medical practitioners, or midwives authorized by the Ministry of Health and can be carried out only in a hospital, health center, health clinic, or maternity ward. In addition, abortions can be legally conducted only before the 12th week of pregnancy unless one of a number of specific conditions that permit later abortions is met (The World Law Guide, accessed on May 23, 2011).

In order to better understand the practice of abortion in Cambodia, questions on the practice were integrated into the reproductive section of the CDHS Woman's Questionnaire. The results in this chapter present an estimation of the frequency of abortion in the past five years. Information was collected on the person who performed the abortion, the pregnancy duration, the place where the abortion took place, and the persons who assisted with the abortion. Pregnancy outside of marriage is not socially acceptable in Cambodia, and thus it is likely that not all women who have had an abortion will be willing to report having done so. As a result, abortion statistics are likely underestimates of the true level of abortion.

### 7.1 NUMBER OF LIFETIME INDUCED ABORTIONS

Table 7.1 presents the percent distribution of all women age 15 to 49 by the number of induced abortions they have had over their lifetime according to background characteristics. In Cambodia, 12 percent of women age 15 to 49 reported having had one or more abortions in their lifetime.

There is a reverse U-shaped association between abortion and age. The percentage of women who have had at least one abortion increases sharply from less than 1 percent at age 15-19 to a peak of 21 percent at age 35-39 before declining to 20 percent at age 40-44 and 16 percent at age 45-49. The likelihood that a woman has had an abortion increases with number of living children. Less than 1 percent of women with no children and 9 percent of women with one child reported ever having had an abortion. Sixteen percent of women with two children and 22-24 percent of women with three to four children have had at least one abortion. The proportion declines to 20 percent among women with five or more children.

The practice of abortion varies slightly by urban-rural residence (17 percent in urban areas versus 11 percent in rural areas). The percentage of women who have had an abortion varies across provinces as well. The highest percentages are observed among women living in Phnom Penh (19 percent) and Banteay Meanchey (18 percent). By contrast, only 3 percent of women in Mondul Kiri/Ratanak Kiri reported having had an abortion. Less than 1 in 10 women (9 percent) with a secondary education or higher reported ever having had an abortion, as compared with 15 percent of women with a primary education and 12 percent of women with no education. The practice of abortion occurs mostly among ever-married women.



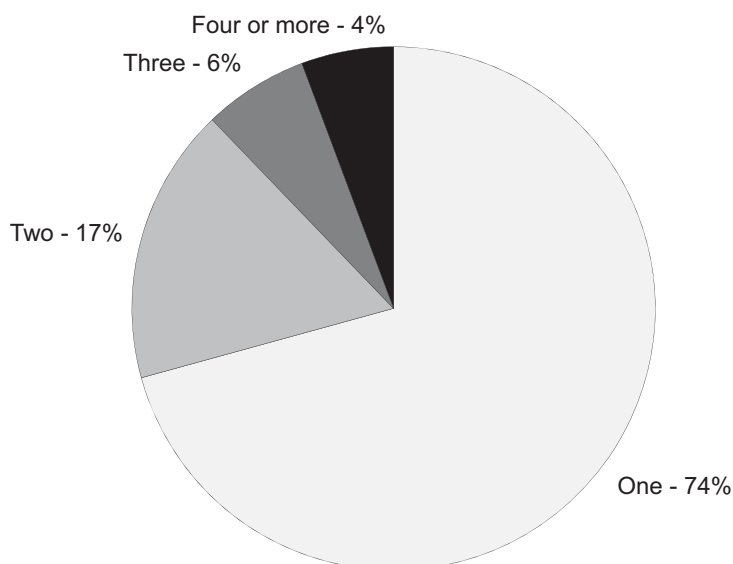
Table 7.1 Number of induced abortions

Percent distribution of women by number of induced abortions during their lifetime, according to background characteristics, Cambodia 2014

| Background characteristic        | Number of abortions |      |     |     |     |         | Total | Number of women |
|----------------------------------|---------------------|------|-----|-----|-----|---------|-------|-----------------|
|                                  | None                | 1    | 2   | 3   | 4+  | Missing |       |                 |
| <b>Age</b>                       |                     |      |     |     |     |         |       |                 |
| 15-19                            | 99.2                | 0.6  | 0.2 | 0.0 | 0.0 | 0.0     | 100.0 | 2,893           |
| 20-24                            | 94.6                | 4.8  | 0.4 | 0.1 | 0.1 | 0.0     | 100.0 | 3,017           |
| 25-29                            | 87.4                | 10.3 | 1.6 | 0.5 | 0.1 | 0.1     | 100.0 | 2,836           |
| 30-34                            | 82.6                | 12.6 | 3.2 | 0.7 | 0.6 | 0.2     | 100.0 | 3,046           |
| 35-39                            | 78.8                | 14.3 | 4.4 | 1.1 | 1.4 | 0.0     | 100.0 | 1,839           |
| 40-44                            | 80.4                | 12.3 | 3.3 | 2.5 | 1.6 | 0.0     | 100.0 | 2,030           |
| 45-49                            | 84.0                | 9.4  | 3.3 | 1.5 | 1.8 | 0.0     | 100.0 | 1,916           |
| <b>Number of living children</b> |                     |      |     |     |     |         |       |                 |
| 0                                | 99.0                | 0.8  | 0.1 | 0.0 | 0.0 | 0.0     | 100.0 | 5,235           |
| 1                                | 90.4                | 7.8  | 1.1 | 0.3 | 0.2 | 0.1     | 100.0 | 3,236           |
| 2                                | 83.5                | 12.4 | 2.7 | 0.9 | 0.4 | 0.1     | 100.0 | 3,726           |
| 3                                | 78.0                | 14.3 | 4.8 | 1.4 | 1.5 | 0.0     | 100.0 | 2,477           |
| 4                                | 76.1                | 17.0 | 3.5 | 2.0 | 1.4 | 0.1     | 100.0 | 1,519           |
| 5                                | 79.6                | 12.6 | 3.9 | 1.8 | 2.0 | 0.1     | 100.0 | 773             |
| 6+                               | 80.3                | 10.5 | 3.6 | 2.6 | 2.9 | 0.0     | 100.0 | 611             |
| <b>Residence</b>                 |                     |      |     |     |     |         |       |                 |
| Urban                            | 82.5                | 10.3 | 3.8 | 1.6 | 1.7 | 0.0     | 100.0 | 3,251           |
| Rural                            | 88.8                | 8.3  | 1.7 | 0.6 | 0.4 | 0.1     | 100.0 | 14,327          |
| <b>Province</b>                  |                     |      |     |     |     |         |       |                 |
| Banteay Meanchey                 | 82.3                | 12.9 | 2.5 | 0.8 | 1.3 | 0.2     | 100.0 | 689             |
| Kampong Cham                     | 87.7                | 9.8  | 1.3 | 0.7 | 0.6 | 0.0     | 100.0 | 2,021           |
| Kampong Chhnang                  | 90.5                | 7.2  | 1.4 | 0.5 | 0.3 | 0.0     | 100.0 | 662             |
| Kampong Speu                     | 91.5                | 6.3  | 1.2 | 0.5 | 0.5 | 0.0     | 100.0 | 1,196           |
| Kampong Thom                     | 93.2                | 5.0  | 1.2 | 0.3 | 0.3 | 0.0     | 100.0 | 851             |
| Kandal                           | 86.0                | 10.7 | 2.0 | 1.1 | 0.0 | 0.2     | 100.0 | 1,330           |
| Kratie                           | 89.0                | 8.2  | 1.6 | 0.4 | 0.8 | 0.0     | 100.0 | 488             |
| Phnom Penh                       | 80.6                | 10.6 | 5.0 | 1.8 | 2.0 | 0.0     | 100.0 | 1,994           |
| Prey Veng                        | 94.2                | 4.7  | 0.6 | 0.2 | 0.3 | 0.0     | 100.0 | 1,188           |
| Pursat                           | 93.8                | 5.2  | 0.7 | 0.0 | 0.4 | 0.0     | 100.0 | 631             |
| Siem Reap                        | 85.5                | 10.2 | 2.5 | 1.0 | 0.6 | 0.2     | 100.0 | 1,137           |
| Svay Rieng                       | 88.1                | 8.0  | 2.4 | 1.0 | 0.4 | 0.0     | 100.0 | 654             |
| Takeo                            | 87.8                | 7.9  | 3.0 | 1.0 | 0.3 | 0.0     | 100.0 | 1,082           |
| Otdar Meanchey                   | 92.8                | 6.0  | 0.9 | 0.1 | 0.0 | 0.0     | 100.0 | 294             |
| Battambang/Pailin                | 83.9                | 10.6 | 3.0 | 1.2 | 1.2 | 0.0     | 100.0 | 1,333           |
| Kampot/Kep                       | 85.5                | 12.2 | 1.5 | 0.6 | 0.1 | 0.0     | 100.0 | 770             |
| Preah Sihanouk/Koh Kong          | 83.5                | 11.7 | 2.0 | 1.4 | 1.4 | 0.0     | 100.0 | 422             |
| Preah Vihear/Stung Treng         | 91.8                | 6.5  | 0.8 | 0.1 | 0.4 | 0.4     | 100.0 | 462             |
| Mondul Kiri/Ratanak Kiri         | 97.3                | 2.2  | 0.4 | 0.0 | 0.0 | 0.1     | 100.0 | 372             |
| <b>Education</b>                 |                     |      |     |     |     |         |       |                 |
| No education                     | 87.6                | 8.5  | 2.3 | 0.8 | 0.7 | 0.0     | 100.0 | 2,250           |
| Primary                          | 84.9                | 10.9 | 2.3 | 1.0 | 0.9 | 0.1     | 100.0 | 8,281           |
| Secondary and higher             | 91.0                | 6.2  | 1.8 | 0.6 | 0.4 | 0.0     | 100.0 | 7,047           |
| <b>Marital status</b>            |                     |      |     |     |     |         |       |                 |
| Never married                    | 99.8                | 0.2  | 0.0 | 0.0 | 0.0 | 0.0     | 100.0 | 4,428           |
| Ever married                     | 83.6                | 11.6 | 2.8 | 1.1 | 0.9 | 0.1     | 99.9  | 13,150          |
| <b>Total</b>                     | 87.7                | 8.7  | 2.1 | 0.8 | 0.7 | 0.1     | 100.0 | 17,578          |

Figure 7.1 presents the distribution of women who report having at least one abortion in their lifetime according to the number of abortions they have had. The majority of women who have had an abortion have had only one (74 percent). Seventeen percent of women who have had an abortion report having had two abortions, and 10 percent of women who have had an abortion report having had three or more induced abortions.

**Figure 7.1 Distribution of women who have had an abortion by number of abortions**



CDHS 2014

## 7.2 PRACTICE OF ABORTION IN THE PAST FIVE YEARS

In order to obtain information on the recent practice of abortion, detailed questions concerning abortion were asked to those women who had had an abortion since 2009. In Table 7.2 and subsequent tables, education of the respondent has been grouped into two categories, no schooling and primary education or higher, due to the relatively small number of cases.

Table 7.2 shows that 7 percent of women had an induced abortion in the five years before the survey. This represents an increase from the figure reported in the 2010 CDHS (5 percent).

### 7.2.1 Pregnancy Duration at the Time of Abortion

Table 7.2 also shows the percentage of women who reported having an abortion in the past five years by their pregnancy duration at the time of abortion. Slightly more than half of these women (53 percent) aborted their pregnancy within the first two months of pregnancy, and 46 percent had the abortion between the second and fourth months of pregnancy.

Women with three or four living children were more likely than other women to have had an abortion (11 percent), and approximately half of these women (53 percent) had their abortion within the first two months of pregnancy. Sixty-nine percent of women with five or more living children had their abortion after the second month of pregnancy. The percentage of women who recently had an abortion also varies by urban-rural residence; urban women are more likely to have had a recent abortion than rural women (10 percent versus 6 percent). Although the likelihood of having a recent abortion did not vary by level of education, there were differences according to education in the duration of pregnancy at the time of the abortion. Women with a primary education or higher were more likely than women with no schooling to have had their abortion within the first two months of pregnancy (55 percent versus 42 percent). In contrast, the percentage of women with no schooling who had their abortion after the second month of pregnancy is higher than that among women with at least a primary education (58 percent versus 45 percent).

Table 7.2 Pregnancy duration at the time of abortion

Percentage of women who had at least one induced abortion and percent distribution of the last termination that was an abortion during the past five years by pregnancy duration at the time of the abortion, according to background characteristics, Cambodia 2014

| Background characteristic                    | Percentage with at least one abortion since January 2009 | Number of women | Pregnancy duration at the time of last abortion |            |           | Total | Number of women whose last termination was an abortion |
|--|--|-----------------|---|------------|-----------|-------|--|
|  |  |                 | <2 months                                       | 2-4 months | 5+ months |       |  |
| <b>Current age</b>                           |  |                 |   |            |           |       |  |
| 15-24  | 3.1  | 5,910           | 55.1  | 44.0       | 0.9       | 100.0 | 166  |
| 25-34  | 10.2   | 5,882           | 54.7  | 43.4       | 1.9       | 100.0 | 532  |
| 35-49  | 7.5  | 5,786           | 49.6  | 49.7       | 0.7       | 100.0 | 373  |
| <b>Number of living children<sup>1</sup></b> |  |                 |   |            |           |       |  |
| 0-2  | 5.5  | 12,198          | 56.6  | 41.7       | 1.7       | 100.0 | 598  |
| 3-4  | 10.7   | 3,996           | 52.8  | 46.1       | 1.1       | 100.0 | 377  |
| 5+   | 8.2  | 1,384           | 30.8  | 69.2       | 0.0       | 100.0 | 95   |
| <b>Residence</b>                             |  |                 |   |            |           |       |  |
| Urban  | 9.7  | 3,251           | 61.5  | 36.8       | 1.6       | 100.0 | 282  |
| Rural  | 6.3  | 14,327          | 50.0  | 48.8       | 1.2       | 100.0 | 789  |
| <b>Education</b>                             |  |                 |   |            |           |       |  |
| No education                                 | 6.9  | 2,250           | 41.6  | 57.4       | 1.0       | 100.0 | 136  |
| Primary and higher                           | 6.9  | 15,328          | 54.7  | 44.0       | 1.4       | 100.0 | 934  |
| Total  | 6.9  | 17,578          | 53.0  | 45.7       | 1.3       | 100.0 | 1,070  |

<sup>1</sup> Including current pregnancy

## 7.2.2 Place of Abortion

Women who had an abortion in the five years before the survey were asked where the most recent abortion took place (Table 7.3). The proportion of women who had their abortion in a health facility (60 percent) was similar to the figure reported in the 2010 CDHS (57 percent). Of facility-based abortions, the majority occur in a private facility. Thirty-two percent of abortions took place in the respondent's home, and 8 percent took place in someone else's home. These figures show that abortions are more likely to have taken place in a health facility than at home.

Among women who had an abortion in the five years before the survey, the percentage who had an abortion in a health facility is slightly higher among those in urban areas than among those in rural areas (64 percent and 58 percent, respectively). However, the percentage of women who had an abortion in a health facility does not differ markedly by education (58 percent among those with no schooling versus 60 percent among those with at least a primary education).

Table 7.3 Place of abortion

Percent distribution of the last termination that was an abortion during the five years before the survey by place of abortion, according to background characteristics, Cambodia 2014

| Background characteristic                              | Place of abortion      |                         |                 |            | Total | Number of women whose last termination was an abortion |
|--|------------------------|-------------------------|-----------------|------------|-------|--|
|  | Public health facility | Private health facility | Respondent home | Other home |       |  |
| <b>Current age</b>                                     |                        |                         |                 |            |       |  |
| 15-34  | 13.4                   | 44.8                    | 35.4            | 6.4        | 100.0 | 697  |
| 35-49  | 19.4                   | 43.2                    | 26.3            | 11.2       | 100.0 | 373  |
| <b>Pregnancy duration at the time of last abortion</b> |                        |                         |                 |            |       |  |
| <2 months  | 12.6                   | 45.5                    | 36.8            | 5.1        | 100.0 | 567  |
| 2-4 months   | 18.7                   | 42.7                    | 27.2            | 11.3       | 100.0 | 489  |
| 5+ months  | 20.0                   | 49.0                    | 20.5            | 10.5       | 100.0 | 14   |
| <b>Residence</b>                                       |                        |                         |                 |            |       |  |
| Urban  | 18.2                   | 45.5                    | 29.1            | 7.2        | 100.0 | 282  |
| Rural  | 14.5                   | 43.8                    | 33.3            | 8.4        | 100.0 | 789  |
| <b>Education</b>                                       |                        |                         |                 |            |       |  |
| No education   | 18.5                   | 39.3                    | 34.6            | 7.5        | 100.0 | 136  |
| Primary and higher                                     | 15.0                   | 45.0                    | 31.9            | 8.1        | 100.0 | 934  |
| Total  | 15.5                   | 44.3                    | 32.2            | 8.0        | 100.0 | 1,070  |

### 7.2.3 Persons Who Helped with the Abortion

Women who had an abortion in the five years before the survey were asked to identify the type of person or persons who assisted their last abortion. If more than one person assisted with the abortion, only the most qualified person is reported in Table 7.4. The proportion of women receiving help from a qualified health care provider (doctor, nurse, midwife, and/or other health worker) has continued to decline over recent years, from 79 percent in 2005 to 67 percent in 2010 and only 61 percent in 2014. In contrast, the percentage of women who report having no help from anyone has increased in the past few years (from 8 percent in 2005 to 22 percent in 2010 and 30 percent in 2014). Approximately 8 percent of women received help from a relative or friend and 1 percent from a traditional birth attendant, Kru Khmer, or pharmacist.

Women age 15-34 were less likely to seek assistance from a qualified provider than older women (59 percent versus 67 percent). Moreover, women who had their abortion at the early stage of pregnancy (before 2 months) were more likely to have had no help than were those who were 2-4 months pregnant at the time of their abortion (37 percent versus 23 percent). More late-stage abortions (2-4 months) involved assistance from a health professional (67 percent) than early-stage abortions (before 2 months). There were no substantial variations in assistance at abortion by urban-rural residence. The percentage of women who received help from a relative or friend during their last abortion differed by education (13 percent among women with no schooling versus 7 percent among women with a primary education or higher).

**Table 7.4 Persons who helped with abortion**

Percent distribution of the last termination that was an abortion during the five years before the survey by the most qualified person who helped with the abortion, according to background characteristics, Cambodia 2014

| Background characteristic                                      | Person who helped with last abortion            |   |                           |             | Total        | Number of women whose last termination was an abortion |
|--|---|---|---------------------------|-------------|--------------|--|
|  | Doctor/nurse/<br>midwife/other<br>health worker | Traditional birth<br>attendant/<br>Kru Khmer/<br>pharmacist | Relative/friend/<br>other | No one      |              |  |
| <b>Current age</b>   |   |   |                           |             |              |  |
| 15-34  | 58.5  | 0.6   | 8.6                       | 32.3        | 100.0        | 697  |
| 35-49  | 67.0  | 1.5   | 5.8                       | 25.8        | 100.0        | 373  |
| <b>Pregnancy duration<br/>at the time of last<br/>abortion</b> |   |   |                           |             |              |  |
| <2 months  | 56.5  | 1.3   | 5.1                       | 37.2        | 100.0        | 567  |
| 2-4 months   | 66.6  | 0.4   | 10.3                      | 22.6        | 100.0        | 489  |
| 5+ months  | *   | *   | *                         | *           | 100.0        | 14   |
| <b>Residence</b>   |   |   |                           |             |              |  |
| Urban  | 63.4  | 0.9   | 5.7                       | 30.0        | 100.0        | 282  |
| Rural  | 60.7  | 0.9   | 8.3                       | 30.1        | 100.0        | 789  |
| <b>Education</b>   |   |   |                           |             |              |  |
| No education   | 56.6  | 0.0   | 13.0                      | 30.4        | 100.0        | 136  |
| Primary and higher   | 62.1  | 1.0   | 6.8                       | 30.0        | 100.0        | 934  |
| <b>Total</b>   | <b>61.4</b>                                     | <b>0.9</b>  | <b>7.6</b>                | <b>30.1</b> | <b>100.0</b> | <b>1,070</b>   |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and had been suppressed.

### 7.2.4 Method Used for the Abortion

Women who had an abortion in the five years before the survey were asked about the methods they used to induce the last abortion. The percentages shown in Table 7.5 can sum to more than 100 percent because women could list more than one method.

Three in five women (60 percent) who had an abortion in the five years before the survey used a surgical method to induce abortion, whereas 47 percent used a medical method. The majority of women (57 percent) used vacuum aspiration, a surgical method. Oral pill/tablet was the second most popular method, used by 42 percent of women. Only 6 percent of women used the curettage method, and only 4 percent used the dilatation and evacuation method.

There were no substantial differences in the method of abortion according to women's residence or level of education. However, there were slight variations by age and duration of pregnancy. Women age 35-49 were more likely to use a surgical method than women age 15-24 and 25-34 (64 percent versus 54 percent and 59 percent, respectively). In contrast, the proportion of younger women (15-24 and 25-39) who used a medical method for their last abortion was slightly higher than the proportion among their older counterparts (35-49) (55 percent and 50 percent, respectively, versus 42 percent). Women who had their abortions at a later stage of pregnancy (2-4 months) were more likely than those who had their abortions at an early stage of pregnancy (before 2 months) to use a surgical method (65 percent versus 56 percent). In contrast, medical methods were used more often during the early stage of pregnancy (51 percent) than during the late stage of pregnancy (42 percent).

Table 7.5 Method used for the abortion

Among women who had an abortion during the five years before the survey, the percentage who used different methods to induce the abortion, according to background characteristics, Cambodia 2014

| Background characteristic                              | Any surgical method | Surgical methods  |           |                           | Any medical method | Medical methods  |                     |            |              | Traditional methods | Other methods | Number of women whose last termination was an abortion |
|--|---------------------|-------------------|-----------|---------------------------|--------------------|------------------|---------------------|------------|--------------|---------------------|---------------|--|
|  |                     | Vacuum aspiration | Curettage | Dilatation and evacuation |                    | Oral pill/tablet | Vaginal pill/tablet | Injectable | Intrauterine |                     |               |  |
| <b>Current age</b>                                     |                     |                   |           |                           |                    |                  |                     |            |              |                     |               |  |
| 15-24  | 53.7                | 50.1              | 5.9       | 3.0                       | 54.6               | 50.8             | 12.3                | 3.4        | 0.0          | 0.0                 | 0.0           | 166  |
| 25-34  | 58.8                | 55.4              | 6.3       | 4.3                       | 47.9               | 43.3             | 9.9                 | 3.3        | 0.5          | 0.0                 | 1.0           | 532  |
| 35-49  | 64.3                | 62.2              | 5.1       | 2.5                       | 42.3               | 37.0             | 8.0                 | 6.0        | 0.5          | 0.1                 | 2.6           | 373  |
| <b>Pregnancy duration at the time of last abortion</b> |                     |                   |           |                           |                    |                  |                     |            |              |                     |               |  |
| <2 months  | 56.2                | 54.9              | 2.8       | 2.2                       | 50.8               | 46.9             | 9.2                 | 3.9        | 0.0          | 0.0                 | 0.7           | 567  |
| 2-4 months   | 65.1                | 60.8              | 9.2       | 4.6                       | 42.2               | 37.4             | 10.3                | 3.6        | 1.0          | 0.1                 | 1.8           | 489  |
| 5+ months  | *                   | *                 | *         | *                         | *                  | *                | *                   | *          | *            | *                   | *             | 14   |
| <b>Residence</b>                                       |                     |                   |           |                           |                    |                  |                     |            |              |                     |               |  |
| Urban  | 61.7                | 57.6              | 6.3       | 4.7                       | 43.2               | 37.5             | 6.3                 | 2.6        | 1.5          | 0.0                 | 0.7           | 282  |
| Rural  | 59.3                | 56.7              | 5.7       | 3.1                       | 48.4               | 43.9             | 10.8                | 4.8        | 0.1          | 0.1                 | 1.7           | 789  |
| <b>Education</b>                                       |                     |                   |           |                           |                    |                  |                     |            |              |                     |               |  |
| No education   | 61.5                | 58.6              | 8.0       | 1.9                       | 53.3               | 48.4             | 6.9                 | 9.4        | 0.0          | 0.0                 | 0.0           | 136  |
| Primary and higher                                     | 59.7                | 56.7              | 5.5       | 3.7                       | 46.1               | 41.4             | 10.0                | 3.5        | 0.5          | 0.1                 | 1.6           | 934  |
| Total  | 59.9                | 57.0              | 5.8       | 3.5                       | 47.0               | 42.3             | 9.6                 | 4.2        | 0.4          | 0.1                 | 1.4           | 1,070  |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and had been suppressed.

## Key Findings

- Awareness of at least one method of contraception is universal in Cambodia.
- More than half (56 percent) of currently married women are using a method of contraception, with most women using a modern method (39 percent).
- The daily pill remains the most commonly used method of contraception among currently married women (18 percent).
- Use of modern methods of family planning has consistently increased over the past decade, from 19 percent of currently married women in 2000 to 39 percent in 2014.
- The government sector remains the major provider of contraceptive methods for nearly half of the users of modern methods (47 percent).
- Nearly 9 in 10 women (88 percent) who use the rhythm method know correctly when the fertile period occurs.

This chapter presents information from the 2014 CDHS on contraceptive knowledge, attitudes, and behavior. Comparisons are also made, where appropriate, with findings from the 2010 CDHS to evaluate trends over the past four years.

## 8.1 KNOWLEDGE OF CONTRACEPTIVE METHODS

Acquiring knowledge about family planning is an important step toward gaining access to and using a suitable contraceptive method in a timely and effective manner. Individuals who have adequate information about the available methods of contraception are better able to make choices about planning their families. Thus, one of the main objectives of the 2014 CDHS was to assess the level of knowledge of family planning methods among women of reproductive age. To collect data on knowledge of contraception, the interviewer described each method and probed for whether the respondent recognized it.

Information was collected on several modern contraceptive methods: female and male sterilization, daily and monthly pills, intrauterine devices (IUDs), injectables, implants, male and female condoms, the lactational amenorrhea method (LAM), and emergency contraception. Information was also collected on two traditional methods: rhythm (or periodic abstinence) and withdrawal. In addition, provision was made in the questionnaire to record any other methods named spontaneously by the respondents.

Table 8.1 presents information about knowledge of contraceptive methods among all women and currently married women age 15-49. Knowledge of any contraceptive method and

Table 8.1 Knowledge of contraceptive methods

Percentage of all women and currently married women who know any contraceptive method, by specific method, Cambodia 2014

| Method  | All women | Currently married women |
|---|-----------|-------------------------|
| Any method  | 99.2      | 99.8                    |
| Any modern method                                 | 99.2      | 99.8                    |
| Female sterilization                              | 90.5      | 94.1                    |
| Male sterilization                                | 69.2      | 74.7                    |
| Daily pill  | 97.7      | 99.1                    |
| Monthly pill                                      | 48.9      | 54.1                    |
| IUD   | 96.9      | 98.5                    |
| Injectables                                       | 97.0      | 98.9                    |
| Implants  | 93.5      | 96.3                    |
| Male condom                                       | 95.0      | 97.0                    |
| Female condom                                     | 22.8      | 23.3                    |
| Lactational amenorrhea (LAM)                      | 27.1      | 31.5                    |
| Emergency contraception                           | 16.4      | 17.0                    |
| Any traditional method                            | 70.3      | 82.9                    |
| Rhythm  | 48.2      | 55.8                    |
| Withdrawal  | 62.3      | 76.2                    |
| Other   | 0.6       | 0.7                     |
| Mean number of methods known by respondents 15-49 | 8.7       | 9.2                     |
| Number of respondents                             | 17,578    | 11,898                  |

any modern method is nearly universal among both all women and currently married women in Cambodia. Knowledge of traditional methods is lower; 70 percent of all women and 83 percent of currently married women know at least one traditional method. Nearly all of the modern methods are widely known to both all women and currently married women. Over 90 percent of all women and currently married women have heard of female sterilization, the daily pill, IUDs, injectables, implants, and male condoms. However, only 69 percent of women overall and 75 percent of currently married women know about male sterilization. Knowledge of female condoms, LAM, and emergency contraception remains very low among both all women and currently married women. About half of women know about monthly pills (also known as Chinese pills).

The mean number of methods known, a rough indicator of the breadth of knowledge of family planning methods, is high in Cambodia. Breadth of contraceptive knowledge is slightly higher among currently married women (9.2 methods) than all women (8.7 methods).

Knowledge of at least one contraceptive method among all women increased from 92 percent in 2000 to 99 percent in 2005 and has remained at this level over the past nine years. Some of the greatest increases in knowledge in the past four years were in knowledge of male sterilization, implants, and emergency contraception. Knowledge of male sterilization increased from 59 percent to 69 percent among all women and from 65 percent to 75 percent among married women. Knowledge of implants increased from 88 percent to 94 percent among all women and from 91 percent to 96 percent among married women. Finally, knowledge of emergency contraception increased from 10 percent among all women and 11 percent among currently married women to 16 percent among all women and 17 percent among currently married women. However, there has been a decrease in the percentage of women reporting that they know about monthly pills. Knowledge of any traditional method has increased over the same period, especially knowledge of withdrawal.

With practically all currently married women knowing at least one method of contraception, there is very little variation in knowledge by background characteristics (Table 8.2). Knowledge of any method of contraception is slightly lower in Mondul Kiri/Ratanak Kiri, where 97 percent of married women are aware of any method or any modern method of contraception.

## 8.2 CURRENT USE OF CONTRACEPTIVE METHODS

The level of current use of contraceptive methods is one of the indicators most frequently used to assess the success of family planning program activities. It is also widely used as a measure in analyzing the

**Table 8.2 Knowledge of contraceptive methods by background characteristics**

Percentage of currently married women age 15-49 who have heard of at least one contraceptive method and who have heard of at least one modern method by background characteristics, Cambodia 2014

| Background characteristic    | Heard of any method | Heard of any modern method <sup>1</sup> | Number |
|------------------------------|---------------------|---|--------|
| <b>Age</b>                   |                     |   |        |
| 15-19                        | 98.8                | 98.8                                    | 450    |
| 20-24                        | 99.8                | 99.8                                    | 1,833  |
| 25-29                        | 99.9                | 99.8                                    | 2,249  |
| 30-34                        | 100.0               | 100.0                                   | 2,625  |
| 35-39                        | 100.0               | 100.0                                   | 1,573  |
| 40-44                        | 99.9                | 99.9                                    | 1,673  |
| 45-49                        | 99.5                | 99.5                                    | 1,495  |
| <b>Residence</b>             |                     |   |        |
| Urban                        | 99.9                | 99.9                                    | 1,818  |
| Rural                        | 99.8                | 99.8                                    | 10,080 |
| <b>Province</b>              |                     |   |        |
| Banteay Meanchey             | 99.8                | 99.8                                    | 503    |
| Kampong Cham                 | 99.7                | 99.7                                    | 1,490  |
| Kampong Chhnang              | 100.0               | 100.0                                   | 396    |
| Kampong Speu                 | 99.7                | 99.7                                    | 843    |
| Kampong Thom                 | 100.0               | 100.0                                   | 572    |
| Kandal                       | 100.0               | 100.0                                   | 870    |
| Kratie                       | 99.8                | 99.8                                    | 359    |
| Phnom Penh                   | 100.0               | 100.0                                   | 1,084  |
| Prey Veng                    | 100.0               | 100.0                                   | 889    |
| Pursat                       | 100.0               | 100.0                                   | 425    |
| Siem Reap                    | 100.0               | 100.0                                   | 765    |
| Svay Rieng                   | 100.0               | 100.0                                   | 483    |
| Takeo                        | 99.8                | 99.8                                    | 677    |
| Otdar Meanchey               | 100.0               | 100.0                                   | 218    |
| Battambang/Pailin            | 99.8                | 99.8                                    | 890    |
| Kampot/Kep                   | 100.0               | 100.0                                   | 574    |
| Preah Sihanouk/<br>Koh Kong  | 99.8                | 99.8                                    | 266    |
| Preah Vihear/<br>Stung Treng | 99.7                | 99.3                                    | 314    |
| Mondul Kiri/<br>Ratanak Kiri | 97.3                | 97.3                                    | 281    |
| <b>Education</b>             |                     |   |        |
| No education                 | 99.3                | 99.3                                    | 1,774  |
| Primary                      | 99.9                | 99.9                                    | 6,399  |
| Secondary and higher         | 99.9                | 99.9                                    | 3,431  |
| <b>Wealth quintile</b>       |                     |   |        |
| Lowest                       | 99.7                | 99.6                                    | 2,294  |
| Second                       | 99.7                | 99.7                                    | 2,404  |
| Middle                       | 99.8                | 99.8                                    | 2,365  |
| Fourth                       | 99.9                | 99.9                                    | 2,393  |
| Highest                      | 100.0               | 100.0                                   | 2,443  |
| Total                        | 99.8                | 99.8                                    | 11,898 |

<sup>1</sup> Female sterilization, male sterilization, daily pills, monthly pills, IUD, injectables, implants, male condom, female condom, diaphragm, foam or jelly, lactational amenorrhea method (LAM), and emergency contraception



determinants of fertility. This section focuses on the levels of and differentials in current use of family planning in Cambodia.

Current contraceptive use among all women and currently married women is presented in Table 8.3 by age group. Fifty-six percent of married women are currently using a method of family planning. This includes 39 percent who are using a modern method and 18 percent who are using a traditional method. The most widely used method is the daily pill (18 percent), followed by withdrawal (15 percent) and injectables (9 percent).

Table 8.3 Current use of contraception by age

Percent distribution of all women and currently married women age 15-49 by contraceptive method currently used, according to age, Cambodia 2014

| Age                     | Any method | Any modern method | Modern method        |                    |            |              |     |             |           |             |               |     | Any traditional method | Traditional method |             |             | Not currently using | Total | Number of women |
|-------------------------|------------|-------------------|----------------------|--------------------|------------|--------------|-----|-------------|-----------|-------------|---------------|-----|------------------------|--------------------|-------------|-------------|---------------------|-------|-----------------|
|                         |            |                   | Female sterilization | Male sterilization | Daily pill | Monthly pill | IUD | Injectables | Im-plants | Male condom | Female condom | LAM |                        | Rhythm             | With-drawal | Folk method |                     |       |                 |
| ALL WOMEN               |            |                   |                      |                    |            |              |     |             |           |             |               |     |                        |                    |             |             |                     |       |                 |
| 15-19                   | 4.6        | 3.2               | 0.0                  | 0.0                | 1.1        | 0.0          | 0.3 | 1.2         | 0.3       | 0.1         | 0.0           | 0.0 | 1.4                    | 0.1                | 1.4         | 0.0         | 95.4                | 100.0 | 2,893           |
| 20-24                   | 29.7       | 21.4              | 0.0                  | 0.0                | 9.9        | 0.0          | 2.4 | 6.2         | 1.5       | 1.1         | 0.0           | 0.1 | 8.3                    | 0.9                | 7.4         | 0.0         | 70.3                | 100.0 | 3,017           |
| 25-29                   | 49.2       | 34.9              | 0.8                  | 0.0                | 17.7       | 0.1          | 4.1 | 7.8         | 2.2       | 2.1         | 0.0           | 0.1 | 14.3                   | 1.8                | 12.3        | 0.1         | 50.8                | 100.0 | 2,836           |
| 30-34                   | 58.8       | 41.1              | 2.6                  | 0.0                | 18.8       | 0.2          | 4.8 | 9.4         | 2.3       | 2.8         | 0.0           | 0.1 | 17.7                   | 3.0                | 14.7        | 0.0         | 41.1                | 100.0 | 3,046           |
| 35-39                   | 57.8       | 40.9              | 5.7                  | 0.3                | 16.8       | 0.1          | 5.2 | 8.7         | 2.0       | 2.1         | 0.0           | 0.1 | 16.9                   | 3.0                | 13.8        | 0.1         | 41.9                | 100.0 | 1,839           |
| 40-44                   | 49.6       | 32.0              | 5.4                  | 0.2                | 13.4       | 0.1          | 3.0 | 7.1         | 1.4       | 1.4         | 0.0           | 0.0 | 17.5                   | 4.5                | 13.0        | 0.0         | 50.4                | 100.0 | 2,030           |
| 45-49                   | 25.1       | 15.1              | 3.7                  | 0.0                | 5.7        | 0.3          | 1.4 | 3.1         | 0.1       | 0.8         | 0.0           | 0.0 | 10.0                   | 2.0                | 7.8         | 0.2         | 74.9                | 100.0 | 1,916           |
| Total                   | 38.5       | 26.6              | 2.2                  | 0.1                | 11.9       | 0.1          | 3.0 | 6.2         | 1.5       | 1.5         | 0.0           | 0.0 | 11.9                   | 2.0                | 9.8         | 0.1         | 61.5                | 100.0 | 17,578          |
| CURRENTLY MARRIED WOMEN |            |                   |                      |                    |            |              |     |             |           |             |               |     |                        |                    |             |             |                     |       |                 |
| 15-19                   | 29.1       | 20.2              | 0.0                  | 0.0                | 7.2        | 0.0          | 2.2 | 8.0         | 2.1       | 0.7         | 0.0           | 0.0 | 8.9                    | 0.4                | 8.5         | 0.0         | 70.9                | 100.0 | 450             |
| 20-24                   | 47.8       | 34.4              | 0.1                  | 0.0                | 16.4       | 0.1          | 3.9 | 10.1        | 2.5       | 1.2         | 0.0           | 0.2 | 13.4                   | 1.2                | 12.2        | 0.0         | 52.2                | 100.0 | 1,833           |
| 25-29                   | 61.6       | 43.8              | 0.9                  | 0.0                | 22.3       | 0.1          | 5.2 | 9.8         | 2.8       | 2.5         | 0.0           | 0.1 | 17.9                   | 2.3                | 15.4        | 0.2         | 38.4                | 100.0 | 2,249           |
| 30-34                   | 67.9       | 47.4              | 2.9                  | 0.0                | 21.8       | 0.2          | 5.5 | 10.9        | 2.7       | 3.3         | 0.0           | 0.1 | 20.5                   | 3.5                | 17.0        | 0.0         | 32.0                | 100.0 | 2,625           |
| 35-39                   | 66.9       | 47.1              | 6.2                  | 0.4                | 19.5       | 0.1          | 6.0 | 9.9         | 2.4       | 2.5         | 0.0           | 0.1 | 19.7                   | 3.5                | 16.1        | 0.1         | 32.8                | 100.0 | 1,573           |
| 40-44                   | 59.6       | 38.4              | 6.2                  | 0.2                | 16.1       | 0.2          | 3.7 | 8.6         | 1.7       | 1.7         | 0.0           | 0.0 | 21.3                   | 5.5                | 15.8        | 0.0         | 40.4                | 100.0 | 1,673           |
| 45-49                   | 31.3       | 18.6              | 4.2                  | 0.0                | 7.1        | 0.4          | 1.8 | 4.0         | 0.1       | 0.9         | 0.0           | 0.0 | 12.7                   | 2.6                | 10.0        | 0.1         | 68.7                | 100.0 | 1,495           |
| Total                   | 56.3       | 38.8              | 3.0                  | 0.1                | 17.6       | 0.2          | 4.4 | 9.1         | 2.2       | 2.1         | 0.0           | 0.1 | 17.5                   | 3.0                | 14.5        | 0.1         | 43.7                | 100.0 | 11,898          |

Note: If more than one method is used, only the most effective method is considered in this tabulation.

LAM = Lactational amenorrhea method

Use of modern contraceptive methods among currently married women varies by age, rising sharply from 20 percent among women age 15-19 to a peak of 47 percent among women age 30-39 before dropping quickly to 19 percent among women age 45-49. There are also differences by age in the methods used by women. For example, among currently married women, the daily pill is the most commonly used method in all age groups other than 15-19, with slightly more women in this group using withdrawal and injectables than the daily pill. As expected, most of the women who have been sterilized are age 35 or older.

As shown in Table 8.4.1, there are marked differences in use of contraceptives by women's background characteristics. Among those currently married, urban women are more likely than rural women to be using any method of contraception (60 percent versus 56 percent) and any traditional method (27 percent versus 16 percent). Meanwhile, rural women are more likely to use modern methods than urban women (40 percent versus 33 percent), particularly injectables (10 percent versus 3 percent) and daily pills (18 percent versus 13 percent). However, urban women are more likely to use male condoms than rural women (5 percent versus 2 percent). There is also substantial variation in current use by province. Current use of any method among married women is highest in Kampong Speu (65 percent); Phnom Penh (63 percent); Banteay Meanchey, Kandal, and Preah Sihanouk/Koh Kong (61 percent each); and Takeo (60 percent). It is lowest in Preah Vihear/Stung Treng (42 percent).

Contraceptive use is associated with the number of living children a woman has; use of any method is highest among married women with three to four children (66 percent) and lowest among women with no children (12 percent). Current contraceptive use increases with increasing education. Fifty-two percent of married women with no schooling are currently using any method of contraception, as compared with 58 percent of married women with a secondary education or higher. Use of contraception rises in an irregular pattern with increasing wealth; the percentage of currently married women using

contraception ranges from 53 percent in the lowest wealth quintile to 62 percent in the highest quintile, with a slight drop at the middle quintile.

Table 8.4.1 Current use of contraception by background characteristics

Percent distribution of currently married women age 15-49 by contraceptive method currently used, according to background characteristics, Cambodia 2014

| Background characteristic        | Any method | Any modern method | Modern method        |                    |            |              |     |             |          |             |               |     | Any traditional method | Traditional method |            |       | Not currently using | Total | Number of women |
|----------------------------------|------------|-------------------|----------------------|--------------------|------------|--------------|-----|-------------|----------|-------------|---------------|-----|------------------------|--------------------|------------|-------|---------------------|-------|-----------------|
|                                  |            |                   | Female sterilization | Male sterilization | Daily pill | Monthly pill | IUD | Injectables | Implants | Male condom | Female condom | LAM |                        | Rhythm             | Withdrawal | Other |                     |       |                 |
| <b>Number of living children</b> |            |                   |                      |                    |            |              |     |             |          |             |               |     |                        |                    |            |       |                     |       |                 |
| 0                                | 11.8       | 4.3               | 0.2                  | 0.0                | 2.5        | 0.0          | 0.2 | 0.7         | 0.4      | 0.4         | 0.0           | 0.0 | 7.5                    | 0.9                | 6.5        | 0.0   | 88.2                | 100.0 | 1,128           |
| 1-2                              | 60.4       | 42.3              | 1.3                  | 0.1                | 20.6       | 0.2          | 5.0 | 10.1        | 2.5      | 2.5         | 0.0           | 0.1 | 18.0                   | 2.9                | 15.1       | 0.1   | 39.6                | 100.0 | 5,942           |
| 3-4                              | 65.7       | 45.2              | 5.4                  | 0.1                | 18.8       | 0.2          | 5.1 | 10.3        | 2.7      | 2.4         | 0.0           | 0.1 | 20.5                   | 4.1                | 16.4       | 0.0   | 34.1                | 100.0 | 3,572           |
| 5+                               | 49.9       | 34.6              | 6.9                  | 0.1                | 13.1       | 0.1          | 3.6 | 8.9         | 0.7      | 1.0         | 0.0           | 0.0 | 15.4                   | 1.9                | 13.1       | 0.3   | 50.1                | 100.0 | 1,257           |
| <b>Residence</b>                 |            |                   |                      |                    |            |              |     |             |          |             |               |     |                        |                    |            |       |                     |       |                 |
| Urban                            | 59.8       | 32.8              | 3.7                  | 0.1                | 13.3       | 0.3          | 5.0 | 2.9         | 2.3      | 5.1         | 0.0           | 0.0 | 27.0                   | 7.0                | 19.9       | 0.1   | 40.2                | 100.0 | 1,818           |
| Rural                            | 55.6       | 39.8              | 2.9                  | 0.1                | 18.3       | 0.1          | 4.3 | 10.3        | 2.1      | 1.6         | 0.0           | 0.1 | 15.8                   | 2.2                | 13.5       | 0.1   | 44.3                | 100.0 | 10,080          |
| <b>Province</b>                  |            |                   |                      |                    |            |              |     |             |          |             |               |     |                        |                    |            |       |                     |       |                 |
| Banteay Meanchey                 | 61.4       | 51.0              | 4.7                  | 0.1                | 22.9       | 0.3          | 3.6 | 14.7        | 2.4      | 2.2         | 0.0           | 0.0 | 10.4                   | 0.8                | 9.5        | 0.0   | 38.6                | 100.0 | 503             |
| Kampong Cham                     | 44.3       | 27.3              | 2.3                  | 0.0                | 11.4       | 0.1          | 3.6 | 5.4         | 2.7      | 1.8         | 0.0           | 0.0 | 17.0                   | 3.8                | 13.2       | 0.0   | 55.3                | 100.0 | 1,490           |
| Kampong Chhnang                  | 56.0       | 33.5              | 2.3                  | 0.0                | 14.7       | 0.0          | 5.8 | 7.7         | 1.4      | 1.7         | 0.0           | 0.0 | 22.5                   | 2.0                | 20.5       | 0.0   | 44.0                | 100.0 | 396             |
| Kampong Speu                     | 65.4       | 41.2              | 4.5                  | 0.2                | 25.2       | 0.0          | 3.4 | 5.2         | 0.3      | 2.3         | 0.0           | 0.2 | 24.3                   | 0.7                | 23.6       | 0.0   | 34.6                | 100.0 | 843             |
| Kampong Thom                     | 58.4       | 44.1              | 3.8                  | 0.0                | 15.5       | 0.2          | 5.8 | 14.9        | 3.1      | 0.7         | 0.0           | 0.0 | 14.3                   | 4.7                | 9.6        | 0.0   | 41.6                | 100.0 | 572             |
| Kandal                           | 61.0       | 40.4              | 2.0                  | 0.1                | 19.5       | 0.0          | 4.5 | 12.2        | 0.5      | 1.6         | 0.0           | 0.0 | 20.6                   | 0.8                | 19.8       | 0.0   | 39.0                | 100.0 | 870             |
| Kratie                           | 47.9       | 30.7              | 2.5                  | 0.0                | 11.6       | 0.0          | 5.0 | 8.8         | 1.7      | 1.0         | 0.0           | 0.0 | 17.2                   | 2.3                | 14.4       | 0.5   | 52.1                | 100.0 | 359             |
| Phnom Penh                       | 63.0       | 28.5              | 2.7                  | 0.0                | 11.8       | 0.5          | 5.1 | 1.5         | 1.3      | 5.6         | 0.0           | 0.0 | 34.5                   | 7.9                | 26.4       | 0.2   | 36.7                | 100.0 | 1,084           |
| Prey Veng                        | 55.4       | 41.3              | 2.5                  | 0.2                | 19.4       | 0.0          | 3.7 | 11.6        | 2.7      | 1.2         | 0.0           | 0.0 | 14.1                   | 1.5                | 12.5       | 0.0   | 44.6                | 100.0 | 889             |
| Pursat                           | 51.0       | 40.1              | 1.6                  | 0.3                | 18.8       | 0.3          | 5.6 | 11.1        | 0.7      | 1.7         | 0.0           | 0.0 | 11.0                   | 1.5                | 9.5        | 0.0   | 49.0                | 100.0 | 425             |
| Siem Reap                        | 59.0       | 46.5              | 4.2                  | 0.2                | 19.5       | 0.0          | 5.3 | 10.2        | 3.3      | 3.8         | 0.0           | 0.0 | 12.6                   | 2.4                | 10.2       | 0.0   | 41.0                | 100.0 | 765             |
| Svay Rieng                       | 57.9       | 40.7              | 3.0                  | 0.0                | 19.7       | 0.2          | 3.9 | 9.3         | 2.2      | 1.7         | 0.0           | 0.6 | 17.2                   | 2.6                | 14.6       | 0.0   | 42.1                | 100.0 | 483             |
| Takeo                            | 60.1       | 48.2              | 4.8                  | 0.2                | 19.6       | 1.0          | 6.8 | 10.6        | 3.3      | 1.7         | 0.0           | 0.2 | 12.0                   | 4.0                | 7.9        | 0.0   | 39.9                | 100.0 | 677             |
| Oldar Meanchey                   | 56.6       | 49.7              | 3.6                  | 0.0                | 24.4       | 0.0          | 3.2 | 15.6        | 1.5      | 1.3         | 0.0           | 0.1 | 6.9                    | 0.3                | 6.4        | 0.2   | 43.4                | 100.0 | 218             |
| Battambang/Pailin                | 58.3       | 40.6              | 4.2                  | 0.1                | 19.2       | 0.0          | 4.7 | 8.2         | 2.6      | 1.5         | 0.0           | 0.0 | 17.7                   | 4.0                | 13.2       | 0.4   | 41.7                | 100.0 | 890             |
| Kampot/Kep                       | 53.8       | 38.3              | 1.4                  | 0.0                | 16.3       | 0.2          | 4.9 | 10.7        | 3.0      | 1.7         | 0.0           | 0.2 | 15.5                   | 2.3                | 13.2       | 0.0   | 46.2                | 100.0 | 574             |
| Preah Sihanouk/<br>Koh Kong      | 60.6       | 41.5              | 2.7                  | 0.0                | 18.8       | 0.4          | 5.4 | 6.5         | 5.5      | 2.0         | 0.0           | 0.1 | 19.1                   | 3.4                | 15.5       | 0.1   | 39.4                | 100.0 | 266             |
| Preah Vihear/<br>Stung Treng     | 42.0       | 34.9              | 1.2                  | 0.0                | 17.8       | 0.0          | 0.9 | 13.2        | 0.3      | 1.4         | 0.0           | 0.0 | 7.1                    | 1.4                | 5.7        | 0.0   | 58.0                | 100.0 | 314             |
| Mondul Kiri/<br>Ratanak Kiri     | 50.0       | 42.7              | 2.5                  | 0.0                | 18.5       | 0.0          | 1.3 | 16.3        | 3.6      | 0.5         | 0.0           | 0.0 | 7.3                    | 3.1                | 4.0        | 0.2   | 50.0                | 100.0 | 281             |
| <b>Education</b>                 |            |                   |                      |                    |            |              |     |             |          |             |               |     |                        |                    |            |       |                     |       |                 |
| No education                     | 52.0       | 39.9              | 4.2                  | 0.0                | 17.8       | 0.4          | 2.7 | 12.2        | 1.4      | 1.2         | 0.0           | 0.0 | 12.1                   | 1.1                | 10.9       | 0.2   | 48.0                | 100.0 | 1,774           |
| Primary                          | 56.4       | 39.7              | 2.9                  | 0.1                | 18.5       | 0.1          | 4.5 | 9.6         | 2.2      | 1.7         | 0.0           | 0.0 | 16.7                   | 2.0                | 14.7       | 0.1   | 43.5                | 100.0 | 6,399           |
| Secondary and higher             | 58.1       | 36.7              | 2.8                  | 0.1                | 15.8       | 0.1          | 5.1 | 6.9         | 2.5      | 3.2         | 0.0           | 0.1 | 21.4                   | 5.6                | 15.8       | 0.0   | 41.9                | 100.0 | 3,726           |
| <b>Wealth quintile</b>           |            |                   |                      |                    |            |              |     |             |          |             |               |     |                        |                    |            |       |                     |       |                 |
| Lowest                           | 52.6       | 39.4              | 2.0                  | 0.0                | 18.9       | 0.1          | 3.9 | 11.9        | 1.8      | 0.7         | 0.0           | 0.0 | 13.2                   | 1.1                | 12.0       | 0.1   | 47.3                | 100.0 | 2,294           |
| Second                           | 55.4       | 42.4              | 2.6                  | 0.1                | 20.1       | 0.2          | 4.4 | 11.5        | 1.6      | 1.8         | 0.0           | 0.1 | 13.0                   | 1.4                | 11.6       | 0.0   | 44.6                | 100.0 | 2,404           |
| Middle                           | 53.5       | 38.2              | 3.2                  | 0.0                | 18.6       | 0.1          | 3.2 | 9.3         | 2.3      | 1.5         | 0.0           | 0.0 | 15.3                   | 1.9                | 13.2       | 0.2   | 46.4                | 100.0 | 2,365           |
| Fourth                           | 57.7       | 39.2              | 3.2                  | 0.2                | 18.1       | 0.3          | 4.4 | 8.6         | 2.7      | 1.6         | 0.0           | 0.1 | 18.5                   | 3.0                | 15.5       | 0.0   | 42.3                | 100.0 | 2,393           |
| Highest                          | 61.7       | 34.5              | 4.1                  | 0.1                | 12.3       | 0.2          | 6.1 | 4.5         | 2.4      | 4.8         | 0.0           | 0.0 | 27.2                   | 7.3                | 19.8       | 0.1   | 38.2                | 100.0 | 2,443           |
| <b>Total</b>                     | 56.3       | 38.8              | 3.0                  | 0.1                | 17.6       | 0.2          | 4.4 | 9.1         | 2.2      | 2.1         | 0.0           | 0.1 | 17.5                   | 3.0                | 14.5       | 0.1   | 43.7                | 100.0 | 11,898          |

Note: If more than one method is used, only the most effective method is considered in this tabulation.  
LAM = Lactational amenorrhea method

Current use of contraceptive method among women in Cambodia continues to increase from the levels reported in the first CDHS in 2000. Since the 2010 CDHS, the proportion of currently married women who are using any method of contraception has increased from 51 percent to 56 percent (Table 8.4.2). The proportion of currently married women using any modern method has increased from 35 percent to 39 percent, and the proportion using any traditional method has increased from 16 percent to 18 percent. In the case of individual methods, the largest increases have been achieved among currently married women using pills (16 percent in 2010 to 18 percent in 2014) and withdrawal (12 percent to 15 percent).

**Table 8.4.2 Trends in current use of contraception**

Percent distribution of currently married women age 15-49 by contraceptive method currently used, according to CDHS 2000, CDHS 2005, CDHS 2010, and 2014 CDHS

| Method                        | CDHS 2000   | CDHS 2005   | CDHS 2010   | CDHS 2014   |
|-------------------------------|-------------|-------------|-------------|-------------|
| <b>Any method</b>             | <b>23.8</b> | <b>40.0</b> | <b>50.5</b> | <b>56.3</b> |
| <b>Any modern method</b>      | <b>18.5</b> | <b>27.2</b> | <b>34.9</b> | <b>38.8</b> |
| Female sterilization          | 1.5         | 1.7         | 2.4         | 3.0         |
| Daily/monthly pill            | 7.2         | 12.6        | 15.7        | 17.8        |
| IUD                           | 1.3         | 1.8         | 3.1         | 4.4         |
| Injectables                   | 7.4         | 7.9         | 10.4        | 9.1         |
| Male condom                   | 0.9         | 2.9         | 2.7         | 2.1         |
| Implant                       | 0.1         | 0.2         | 0.4         | 2.2         |
| Other modern                  | 0.1         | 0.1         | 0.1         | 0.4         |
| <b>Any traditional method</b> | <b>5.3</b>  | <b>12.8</b> | <b>15.7</b> | <b>17.5</b> |
| Rhythm                        | 2.7         | 4.5         | 3.9         | 3.0         |
| Withdrawal                    | 2.3         | 8.3         | 11.7        | 14.5        |
| Other traditional             | 0.1         | 0.1         | 0.1         | 0.1         |
| Not currently using           | 76.2        | 60.0        | 49.5        | 43.7        |
| Total                         | 100.0       | 100.0       | 100.0       | 100.0       |
| Number of women               | 9,071       | 10,087      | 11,626      | 11,898      |

### 8.3 USE OF SOCIAL MARKETING BRANDS

Current users of daily pills and condoms were asked for the brand name of the pills and condoms they last used. This information is useful in monitoring the success of social marketing programs that promote a specific brand.

Socially marketed contraceptive brands are prevalent in Cambodia. Almost all pill and condom users are using a socially marketed product (95 percent of pill users and 88 percent of condom users). Just over half of daily pill users (52 percent) use the “Srey Pich” brand of pills, and 43 percent use “OK” brand pills. About half of condom users (51 percent) use OK condoms and 37 percent use “Number 1” brand condoms (Table 8.5). Srey Pich pills are more popular among rural women than among urban women (54 percent versus 32 percent among pill users). OK pills, OK condoms, and Number 1 condoms are equally popular among urban and rural women. There are large differences by province in use of the two brands of pills; however, the small number of pill users in some provinces indicates that caution should be exercised in interpreting these results.

Table 8.5 Use of social marketing brand pills and condoms

Percentage of daily pill and condom users age 15-49 using specific social marketing brands, by background characteristics, Cambodia 2014

| Background characteristic    | Among pill users                |                          |                                      | Among condom users <sup>1</sup> |                            |                               |
|------------------------------|---------------------------------|--------------------------|--------------------------------------|---------------------------------|----------------------------|-------------------------------|
|                              | Percentage using Srey Pich pill | Percentage using OK pill | Number of women using the daily pill | Percentage using Number 1       | Percentage using OK condom | Number of women using condoms |
| <b>Residence</b>             |                                 |                          |                                      |                                 |                            |                               |
| Urban                        | 31.8                            | 43.0                     | 247                                  | 37.4                            | 50.0                       | 96                            |
| Rural                        | 54.2                            | 43.2                     | 1,850                                | 36.1                            | 51.8                       | 144                           |
| <b>Province</b>              |                                 |                          |                                      |                                 |                            |                               |
| Banteay Meanchey             | 46.8                            | 46.0                     | 114                                  | *                               | *                          | 10                            |
| Kampong Cham                 | 31.8                            | 65.2                     | 166                                  | *                               | *                          | 24                            |
| Kampong Chhnang              | 73.5                            | 25.5                     | 57                                   | *                               | *                          | 5                             |
| Kampong Speu                 | 80.9                            | 18.2                     | 211                                  | *                               | *                          | 18                            |
| Kampong Thom                 | 33.9                            | 62.6                     | 90                                   | *                               | *                          | 5                             |
| Kandal                       | 48.6                            | 49.0                     | 169                                  | *                               | *                          | 14                            |
| Kratie                       | 41.1                            | 57.8                     | 41                                   | *                               | *                          | 4                             |
| Phnom Penh                   | 35.2                            | 33.7                     | 133                                  | (34.6)                          | (53.1)                     | 62                            |
| Prey Veng                    | 51.1                            | 46.7                     | 173                                  | *                               | *                          | 10                            |
| Pursat                       | 57.7                            | 39.0                     | 81                                   | *                               | *                          | 7                             |
| Siem Reap                    | 43.9                            | 47.8                     | 152                                  | (39.1)                          | (54.8)                     | 29                            |
| Svay Rieng                   | 48.1                            | 51.9                     | 96                                   | *                               | *                          | 8                             |
| Takeo                        | 68.0                            | 27.4                     | 139                                  | *                               | *                          | 11                            |
| Otdar Meanchey               | 45.7                            | 50.4                     | 53                                   | *                               | *                          | 3                             |
| Battambang/Pailin            | 51.8                            | 43.8                     | 171                                  | *                               | *                          | 11                            |
| Kampot/Kep                   | 52.7                            | 47.1                     | 94                                   | *                               | *                          | 8                             |
| Preah Sihanouk/<br>Koh Kong  | 50.8                            | 37.8                     | 50                                   | *                               | *                          | 5                             |
| Preah Vihear/<br>Stung Treng | 57.6                            | 41.4                     | 56                                   | *                               | *                          | 4                             |
| Mondul Kiri/<br>Ratanak Kiri | 46.1                            | 45.1                     | 50                                   | *                               | *                          | 1                             |
| <b>Education</b>             |                                 |                          |                                      |                                 |                            |                               |
| No education                 | 45.0                            | 53.2                     | 317                                  | *                               | *                          | 18                            |
| Primary                      | 53.4                            | 43.8                     | 1,189                                | 38.8                            | 49.6                       | 107                           |
| Secondary and higher         | 51.3                            | 36.4                     | 591                                  | 34.6                            | 50.7                       | 115                           |
| <b>Wealth quintile</b>       |                                 |                          |                                      |                                 |                            |                               |
| Lowest                       | 52.1                            | 47.1                     | 434                                  | *                               | *                          | 14                            |
| Second                       | 55.1                            | 43.2                     | 483                                  | (34.5)                          | (51.8)                     | 36                            |
| Middle                       | 60.4                            | 37.9                     | 441                                  | (49.0)                          | (51.0)                     | 35                            |
| Fourth                       | 51.0                            | 46.4                     | 437                                  | (46.4)                          | (43.0)                     | 39                            |
| Highest                      | 33.1                            | 40.5                     | 303                                  | (33.5)                          | 51.2                       | 115                           |
| Total                        | 51.6                            | 43.2                     | 2,097                                | 36.6                            | 51.1                       | 240                           |

Note: Table excludes pill and condom users who do not know the brand name. Condom use is based on women's reports. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Among condom users not also using the pill

## 8.4 KNOWLEDGE OF FERTILE PERIOD

The successful use of natural family planning methods depends largely on an understanding of when during the menstrual cycle a woman is most likely to conceive. All women in the survey were asked about their knowledge of the fertile period. Specifically, they were asked whether there are certain days between two menstrual periods when a woman is more likely to become pregnant if she has sexual intercourse. Those who said yes were further asked whether this time is just before the period begins, during the period, right after the period ends, or halfway between the two periods.

Table 8.6 shows that 64 percent of women do not know when a woman's fertile period is, and only 21 percent correctly state that the fertile time in a woman's menstrual cycle is halfway between two periods. Knowledge of the fertile period is much higher among women who are users of the rhythm method, 88 percent of whom accurately know the timing of the fertile period. However, 8 percent of rhythm method users report that they don't know when the fertile period is, and an additional 3 percent believe it is right after a woman's period has ended. Thus, slightly more than one-tenth of users of the rhythm method are at risk of unwanted pregnancy.

**Table 8.6 Knowledge of fertile period**

Percent distribution of women age 15-49 by knowledge of the fertile period during the ovulatory cycle, according to current use of the rhythm method, Cambodia 2014

| Perceived fertile period                   | Users of rhythm method | Nonusers of rhythm method | All women |
|--|------------------------|---------------------------|-----------|
| Just before her menstrual period begins    | 0.5                    | 1.2                       | 1.2       |
| During her menstrual period                | 0.0                    | 0.5                       | 0.5       |
| Right after her menstrual period has ended | 3.4                    | 6.8                       | 6.7       |
| Halfway between two menstrual periods      | 87.7                   | 19.1                      | 20.5      |
| No specific time                           | 0.9                    | 7.3                       | 7.2       |
| Don't know                                 | 7.5                    | 65.1                      | 63.9      |
| Missing                                    | 0.0                    | 0.0                       | 0.0       |
| Total                                      | 100.0                  | 100.0                     | 100.0     |
| Number of women                            | 357                    | 17,221                    | 17,578    |

## 8.5 TIMING OF STERILIZATION

Given the effectiveness of female sterilization as a means of preventing pregnancies, family planning programs should emphasize dissemination of information about this method. Trends in the use of sterilization are of interest, especially trends in women's age at the time of the operation.

In Cambodia, 3 percent of married women of reproductive age rely on sterilization as their method of contraception. Table 8.7 shows the distribution of sterilized women age 15-49 by age group at the time of sterilization and median age at sterilization. The data are disaggregated according to number of years since the operation. Thirty-four percent of women who have been sterilized had the operation at age 30-34, with 24 percent each having the operation at age 25-29 and age 35-39. The median age at sterilization is 31.9, a figure that has not varied substantially over time.

**Table 8.7 Timing of sterilization**

Percent distribution of sterilized women age 15-49 by age at the time of sterilization and median age at sterilization, according to the number of years since the operation, Cambodia 2014

| Years since operation | Age at time of sterilization |        |        |        |       |       | Total | Number of women | Median age <sup>1</sup> |
|-----------------------|------------------------------|--------|--------|--------|-------|-------|-------|-----------------|-------------------------|
|                       | <25                          | 25-29  | 30-34  | 35-39  | 40-44 | 45-49 |       |                 |                         |
| <2                    | 2.4                          | 20.0   | 34.7   | 26.9   | 13.1  | 3.0   | 100.0 | 56              | 33.7                    |
| 2-3                   | 5.6                          | 12.9   | 39.3   | 28.6   | 13.5  | 0.0   | 100.0 | 70              | 32.8                    |
| 4-5                   | 4.3                          | 27.5   | 31.5   | 25.1   | 11.6  | 0.0   | 100.0 | 88              | 30.8                    |
| 6-7                   | 4.9                          | 25.2   | 29.9   | 27.1   | 12.9  | 0.0   | 100.0 | 75              | 33.1                    |
| 8-9                   | (13.5)                       | (30.8) | (20.1) | (29.6) | (5.9) | (0.0) | 100.0 | 29              | (30.4)                  |
| 10+                   | 17.3                         | 28.8   | 43.0   | 11.0   | 0.0   | 0.0   | 100.0 | 70              | a                       |
| Total                 | 7.4                          | 23.8   | 34.3   | 24.1   | 9.9   | 0.4   | 100.0 | 387             | 31.9                    |

Note: Figures in parentheses are based on 25-49 unweighted cases.

a = Not calculated due to censoring

<sup>1</sup> Median age at sterilization is calculated only for women sterilized before age 40 to avoid problems of censoring.

## 8.6 SOURCE OF FAMILY PLANNING METHODS

Data on sources of modern contraceptives are important for family planning program managers and service providers. Women who reported using a modern method of contraception at the time of the survey were asked where they last obtained the method, and interviewers recorded the name and location of the source. To ensure accuracy in reporting, supervisors and editors verified the type of source from the written response.

Table 8.8 shows that users of modern contraceptives obtain their methods from the public sector more than from the private medical sector (47 percent versus 39 percent). Thirty-nine percent of all modern contraceptive users obtain their methods from public health centers, and 20 percent obtain their methods from a private pharmacy. Approximately 12 percent of women who use contraception obtain their methods from private clinics, 8 percent from a community distributor, and 4 percent from a shop.

Table 8.8 Source of modern contraception methods

Percent distribution of users of modern contraceptive methods age 15-49 by most recent source of method, according to method, Cambodia 2014

| Source                        | Female sterilization | Daily pill  | IUD         | Injectables | Implants    | Male condom | Total <sup>1</sup> |
|-------------------------------|----------------------|-------------|-------------|-------------|-------------|-------------|--------------------|
| <b>Public sector</b>          | <b>75.6</b>          | <b>35.0</b> | <b>53.0</b> | <b>64.9</b> | <b>48.5</b> | <b>17.3</b> | <b>47.2</b>        |
| National hospital (PP)        | 12.2                 | 0.0         | 0.7         | 0.0         | 0.0         | 0.0         | 1.1                |
| Provincial hospital (RH)      | 36.6                 | 0.1         | 2.6         | 0.5         | 3.2         | 0.1         | 3.8                |
| District hospital (RH)        | 21.5                 | 0.3         | 5.3         | 0.5         | 2.0         | 1.2         | 2.9                |
| Health center                 | 4.5                  | 34.2        | 44.1        | 62.5        | 42.0        | 15.6        | 38.7               |
| Health post                   | 0.0                  | 0.4         | 0.0         | 0.8         | 0.0         | 0.0         | 0.3                |
| Military hospital             | 0.0                  | 0.0         | 0.0         | 0.0         | 0.0         | 0.5         | 0.0                |
| Other public sector           | 0.7                  | 0.1         | 0.3         | 0.7         | 1.3         | 0.0         | 0.4                |
| <b>Private medical sector</b> | <b>22.3</b>          | <b>42.1</b> | <b>34.7</b> | <b>32.5</b> | <b>48.0</b> | <b>64.9</b> | <b>39.0</b>        |
| Private hospital              | 5.8                  | 2.0         | 0.7         | 3.2         | 4.2         | 1.3         | 2.5                |
| Private clinic                | 16.2                 | 5.2         | 26.1        | 12.1        | 34.1        | 3.1         | 11.7               |
| Pharmacy                      | 0.3                  | 32.8        | 0.0         | 8.1         | 0.2         | 58.7        | 20.3               |
| Other private medical sector  | 0.0                  | 2.2         | 7.9         | 9.0         | 9.4         | 1.7         | 4.6                |
| <b>Other sources</b>          | <b>0.0</b>           | <b>22.8</b> | <b>0.6</b>  | <b>2.4</b>  | <b>1.5</b>  | <b>17.8</b> | <b>12.0</b>        |
| Shop                          | 0.0                  | 6.6         | 0.0         | 0.1         | 0.0         | 13.4        | 3.8                |
| Community distributor         | 0.0                  | 16.0        | 0.6         | 2.3         | 1.5         | 2.9         | 8.0                |
| Friend/relative               | 0.0                  | 0.2         | 0.0         | 0.1         | 0.0         | 1.5         | 0.2                |
| Other                         | 1.5                  | 0.0         | 0.2         | 0.1         | 0.7         | 0.0         | 0.2                |
| Missing                       | 0.6                  | 0.1         | 11.5        | 0.2         | 1.4         | 0.0         | 1.5                |
| Total                         | 100.0                | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0              |
| Number of women               | 387                  | 2,098       | 530         | 1,094       | 257         | 266         | 4,663              |

Note: Total includes 10 users of male sterilization and 21 users of monthly pills.

<sup>1</sup> Includes other modern methods but excludes lactational amenorrhea method (LAM)

PP = Phnom Penh

RH = Referral hospital

There is notable variation in source of method by type of contraceptive. Users of daily pills most often obtain them from a public health center (34 percent), a pharmacy (33 percent), or a community distributor (16 percent). The public sector is the largest source of IUDs. More than half of women (53 percent) who use an IUD obtained it from the public sector, primarily a health center (44 percent). An additional 35 percent obtained their IUD from a private medical source. The public sector is also the most common source of contraception among women who use injectables (65 percent). Similar proportions of implant users obtain their methods from public (49 percent) and private (48 percent) sources. Two-thirds of condom users obtain their method from a private source, predominantly pharmacies. Finally, provincial hospitals and district hospitals are the most commonly cited sources of female sterilization.

Since the 2010 CDHS, there have been changes in the most commonly cited sources of contraceptive methods. In 2010, users of daily pills and male condoms were less likely to obtain them from a pharmacy and more likely to obtain them from the public sector than in 2014. Female sterilization was more commonly done in a private hospital or private clinic in 2014 than in 2010.

## 8.7 INFORMED CHOICE

Current users of modern methods who are well informed about the side effects and problems associated with different methods and who know of a range of method options are in a better position to make an informed choice about the method they would like to use. Current users of various modern contraceptive methods were asked whether, at the time they were initiating their use of a particular method, they were informed about the possible side effects or problems they might have with the method and what to do if they experienced side effects. Table 8.9 shows the percentage of current users of modern methods who were informed about side effects or problems with the method used, informed about what to do if they experienced side effects, and informed of other methods they could use, according to the type of method they are currently using and initial source of the method.

Table 8.9 Informed choice

Among current users of modern methods age 15-49 who started the last episode of use within the five years preceding the survey, the percentage who were informed about possible side effects or problems of that method, the percentage who were informed about what to do if they experienced side effects, and the percentage who were informed about other methods they could use, by method and initial source, Cambodia 2014

|   | Among women who started last episode of modern contraceptive method within five years preceding the survey: |   |  |                 |
|---|---|---|--|-----------------|
| Method/source                               | Percentage who were informed about side effects or problems of method used                                  | Percentage who were informed about what to do if side effects experienced | Percentage who were informed by a health or family planning worker of other methods that could be used | Number of women |
| <b>Method</b>                               |   |   |  |                 |
| Female sterilization                        | 88.4  | 75.5  | 80.7   | 166             |
| Daily pill                                  | 73.3  | 68.9  | 75.1   | 1,548           |
| IUD   | 97.3  | 96.3  | 91.0   | 446             |
| Injectables                                 | 84.3  | 78.8  | 83.0   | 874             |
| Implants                                    | 94.4  | 92.6  | 88.6   | 251             |
| <b>Initial source of method<sup>1</sup></b> |   |   |  |                 |
| Public sector                               | 91.9  | 88.6  | 87.9   | 1,797           |
| National hospital (PP)                      | (88.7)  | (73.9)  | (84.7)   | 28              |
| Provincial hospital (RH)                    | 88.3  | 82.1  | 80.6   | 92              |
| District hospital (RH)                      | 95.4  | 89.9  | 90.3   | 81              |
| Health center                               | 92.1  | 89.2  | 88.3   | 1,573           |
| Health post                                 | (77.0)  | (77.0)  | (67.4)   | 13              |
| Other public sector                         | *   | *   | *  | 10              |
| Private sector                              | 70.5  | 65.5  | 72.1   | 1,162           |
| Private hospital                            | 79.0  | 79.0  | 85.2   | 71              |
| Private clinic                              | 87.9  | 83.9  | 83.6   | 431             |
| Pharmacy                                    | 54.1  | 48.8  | 61.0   | 435             |
| Other private medical sector                | 66.3  | 58.4  | 67.2   | 225             |
| Other sources                               | 66.4  | 57.3  | 72.2   | 320             |
| Shop  | 41.8  | 36.3  | 57.8   | 82              |
| Community distributor                       | 75.6  | 65.5  | 77.3   | 225             |
| Friend/relative                             | *   | *   | *  | 13              |
| Other                                       | *   | *   | *  | 5               |
| Total                                       | 81.9  | 77.4  | 80.7   | 3,284           |

Note: Table includes users of only the methods listed individually. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Source at start of current episode of use

Overall, 82 percent of contraceptive users were informed about side effects of their method when they initiated their current use of that method. More than three-quarters (77 percent) of women were informed about what to do if they experienced side effects, and 81 percent were informed by a health or family planning worker about other methods they could use.

Findings on informed choice varied by method. Users of IUDs and implants were most likely to have received all three types of information relating to informed choice. Unfortunately, users of the most commonly used method—pills—were least likely to be informed; 73 percent of users of the daily pill were informed of side effects, and 69 percent were told about what to do in the event of side effects. Users of pills (75 percent) were also least likely to be informed of other methods.

## 8.8 FUTURE USE OF CONTRACEPTION

Intention to use a method of contraception is an important indicator of the potential demand for family planning services. Currently married women who were not using contraception at the time of the survey were asked about their intention to use family planning methods in the future. The results are presented in Table 8.10.



Table 8.10 Future use of contraception

Percent distribution of currently married women age 15-49 who are not using a contraceptive method by intention to use in the future, according to number of living children, Cambodia 2014

| Intention              | Number of living children <sup>1</sup> |       |       |       |       | Total |
|------------------------|--|-------|-------|-------|-------|-------|
|                        | 0                                      | 1     | 2     | 3     | 4+    |       |
| Intends to use         | 56.4                                   | 72.5  | 61.2  | 46.8  | 29.2  | 54.4  |
| Unsure                 | 7.6                                    | 3.5   | 4.7   | 5.0   | 5.5   | 4.9   |
| Does not intend to use | 36.0                                   | 24.1  | 33.8  | 48.2  | 65.1  | 40.6  |
| Missing                | 0.0                                    | 0.0   | 0.3   | 0.1   | 0.2   | 0.1   |
| Total                  | 100.0                                  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of women        | 540                                    | 1,472 | 1,215 | 775   | 1,195 | 5,198 |

<sup>1</sup> Includes current pregnancy

Fifty-four percent of currently married women who were not using any contraception at the time of the survey reported that they intend to use a family planning method sometime in the future, approximately the same percentage as in 2010 (53 percent). Forty-one percent do not intend to use any method, and 5 percent are unsure of their intention. The proportion of women who intend to use contraception in the future varied by number of living children, increasing from 56 percent among those with no living children to a peak of 73 percent among those with one child. These women are most likely interested in spacing subsequent births.

## 8.9 EXPOSURE TO FAMILY PLANNING MESSAGES

The media can be a major source of family planning messages. Information about public exposure to messages on a particular type of media allows policymakers to ensure the use of the most effective means of communication for various target groups in the population. To assess the effectiveness of electronic and print sources in disseminating family planning information, women interviewed in the 2014 CDHS were asked whether they had heard or seen family planning messages on the radio or television or read a family planning message in a newspaper or magazine in the months leading up to the survey. The results are shown in Table 8.11.

Media messages about family planning were largely accessed through television and radio, with lesser access through the print media. For example, 51 percent of women had recently heard about family planning on television and 38 percent had recently heard about it on the radio. By contrast, only 17 percent of women obtained such information from newspapers or magazines. There has been a significant decline in access to family planning messages since 2010. In 2014, 40 percent of women were not exposed to a family planning message through any of these three media sources in the months preceding the survey, as compared with only 25 percent of women in 2010. Access to family planning messages declined for all three types of mass media.

Significant variation was observed in exposure to family planning messages by background characteristics. Younger women were more likely to be exposed to family planning messages than older women, and women in rural areas had less exposure to information on family planning through the media than women in urban areas. For example, 43 percent of rural women had not seen or heard family planning messages in any of the three types of media, as compared with 30 percent of urban women. Educational attainment and wealth quintile were both associated with access to family planning messages in the media. For example, only 5 percent of women with no schooling were exposed to a family planning message in a newspaper or magazine, as compared with 28 percent of women with a secondary education or higher. In addition, the proportion of women who had not seen or heard family planning messages in any of the three types of media decreased steadily from 59 percent among those in the lowest wealth quintile to 28 percent among those in the highest wealth quintile.

Table 8.11 Exposure to family planning messages

Percentage of women age 15-49 who heard or saw a family planning message on radio, on television, or in a newspaper or magazine in the past few months, according to background characteristics, Cambodia 2014

| Background characteristic    | Radio | Television | Newspaper/<br>magazine | None of these<br>three media<br>sources | Number of<br>women |
|------------------------------|-------|------------|------------------------|---|--------------------|
| <b>Age</b>                   |       |            |                        |   |                    |
| 15-19                        | 40.1  | 51.1       | 18.5                   | 39.2                                    | 2,893              |
| 20-24                        | 38.6  | 53.6       | 21.7                   | 37.8                                    | 3,017              |
| 25-29                        | 39.8  | 52.8       | 18.8                   | 37.3                                    | 2,836              |
| 30-34                        | 37.2  | 52.0       | 16.3                   | 40.3                                    | 3,046              |
| 35-39                        | 33.2  | 48.3       | 13.4                   | 45.0                                    | 1,839              |
| 40-44                        | 36.0  | 48.6       | 14.6                   | 43.6                                    | 2,030              |
| 45-49                        | 40.0  | 49.4       | 13.1                   | 42.5                                    | 1,916              |
| <b>Residence</b>             |       |            |                        |   |                    |
| Urban                        | 36.0  | 63.7       | 28.2                   | 30.2                                    | 3,251              |
| Rural                        | 38.5  | 48.4       | 14.6                   | 42.6                                    | 14,327             |
| <b>Province</b>              |       |            |                        |   |                    |
| Banteay Meanchey             | 25.4  | 45.7       | 11.1                   | 49.9                                    | 689                |
| Kampong Cham                 | 22.4  | 29.6       | 5.6                    | 60.3                                    | 2,021              |
| Kampong Chhnang              | 64.0  | 67.7       | 33.6                   | 19.1                                    | 662                |
| Kampong Speu                 | 32.2  | 49.2       | 4.2                    | 44.2                                    | 1,196              |
| Kampong Thom                 | 48.6  | 60.2       | 12.8                   | 29.4                                    | 851                |
| Kandal                       | 43.8  | 67.3       | 17.9                   | 28.3                                    | 1,330              |
| Kratie                       | 29.2  | 19.6       | 6.8                    | 63.0                                    | 488                |
| Phnom Penh                   | 35.6  | 65.6       | 32.1                   | 27.0                                    | 1,994              |
| Prey Veng                    | 82.3  | 88.7       | 47.0                   | 10.1                                    | 1,188              |
| Pursat                       | 32.9  | 37.2       | 8.4                    | 52.5                                    | 631                |
| Siem Reap                    | 40.6  | 41.6       | 16.5                   | 44.1                                    | 1,137              |
| Svay Rieng                   | 44.1  | 62.1       | 23.8                   | 33.6                                    | 654                |
| Takeo                        | 41.3  | 67.9       | 19.3                   | 29.7                                    | 1,082              |
| Otdar Meanchey               | 19.2  | 28.1       | 11.1                   | 60.3                                    | 294                |
| Battambang/Pailin            | 19.7  | 34.8       | 9.3                    | 57.6                                    | 1,333              |
| Kampot/Kep                   | 38.1  | 45.6       | 6.0                    | 41.3                                    | 770                |
| Preah Sihanouk/<br>Koh Kong  | 33.5  | 60.1       | 16.0                   | 35.6                                    | 422                |
| Preah Vihear/<br>Stung Treng | 28.4  | 18.7       | 5.6                    | 62.3                                    | 462                |
| Mondul Kiri/<br>Ratanak Kiri | 38.1  | 25.7       | 18.7                   | 55.2                                    | 372                |
| <b>Education</b>             |       |            |                        |   |                    |
| No education                 | 28.3  | 33.1       | 5.1                    | 58.7                                    | 2,250              |
| Primary                      | 36.2  | 47.2       | 11.2                   | 44.0                                    | 8,281              |
| Secondary and<br>higher      | 43.4  | 61.6       | 28.0                   | 30.1                                    | 7,047              |
| <b>Wealth quintile</b>       |       |            |                        |   |                    |
| Lowest                       | 32.5  | 27.7       | 8.4                    | 59.2                                    | 3,143              |
| Second                       | 36.9  | 42.1       | 11.5                   | 47.5                                    | 3,314              |
| Middle                       | 42.0  | 53.2       | 14.2                   | 38.5                                    | 3,381              |
| Fourth                       | 41.2  | 61.6       | 17.5                   | 33.0                                    | 3,612              |
| Highest                      | 37.3  | 65.7       | 30.5                   | 28.2                                    | 4,128              |
| Total                        | 38.1  | 51.2       | 17.1                   | 40.3                                    | 17,578             |

Exposure to family planning messages through the media was highest in Prey Veng and lowest in Kratie and Preah Vihear/Stung Treng.

## 8.10 CONTACT OF NONUSERS WITH FAMILY PLANNING PROVIDERS

Family planning services are important for the improvement of mother and child health. Thus, it is crucial that every opportunity to meet a woman's family planning needs be fully exploited. In reality, however, health care providers miss these opportunities. Information on missed opportunities was gathered in the survey by asking women who were not currently using a modern contraceptive method whether they had visited a health facility in the 12 months preceding the survey. Those who visited a health facility were asked whether anyone at the facility had discussed family planning with them during any of their visits. Women were also asked whether they had been visited by a fieldworker who talked with them about family planning in the 12 months preceding the survey.

Results showed that three-quarters of nonusers did not have any contact with health care providers or fieldworkers with whom family planning was discussed (Table 8.12). Only 18 percent of nonusers

reported being visited by fieldworkers who discussed family planning issues. Thirty-nine percent of nonusers visited a health facility during the 12 months preceding the survey, but the majority of these women did not discuss family planning with any health care provider (25 percent). Younger nonusers, those in urban areas, and those in Mondul Kiri/Ratanak Kiri are particularly disadvantaged. There have not been any improvements in maximizing opportunities to meet a woman's family planning needs over the past four years. Levels of missed opportunities among nonusers remain high and have actually increased somewhat during this period.

**Table 8.12 Contact of nonusers with family planning providers**

Among all women age 15-49 who are not currently using any contraception, the percentage who during the past 12 months were visited by a fieldworker who discussed family planning, the percentage who visited a health facility and discussed family planning, the percentage who visited a health facility but did not discuss family planning, and the percentage who did not discuss family planning either with a fieldworker or at a health facility, by background characteristics, Cambodia 2014

| Background characteristic    | Percentage of women who were visited by fieldworker who discussed family planning | Percentage of women who visited a health facility in the past 12 months and who: |                                 | Percentage of women who did not discuss family planning either with fieldworker or at a health facility | Number of women |
|------------------------------|---|--|---------------------------------|---|-----------------|
|                              |   | Discussed family planning  | Did not discuss family planning |   |                 |
| <b>Age</b>                   |   |  |                                 |   |                 |
| 15-19                        | 12.0  | 6.2  | 18.6                            | 86.0  | 2,760           |
| 20-24                        | 15.8  | 15.2   | 29.9                            | 75.9  | 2,121           |
| 25-29                        | 21.8  | 20.6   | 28.3                            | 68.5  | 1,441           |
| 30-34                        | 22.4  | 22.6   | 28.8                            | 65.8  | 1,252           |
| 35-39                        | 21.1  | 17.0   | 28.5                            | 70.6  | 771             |
| 40-44                        | 20.3  | 14.2   | 24.3                            | 72.9  | 1,024           |
| 45-49                        | 22.5  | 9.7  | 23.4                            | 74.7  | 1,436           |
| <b>Residence</b>             |   |  |                                 |   |                 |
| Urban                        | 7.1   | 10.2   | 32.7                            | 84.9  | 2,124           |
| Rural                        | 20.8  | 14.7   | 23.4                            | 73.2  | 8,681           |
| <b>Province</b>              |   |  |                                 |   |                 |
| Banteay Meanchey             | 13.9  | 10.3   | 25.7                            | 79.3  | 379             |
| Kampong Cham                 | 15.0  | 11.8   | 35.1                            | 77.3  | 1,353           |
| Kampong Chhnang              | 66.8  | 56.4   | 20.9                            | 28.8  | 440             |
| Kampong Speu                 | 19.7  | 9.1  | 24.5                            | 76.6  | 643             |
| Kampong Thom                 | 7.8   | 8.0  | 17.4                            | 87.6  | 513             |
| Kandal                       | 10.7  | 4.2  | 24.8                            | 85.8  | 798             |
| Kratie                       | 7.3   | 11.0   | 25.0                            | 83.7  | 317             |
| Phnom Penh                   | 4.3   | 10.8   | 44.1                            | 86.0  | 1,279           |
| Prey Veng                    | 21.1  | 13.5   | 4.0                             | 76.2  | 695             |
| Pursat                       | 11.8  | 7.4  | 13.2                            | 84.2  | 411             |
| Siem Reap                    | 17.0  | 15.3   | 29.8                            | 72.9  | 673             |
| Svay Rieng                   | 10.8  | 11.8   | 24.9                            | 81.4  | 373             |
| Takeo                        | 38.5  | 25.6   | 13.6                            | 57.1  | 672             |
| Otdar Meanchey               | 15.8  | 7.7  | 6.5                             | 81.5  | 171             |
| Battambang/Pailin            | 26.7  | 16.1   | 25.8                            | 66.4  | 807             |
| Kampot/Kep                   | 16.4  | 13.0   | 15.6                            | 75.3  | 461             |
| Preah Sihanouk/<br>Koh Kong  | 15.6  | 11.4   | 12.2                            | 76.6  | 260             |
| Preah Vihear/<br>Stung Treng | 28.1  | 17.2   | 37.0                            | 62.3  | 330             |
| Mondul Kiri/<br>Ratanak Kiri | 7.0   | 2.1  | 25.7                            | 91.6  | 231             |
| <b>Education</b>             |   |  |                                 |   |                 |
| No education                 | 22.8  | 14.4   | 23.4                            | 71.6  | 1,316           |
| Primary                      | 19.7  | 14.8   | 25.5                            | 73.4  | 4,632           |
| Secondary and higher         | 15.4  | 12.6   | 25.4                            | 78.5  | 4,857           |
| <b>Wealth quintile</b>       |   |  |                                 |   |                 |
| Lowest                       | 22.4  | 15.2   | 24.8                            | 71.9  | 1,923           |
| Second                       | 20.7  | 16.4   | 19.6                            | 72.5  | 1,973           |
| Middle                       | 21.1  | 14.4   | 22.9                            | 73.2  | 2,109           |
| Fourth                       | 20.2  | 13.1   | 24.0                            | 74.1  | 2,220           |
| Highest                      | 8.7   | 10.9   | 32.7                            | 83.5  | 2,579           |
| <b>Total</b>                 | <b>18.1</b>   | <b>13.8</b>  | <b>25.2</b>                     | <b>75.5</b>   | <b>10,805</b>   |

### Key Findings

- The median age at marriage among men age 25-49 is 23 years, two years older than the median age among women (21 years).
- The percentage of women who were first married by age 15 declines from 7 percent among women currently age 45-49 to 1 percent among women age 15-19.
- Among Cambodian women, the median age at first sex is about the same as the median age at first marriage. In contrast, men typically initiate sexual intercourse one full year before their first marriage.
- Overall, although it is illegal, 3 percent of married women in Cambodia are in a polygamous union.

This chapter examines the principal factors, other than contraception, that affect a woman's chances of becoming pregnant. These factors include marriage (including consensual unions), postpartum amenorrhea, abstinence from sexual relations, and termination of exposure to pregnancy. Marriage and sexual relations relate to childbearing; postpartum amenorrhea and abstinence affect the intervals between births; and menopause marks the end of childbearing. This chapter also takes an in-depth look at more direct measures of timing and level of exposure to the risk of pregnancy: age at first sexual intercourse and frequency of intercourse. Marriage is an important fertility indicator because, for most women in Cambodia, it marks the beginning of regular exposure to the risk of pregnancy. Populations in which the age at first marriage is low also tend to experience early childbearing and high fertility. Measures of the onset of menopause are important because the probability of becoming pregnant decreases as women approach the end of their reproductive years and increasing proportions become infecund. Collectively, the above-mentioned factors determine the duration and pace of reproductive activity and hence are important in understanding fertility.

### 9.1 MARITAL STATUS

Table 9.1 shows the distribution of all women and men age 15-49 by current marital status. The data indicate that, on average, 25 percent of Cambodian women of reproductive age have never been married, and 68 percent are currently married or cohabiting as if married. Four percent of women of reproductive age are divorced or separated, and 3 percent are widows. A higher proportion of men age 15-49 have never been married (32 percent), and, because men tend to marry later than women, fewer men than women in the youngest age groups have ever been married. Almost no men in the two oldest age groups have never been married.

Table 9.1 Current marital status

Percent distribution of women and men age 15-49 by current marital status, according to age, Cambodia 2014

| Age   | Marital status |         |                 |          |           |         | Total | Percentage of respondents currently in union | Number of respondents |
|-------|----------------|---------|-----------------|----------|-----------|---------|-------|--|-----------------------|
|       | Never married  | Married | Living together | Divorced | Separated | Widowed |       |  |                       |
| WOMEN |                |         |                 |          |           |         |       |  |                       |
| 15-19 | 83.4           | 15.4    | 0.2             | 0.6      | 0.3       | 0.1     | 100.0 | 15.6   | 2,893                 |
| 20-24 | 35.8           | 59.9    | 0.8             | 1.9      | 0.3       | 1.2     | 100.0 | 60.8   | 3,017                 |
| 25-29 | 15.0           | 78.7    | 0.6             | 4.1      | 0.3       | 1.3     | 100.0 | 79.3   | 2,836                 |
| 30-34 | 7.6            | 85.7    | 0.5             | 3.5      | 0.3       | 2.5     | 100.0 | 86.2   | 3,046                 |
| 35-39 | 5.1            | 84.9    | 0.6             | 4.7      | 0.4       | 4.3     | 100.0 | 85.5   | 1,839                 |
| 40-44 | 5.0            | 81.9    | 0.5             | 5.2      | 0.4       | 7.0     | 100.0 | 82.4   | 2,030                 |
| 45-49 | 4.2            | 77.6    | 0.4             | 6.1      | 0.5       | 11.2    | 100.0 | 78.0   | 1,916                 |
| Total | 25.2           | 67.2    | 0.5             | 3.4      | 0.3       | 3.3     | 100.0 | 67.7   | 17,578                |
| MEN   |                |         |                 |          |           |         |       |  |                       |
| 15-19 | 96.8           | 2.9     | 0.1             | 0.0      | 0.2       | 0.0     | 100.0 | 3.0  | 926                   |
| 20-24 | 59.4           | 36.1    | 0.8             | 1.5      | 1.8       | 0.4     | 100.0 | 36.9   | 835                   |
| 25-29 | 24.6           | 72.0    | 0.6             | 2.7      | 0.1       | 0.0     | 100.0 | 72.6   | 815                   |
| 30-34 | 5.5            | 91.6    | 0.1             | 2.3      | 0.3       | 0.2     | 100.0 | 91.7   | 907                   |
| 35-39 | 2.5            | 95.2    | 0.1             | 2.1      | 0.0       | 0.1     | 100.0 | 95.2   | 556                   |
| 40-44 | 1.1            | 96.1    | 0.0             | 0.9      | 0.1       | 1.8     | 100.0 | 96.1   | 595                   |
| 45-49 | 0.0            | 97.4    | 0.5             | 0.3      | 0.0       | 1.7     | 100.0 | 98.0   | 556                   |
| Total | 32.0           | 65.3    | 0.3             | 1.4      | 0.4       | 0.5     | 100.0 | 65.6   | 5,190                 |

Table 9.1 also shows that the proportion of women who have never married decreases with age to a low of 4 percent among those age 45-49. This reflects the near universality of marriage in Cambodian society. Consequently, the proportion of women currently married or cohabiting as if married increases with age up to age 30-39 (86 percent) and declines thereafter due to increasing levels of widowhood. Widowhood also increases with age among men, but not to the same extent as among women. Only 2 percent of men age 45-49 are widowed, as compared with 11 percent of women. This is likely due to men's greater propensity to remarry after having been widowed.

## 9.2 POLYGAMY

The survey asked currently married women (in formal or informal union) whether their partners had other wives. Table 9.2 shows the percent distribution of married women by number of co-wives, according to background characteristics. Polygamy is not very common in Cambodia. However, although it is illegal, it affects 3 percent of women in union.

The proportion of women in a polygamous marriage increases with age, from less than 2 percent at age 15-19 to 5 percent at age 45-49. Although the prevalence of polygamy does not differ by residence, there is substantial variation by province. The percentage of currently married women with co-wives is highest in Kampot/Kep (9 percent) and lowest in Kampong Thom, Kratie, Otdar Meanchey, Battambang/Pailin, Preah Vihear/Stung Treng, and Mondul Kiri/Ratanak Kiri (less than 1 percent). Women's level of education is related to the prevalence of this practice: the percentage of married women with co-wives is twice as high among those with no education (4 percent) as among those with a secondary education or higher (2 percent). The proportion of women with co-wives varies little by wealth quintile, from 2 percent to 3 percent.

Table 9.2 Number of women's co-wives

Percent distribution of currently married women age 15-49 by number of co-wives, according to background characteristics, Cambodia 2014

| Background characteristic    | Number of co-wives |     |     |         | Total | Number of women |
|------------------------------|--------------------|-----|-----|---------|-------|-----------------|
|                              | 0                  | 1   | 2+  | Missing |       |                 |
| <b>Age</b>                   |                    |     |     |         |       |                 |
| 15-19                        | 95.0               | 0.6 | 1.2 | 3.2     | 100.0 | 450             |
| 20-24                        | 94.8               | 1.7 | 0.3 | 3.2     | 100.0 | 1,833           |
| 25-29                        | 96.1               | 1.3 | 0.3 | 2.3     | 100.0 | 2,249           |
| 30-34                        | 94.7               | 2.0 | 0.6 | 2.8     | 100.0 | 2,625           |
| 35-39                        | 92.7               | 3.4 | 0.5 | 3.3     | 100.0 | 1,573           |
| 40-44                        | 93.6               | 2.9 | 0.3 | 3.2     | 100.0 | 1,673           |
| 45-49                        | 92.8               | 4.0 | 0.9 | 2.4     | 100.0 | 1,495           |
| <b>Residence</b>             |                    |     |     |         |       |                 |
| Urban                        | 94.1               | 2.6 | 0.3 | 3.0     | 100.0 | 1,818           |
| Rural                        | 94.4               | 2.3 | 0.5 | 2.8     | 100.0 | 10,080          |
| <b>Province</b>              |                    |     |     |         |       |                 |
| Banteay Meanchey             | 92.9               | 5.2 | 1.4 | 0.6     | 100.0 | 503             |
| Kampong Cham                 | 89.0               | 5.3 | 1.3 | 4.4     | 100.0 | 1,490           |
| Kampong Chhnang              | 97.0               | 2.2 | 0.2 | 0.6     | 100.0 | 396             |
| Kampong Speu                 | 97.3               | 1.2 | 0.0 | 1.5     | 100.0 | 843             |
| Kampong Thom                 | 96.2               | 0.0 | 0.3 | 3.5     | 100.0 | 572             |
| Kandal                       | 85.6               | 1.5 | 0.5 | 12.4    | 100.0 | 870             |
| Kratie                       | 98.6               | 0.4 | 0.2 | 0.8     | 100.0 | 359             |
| Phnom Penh                   | 94.3               | 2.5 | 0.0 | 3.2     | 100.0 | 1,084           |
| Prey Veng                    | 96.8               | 2.3 | 0.0 | 0.8     | 100.0 | 889             |
| Pursat                       | 94.3               | 2.1 | 1.1 | 2.5     | 100.0 | 425             |
| Siem Reap                    | 94.7               | 2.4 | 0.1 | 2.8     | 100.0 | 765             |
| Svay Rieng                   | 93.3               | 1.0 | 0.6 | 5.1     | 100.0 | 483             |
| Takeo                        | 98.1               | 1.1 | 0.0 | 0.8     | 100.0 | 677             |
| Otdar Meanchey               | 98.7               | 0.4 | 0.0 | 0.9     | 100.0 | 218             |
| Battambang/Pailin            | 98.5               | 0.3 | 0.2 | 1.0     | 100.0 | 890             |
| Kampot/Kep                   | 89.4               | 7.2 | 2.0 | 1.5     | 100.0 | 574             |
| Preah Sihanouk/<br>Koh Kong  | 96.7               | 2.2 | 0.2 | 0.9     | 100.0 | 266             |
| Preah Vihear/<br>Stung Treng | 99.3               | 0.5 | 0.0 | 0.2     | 100.0 | 314             |
| Mondul Kiri/<br>Ratanak Kiri | 99.9               | 0.1 | 0.0 | 0.0     | 100.0 | 281             |
| <b>Education</b>             |                    |     |     |         |       |                 |
| No education                 | 93.6               | 3.1 | 0.8 | 2.5     | 100.0 | 1,774           |
| Primary                      | 93.9               | 2.6 | 0.6 | 2.8     | 100.0 | 6,399           |
| Secondary and<br>higher      | 95.4               | 1.5 | 0.1 | 3.1     | 100.0 | 3,726           |
| <b>Wealth quintile</b>       |                    |     |     |         |       |                 |
| Lowest                       | 94.6               | 2.5 | 0.9 | 2.0     | 100.0 | 2,294           |
| Second                       | 94.9               | 2.2 | 0.5 | 2.5     | 100.0 | 2,404           |
| Middle                       | 94.2               | 1.9 | 0.3 | 3.6     | 100.0 | 2,365           |
| Fourth                       | 94.0               | 2.7 | 0.4 | 2.9     | 100.0 | 2,393           |
| Highest                      | 94.0               | 2.4 | 0.3 | 3.3     | 100.0 | 2,443           |
| Total                        | 94.3               | 2.3 | 0.5 | 2.9     | 100.0 | 11,898          |

### 9.3 AGE AT FIRST UNION

In many societies, age at first marriage marks the point in a woman's life when childbearing becomes socially acceptable. Women who marry early will on average have a longer exposure to the risk of pregnancy. Therefore, early age at first marriage would imply early age at childbearing and a higher societal level of fertility. Information on age at first marriage was obtained by asking all ever-married respondents the month and year they started living with their first spouse or, if they could not remember the month and year, the age at which they started living with their first spouse. This information is presented in Table 9.3.

**Table 9.3 Age at first marriage**

Percentage of women and men age 15-49 who were first married by specific exact ages and median age at first marriage, according to current age, Cambodia 2014

| Current age | Percentage first married by exact age: |      |      |      |      | Percentage never married | Number of respondents | Median age at first marriage |
|-------------|--|------|------|------|------|--------------------------|-----------------------|------------------------------|
|             | 15                                     | 18   | 20   | 22   | 25   |                          |                       |                              |
| WOMEN       |  |      |      |      |      |                          |                       |                              |
| 15-19       | 1.4                                    | na   | na   | na   | na   | 83.4                     | 2,893                 | a                            |
| 20-24       | 1.9                                    | 18.5 | 40.8 | na   | na   | 35.8                     | 3,017                 | a                            |
| 25-29       | 2.7                                    | 18.6 | 38.7 | 55.9 | 76.4 | 15.0                     | 2,836                 | 21.2                         |
| 30-34       | 3.7                                    | 24.5 | 43.9 | 59.8 | 76.5 | 7.6                      | 3,046                 | 20.7                         |
| 35-39       | 5.4                                    | 29.5 | 48.8 | 67.3 | 79.8 | 5.1                      | 1,839                 | 20.1                         |
| 40-44       | 5.1                                    | 30.3 | 51.7 | 68.6 | 81.9 | 5.0                      | 2,030                 | 19.8                         |
| 45-49       | 6.6                                    | 28.2 | 45.6 | 62.8 | 79.7 | 4.2                      | 1,916                 | 20.5                         |
| 25-49       | 4.4                                    | 25.4 | 45.1 | 62.1 | 78.5 | 8.0                      | 11,668                | 20.5                         |
| MEN         |  |      |      |      |      |                          |                       |                              |
| 15-19       | 0.0                                    | na   | na   | na   | na   | 96.8                     | 926                   | a                            |
| 20-24       | 0.0                                    | 3.6  | 16.1 | na   | na   | 59.4                     | 835                   | a                            |
| 25-29       | 0.0                                    | 3.9  | 13.6 | 31.9 | 57.4 | 24.6                     | 815                   | 24.1                         |
| 30-34       | 0.2                                    | 10.8 | 23.7 | 41.5 | 67.6 | 5.5                      | 907                   | 22.9                         |
| 35-39       | 0.1                                    | 10.3 | 23.2 | 42.5 | 68.5 | 2.5                      | 556                   | 22.7                         |
| 40-44       | 0.2                                    | 7.8  | 23.4 | 46.2 | 72.5 | 1.1                      | 595                   | 22.4                         |
| 45-49       | 0.7                                    | 10.8 | 27.0 | 43.5 | 66.1 | 0.0                      | 556                   | 22.6                         |
| 25-49       | 0.2                                    | 8.5  | 21.7 | 40.5 | 65.9 | 7.9                      | 3,430                 | 23.0                         |

Note: The age at first marriage is defined as the age at which the respondent began living with her/his first spouse/partner.

na = Not applicable due to censoring

a = Omitted because less than 50 percent of the respondents married for the first time before reaching the beginning of the age group

The median age at first marriage among women in Cambodia has increased marginally over the past two decades and is now just under 21 years. Men have a slightly older median age at first marriage of 23 years. The proportion of women married by age 15 has declined in recent years, dropping from 7 percent among women age 45-49 to 1 percent among women age 15-19. Almost half (45 percent) of Cambodian women age 25-49 are married by age 20, and 79 percent are married by age 25. Less than 1 percent of all Cambodian men age 25-49 are married by the age of 15, and only 9 percent are married by age 18. This finding contrasts fairly sharply with the proportion of women married by age 18 (25 percent).

Table 9.4.1 Median age at first marriage: Women

Median age at first marriage among women by five-year age groups, age 25-49, according to background characteristics, Cambodia 2014

| Background characteristic    | Age   |       |       |       |       | Women age 25-49 |
|------------------------------|-------|-------|-------|-------|-------|-----------------|
|                              | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 |                 |
| <b>Residence</b>             |       |       |       |       |       |                 |
| Urban                        | 23.6  | 22.2  | 20.1  | 20.5  | 21.2  | 21.7            |
| Rural                        | 20.8  | 20.5  | 20.1  | 19.7  | 20.3  | 20.3            |
| <b>Province</b>              |       |       |       |       |       |                 |
| Banteay Meanchey             | 20.9  | 21.6  | 19.5  | 19.7  | 20.3  | 20.5            |
| Kampong Cham                 | 21.0  | 20.1  | 20.8  | 20.1  | 20.5  | 20.5            |
| Kampong Chhnang              | 22.3  | 20.4  | 20.9  | 20.4  | 20.4  | 20.8            |
| Kampong Speu                 | 19.9  | 19.9  | 18.4  | 19.8  | 21.0  | 19.8            |
| Kampong Thom                 | 21.1  | 20.3  | 20.6  | 19.2  | 20.2  | 20.2            |
| Kandal                       | 21.4  | 22.4  | 21.6  | 20.0  | 22.0  | 21.5            |
| Kratie                       | 19.7  | 21.1  | 19.0  | 19.4  | 20.4  | 19.9            |
| Phnom Penh                   | 24.3  | 22.9  | 20.5  | 20.6  | 21.3  | 22.1            |
| Prey Veng                    | 20.7  | 19.8  | 19.1  | 19.5  | 19.4  | 19.8            |
| Pursat                       | 21.7  | 20.3  | 20.0  | 20.3  | 21.4  | 21.1            |
| Siem Reap                    | 20.0  | 20.6  | 20.5  | 20.3  | 21.1  | 20.5            |
| Svay Rieng                   | 20.9  | 19.8  | 19.0  | 19.7  | 20.6  | 20.0            |
| Takeo                        | 22.4  | 20.6  | 21.0  | 18.8  | 20.1  | 20.8            |
| Otdar Meanchey               | 20.5  | 20.1  | 20.1  | 18.9  | 20.1  | 20.1            |
| Battambang/Pailin            | 22.1  | 21.4  | 19.9  | 20.2  | 19.7  | 20.7            |
| Kampot/Kep                   | 19.7  | 19.4  | 19.4  | 19.9  | 20.2  | 19.8            |
| Preah Sihanouk/<br>Koh Kong  | 21.4  | 19.9  | 18.7  | 19.3  | 20.2  | 20.1            |
| Preah Vihear/Stung<br>Treng  | 20.8  | 20.0  | 19.3  | 20.0  | 19.2  | 20.0            |
| Mondul Kiri/<br>Ratanak Kiri | 19.4  | 19.0  | 19.0  | 19.4  | 19.7  | 19.3            |
| <b>Education</b>             |       |       |       |       |       |                 |
| No education                 | 19.7  | 19.9  | 19.4  | 19.4  | 19.7  | 19.7            |
| Primary                      | 20.3  | 20.2  | 20.1  | 19.7  | 20.2  | 20.1            |
| Secondary and<br>higher      | 22.7  | 22.4  | 20.7  | 20.4  | 22.1  | 21.9            |
| <b>Wealth quintile</b>       |       |       |       |       |       |                 |
| Lowest                       | 20.0  | 20.2  | 20.3  | 20.2  | 20.9  | 20.3            |
| Second                       | 19.8  | 20.4  | 19.9  | 19.8  | 19.9  | 20.0            |
| Middle                       | 21.0  | 19.9  | 20.2  | 19.6  | 20.2  | 20.2            |
| Fourth                       | 22.1  | 20.6  | 19.8  | 19.4  | 20.2  | 20.4            |
| Highest                      | 23.0  | 21.8  | 20.6  | 20.4  | 20.8  | 21.6            |
| Total                        | 21.2  | 20.7  | 20.1  | 19.8  | 20.5  | 20.5            |

Note: The age at first marriage is defined as the age at which the respondent began living with her/his first spouse/partner.

Table 9.4.1 shows the median age at first marriage among women age 25-49 by current age and selected background characteristics. Table 9.4.2 shows the same information among men age 25-49. The median age at first marriage among urban women (22) is older than that among rural women (20). Men demonstrate greater urban-rural differences in median age at marriage than do women. Less than half of urban men are married by age 25, whereas half of rural men are married by age 23. Median age at first marriage among women varies by almost three years across provinces, ranging from 19 in Mondul Kiri/Ratanak Kiri to 22 in Phnom Penh and Kandal. One consistent difference in age at first marriage among Cambodian women of all ages is by education. Women who have attained a high school education or higher tend to marry two years later than women with no education. Men with a high school education or higher tend to marry more than three years later than their counterparts with no education. Among women, there is little difference in median age at marriage in the lowest four wealth quintiles; however, women in the highest wealth quintile marry at least one year later than their less wealthy counterparts. Among men, the median age at first marriage increases incrementally with increasing wealth.



Table 9.4.2 Median age at first marriage: Men

Median age at first marriage among men by five-year age groups, age 25-49, according to background characteristics, Cambodia 2014

| Background characteristic    | Age   |       |       |       |       | Men age 25-49 |
|------------------------------|-------|-------|-------|-------|-------|---------------|
|                              | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 |               |
| <b>Residence</b>             |       |       |       |       |       |               |
| Urban                        | a     | 26.0  | 24.9  | 24.2  | 24.3  | a             |
| Rural                        | 23.6  | 22.4  | 22.5  | 22.1  | 22.3  | 22.6          |
| <b>Province</b>              |       |       |       |       |       |               |
| Banteay Meanchey             | 22.7  | 23.6  | 22.2  | 23.2  | 21.5  | 22.8          |
| Kampong Cham                 | 24.0  | 22.2  | 22.7  | 22.7  | 20.7  | 22.9          |
| Kampong Chhnang              | a     | 21.3  | 21.6  | 22.7  | 23.2  | 22.9          |
| Kampong Speu                 | 23.3  | 22.4  | 21.9  | 21.1  | 22.4  | 22.4          |
| Kampong Thom                 | 23.7  | 23.0  | 22.9  | 21.4  | 23.0  | 23.0          |
| Kandal                       | 23.5  | 21.9  | 23.5  | 23.5  | 24.1  | 22.8          |
| Kratie                       | 24.1  | 23.7  | 23.8  | 22.4  | 27.3  | 23.9          |
| Phnom Penh                   | a     | 25.8  | 24.2  | 24.2  | 24.3  | a             |
| Prey Veng                    | 22.9  | 23.0  | 22.8  | 21.2  | 22.2  | 22.4          |
| Pursat                       | a     | 24.1  | 23.9  | 22.5  | 26.5  | 24.7          |
| Siem Reap                    | 23.3  | 23.5  | 22.5  | 21.3  | 22.7  | 22.7          |
| Svay Rieng                   | 22.5  | 21.5  | 20.4  | 20.4  | 17.9  | 21.1          |
| Takeo                        | 24.6  | 22.7  | 22.8  | 22.0  | 21.7  | 22.5          |
| Otdar Meanchey               | 22.8  | 23.2  | 23.3  | 23.7  | 23.3  | 23.1          |
| Battambang/Pailin            | 24.1  | 24.2  | 23.6  | 22.6  | 22.9  | 23.7          |
| Kampot/Kep                   | 23.6  | 21.6  | 20.4  | 20.4  | 20.9  | 21.1          |
| Preah Sihanouk/<br>Koh Kong  | a     | 23.7  | 24.8  | 23.2  | 22.8  | 24.3          |
| Preah Vihear/<br>Stung Treng | 21.8  | 23.4  | 23.5  | 22.6  | 20.8  | 22.5          |
| Mondul Kiri/<br>Ratanak Kiri | 21.9  | 23.4  | 23.0  | 22.2  | 23.6  | 22.6          |
| <b>Education</b>             |       |       |       |       |       |               |
| No education                 | 21.3  | 20.9  | 21.5  | 20.6  | 21.0  | 21.0          |
| Primary                      | 23.0  | 21.7  | 21.9  | 22.4  | 21.4  | 22.1          |
| Secondary and higher         | a     | 24.8  | 24.6  | 23.2  | 24.2  | 24.5          |
| <b>Wealth quintile</b>       |       |       |       |       |       |               |
| Lowest                       | 21.7  | 20.9  | 21.2  | 21.5  | 25.0  | 21.7          |
| Second                       | 23.0  | 21.8  | 22.2  | 22.4  | 22.4  | 22.3          |
| Middle                       | 24.1  | 22.5  | 22.8  | 21.4  | 20.9  | 22.5          |
| Fourth                       | 23.8  | 23.5  | 22.6  | 22.6  | 21.9  | 23.0          |
| Highest                      | a     | 25.5  | 24.9  | 24.0  | 24.7  | a             |
| Total                        | 24.1  | 22.9  | 22.7  | 22.4  | 22.6  | 23.0          |

Note: The age at first marriage is defined as the age at which the respondent began living with her/his first spouse/partner.

a = Omitted because less than 50 percent of men married for the first time before reaching the beginning of the age group

## 9.4 AGE AT FIRST SEXUAL INTERCOURSE

Age at first marriage is commonly used as a proxy for the onset of women's exposure to sexual intercourse and risk of pregnancy and sexually transmitted infections. However, because some men and women are sexually active before marriage, it is also important to measure the impact of age at first sexual intercourse on fertility. The 2014 CDHS asked women and men how old they were when they first engaged in sexual intercourse. The results are presented in Tables 9.5, 9.6.1, and 9.6.2.

A comparison of the percentage of women who had first sexual intercourse by specific ages (Table 9.5) with the percentage of women first married by those ages (Table 9.3) shows very little variation, implying that women rarely engage in sexual activity prior to marriage. The median age at first intercourse is slightly older than the median age at first marriage among women age 25-49 (20.7 years versus 20.5 years). Eight percent of women age 25-49 have never had intercourse.

Table 9.5 Age at first sexual intercourse

Percentage of women and men age 15-49 who had first sexual intercourse by specific exact ages, percentage who never had intercourse, and median age at first intercourse, according to current age, Cambodia 2014

| Current age | Percentage who had first sexual intercourse by exact age: |      |      |      |      | Percentage who never had intercourse | Number | Median age at first intercourse |
|-------------|---|------|------|------|------|--------------------------------------|--------|---------------------------------|
|             | 15  | 18   | 20   | 22   | 25   |                                      |        |                                 |
| WOMEN       |   |      |      |      |      |                                      |        |                                 |
| 15-19       | 1.4   | na   | na   | na   | na   | 82.9                                 | 2,893  | a                               |
| 20-24       | 1.6   | 17.4 | 40.2 | na   | na   | 35.2                                 | 3,017  | a                               |
| 25-29       | 2.3   | 17.8 | 37.2 | 55.1 | 74.6 | 14.7                                 | 2,836  | 21.4                            |
| 30-34       | 3.2   | 22.5 | 42.3 | 58.0 | 74.1 | 7.5                                  | 3,046  | 20.9                            |
| 35-39       | 5.0   | 28.9 | 47.8 | 65.0 | 76.4 | 5.0                                  | 1,839  | 20.3                            |
| 40-44       | 4.8   | 29.5 | 51.2 | 67.7 | 80.4 | 4.8                                  | 2,030  | 19.9                            |
| 45-49       | 6.2   | 27.4 | 44.5 | 62.3 | 77.8 | 4.1                                  | 1,916  | 20.6                            |
| 25-49       | 4.0   | 24.4 | 43.8 | 60.8 | 76.3 | 7.8                                  | 11,668 | 20.7                            |
| MEN         |   |      |      |      |      |                                      |        |                                 |
| 15-19       | 0.3   | na   | na   | na   | na   | 92.5                                 | 926    | a                               |
| 20-24       | 0.4   | 4.4  | 24.4 | na   | na   | 45.4                                 | 835    | a                               |
| 25-29       | 0.1   | 6.0  | 22.8 | 45.7 | 71.3 | 12.1                                 | 815    | 22.4                            |
| 30-34       | 0.3   | 13.0 | 30.3 | 50.7 | 73.1 | 1.9                                  | 907    | 21.9                            |
| 35-39       | 0.1   | 10.5 | 33.4 | 51.6 | 73.6 | 1.0                                  | 556    | 21.8                            |
| 40-44       | 0.2   | 8.9  | 28.3 | 51.2 | 75.1 | 0.7                                  | 595    | 21.9                            |
| 45-49       | 1.0   | 11.3 | 33.4 | 49.8 | 71.0 | 0.0                                  | 556    | 22.0                            |
| 25-49       | 0.3   | 9.9  | 29.2 | 49.6 | 72.8 | 3.7                                  | 3,430  | 22.0                            |

na = Not applicable due to censoring

a = Omitted because less than 50 percent of the respondents had intercourse for the first time before reaching the beginning of the age group

A comparison of the percentage of men who had first sexual intercourse by specific ages (Table 9.5) with the percentage of men first married by those ages (Table 9.3) shows some variation, indicating that men are more likely to engage in sexual activity prior to marriage than women. The percentage of men age 25-49 never having had intercourse is 4 percent, half the proportion of men never having married (8 percent). Half of men have had sexual experience by age 22, while only 41 percent have married by that age. Among men, the median age at first intercourse is one year younger than the median age at first marriage (22.0 years versus 23.0 years).

Table 9.6.1 shows differentials in the median age at first sexual intercourse by background characteristics for women, and Table 9.6.2 shows these differentials for men. Among women (Table 9.6.1), there is a one-year difference in age at first sexual intercourse between urban and rural residents (22 and 21, respectively). There is little variation by province with the exception of a notably older median age at first intercourse among women in Phnom Penh (22 years). There is also a two-year difference between those who have a secondary education or higher (22 years) and those who have less education (20 years) and at least a one-year difference between those in the highest wealth quintile (22) and those in the lower four quintiles (20-21 years). Among men (Table 9.6.2), there is a one-year difference in median age at first sexual intercourse between urban and rural residents (23 and 22 years, respectively). There is a difference of two years between those who have a secondary education or higher (23 years) and those who have less education (21 years). Also, there is a difference of one to two years in the median age at first sex between men in the wealthiest quintile (23 years) and men in the other quintiles (21-22 years).

Table 9.6.1 Median age at first intercourse: Women

Median age at first sexual intercourse among women by five-year age groups, age 25-49, according to background characteristics, Cambodia 2014

| Background characteristic    | Age   |       |       |       |       | Women age 25-49 |
|------------------------------|-------|-------|-------|-------|-------|-----------------|
|                              | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 |                 |
| <b>Residence</b>             |       |       |       |       |       |                 |
| Urban                        | 23.7  | 22.2  | 20.2  | 20.6  | 21.3  | 21.8            |
| Rural                        | 20.9  | 20.7  | 20.3  | 19.8  | 20.5  | 20.5            |
| <b>Province</b>              |       |       |       |       |       |                 |
| Banteay Meanchey             | 21.2  | 21.3  | 19.5  | 19.7  | 20.4  | 20.6            |
| Kampong Cham                 | 21.5  | 20.9  | 21.2  | 20.3  | 20.9  | 21.0            |
| Kampong Chhnang              | 22.9  | 21.1  | 21.5  | 20.5  | 20.8  | 21.3            |
| Kampong Speu                 | 19.9  | 20.0  | 18.5  | 19.7  | 21.1  | 19.8            |
| Kampong Thom                 | 21.1  | 20.5  | 20.7  | 19.2  | 20.0  | 20.2            |
| Kandal                       | 21.5  | 22.4  | 21.6  | 20.1  | 21.6  | 21.4            |
| Kratie                       | 19.6  | 21.1  | 18.9  | 19.1  | 20.4  | 19.8            |
| Phnom Penh                   | 24.4  | 22.8  | 20.3  | 20.6  | 21.4  | 22.0            |
| Prey Veng                    | 20.7  | 19.7  | 19.3  | 19.3  | 19.7  | 19.8            |
| Pursat                       | 21.8  | 20.6  | 20.0  | 20.4  | 21.8  | 21.2            |
| Siem Reap                    | 20.2  | 20.6  | 20.9  | 20.4  | 21.0  | 20.6            |
| Svay Rieng                   | 20.9  | 19.9  | 18.9  | 19.5  | 20.8  | 20.1            |
| Takeo                        | 22.5  | 21.0  | 21.7  | 18.9  | 20.7  | 21.3            |
| Otdar Meanchey               | 20.8  | 20.9  | 21.0  | 20.5  | 20.6  | 20.7            |
| Battambang/Pailin            | 22.1  | 21.4  | 20.1  | 20.4  | 19.5  | 20.7            |
| Kampot/Kep                   | 19.8  | 19.7  | 19.2  | 19.8  | 20.2  | 19.8            |
| Preah Sihanouk/<br>Koh Kong  | 21.8  | 20.5  | 19.1  | 19.6  | 20.3  | 20.4            |
| Preah Vihear/<br>Stung Treng | 20.9  | 19.9  | 19.2  | 19.1  | 19.1  | 19.8            |
| Mondul Kiri/<br>Ratanak Kiri | 19.6  | 19.2  | 19.3  | 19.4  | 19.2  | 19.4            |
| <b>Education</b>             |       |       |       |       |       |                 |
| No education                 | 20.0  | 20.4  | 19.9  | 19.5  | 19.7  | 19.9            |
| Primary                      | 20.4  | 20.4  | 20.1  | 19.7  | 20.3  | 20.2            |
| Secondary and<br>higher      | 22.8  | 22.5  | 20.8  | 20.5  | 22.2  | 22.0            |
| <b>Wealth quintile</b>       |       |       |       |       |       |                 |
| Lowest                       | 20.3  | 20.4  | 20.4  | 20.3  | 21.1  | 20.5            |
| Second                       | 19.9  | 20.6  | 20.0  | 19.8  | 20.2  | 20.1            |
| Middle                       | 21.3  | 20.2  | 20.3  | 19.5  | 20.2  | 20.3            |
| Fourth                       | 22.2  | 20.8  | 19.9  | 19.6  | 20.4  | 20.6            |
| Highest                      | 23.0  | 21.9  | 20.7  | 20.5  | 20.9  | 21.6            |
| Total                        | 21.4  | 20.9  | 20.3  | 19.9  | 20.6  | 20.7            |

Table 9.6.2 Median age at first intercourse: Men

Median age at first sexual intercourse among men by five-year age groups, age 25-49, according to background characteristics, Cambodia 2014

| Background characteristic    | Age   |       |       |       |       | Men age 25-49 |
|------------------------------|-------|-------|-------|-------|-------|---------------|
|                              | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 |               |
| <b>Residence</b>             |       |       |       |       |       |               |
| Urban                        | 22.4  | 23.1  | 22.4  | 23.2  | 23.1  | 22.8          |
| Rural                        | 22.4  | 21.6  | 21.7  | 21.6  | 21.8  | 21.9          |
| <b>Province</b>              |       |       |       |       |       |               |
| Banteay Meanchey             | 22.0  | 22.5  | 20.7  | 22.5  | 21.5  | 22.0          |
| Kampong Cham                 | 22.4  | 20.8  | 20.7  | 22.0  | 19.8  | 21.1          |
| Kampong Chhnang              | 24.2  | 21.1  | 18.9  | 21.2  | 20.8  | 21.5          |
| Kampong Speu                 | 21.4  | 22.0  | 20.7  | 20.7  | 22.5  | 21.7          |
| Kampong Thom                 | 23.4  | 22.9  | 22.9  | 21.1  | 22.8  | 22.8          |
| Kandal                       | 22.1  | 20.7  | 22.8  | 23.6  | 21.8  | 22.1          |
| Kratie                       | 23.2  | 23.4  | 23.0  | 22.0  | 26.0  | 23.4          |
| Phnom Penh                   | 22.3  | 22.7  | 21.5  | 23.1  | 22.9  | 22.6          |
| Prey Veng                    | 22.6  | 21.5  | 22.8  | 20.8  | 22.3  | 22.2          |
| Pursat                       | 22.5  | 20.5  | 23.0  | 20.8  | 24.5  | 22.6          |
| Siem Reap                    | 23.0  | 23.6  | 21.7  | 21.3  | 22.8  | 22.5          |
| Svay Rieng                   | 21.7  | 20.4  | 20.3  | 19.6  | 17.9  | 20.7          |
| Takeo                        | 22.9  | 22.3  | 21.3  | 21.5  | 21.6  | 22.1          |
| Otdar Meanchey               | 24.3  | 23.1  | 26.1  | 22.3  | 21.7  | 23.6          |
| Battambang/Pailin            | 21.7  | 22.2  | 23.0  | 24.2  | 23.1  | 22.6          |
| Kampot/Kep                   | 22.4  | 21.7  | 20.4  | 19.7  | 20.8  | 21.1          |
| Preah Sihanouk/<br>Koh Kong  | 21.4  | 20.8  | 21.9  | 20.8  | 20.1  | 21.0          |
| Preah Vihear/<br>Stung Treng | 22.1  | 25.2  | 23.5  | 23.6  | 22.7  | 23.4          |
| Mondul Kiri/<br>Ratanak Kiri | 21.3  | 23.8  | 20.8  | 22.1  | 23.7  | 22.2          |
| <b>Education</b>             |       |       |       |       |       |               |
| No education                 | 20.8  | 21.3  | 20.4  | 20.5  | 20.8  | 20.7          |
| Primary                      | 21.7  | 20.8  | 21.4  | 21.9  | 21.0  | 21.3          |
| Secondary and<br>higher      | 22.8  | 22.9  | 23.0  | 22.3  | 23.0  | 22.8          |
| <b>Wealth quintile</b>       |       |       |       |       |       |               |
| Lowest                       | 21.6  | 21.0  | 21.0  | 21.2  | 23.2  | 21.5          |
| Second                       | 21.5  | 21.5  | 20.8  | 22.0  | 21.3  | 21.4          |
| Middle                       | 23.3  | 21.5  | 22.6  | 20.9  | 20.7  | 21.9          |
| Fourth                       | 22.6  | 21.8  | 21.9  | 22.3  | 21.5  | 22.1          |
| Highest                      | 22.7  | 23.4  | 22.8  | 23.2  | 23.2  | 23.1          |
| Total                        | 22.4  | 21.9  | 21.8  | 21.9  | 22.0  | 22.0          |

## 9.5 RECENT SEXUAL ACTIVITY

In addition to age at first sexual intercourse, in the absence of effective contraception, exposure to pregnancy depends on the pattern of sexual activity. The most important factors are frequency of intercourse, postpartum abstinence, and abstinence for reasons other than being postpartum. Information on recent sexual activity, therefore, can be used to refine measures of exposure to pregnancy. Table 9.7.1 shows patterns of sexual activity among women in the four weeks preceding the survey by background characteristics, and Table 9.7.2 shows patterns among men.

Table 9.7.1 Recent sexual activity: Women

Percent distribution of women age 15-49 by timing of last sexual intercourse, according to background characteristics, Cambodia 2014

| Background characteristic           | Timing of last sexual intercourse |                            |                   |         | Never had sexual intercourse | Total | Number of women |
|-------------------------------------|-----------------------------------|----------------------------|-------------------|---------|------------------------------|-------|-----------------|
|                                     | Within the last 4 weeks           | Within 1 year <sup>1</sup> | One or more years | Missing |                              |       |                 |
| <b>Age</b>                          |                                   |                            |                   |         |                              |       |                 |
| 15-19                               | 12.4                              | 3.8                        | 0.9               | 0.1     | 82.9                         | 100.0 | 2,893           |
| 20-24                               | 48.4                              | 13.2                       | 3.2               | 0.0     | 35.2                         | 100.0 | 3,017           |
| 25-29                               | 66.9                              | 12.4                       | 6.0               | 0.0     | 14.7                         | 100.0 | 2,836           |
| 30-34                               | 74.8                              | 11.5                       | 6.2               | 0.1     | 7.5                          | 100.0 | 3,046           |
| 35-39                               | 73.3                              | 11.4                       | 10.2              | 0.0     | 5.0                          | 100.0 | 1,839           |
| 40-44                               | 69.3                              | 11.6                       | 14.3              | 0.1     | 4.8                          | 100.0 | 2,030           |
| 45-49                               | 61.6                              | 14.6                       | 19.6              | 0.2     | 4.1                          | 100.0 | 1,916           |
| <b>Marital status</b>               |                                   |                            |                   |         |                              |       |                 |
| Never married                       | 0.4                               | 0.3                        | 0.5               | 0.1     | 98.7                         | 100.0 | 4,428           |
| Married or living together          | 83.1                              | 15.1                       | 1.8               | 0.0     | 0.0                          | 100.0 | 11,898          |
| Divorced/separated/widowed          | 2.0                               | 9.7                        | 88.0              | 0.3     | 0.0                          | 100.0 | 1,252           |
| <b>Marital duration<sup>2</sup></b> |                                   |                            |                   |         |                              |       |                 |
| 0-4 years                           | 85.4                              | 12.8                       | 1.7               | 0.0     | 0.0                          | 100.0 | 8,267           |
| 5-9 years                           | 84.7                              | 13.6                       | 1.7               | 0.0     | 0.0                          | 100.0 | 2,244           |
| 10-14 years                         | 89.1                              | 10.3                       | 0.6               | 0.0     | 0.0                          | 100.0 | 1,897           |
| 15-19 years                         | 86.7                              | 11.7                       | 1.5               | 0.1     | 0.0                          | 100.0 | 1,422           |
| 20-24 years                         | 85.6                              | 12.2                       | 2.2               | 0.0     | 0.0                          | 100.0 | 1,399           |
| 25+ years                           | 79.5                              | 17.3                       | 3.2               | 0.0     | 0.0                          | 100.0 | 1,306           |
| Married more than once              | 79.6                              | 18.2                       | 2.2               | 0.0     | 0.0                          | 100.0 | 868             |
| <b>Residence</b>                    |                                   |                            |                   |         |                              |       |                 |
| Urban                               | 46.9                              | 9.7                        | 8.0               | 0.0     | 35.4                         | 100.0 | 3,251           |
| Rural                               | 58.7                              | 11.3                       | 7.5               | 0.1     | 22.5                         | 100.0 | 14,327          |
| <b>Province</b>                     |                                   |                            |                   |         |                              |       |                 |
| Banteay Meanchey                    | 57.9                              | 14.7                       | 6.1               | 0.0     | 21.4                         | 100.0 | 689             |
| Kampong Cham                        | 61.5                              | 11.6                       | 7.3               | 0.0     | 19.6                         | 100.0 | 2,021           |
| Kampong Chhnang                     | 51.3                              | 8.6                        | 8.6               | 0.0     | 31.6                         | 100.0 | 662             |
| Kampong Speu                        | 60.9                              | 10.1                       | 7.2               | 0.0     | 21.7                         | 100.0 | 1,196           |
| Kampong Thom                        | 60.3                              | 7.0                        | 8.0               | 0.0     | 24.8                         | 100.0 | 851             |
| Kandal                              | 56.0                              | 10.0                       | 8.5               | 0.0     | 25.4                         | 100.0 | 1,330           |
| Kratie                              | 64.8                              | 8.9                        | 4.5               | 0.1     | 21.7                         | 100.0 | 488             |
| Phnom Penh                          | 45.3                              | 9.8                        | 7.5               | 0.0     | 37.4                         | 100.0 | 1,994           |
| Prey Veng                           | 64.4                              | 9.7                        | 9.6               | 0.0     | 16.3                         | 100.0 | 1,188           |
| Pursat                              | 54.0                              | 12.0                       | 6.1               | 0.0     | 27.8                         | 100.0 | 631             |
| Siem Reap                           | 53.4                              | 14.0                       | 8.4               | 0.0     | 24.3                         | 100.0 | 1,137           |
| Svay Rieng                          | 57.8                              | 14.7                       | 7.2               | 0.5     | 19.8                         | 100.0 | 654             |
| Takeo                               | 50.4                              | 11.0                       | 10.9              | 0.5     | 27.1                         | 100.0 | 1,082           |
| Otdar Meanchey                      | 63.2                              | 10.5                       | 4.3               | 0.0     | 22.0                         | 100.0 | 294             |
| Battambang/Pailin                   | 53.5                              | 12.3                       | 6.2               | 0.0     | 28.0                         | 100.0 | 1,333           |
| Kampot/Kep                          | 60.2                              | 13.3                       | 6.8               | 0.0     | 19.7                         | 100.0 | 770             |
| Preah Sihanouk/Koh Kong             | 50.3                              | 12.9                       | 7.0               | 0.0     | 29.9                         | 100.0 | 422             |
| Preah Vihear/Stung Treng            | 58.9                              | 9.9                        | 7.9               | 0.0     | 23.3                         | 100.0 | 462             |
| Mondul Kiri/Ratanak Kiri            | 69.2                              | 7.3                        | 6.1               | 0.0     | 17.4                         | 100.0 | 372             |
| <b>Education</b>                    |                                   |                            |                   |         |                              |       |                 |
| No education                        | 65.5                              | 13.4                       | 11.6              | 0.1     | 9.4                          | 100.0 | 2,250           |
| Primary                             | 65.1                              | 11.5                       | 8.4               | 0.0     | 15.0                         | 100.0 | 8,281           |
| Secondary and higher                | 43.5                              | 9.6                        | 5.4               | 0.1     | 41.4                         | 100.0 | 7,047           |
| <b>Wealth quintile</b>              |                                   |                            |                   |         |                              |       |                 |
| Lowest                              | 61.3                              | 11.1                       | 8.9               | 0.1     | 18.7                         | 100.0 | 3,143           |
| Second                              | 59.9                              | 12.6                       | 6.7               | 0.0     | 20.7                         | 100.0 | 3,314           |
| Middle                              | 58.4                              | 11.0                       | 7.6               | 0.1     | 22.9                         | 100.0 | 3,381           |
| Fourth                              | 55.0                              | 11.0                       | 7.4               | 0.1     | 26.5                         | 100.0 | 3,612           |
| Highest                             | 49.8                              | 9.7                        | 7.4               | 0.0     | 33.0                         | 100.0 | 4,128           |
| Total                               | 56.5                              | 11.0                       | 7.6               | 0.1     | 24.9                         | 100.0 | 17,578          |

<sup>1</sup> Excludes women who had sexual intercourse within the last 4 weeks<sup>2</sup> Excludes women who are not currently married

More than half (57 percent) of all women had been sexually active during the four weeks preceding the survey; 11 percent had not had sex within the past four weeks but had done so within the past year; and 8 percent had not had sex in one year or longer. The remaining 25 percent had never had sexual intercourse. The proportion of women who were sexually active in the four weeks prior to the survey increased with age up to age 30-34 and declined thereafter. With respect to marital duration, the

proportion sexually active in the past four weeks peaked at a duration of 10-14 years and declined thereafter. A higher proportion of rural women (59 percent) than urban women (47 percent) were recently sexually active. The proportion of women who were sexually active in the four weeks before the survey declined with increasing education and wealth.

**Table 9.7.2 Recent sexual activity: Men**

Percent distribution of men age 15-49 by timing of last sexual intercourse, according to background characteristics, Cambodia 2014

| Background characteristic           | Timing of last sexual intercourse |                            |                   |         | Never had sexual intercourse | Total | Number of men |
|-------------------------------------|-----------------------------------|----------------------------|-------------------|---------|------------------------------|-------|---------------|
|                                     | Within the last 4 weeks           | Within 1 year <sup>1</sup> | One or more years | Missing |                              |       |               |
| <b>Age</b>                          |                                   |                            |                   |         |                              |       |               |
| 15-19                               | 4.0                               | 2.5                        | 1.0               | 0.0     | 92.5                         | 100.0 | 926           |
| 20-24                               | 33.1                              | 13.3                       | 7.9               | 0.2     | 45.4                         | 100.0 | 835           |
| 25-29                               | 60.6                              | 18.3                       | 9.0               | 0.0     | 12.1                         | 100.0 | 815           |
| 30-34                               | 77.7                              | 15.7                       | 4.7               | 0.0     | 1.9                          | 100.0 | 907           |
| 35-39                               | 76.6                              | 18.4                       | 3.9               | 0.0     | 1.0                          | 100.0 | 556           |
| 40-44                               | 72.7                              | 22.4                       | 4.1               | 0.1     | 0.7                          | 100.0 | 595           |
| 45-49                               | 76.2                              | 20.5                       | 3.3               | 0.0     | 0.0                          | 100.0 | 556           |
| <b>Marital status</b>               |                                   |                            |                   |         |                              |       |               |
| Never married                       | 2.4                               | 7.3                        | 8.4               | 0.1     | 81.8                         | 100.0 | 1,663         |
| Married or living together          | 80.7                              | 18.3                       | 1.0               | 0.0     | 0.0                          | 100.0 | 3,405         |
| Divorced/separated/widowed          | 5.8                               | 25.9                       | 66.7              | 0.5     | 1.1                          | 100.0 | 122           |
| <b>Marital duration<sup>2</sup></b> |                                   |                            |                   |         |                              |       |               |
| 0-4 years                           | 80.3                              | 18.7                       | 1.1               | 0.0     | 0.0                          | 100.0 | 2,363         |
| 5-9 years                           | 83.1                              | 15.9                       | 1.0               | 0.0     | 0.0                          | 100.0 | 639           |
| 10-14 years                         | 84.8                              | 15.0                       | 0.3               | 0.0     | 0.0                          | 100.0 | 592           |
| 15-19 years                         | 78.0                              | 21.7                       | 0.4               | 0.0     | 0.0                          | 100.0 | 457           |
| 20-24 years                         | 75.1                              | 22.5                       | 2.5               | 0.0     | 0.0                          | 100.0 | 407           |
| 25+ years                           | 75.4                              | 22.5                       | 2.0               | 0.1     | 0.0                          | 100.0 | 269           |
| Married more than once              | 80.8                              | 17.9                       | 1.3               | 0.0     | 0.0                          | 100.0 | 296           |
| <b>Residence</b>                    |                                   |                            |                   |         |                              |       |               |
| Urban                               | 46.0                              | 16.4                       | 7.4               | 0.0     | 30.2                         | 100.0 | 869           |
| Rural                               | 55.4                              | 14.7                       | 4.4               | 0.1     | 25.4                         | 100.0 | 4,321         |
| <b>Province</b>                     |                                   |                            |                   |         |                              |       |               |
| Banteay Meanchey                    | 61.5                              | 8.9                        | 4.0               | 0.0     | 25.6                         | 100.0 | 192           |
| Kampong Cham                        | 53.8                              | 21.9                       | 7.0               | 0.0     | 17.3                         | 100.0 | 663           |
| Kampong Chhnang                     | 54.1                              | 10.8                       | 6.9               | 0.1     | 28.1                         | 100.0 | 182           |
| Kampong Speu                        | 54.8                              | 16.4                       | 3.3               | 0.0     | 25.5                         | 100.0 | 323           |
| Kampong Thom                        | 59.4                              | 4.5                        | 3.0               | 0.0     | 33.1                         | 100.0 | 232           |
| Kandal                              | 46.7                              | 25.3                       | 4.3               | 0.5     | 23.2                         | 100.0 | 413           |
| Kratie                              | 63.9                              | 9.3                        | 2.5               | 0.0     | 24.3                         | 100.0 | 143           |
| Phnom Penh                          | 44.1                              | 18.0                       | 6.3               | 0.0     | 31.6                         | 100.0 | 550           |
| Prey Veng                           | 64.8                              | 7.6                        | 5.1               | 0.0     | 22.5                         | 100.0 | 342           |
| Pursat                              | 49.7                              | 12.7                       | 3.8               | 0.0     | 33.7                         | 100.0 | 184           |
| Siem Reap                           | 58.8                              | 10.8                       | 2.4               | 0.0     | 27.9                         | 100.0 | 337           |
| Svay Rieng                          | 58.3                              | 14.1                       | 5.6               | 0.0     | 22.0                         | 100.0 | 183           |
| Takeo                               | 44.5                              | 21.3                       | 7.5               | 0.0     | 26.7                         | 100.0 | 334           |
| Otdar Meanchey                      | 54.8                              | 12.0                       | 2.2               | 0.2     | 30.8                         | 100.0 | 99            |
| Battambang/Pailin                   | 49.1                              | 12.5                       | 6.4               | 0.0     | 32.1                         | 100.0 | 405           |
| Kampot/Kep                          | 61.8                              | 13.0                       | 2.9               | 0.0     | 22.4                         | 100.0 | 241           |
| Preah Sihanouk/Koh Kong             | 54.9                              | 13.5                       | 6.5               | 0.0     | 25.1                         | 100.0 | 120           |
| Preah Vihear/Stung Treng            | 60.2                              | 8.5                        | 1.5               | 0.5     | 29.3                         | 100.0 | 112           |
| Mondul Kiri/Ratanak Kiri            | 57.7                              | 8.7                        | 1.3               | 0.0     | 32.3                         | 100.0 | 134           |
| <b>Education</b>                    |                                   |                            |                   |         |                              |       |               |
| No education                        | 69.6                              | 16.8                       | 1.9               | 0.0     | 11.7                         | 100.0 | 324           |
| Primary                             | 60.1                              | 16.3                       | 4.4               | 0.0     | 19.2                         | 100.0 | 2,167         |
| Secondary and higher                | 47.0                              | 13.6                       | 5.7               | 0.1     | 33.6                         | 100.0 | 2,699         |
| <b>Wealth quintile</b>              |                                   |                            |                   |         |                              |       |               |
| Lowest                              | 54.9                              | 15.3                       | 3.4               | 0.1     | 26.3                         | 100.0 | 901           |
| Second                              | 57.9                              | 13.3                       | 4.1               | 0.0     | 24.8                         | 100.0 | 954           |
| Middle                              | 55.3                              | 15.0                       | 4.5               | 0.0     | 25.2                         | 100.0 | 1,040         |
| Fourth                              | 53.5                              | 15.3                       | 4.8               | 0.2     | 26.2                         | 100.0 | 1,124         |
| Highest                             | 48.8                              | 15.7                       | 7.1               | 0.0     | 28.4                         | 100.0 | 1,171         |
| Total                               | 53.9                              | 15.0                       | 4.9               | 0.1     | 26.2                         | 100.0 | 5,190         |

<sup>1</sup> Excludes men who had sexual intercourse within the last 4 weeks

<sup>2</sup> Excludes men who are not currently married

The proportion of men who reported being sexually active in the past four weeks (54 percent) was similar to that of women. Fifteen percent of men had not had sex within the past four weeks but had done so within the past year, and 5 percent had not had sex in one year or longer. Approximately the same proportion of men as women had never had sex (26 percent). The proportion of men who were sexually active in the four weeks prior to the survey increased with age up to age 30-34, with 78 percent of men in that age group reporting sex in the past four weeks. The proportion of men who were sexually active in the four weeks prior to the survey peaked at a marital duration of 10-14 years (85 percent) and declined thereafter. Rural men were more likely to have had sexual intercourse in the four weeks preceding the survey (55 percent) than urban men (46 percent). In terms of education, the proportion recently sexually active fell from 70 percent among men with no education to 47 percent among men with a secondary education or higher. Education was also related to the percentage of men who had never had sexual intercourse, with this percentage rising steadily with increasing education. The proportion of men who were sexually active in the four weeks preceding the survey was lower among those in the highest wealth quintile (49 percent) than among those in the lower quintiles (54-58 percent). Recent sexual activity among men ranged from a low of 44 percent in Phnom Penh to a high of 65 percent in Prey Veng.

## 9.6 POSTPARTUM AMENORRHEA, ABSTINENCE, AND INSUSCEPTIBILITY

Postpartum amenorrhea refers to the interval between childbirth and the resumption of ovulation, a period during which a woman is temporarily infecund. As shown in various studies, the length and intensity of breastfeeding influence the duration of postpartum amenorrhea. Women are considered insusceptible if they are not exposed to the risk of pregnancy either because they are amenorrheic or because they are abstaining from sexual intercourse after a birth. Table 9.8 shows the percentage of births in the three years prior to the survey for which mothers are amenorrheic, abstaining from sex, and insusceptible, by the number of months since the birth.

**Table 9.8 Postpartum amenorrhea, abstinence, and insusceptibility**

Percentage of births in the three years preceding the survey for which mothers are postpartum amenorrheic, abstaining, and insusceptible, by number of months since birth, and median and mean durations, Cambodia 2014

| Months since birth | Percentage of births for which the mother is: |            |                            | Number of births |
|--------------------|---|------------|----------------------------|------------------|
|                    | Amenorrheic                                   | Abstaining | Insusceptible <sup>1</sup> |                  |
| <2                 | 95.8  | 96.5       | 98.7                       | 216              |
| 2-3                | 77.9  | 61.2       | 87.7                       | 267              |
| 4-5                | 61.7  | 27.9       | 70.9                       | 254              |
| 6-7                | 50.5  | 17.5       | 58.8                       | 269              |
| 8-9                | 35.2  | 9.7        | 40.6                       | 256              |
| 10-11              | 34.4  | 5.3        | 37.4                       | 240              |
| 12-13              | 23.6  | 5.7        | 27.3                       | 225              |
| 14-15              | 13.6  | 2.3        | 15.4                       | 259              |
| 16-17              | 8.6   | 3.6        | 12.2                       | 225              |
| 18-19              | 4.9   | 3.7        | 8.4                        | 255              |
| 20-21              | 7.6   | 5.5        | 11.1                       | 276              |
| 22-23              | 6.0   | 4.3        | 9.0                        | 251              |
| 24-25              | 3.9   | 2.9        | 6.6                        | 236              |
| 26-27              | 3.3   | 2.5        | 5.8                        | 233              |
| 28-29              | 2.9   | 4.4        | 6.8                        | 240              |
| 30-31              | 2.6   | 4.5        | 7.1                        | 250              |
| 32-33              | 1.4   | 1.7        | 3.2                        | 235              |
| 34-35              | 2.1   | 0.9        | 2.3                        | 211              |
| Total              | 24.4  | 14.3       | 28.6                       | 4,397            |
| Median             | 6.4   | 3.3        | 7.8                        | na               |
| Mean               | 9.0   | 5.5        | 10.4                       | na               |

Note: Estimates are based on status at the time of the survey.

na = Not applicable

<sup>1</sup> Includes births for which mothers are either still amenorrheic or still abstaining (or both) following birth

In Cambodia, the typical duration of postpartum amenorrhea is considerably longer than the typical duration of postpartum abstinence and is the major determinant of postpartum insusceptibility to pregnancy. Cambodian women are insusceptible to pregnancy for a median period of almost eight months after birth. They are amenorrheic for a median period of more than six months, but they abstain after childbirth for only about three months. In the first two months after birth, almost all mothers are postpartum amenorrheic and abstaining from sex. However, by six to seven months after birth, while half of mothers are still amenorrheic only 18 percent are abstaining. Seventy-one percent of mothers remain insusceptible to pregnancy at four to five months postpartum.

Table 9.9 shows the median duration of postpartum amenorrhea, abstinence, and insusceptibility to pregnancy according to background characteristics. The median duration of postpartum insusceptibility is slightly longer for births to older women and births in rural areas. Women in the highest educational and wealth categories have the shortest periods of postpartum insusceptibility.

## 9.7 TERMINATION OF EXPOSURE TO PREGNANCY

The risk of childbearing declines as age increases. The term infecundity denotes a process rather than a well-defined event. Although the onset of infecundity is difficult to determine for an individual woman, there are ways of estimating it for a group of women. Table 9.10 presents data on menopause, an indicator of decreasing exposure to the risk of pregnancy (infecundity) among women age 30 and over.

**Table 9.9 Median duration of amenorrhea, postpartum abstinence, and postpartum insusceptibility**

Median number of months of postpartum amenorrhea, postpartum abstinence, and postpartum insusceptibility following births in the three years preceding the survey, by background characteristics, Cambodia 2014

| Background characteristic    | Postpartum amenorrhea | Postpartum abstinence | Postpartum insusceptibility <sup>1</sup> |
|------------------------------|-----------------------|-----------------------|--|
| <b>Mother's age</b>          |                       |                       |  |
| 15-29                        | 6.1                   | 3.3                   | 7.3                                      |
| 30-49                        | 8.7                   | 3.3                   | 9.7                                      |
| <b>Residence</b>             |                       |                       |  |
| Urban                        | 4.5                   | 3.7                   | 6.3                                      |
| Rural                        | 6.8                   | 3.3                   | 8.1                                      |
| <b>Province</b>              |                       |                       |  |
| Banteay Meanchey             | 5.3                   | 2.4                   | 5.8                                      |
| Kampong Cham                 | 8.6                   | 3.4                   | 9.3                                      |
| Kampong Chhnang              | 4.6                   | 3.2                   | 7.0                                      |
| Kampong Speu                 | 5.5                   | 2.9                   | 7.3                                      |
| Kampong Thom                 | 6.4                   | 2.3                   | 8.6                                      |
| Kandal                       | 4.1                   | 3.0                   | 10.9                                     |
| Kratie                       | 8.6                   | 3.2                   | 8.8                                      |
| Phnom Penh                   | 3.6                   | 5.2                   | 7.2                                      |
| Prey Veng                    | 6.1                   | 2.7                   | 7.0                                      |
| Pursat                       | 5.6                   | 3.3                   | 7.6                                      |
| Siem Reap                    | 5.9                   | 3.5                   | 6.5                                      |
| Svay Rieng                   | 4.7                   | 2.9                   | 5.7                                      |
| Takeo                        | 7.6                   | 4.5                   | 9.3                                      |
| Otdar Meanchey               | 5.8                   | 4.4                   | 6.2                                      |
| Battambang/Pailin            | 6.2                   | 2.7                   | 6.4                                      |
| Kampot/Kep                   | 7.1                   | 4.7                   | 7.9                                      |
| Preah Sihanouk/<br>Koh Kong  | 5.6                   | 2.4                   | 9.0                                      |
| Preah Vihear/<br>Stung Treng | 7.4                   | 4.8                   | 7.5                                      |
| Mondul Kiri/<br>Ratanak Kiri | 6.7                   | 2.9                   | 7.8                                      |
| <b>Education</b>             |                       |                       |  |
| No education                 | 6.4                   | 3.1                   | 7.6                                      |
| Primary                      | 7.6                   | 3.1                   | 8.7                                      |
| Secondary and higher         | 5.6                   | 3.8                   | 6.6                                      |
| <b>Wealth quintile</b>       |                       |                       |  |
| Lowest                       | 6.6                   | 2.8                   | 7.4                                      |
| Second                       | 7.7                   | 3.8                   | 8.5                                      |
| Middle                       | 6.4                   | 3.0                   | 8.0                                      |
| Fourth                       | 7.1                   | 3.7                   | 8.8                                      |
| Highest                      | 4.3                   | 3.6                   | 5.9                                      |
| Total                        | 6.4                   | 3.3                   | 7.8                                      |

Note: Medians are based on status at the time of the survey (current status).

<sup>1</sup> Includes births for which mothers are either still amenorrheic or still abstaining (or both) following birth



A woman is considered menopausal if she is not pregnant, is not postpartum amenorrheic, and did not have a menstrual period for at least six months before the survey. Twelve percent of Cambodian women age 30-49 are menopausal. As expected, the proportion of women who have reached menopause increases with age, particularly after age 45. It rises from 12 percent among women age 44-45 to 39 percent among women at the end of their reproductive years (age 48-49).

**Table 9.10 Menopause**

Percentage of women age 30-49 who are menopausal, by age, Cambodia 2014

| Age   | Percentage menopausal <sup>1</sup> | Number of women |
|-------|------------------------------------|-----------------|
| 30-34 | 5.5                                | 3,046           |
| 35-39 | 7.0                                | 1,839           |
| 40-41 | 9.8                                | 742             |
| 42-43 | 10.3                               | 818             |
| 44-45 | 11.9                               | 901             |
| 46-47 | 21.8                               | 730             |
| 48-49 | 39.0                               | 756             |
| Total | 11.5                               | 8,832           |

<sup>1</sup> Percentage of all women who are not pregnant and not postpartum amenorrheic whose last menstrual period occurred six or more months preceding the survey

**Key Findings**

- About half of currently married women and men age 15-49 (52 percent and 51 percent, respectively) either want no more children or have been sterilized.
- The ideal number of children is 3.3 among currently married women and 3.4 among currently married men.
- The percentage of planned births has not changed from the figure reported in the 2010 CDHS (84 percent).
- About 12 percent of currently married women have an unmet need for family planning services, with 5 percent in need of spacing and 7 percent in need of limiting.

The 2014 CDHS collected information on fertility preferences to measure the overall attitudes of women and men toward childbearing and the general course of future fertility. Data on fertility preferences are also useful for assessing unmet need for family planning and the number of unwanted or mistimed births in the population. These data, together with information on contraceptive prevalence, provide an estimation of the demand for family planning.

**10.1 DESIRE FOR MORE CHILDREN**

Currently married women and men in Cambodia were asked whether they wanted to have a child (or another child) and, if so, how soon. Table 10.1 presents fertility preferences among currently married women and men age 15-49 by number of living children. Forty-two percent of currently married women state that they want to have another child; this is a slight increase from the 2010 CDHS, in which 38 percent of women stated that they wanted to have another child. Twelve percent of women want to have a child within two years, 27 percent prefer to wait for two years or more to have another child, and 2 percent want another child but are undecided as to when they want to have that child. Slightly more than half of married women want no more children; 52 percent want no more or have been sterilized. This is a slight decrease relative to the percentage in the 2010 CDHS who reported wanting no more children (56 percent). Three percent of married women are undecided about whether they want more children. The information presented in Table 10.1 indicates that, among women who would like to have another child, many prefer to space their pregnancies and are potentially in need of family planning for that purpose, as are the larger proportions of women who express the desire to limit their births.

Fertility preferences among men are similar to those of women. Forty-eight percent of currently married men want to have another child, 51 percent do not want to have another child (or have been sterilized), and less than 1 percent are undecided. Most men who want to have a child want to wait two or more years (33 percent of all currently married men).

Table 10.1 Fertility preferences by number of living children

Percent distribution of currently married women and currently married men age 15-49 by desire for children, according to number of living children, Cambodia 2014

| Desire for children             | Number of living children <sup>1</sup> |       |       |       |       |       |       | Total  |
|---------------------------------|--|-------|-------|-------|-------|-------|-------|--------|
|                                 | 0                                      | 1     | 2     | 3     | 4     | 5     | 6+    |        |
| WOMEN                           |  |       |       |       |       |       |       |        |
| Have another soon <sup>2</sup>  | 73.2                                   | 19.2  | 8.7   | 4.0   | 2.5   | 2.2   | 0.5   | 12.4   |
| Have another later <sup>3</sup> | 12.1                                   | 62.5  | 30.5  | 11.0  | 3.4   | 1.3   | 0.6   | 27.0   |
| Have another, undecided when    | 4.3                                    | 3.3   | 2.3   | 1.5   | 1.0   | 0.8   | 0.1   | 2.1    |
| Undecided                       | 1.3                                    | 3.1   | 4.7   | 3.2   | 1.3   | 1.5   | 0.5   | 3.1    |
| Want no more                    | 4.4                                    | 9.6   | 48.4  | 71.0  | 79.3  | 81.8  | 85.7  | 48.4   |
| Sterilized <sup>4</sup>         | 0.4                                    | 0.6   | 1.9   | 4.9   | 6.4   | 7.3   | 6.5   | 3.1    |
| Declared infecund               | 4.3                                    | 1.8   | 3.2   | 4.5   | 6.1   | 5.0   | 6.2   | 3.8    |
| Missing                         | 0.0                                    | 0.0   | 0.1   | 0.0   | 0.0   | 0.1   | 0.0   | 0.0    |
| Total                           | 100.0                                  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0  |
| Number                          | 673                                    | 2,824 | 3,452 | 2,283 | 1,392 | 713   | 563   | 11,898 |
| MEN                             |  |       |       |       |       |       |       |        |
| Have another soon <sup>2</sup>  | 72.1                                   | 18.7  | 9.0   | 7.2   | 4.6   | 4.9   | 2.9   | 13.8   |
| Have another later <sup>3</sup> | 14.1                                   | 70.0  | 39.3  | 17.9  | 6.8   | 3.6   | 0.6   | 32.5   |
| Have another, undecided when    | 1.0                                    | 1.1   | 1.9   | 1.6   | 0.2   | 0.4   | 1.0   | 1.3    |
| Undecided                       | 0.9                                    | 0.9   | 0.6   | 0.5   | 0.5   | 0.0   | 0.0   | 0.6    |
| Want no more                    | 6.3                                    | 8.7   | 48.4  | 70.2  | 84.8  | 85.6  | 93.8  | 49.8   |
| Sterilized <sup>4</sup>         | 0.4                                    | 0.2   | 0.2   | 1.7   | 2.1   | 1.7   | 0.9   | 0.9    |
| Declared infecund               | 5.1                                    | 0.3   | 0.6   | 0.6   | 0.9   | 1.4   | 0.4   | 0.9    |
| Missing                         | 0.0                                    | 0.1   | 0.0   | 0.1   | 0.0   | 2.3   | 0.2   | 0.2    |
| Total                           | 100.0                                  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0  |
| Number                          | 215                                    | 754   | 1,002 | 669   | 400   | 220   | 145   | 3,405  |

<sup>1</sup> The number of living children includes current pregnancy for women.

<sup>2</sup> Wants next birth within 2 years

<sup>3</sup> Wants to delay next birth for 2 or more years

<sup>4</sup> Includes both female and male sterilization

Tables 10.2.1 and 10.2.2 display the percentage of currently married women and men age 15-49 who want no more children by number of living children and background characteristics. As mentioned above, over half of currently married women want no more children (52 percent). Desire to limit childbearing increases with increasing number of living children, from 5 percent among married women with no living children to 92 percent among women with six or more living children. There are particularly notable increases in the proportion of women wanting no more children between parities one and two (a difference of 40 percentage points) and parities two and three (a difference of 26 percentage points). The large proportion of women indicating a desire to have no more children at parities two and three is consistent with an ideal family size of two to three children.

Table 10.2.1 Desire to limit childbearing: Women

Percentage of currently married women age 15-49 who want no more children, by number of living children, according to background characteristics, Cambodia 2014

| Background characteristic    | Number of living children <sup>1</sup> |      |      |      |      |         |         | Total |
|------------------------------|--|------|------|------|------|---------|---------|-------|
|                              | 0                                      | 1    | 2    | 3    | 4    | 5       | 6+      |       |
| <b>Residence</b>             |  |      |      |      |      |         |         |       |
| Urban                        | 4.2                                    | 12.2 | 54.8 | 79.5 | 87.4 | 90.6    | 93.6    | 50.8  |
| Rural                        | 4.9                                    | 9.8  | 49.4 | 75.2 | 85.4 | 88.9    | 92.1    | 51.7  |
| <b>Province</b>              |  |      |      |      |      |         |         |       |
| Banteay Meanchey             | (5.6)                                  | 10.4 | 45.9 | 82.6 | 85.1 | (95.2)  | (92.2)  | 48.1  |
| Kampong Cham                 | (20.9)                                 | 11.4 | 40.1 | 74.7 | 88.5 | (85.1)  | (90.2)  | 51.2  |
| Kampong Chhnang              | (0.0)                                  | 4.5  | 52.2 | 75.7 | 86.0 | (100.0) | (90.9)  | 52.8  |
| Kampong Speu                 | (3.9)                                  | 6.1  | 51.2 | 80.0 | 92.0 | (92.8)  | (97.0)  | 51.8  |
| Kampong Thom                 | (3.3)                                  | 15.9 | 52.5 | 78.6 | 93.6 | 93.4    | (94.2)  | 59.1  |
| Kandal                       | (0.0)                                  | 6.4  | 51.6 | 84.5 | 89.0 | *       | *       | 51.4  |
| Kratie                       | (1.7)                                  | 7.2  | 48.7 | 65.0 | 79.0 | 89.4    | (99.2)  | 50.8  |
| Phnom Penh                   | 2.5                                    | 12.0 | 57.0 | 83.4 | 86.9 | *       | *       | 49.8  |
| Prey Veng                    | (5.1)                                  | 18.0 | 56.7 | 77.2 | 85.9 | (82.7)  | *       | 54.5  |
| Pursat                       | (0.0)                                  | 6.1  | 40.6 | 77.1 | 90.3 | (97.0)  | (87.0)  | 50.7  |
| Siem Reap                    | (2.5)                                  | 12.5 | 51.8 | 75.8 | 78.5 | (88.9)  | (100.0) | 55.0  |
| Svay Rieng                   | *                                      | 20.6 | 63.8 | 87.1 | 93.1 | *       | *       | 60.6  |
| Takeo                        | (0.0)                                  | 9.2  | 43.4 | 57.9 | 75.6 | (65.2)  | *       | 42.7  |
| Otdar Meanchey               | (0.0)                                  | 7.4  | 50.1 | 78.1 | 80.9 | (92.0)  | (89.2)  | 51.5  |
| Battambang/Pailin            | (5.3)                                  | 5.4  | 48.9 | 74.3 | 86.0 | (92.5)  | *       | 50.5  |
| Kampot/Kep                   | (3.3)                                  | 7.2  | 61.5 | 64.0 | 74.0 | (80.7)  | (82.3)  | 50.0  |
| Preah Sihanouk/<br>Koh Kong  | (3.4)                                  | 5.7  | 45.9 | 79.1 | 83.1 | (96.7)  | (89.2)  | 51.3  |
| Preah Vihear/<br>Stung Treng | (0.7)                                  | 6.9  | 41.0 | 66.5 | 86.1 | (95.9)  | (96.3)  | 49.0  |
| Mondul Kiri/<br>Ratanak Kiri | (4.2)                                  | 9.7  | 38.5 | 69.2 | 92.3 | (89.1)  | 92.7    | 48.2  |
| <b>Education</b>             |  |      |      |      |      |         |         |       |
| No education                 | 7.0                                    | 17.2 | 49.7 | 71.4 | 85.8 | 86.1    | 87.2    | 62.1  |
| Primary                      | 5.3                                    | 11.7 | 50.2 | 75.6 | 86.4 | 89.1    | 94.7    | 55.7  |
| Secondary and<br>higher      | 3.9                                    | 7.3  | 50.8 | 79.9 | 82.9 | 97.5    | (91.8)  | 39.4  |
| <b>Wealth quintile</b>       |  |      |      |      |      |         |         |       |
| Lowest                       | 9.5                                    | 11.8 | 43.6 | 75.6 | 85.0 | 90.2    | 93.5    | 55.5  |
| Second                       | 8.1                                    | 11.7 | 49.0 | 71.5 | 87.3 | 89.8    | 91.5    | 52.7  |
| Middle                       | 5.3                                    | 8.5  | 51.7 | 73.7 | 80.7 | 85.8    | 88.8    | 50.0  |
| Fourth                       | 0.8                                    | 9.4  | 50.9 | 77.1 | 90.6 | 87.9    | 96.2    | 50.3  |
| Highest                      | 2.8                                    | 9.8  | 54.6 | 80.9 | 83.5 | 93.3    | (87.8)  | 49.4  |
| Total                        | 4.7                                    | 10.1 | 50.4 | 75.9 | 85.6 | 89.1    | 92.2    | 51.6  |

Note: Women who have been sterilized are considered to want no more children. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> The number of living children includes the current pregnancy.

It is worth noting that the proportion of women who want no more children is much larger among those with no education (62 percent) than among those with a secondary education or higher (39 percent). There is considerable variation across provinces; Takeo has the smallest proportion of women wishing to curtail their fertility (43 percent), whereas Svay Rieng has the highest proportion (61 percent). The proportion of women who want no more children is similar in urban and rural areas (51 percent and 52 percent, respectively). Desire to limit childbearing generally decreases with increasing household wealth.

As observed for women, the percentage of currently married men age 15-49 who want no more children increases with number of living children. However, men in rural areas are slightly more likely than men in urban areas to want no more children (51 percent and 48 percent, respectively). By province, the percentage of men who want no more children ranges from 38 percent in Battambang/Pailin to 60 percent in Siem Reap. The percentage of men who want no more children is inversely associated with level of education and is lower among those in the highest wealth quintile than among those in the lower four quintiles.

Table 10.2.2 Desire to limit childbearing: Men

Percentage of currently married men age 15-49 who want no more children, by number of living children, according to background characteristics, Cambodia 2014

| Background characteristic    | Number of living children <sup>1</sup> |        |        |        |        |        |        | Total |
|------------------------------|--|--------|--------|--------|--------|--------|--------|-------|
|                              | 0                                      | 1      | 2      | 3      | 4      | 5      | 6+     |       |
| <b>Residence</b>             |  |        |        |        |        |        |        |       |
| Urban                        | 8.1                                    | 9.1    | 53.7   | 76.7   | 75.9   | *      | *      | 47.9  |
| Rural                        | 6.4                                    | 8.8    | 47.7   | 71.2   | 88.4   | 87.4   | 96.0   | 51.2  |
| <b>Province</b>              |  |        |        |        |        |        |        |       |
| Banteay Meanchey             | *                                      | (7.4)  | 57.3   | (68.8) | *      | *      | *      | 50.6  |
| Kampong Cham                 | *                                      | (2.3)  | 44.5   | (70.9) | (82.5) | *      | *      | 51.5  |
| Kampong Chhnang              | *                                      | (6.8)  | (35.7) | (71.2) | *      | *      | *      | 46.2  |
| Kampong Speu                 | *                                      | (17.4) | 62.6   | (67.3) | *      | *      | *      | 59.3  |
| Kampong Thom                 | *                                      | (8.0)  | 39.9   | (76.5) | *      | *      | *      | 53.4  |
| Kandal                       | *                                      | (8.2)  | (58.6) | (75.1) | *      | *      | *      | 53.2  |
| Kratie                       | *                                      | (11.0) | 57.7   | (71.3) | *      | *      | *      | 53.8  |
| Phnom Penh                   | (15.3)                                 | (8.1)  | 58.6   | (83.2) | *      | *      | *      | 47.8  |
| Prey Veng                    | *                                      | (18.7) | 54.3   | (62.4) | *      | *      | *      | 52.6  |
| Pursat                       | *                                      | (11.2) | (19.8) | (63.0) | (94.1) | *      | *      | 43.0  |
| Siem Reap                    | *                                      | (19.7) | (61.7) | (71.9) | *      | *      | *      | 59.8  |
| Svay Rieng                   | *                                      | (4.3)  | (52.8) | (71.2) | *      | *      | *      | 44.7  |
| Takeo                        | *                                      | (5.6)  | (43.5) | (75.8) | (91.6) | *      | *      | 52.9  |
| Otdar Meanchey               | *                                      | (17.2) | 56.4   | (76.7) | *      | *      | *      | 53.7  |
| Battambang/Pailin            | *                                      | (2.9)  | 29.0   | (79.2) | *      | *      | *      | 37.5  |
| Kampot/Kep                   | *                                      | (9.9)  | 55.1   | (74.2) | (94.1) | *      | *      | 58.9  |
| Preah Sihanouk/<br>Koh Kong  | *                                      | (0.8)  | 40.0   | (59.2) | (86.6) | *      | *      | 44.1  |
| Preah Vihear/<br>Stung Treng | *                                      | (7.6)  | (25.8) | (49.2) | *      | *      | *      | 39.5  |
| Mondul Kiri/<br>Ratanak Kiri | *                                      | (1.4)  | 21.8   | (65.3) | (86.5) | *      | *      | 42.8  |
| <b>Education</b>             |  |        |        |        |        |        |        |       |
| No education                 | *                                      | (20.1) | 62.8   | 56.0   | (94.0) | (94.5) | (93.4) | 63.3  |
| Primary                      | 7.1                                    | 10.3   | 47.8   | 73.3   | 84.9   | 86.6   | 95.1   | 55.0  |
| Secondary and<br>higher      | 6.8                                    | 6.8    | 47.4   | 73.0   | 88.2   | (83.8) | (94.9) | 43.9  |
| <b>Wealth quintile</b>       |  |        |        |        |        |        |        |       |
| Lowest                       | (12.2)                                 | 17.9   | 43.1   | 66.0   | 88.3   | 82.1   | 100.0  | 55.4  |
| Second                       | (6.0)                                  | 6.3    | 46.8   | 75.1   | 90.6   | (91.5) | (90.0) | 52.0  |
| Middle                       | (2.0)                                  | 8.0    | 48.3   | 71.7   | 78.8   | (93.0) | (89.1) | 49.9  |
| Fourth                       | (4.4)                                  | 7.6    | 53.2   | 68.3   | 92.4   | (82.0) | *      | 51.3  |
| Highest                      | 9.3                                    | 6.1    | 49.5   | 77.4   | 82.1   | *      | *      | 45.4  |
| Total                        | 6.8                                    | 8.9    | 48.6   | 72.0   | 86.9   | 87.3   | 94.8   | 50.7  |

Note: Men who have been sterilized or who state in response to the question about desire for children that their wife has been sterilized are considered to want no more children. Figures in parentheses are based on 25-29 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> The number of living children includes one additional child if the respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

## 10.2 NEED AND DEMAND FOR FAMILY PLANNING SERVICES

The proportion of women who want to stop childbearing or who want to space their next birth is a crude measure of the extent of the need for family planning, given that not all of these women are exposed to the risk of pregnancy and some may already be using contraception. This section discusses the extent of need and the potential demand for family planning services. Women who want to postpone their next birth for two or more years or who want to stop childbearing altogether but are not using a contraceptive method are said to have an unmet need for family planning. Pregnant women are considered to have an unmet need for spacing or limiting if their pregnancy was mistimed or unwanted. Similarly, amenorrheic women are categorized as having an unmet need if their last birth was mistimed or unwanted. Women who are currently using a family planning method are said to have a met need for family planning. The sum of women with unmet need and met need constitutes the total demand for family planning.

Table 10.3 presents data on unmet need, met need, and total demand for family planning among currently married women age 15-49 by background characteristics. These indicators help evaluate the extent to which family planning programs in Cambodia meet the demand for services. The definition of unmet need for family planning has been revised so that data on levels of unmet need are comparable over time and across surveys. The unmet need estimates for the 2005 and 2010 CDHS surveys have been

recalculated using the revised definition of unmet need but differ only slightly from the numbers published in the previous final reports.

The percentage of currently married women with a met need for family planning has increased over the past decade, from 40 percent in 2005 to 51 percent in 2010 and 56 percent in 2014.<sup>1</sup> This increase in the use of family planning has resulted in a corresponding decrease in unmet need from 25 percent in 2005 and 17 percent in 2010 to 12 percent in 2014. The total demand for family planning among currently married women is 69 percent, and 83 percent of that demand is satisfied. Total demand for family planning in 2014 remained about the same as that observed in 2010 (68 percent), while total demand satisfied increased from the 2010 figure (76 percent).

Five percent of currently married women have an unmet need for spacing, and 7 percent have an unmet need for limiting. The level of unmet need for spacing decreases with age, whereas the opposite is true for unmet need for limiting. Unmet need is slightly higher among rural women than among urban women (12 percent and 10 percent, respectively). Across provinces, the overall unmet need for family planning is highest in Preah Vihear/Stung Treng (18 percent) and lowest in Kampong Chhnang (7 percent). Whereas unmet need for spacing increases as level of education increases, unmet need for limiting is negatively associated with education. In general, unmet need decreases with increasing wealth.

The total demand for family planning rises from a low of 45 percent among women age 15-19 to a high of 80 percent among women age 35-39; and then declines to 46 percent among women age 45-49. Total demand for family planning varies inconsistently across wealth quintiles and level of education. The percentage of demand satisfied generally increases with increasing education and wealth.

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<sup>1</sup> Numbers from the 2005 and 2010 CDHS surveys correspond with the revised definition of unmet need described in Bradley et al., 2012.

Table 10.3 Need and demand for family planning among currently married women

Percentage of currently married women age 15-49 with unmet need for family planning, percentage with met need for family planning, the total demand for family planning, and the percentage of the demand for contraception that is satisfied, by background characteristics, Cambodia 2014

| Background characteristic    | Unmet need for family planning <sup>1</sup> |              |       | Met need for family planning (currently using) <sup>2</sup> |              |       | Total demand for family planning |              |       | Percentage of demand satisfied | Number of women |
|------------------------------|---|--------------|-------|---|--------------|-------|----------------------------------|--------------|-------|--------------------------------|-----------------|
|                              | For spacing                                 | For limiting | Total | For spacing   | For limiting | Total | For spacing                      | For limiting | Total |                                |                 |
| <b>Age</b>                   |   |              |       |   |              |       |                                  |              |       |                                |                 |
| 15-19                        | 12.6  | 1.9          | 14.4  | 28.2  | 0.9          | 29.1  | 41.9                             | 2.8          | 44.7  | 67.7                           | 450             |
| 20-24                        | 11.6  | 1.2          | 12.8  | 39.6  | 8.2          | 47.8  | 52.3                             | 9.4          | 61.7  | 79.2                           | 1,833           |
| 25-29                        | 7.1   | 3.4          | 10.5  | 41.0  | 20.7         | 61.6  | 49.2                             | 24.1         | 73.3  | 85.7                           | 2,249           |
| 30-34                        | 4.2   | 4.8          | 9.0   | 25.6  | 42.4         | 68.0  | 30.7                             | 47.3         | 78.0  | 88.5                           | 2,625           |
| 35-39                        | 2.8   | 9.7          | 12.5  | 7.8   | 59.4         | 67.2  | 11.0                             | 69.2         | 80.2  | 84.4                           | 1,573           |
| 40-44                        | 0.6   | 13.3         | 13.9  | 2.6   | 57.0         | 59.6  | 3.3                              | 70.4         | 73.7  | 81.1                           | 1,673           |
| 45-49                        | 0.3   | 14.2         | 14.5  | 0.6   | 30.7         | 31.3  | 0.9                              | 44.9         | 45.8  | 68.4                           | 1,495           |
| <b>Residence</b>             |   |              |       |   |              |       |                                  |              |       |                                |                 |
| Urban                        | 4.3   | 5.6          | 9.9   | 24.3  | 35.5         | 59.8  | 29.6                             | 41.2         | 70.8  | 86.0                           | 1,818           |
| Rural                        | 5.2   | 7.1          | 12.3  | 21.6  | 34.1         | 55.7  | 27.4                             | 41.2         | 68.7  | 82.1                           | 10,080          |
| <b>Province</b>              |   |              |       |   |              |       |                                  |              |       |                                |                 |
| Banteay Meanchey             | 5.6   | 3.7          | 9.3   | 26.7  | 34.7         | 61.4  | 32.7                             | 38.4         | 71.1  | 86.9                           | 503             |
| Kampong Cham                 | 7.5   | 9.7          | 17.2  | 18.8  | 25.9         | 44.7  | 26.8                             | 35.6         | 62.4  | 72.5                           | 1,490           |
| Kampong Chhnang              | 4.8   | 2.6          | 7.4   | 20.6  | 35.5         | 56.0  | 25.9                             | 38.0         | 63.9  | 88.4                           | 396             |
| Kampong Speu                 | 2.7   | 6.9          | 9.6   | 28.3  | 37.1         | 65.4  | 31.2                             | 44.0         | 75.2  | 87.2                           | 843             |
| Kampong Thom                 | 3.0   | 6.3          | 9.3   | 18.5  | 39.9         | 58.4  | 22.2                             | 46.2         | 68.4  | 86.4                           | 572             |
| Kandal                       | 5.0   | 6.5          | 11.5  | 24.8  | 36.2         | 61.0  | 31.0                             | 43.2         | 74.2  | 84.5                           | 870             |
| Kratie                       | 4.4   | 7.0          | 11.4  | 21.6  | 26.3         | 47.9  | 26.7                             | 33.5         | 60.2  | 81.0                           | 359             |
| Phnom Penh                   | 4.5   | 4.4          | 8.9   | 26.3  | 37.0         | 63.3  | 32.6                             | 41.4         | 74.0  | 88.0                           | 1,084           |
| Prey Veng                    | 4.7   | 6.0          | 10.7  | 22.2  | 33.2         | 55.4  | 27.3                             | 39.2         | 66.6  | 83.9                           | 889             |
| Pursat                       | 5.6   | 7.6          | 13.2  | 19.1  | 31.9         | 51.0  | 24.9                             | 39.5         | 64.4  | 79.5                           | 425             |
| Siem Reap                    | 5.0   | 6.9          | 11.9  | 23.6  | 35.5         | 59.0  | 28.8                             | 42.4         | 71.2  | 83.3                           | 765             |
| Svay Rieng                   | 4.2   | 9.4          | 13.7  | 17.8  | 40.1         | 57.9  | 23.4                             | 49.5         | 73.0  | 81.3                           | 483             |
| Takeo                        | 4.2   | 4.0          | 8.1   | 14.7  | 45.4         | 60.1  | 19.1                             | 49.4         | 68.5  | 88.1                           | 677             |
| Otdar Meanchey               | 8.0   | 6.0          | 13.9  | 22.9  | 33.7         | 56.6  | 31.1                             | 39.8         | 70.9  | 80.3                           | 218             |
| Battambang/Pailin            | 5.1   | 7.1          | 12.2  | 24.3  | 34.0         | 58.3  | 30.3                             | 41.0         | 71.3  | 82.9                           | 890             |
| Kampot/Kep                   | 5.2   | 10.2         | 15.4  | 17.3  | 36.5         | 53.8  | 22.7                             | 46.7         | 69.4  | 77.8                           | 574             |
| Preah Sihanouk/<br>Koh Kong  | 4.0   | 7.4          | 11.4  | 26.2  | 34.4         | 60.6  | 30.8                             | 41.9         | 72.7  | 84.4                           | 266             |
| Preah Vihear/<br>Stung Treng | 5.0   | 12.7         | 17.7  | 18.4  | 23.6         | 42.0  | 23.8                             | 36.3         | 60.1  | 70.6                           | 314             |
| Mondul Kiri/<br>Ratanak Kiri | 7.4   | 6.1          | 13.5  | 24.0  | 26.0         | 50.0  | 32.1                             | 32.1         | 64.2  | 79.0                           | 281             |
| <b>Education</b>             |   |              |       |   |              |       |                                  |              |       |                                |                 |
| No education                 | 3.6   | 9.6          | 13.2  | 15.1  | 36.9         | 52.0  | 19.1                             | 46.6         | 65.7  | 79.8                           | 1,774           |
| Primary                      | 4.9   | 7.7          | 12.5  | 20.0  | 36.4         | 56.5  | 25.7                             | 44.2         | 69.9  | 82.1                           | 6,399           |
| Secondary and higher         | 6.0   | 4.2          | 10.2  | 28.7  | 29.3         | 58.1  | 35.4                             | 33.6         | 69.0  | 85.2                           | 3,726           |
| <b>Wealth quintile</b>       |   |              |       |   |              |       |                                  |              |       |                                |                 |
| Lowest                       | 5.9   | 10.5         | 16.4  | 19.9  | 32.8         | 52.7  | 26.4                             | 43.4         | 69.8  | 76.5                           | 2,294           |
| Second                       | 4.7   | 6.0          | 10.7  | 22.2  | 33.2         | 55.4  | 27.8                             | 39.3         | 67.1  | 84.0                           | 2,404           |
| Middle                       | 5.6   | 7.3          | 13.0  | 20.9  | 32.8         | 53.6  | 27.1                             | 40.1         | 67.3  | 80.7                           | 2,365           |
| Fourth                       | 4.6   | 5.8          | 10.4  | 21.7  | 36.1         | 57.7  | 26.9                             | 41.9         | 68.7  | 84.9                           | 2,393           |
| Highest                      | 4.3   | 5.0          | 9.3   | 25.4  | 36.4         | 61.8  | 30.4                             | 41.5         | 71.9  | 87.1                           | 2,443           |
| <b>Total</b>                 | 5.0   | 6.9          | 11.9  | 22.0  | 34.3         | 56.3  | 27.8                             | 41.2         | 69.0  | 82.7                           | 11,898          |

<sup>1</sup> Unmet need for spacing: Includes women who are fecund and not using family planning and who say they want to wait two or more years for their next birth, who say they are unsure whether they want another child, or who want another child but are unsure when to have the child. In addition, unmet need for spacing includes pregnant women whose current pregnancy was mistimed, or whose last pregnancy was unwanted but who now say they want more children. Unmet need for spacing also includes amenorrheic women whose last birth was mistimed, or whose last birth was unwanted but who now say they want more children. Unmet need for limiting: Includes women who are fecund and not using family planning and who say they do not want another child. In addition, unmet need for limiting includes pregnant women whose current pregnancy was unwanted but who now say they do not want more children or who are undecided whether they want another child. Unmet need for limiting also includes amenorrheic women whose last birth was unwanted but who now say they do not want more children or who are undecided whether they want another child.

<sup>2</sup> Using for spacing is defined as women who are using some method of family planning and say they want to have another child or are undecided whether to have another.

Using for limiting is defined as women who are using and who want no more children. Note that the specific methods used are not taken into account here.

## 10.3 IDEAL FAMILY SIZE

Information on ideal family size was collected in two ways. Respondents who had no living children were asked how many children they would like to have if they could choose the number of children to have. Respondents with children were asked how many children they would like to have if they could go back to the time when they did not have any children and could choose exactly the number of children to have. Although these questions are based on hypothetical situations, they give an idea of the total number of children women who have not started childbearing will have in the future, and, among older and high parity women, these data provide a measure of the level of unwanted fertility.

Looking at the data for women, Table 10.4 shows that the majority of respondents were able to provide a numeric response to these questions. Two percent of women gave nonnumeric responses such as “any number,” “depends on fate,” or “do not know.” Among women with no living children, 52 percent would like to have two children, 26 percent would like to have three children, and 12 percent would like to have four. Only 2 percent of women with no living children want five or more children. Mean ideal family size shows a positive association with number of living children, increasing from 2.5 children among childless women to 4.6 children among women with six or more children. The observed positive association between ideal family size and number of living children may arise for several possible reasons. First, women may tend to rationalize their family size by reporting their actual number of children as their ideal number, or, second, they may have achieved their preferred number of children. A third possibility is that there has been a decrease in the ideal family size among the youngest cohorts. Nevertheless, the results indicate a considerable level of unwanted fertility. For example, among women with six or more children, 71 percent said they would ideally have liked to have fewer. Among those with five children, almost half reported an ideal number of children less than five. The average ideal family size among all women who gave numeric responses is 3.1, whereas it is 3.3 children among currently married women. The data on ideal family size reported by men follow a pattern similar to that seen among women.

**Table 10.4 Ideal number of children**

Percent distribution of women and men age 15-49 by ideal number of children, and mean ideal number of children for all respondents and for currently married respondents, according to number of living children, Cambodia 2014

| Ideal number of children                        | Number of living children <sup>1</sup> |       |       |       |       |       |       | Total  |
|---|--|-------|-------|-------|-------|-------|-------|--------|
|   | 0                                      | 1     | 2     | 3     | 4     | 5     | 6+    |        |
| WOMEN   |  |       |       |       |       |       |       |        |
| 0   | 3.0                                    | 0.0   | 0.0   | 0.5   | 0.2   | 0.6   | 0.2   | 1.0    |
| 1   | 2.7                                    | 3.8   | 0.5   | 0.8   | 0.3   | 0.3   | 0.2   | 1.8    |
| 2   | 51.6                                   | 50.4  | 37.1  | 13.1  | 11.4  | 8.2   | 5.7   | 35.9   |
| 3   | 25.8                                   | 26.0  | 30.7  | 38.7  | 10.9  | 17.0  | 14.6  | 26.6   |
| 4   | 11.6                                   | 15.3  | 23.9  | 30.0  | 56.2  | 21.4  | 29.4  | 22.4   |
| 5   | 2.0                                    | 3.5   | 6.2   | 13.1  | 13.4  | 37.5  | 20.6  | 7.9    |
| 6+  | 0.2                                    | 0.4   | 1.3   | 2.8   | 6.6   | 12.4  | 25.0  | 2.8    |
| Non-numeric responses                           | 3.2                                    | 0.6   | 0.3   | 1.0   | 1.0   | 2.6   | 4.2   | 1.6    |
| Total   | 100.0                                  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0  |
| Number  | 5,235                                  | 3,236 | 3,726 | 2,477 | 1,519 | 773   | 611   | 17,578 |
| Mean ideal number of children for: <sup>2</sup> |  |       |       |       |       |       |       |        |
| All women                                       | 2.5                                    | 2.7   | 3.0   | 3.5   | 4.0   | 4.3   | 4.6   | 3.1    |
| Number of all women                             | 5,069                                  | 3,217 | 3,714 | 2,452 | 1,504 | 753   | 585   | 17,295 |
| Currently married women                         | 2.7                                    | 2.6   | 3.0   | 3.5   | 4.0   | 4.3   | 4.6   | 3.3    |
| Number of currently married women               | 671                                    | 2,812 | 3,444 | 2,263 | 1,377 | 694   | 539   | 11,800 |
| MEN   |  |       |       |       |       |       |       |        |
| 0   | 0.6                                    | 0.0   | 0.4   | 0.6   | 0.6   | 1.5   | 0.3   | 0.5    |
| 1   | 1.9                                    | 2.0   | 0.6   | 0.5   | 0.6   | 0.0   | 0.7   | 1.3    |
| 2   | 43.6                                   | 45.2  | 33.6  | 10.6  | 7.7   | 6.4   | 3.8   | 32.0   |
| 3   | 33.3                                   | 33.7  | 31.2  | 38.9  | 9.0   | 21.6  | 16.5  | 30.8   |
| 4   | 14.5                                   | 14.7  | 24.4  | 35.3  | 55.6  | 18.4  | 19.3  | 22.7   |
| 5   | 2.9                                    | 2.7   | 7.3   | 9.2   | 16.2  | 26.6  | 15.1  | 7.0    |
| 6+  | 0.4                                    | 0.9   | 1.3   | 3.9   | 8.1   | 17.8  | 39.6  | 3.6    |
| Non-numeric responses                           | 2.8                                    | 0.8   | 1.2   | 1.0   | 2.3   | 7.6   | 4.7   | 2.1    |
| Total   | 100.0                                  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0  |
| Number  | 1,926                                  | 788   | 1,024 | 674   | 407   | 226   | 147   | 5,190  |
| Mean ideal number of children for: <sup>2</sup> |  |       |       |       |       |       |       |        |
| All men   | 2.7                                    | 2.7   | 3.1   | 3.5   | 4.1   | 4.3   | 5.2   | 3.1    |
| Number of all men                               | 1,873                                  | 782   | 1,011 | 667   | 398   | 209   | 140   | 5,079  |
| Currently married men                           | 2.7                                    | 2.7   | 3.1   | 3.5   | 4.1   | 4.3   | 5.2   | 3.4    |
| Number of currently married men                 | 215                                    | 748   | 989   | 662   | 391   | 203   | 140   | 3,348  |

<sup>1</sup> The number of living children includes one additional child if a female respondent or a male respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

<sup>2</sup> Means are calculated excluding respondents who gave non-numeric responses.



The mean ideal number of children for all women by five-year age groups and background characteristics is shown in Table 10.5. The mean ideal number of children increases gradually with increasing age, from 2.5 children among women age 15-19 to 3.9 children among women age 45-49. The mean ideal number of children among rural women is somewhat higher than among their urban counterparts (3.1 children versus 2.8 children). Women in Phnom Penh have the lowest mean ideal number of children (2.8 children), and women in Mondul Kiri/Ratanak Kiri have the highest (3.4 children). Mean ideal family size decreases with increasing education and wealth.

## 10.4 FERTILITY PLANNING

The 2014 CDHS provides an opportunity to estimate levels of unwanted fertility. Unwanted fertility can be estimated in one of two ways. Women were asked a series of questions about each of their children born in the five years preceding the survey, as well as any current pregnancy, to determine whether the pregnancy was wanted then (planned), wanted later (mistimed), or not wanted (unplanned) at the time of conception. This information may underestimate unplanned childbearing given that women may rationalize unplanned births and declare them as planned once they occur. Another way of measuring unwanted fertility utilizes the data on ideal family size to calculate what the total fertility rate would be if all unwanted births were avoided. This measure may also suffer from underestimation to the extent that women are unwilling to report an ideal family size lower than their actual family size.

Table 10.6 shows that 6 percent of births in the five years preceding the survey were not wanted, down from 9 percent of births in the 2010 CDHS. Ten percent of births were mistimed (wanted later), an increase from 7 percent in 2010. The proportion of unwanted births rises with birth order, increasing from less than 1 percent among first-order births to 2 percent among second-order births, 7 percent among third-order births, and, finally, 25 percent among fourth- and higher-order births. The percentage of unwanted births also increases with mother's age.

Table 10.5 Mean ideal number of children

Mean ideal number of children for all women age 15-49 by background characteristics, Cambodia 2014

| Background characteristic    | Mean | Number of women <sup>1</sup> |
|------------------------------|------|------------------------------|
| <b>Age</b>                   |      |                              |
| 15-19                        | 2.5  | 2,776                        |
| 20-24                        | 2.6  | 2,994                        |
| 25-29                        | 2.8  | 2,824                        |
| 30-34                        | 3.1  | 3,024                        |
| 35-39                        | 3.4  | 1,819                        |
| 40-44                        | 3.6  | 1,998                        |
| 45-49                        | 3.9  | 1,860                        |
| <b>Residence</b>             |      |                              |
| Urban                        | 2.8  | 3,157                        |
| Rural                        | 3.1  | 14,137                       |
| <b>Province</b>              |      |                              |
| Banteay Meanchey             | 3.3  | 682                          |
| Kampong Cham                 | 3.3  | 1,973                        |
| Kampong Chhnang              | 3.2  | 662                          |
| Kampong Speu                 | 3.0  | 1,152                        |
| Kampong Thom                 | 3.1  | 848                          |
| Kandal                       | 3.0  | 1,328                        |
| Kratie                       | 3.2  | 482                          |
| Phnom Penh                   | 2.8  | 1,918                        |
| Prey Veng                    | 3.0  | 1,183                        |
| Pursat                       | 3.2  | 629                          |
| Siem Reap                    | 3.2  | 1,126                        |
| Svay Rieng                   | 2.9  | 653                          |
| Takeo                        | 2.9  | 1,063                        |
| Otdar Meanchey               | 2.9  | 294                          |
| Battambang/Pailin            | 3.0  | 1,312                        |
| Kampot/Kep                   | 3.0  | 767                          |
| Preah Sihanouk/<br>Koh Kong  | 3.2  | 411                          |
| Preah Vihear/<br>Stung Treng | 3.3  | 443                          |
| Mondul Kiri/<br>Ratanak Kiri | 3.4  | 369                          |
| <b>Education</b>             |      |                              |
| No education                 | 3.5  | 2,221                        |
| Primary                      | 3.2  | 8,148                        |
| Secondary and higher         | 2.7  | 6,925                        |
| <b>Wealth quintile</b>       |      |                              |
| Lowest                       | 3.3  | 3,105                        |
| Second                       | 3.2  | 3,275                        |
| Middle                       | 3.1  | 3,328                        |
| Fourth                       | 3.0  | 3,563                        |
| Highest                      | 2.8  | 4,024                        |
| Total                        | 3.1  | 17,295                       |

<sup>1</sup> Number of women who gave a numeric response

Table 10.6 Fertility planning status

Percent distribution of births to women age 15-49 in the five years preceding the survey (including current pregnancies), by planning status of the birth, according to birth order and mother's age at birth, Cambodia 2014

| Birth order and mother's age at birth | Planning status of birth |              |                |         | Total | Number of births |
|---------------------------------------|--------------------------|--------------|----------------|---------|-------|------------------|
|                                       | Wanted then              | Wanted later | Wanted no more | Missing |       |                  |
| <b>Birth order</b>                    |                          |              |                |         |       |                  |
| 1                                     | 93.0                     | 6.4          | 0.6            | 0.1     | 100.0 | 3,256            |
| 2                                     | 84.9                     | 13.0         | 2.1            | 0.0     | 100.0 | 2,369            |
| 3                                     | 79.6                     | 12.9         | 7.4            | 0.1     | 100.0 | 1,282            |
| 4+                                    | 66.4                     | 9.0          | 24.6           | 0.0     | 100.0 | 1,279            |
| <b>Mother's age at birth</b>          |                          |              |                |         |       |                  |
| <20                                   | 89.7                     | 9.9          | 0.4            | 0.0     | 100.0 | 950              |
| 20-24                                 | 87.3                     | 10.3         | 2.3            | 0.1     | 100.0 | 2,609            |
| 25-29                                 | 85.7                     | 10.9         | 3.3            | 0.0     | 100.0 | 2,405            |
| 30-34                                 | 81.6                     | 9.0          | 9.2            | 0.1     | 100.0 | 1,488            |
| 35-39                                 | 72.6                     | 5.7          | 21.7           | 0.0     | 100.0 | 516              |
| 40-44                                 | 59.3                     | 2.9          | 37.7           | 0.0     | 100.0 | 199              |
| 45-49                                 | *                        | *            | *              | *       | 100.0 | 20               |
| Total                                 | 84.4                     | 9.7          | 5.8            | 0.0     | 100.0 | 8,187            |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 10.7 shows wanted fertility rates calculated using the second approach to measuring unwanted fertility. The wanted fertility rate is computed in the same way as the total fertility rate, except that unwanted births are excluded from the numerator. In this case, unwanted births are those that exceed the number mentioned as ideal by the respondent. This rate represents the level of fertility that would have prevailed in the three years preceding the survey if all unwanted births had been prevented.

The overall wanted fertility rate is 2.4 children, a decrease from 2.6 children in the 2010 CDHS. The wanted fertility rate is about one-third of a child lower than the actual total fertility rate of 2.7 children. Overall, the gap between wanted and observed fertility is larger when the total fertility rate is still high, as can be observed by comparing figures across provinces. The gap between wanted and actual fertility is about half of a child in Preah Vihear/Stung Treng and Kratie, where the total fertility rate is 3.6, as well as in Otdar Meanchey, where the total fertility rate is 3.0.

The gap between wanted and observed fertility rates among women living in rural areas and among those living in urban areas is small (0.3 children and 0.2 children, respectively). The difference between wanted and actual fertility is almost nonexistent among women with a secondary education or higher (0.1 children). In contrast, the difference is 0.4 children among women with no education and 0.3 children among women with a primary education. The gap between wanted and observed fertility among women in the lowest wealth quintile (0.6 children) is larger than that among other women (0.2 children). This finding suggests that the poorest women are less likely to have access to modern contraceptive methods than women in the other wealth quintiles, thus resulting in difficulty in achieving their desired fertility.

Table 10.7 Wanted fertility rates

Total wanted fertility rates and total fertility rates for the three years preceding the survey, by background characteristics, Cambodia 2014

| Background characteristic | Total wanted fertility rate | Total fertility rate |
|---------------------------|-----------------------------|----------------------|
| <b>Residence</b>          |                             |                      |
| Urban                     | 1.9                         | 2.1                  |
| Rural                     | 2.6                         | 2.9                  |
| <b>Province</b>           |                             |                      |
| Banteay Meanchey          | 2.6                         | 2.8                  |
| Kampong Cham              | 2.9                         | 3.3                  |
| Kampong Chhnang           | 2.3                         | 2.4                  |
| Kampong Speu              | 2.3                         | 2.4                  |
| Kampong Thom              | 2.7                         | 2.9                  |
| Kandal                    | 2.2                         | 2.5                  |
| Kratie                    | 3.0                         | 3.6                  |
| Phnom Penh                | 1.7                         | 2.0                  |
| Prey Veng                 | 2.8                         | 3.0                  |
| Pursat                    | 2.8                         | 3.1                  |
| Siem Reap                 | 2.3                         | 2.7                  |
| Svay Rieng                | 2.4                         | 2.5                  |
| Takeo                     | 2.2                         | 2.4                  |
| Otdar Meanchey            | 2.5                         | 3.0                  |
| Battambang/Pailin         | 2.6                         | 2.9                  |
| Kampot/Kep                | 2.4                         | 2.5                  |
| Preah Sihanouk/           |                             |                      |
| Koh Kong                  | 2.5                         | 2.7                  |
| Preah Vihear/             |                             |                      |
| Stung Treng               | 3.1                         | 3.6                  |
| Mondul Kiri/              |                             |                      |
| Ratanak Kiri              | 3.0                         | 3.3                  |
| <b>Education</b>          |                             |                      |
| No education              | 2.9                         | 3.3                  |
| Primary                   | 2.8                         | 3.1                  |
| Secondary and higher      | 2.2                         | 2.3                  |
| <b>Wealth quintile</b>    |                             |                      |
| Lowest                    | 3.2                         | 3.8                  |
| Second                    | 2.6                         | 2.8                  |
| Middle                    | 2.6                         | 2.8                  |
| Fourth                    | 2.2                         | 2.4                  |
| Highest                   | 2.0                         | 2.2                  |
| Total                     | 2.4                         | 2.7                  |

Note: Rates are calculated based on births to women age 15-49 in the period 1-36 months preceding the survey. The total fertility rates are the same as those presented in Table 5.2.



**Key Findings**

- Adult mortality is much higher among men than among women (3.5 deaths and 2.0 deaths per 1,000 population, respectively).
- Maternal deaths account for 9 percent of all deaths to women age 15-49. The maternal mortality rate for the seven-year period preceding the survey was 0.15 maternal deaths per 1,000 woman-years of exposure.
- The maternal mortality ratio was 170 maternal deaths per 100,000 live births for the seven-year period preceding the survey. This ratio is lower than the ratio reported in the 2010 CDHS but is not significantly different.

Estimates of maternal mortality require comprehensive and accurate reporting of maternal deaths. Such reporting can be obtained through vital registration, longitudinal studies of pregnant women, or repeated household surveys. The 2014 CDHS is the fourth population-based national survey (following the 2000, 2005, and 2010 CDHS) to incorporate questions on maternal mortality. The CDHS asked female respondents a series of questions designed with the explicit purpose of providing the necessary information to make direct estimates of maternal mortality.

However, in order to avoid serious misinterpretation of the results of the survey, it is crucial for users of this information to understand the problems inherent in measuring maternal mortality. Direct estimates of maternal mortality rely on data on the age of surviving sisters of survey respondents, the age at death of sisters who have died, and the number of years that have passed since the death of the sisters. CDHS interviewers listed all of the brothers and sisters born to the natural mother of female respondents, in chronological order, starting with the first born. Information was then obtained on the survivorship of each of the siblings, the ages of surviving siblings, the year of death or years since death of deceased siblings, and the age at death of deceased siblings. For each sister who died at age 12 or above, the respondent was asked additional questions to determine whether the death was maternity related, that is, whether the sister was pregnant when she died, and if so, whether the sister died during childbirth, and if not, whether the sister died within six weeks of the termination of a pregnancy or childbirth. Listing all siblings in chronological order of their birth is done with the intention of improving the completeness of reporting. Collecting data on both male and female siblings also allows direct estimation of adult male and female mortality.

**11.1 DATA QUALITY ISSUES**

Estimation of adult and maternal mortality requires reasonably accurate reporting of the number of sisters and brothers the respondent ever had, the number who have died, and the number of sisters who died of maternity-related causes. There is no definitive procedure for establishing the completeness or accuracy of retrospective data on sibling survivorship. Table 11.1 shows the number of siblings reported by female respondents and the completeness of the reported data on survival status, current age, age at death, and years since death.

Table 11.1 Completeness of information on siblings

Number of siblings reported by female survey respondents and completeness of reported data on sibling survival status, age of living siblings, and age at death (AD) and years since death (YSD) of dead siblings (unweighted), Cambodia 2014

|                         | Sisters |         | Brothers |         | All siblings |         |
|-------------------------|---------|---------|----------|---------|--------------|---------|
|                         | Number  | Percent | Number   | Percent | Number       | Percent |
| <b>All siblings</b>     | 40,413  | 100.0   | 41,661   | 100.0   | 82,074       | 100.0   |
| Living                  | 35,332  | 87.4    | 34,543   | 82.9    | 69,875       | 85.1    |
| Dead                    | 5,042   | 12.5    | 7,030    | 16.9    | 12,072       | 14.7    |
| Survival status unknown | 39      | 0.1     | 88       | 0.2     | 127          | 0.2     |
| <b>Living siblings</b>  | 35,332  | 100.0   | 34,543   | 100.0   | 69,875       | 100.0   |
| Age reported            | 35,314  | 99.9    | 34,525   | 99.9    | 69,839       | 99.9    |
| Age missing             | 18      | 0.1     | 18       | 0.1     | 36           | 0.1     |
| <b>Dead siblings</b>    | 5,042   | 100.0   | 7,030    | 100.0   | 12,072       | 100.0   |
| AD and YSD reported     | 5,028   | 99.7    | 7,005    | 99.6    | 12,033       | 99.7    |
| Missing only AD         | 6       | 0.1     | 11       | 0.2     | 17           | 0.1     |
| Missing only YSD        | 5       | 0.1     | 6        | 0.1     | 11           | 0.1     |
| Missing AD and YSD      | 3       | 0.1     | 8        | 0.1     | 11           | 0.1     |

As a group, 2014 CDHS female respondents were able to report the survival status of more than 99 percent of their siblings; whether or not a brother or sister was alive or dead was unknown for only 0.2 percent of siblings. Sex ratio is defined as the number of males per 100 females. The sex ratio of siblings who have died is calculated as the number of brothers per 100 sisters (7,030 brothers who died compared with 5,042 sisters who died). The sex ratio of siblings who have died was 139, which is very high and may be the consequence of the higher male mortality during the Khmer Rouge period. Fighting in the post-Khmer Rouge period continued until the signing of the Paris Peace Accord in 1993; this fighting would have also contributed to the high sex ratio of dead siblings. Overall, the data on siblings are nearly complete, with age reported for 99.9 percent of living siblings and age at death and years since death reported for 99.7 percent of siblings who have died, with little difference between brothers and sisters. Rather than excluding siblings with missing information from the analysis, the information on the birth order of siblings, in conjunction with other information, is used to impute the missing data.<sup>1</sup>

Table 11.2 Sibship size and sex ratio of siblings

Mean sibship size and sex ratio of siblings at birth, Cambodia 2014

| Age of respondent | Respondent's year of birth | Mean sibship size <sup>1</sup> | Sex ratio of siblings at birth <sup>2</sup> |
|-------------------|----------------------------|--------------------------------|---|
| 45-49             | 1965-1969                  | 6.3                            | 98.4  |
| 40-44             | 1970-1974                  | 6.2                            | 98.9  |
| 35-39             | 1975-1979                  | 6.5                            | 108.6                                       |
| 30-34             | 1980-1984                  | 6.0                            | 100.2                                       |
| 25-29             | 1985-1989                  | 5.8                            | 104.0                                       |
| 20-24             | 1990-1994                  | 5.3                            | 106.4                                       |
| 15-19             | 1995-1999                  | 4.8                            | 107.0                                       |
| Total             |                            | 5.8                            | 103.2                                       |

<sup>1</sup> Includes the respondent

<sup>2</sup> Excludes the respondent

<sup>1</sup> The imputation procedure is based on the assumption that the reported birth ordering of the siblings in the birth history is correct. The first step is to calculate birth dates. For each living sibling with a reported age and for each dead sibling with complete information on both age at death and years since death, the birth date is calculated. For a sibling missing these data, a birth date is imputed within the range defined by the birth dates of the bracketing siblings. In the case of living siblings, an age is calculated from the imputed birth date. In the case of dead siblings, if either age at death or years since death is reported, that information is combined with the birth date to provide missing information. If both pieces of information are missing, the age at death is imputed. This imputation is based on the distribution of the ages at death for those whose year of death is unreported but age at death is reported.

Another crude measure of data quality is the mean number of siblings, or the mean sibship size (Table 11.2). Sibship size is expected to decline as fertility declines over time. The monotonic decline in sibship size that would be expected to accompany declining fertility is supportive of more complete reporting of older siblings. The average sex ratio at birth of 103.2 is within the internationally accepted range of 103 to 105, indicating that, as a group, there is no serious underreporting or overreporting of brothers or sisters. However, sibling sex ratios among respondents age 40-49 are somewhat below the range, suggesting that there may be underreporting of brothers among the most senior respondents. Nonetheless, it should be kept in mind that any information that relies on recall will suffer from some degree of misreporting, especially if it pertains to deceased persons and involves events that occurred a long period of time before the survey.

## 11.2 ADULT MORTALITY

Because maternal mortality is a subset of adult mortality, estimates of overall adult mortality are calculated before estimates of maternal mortality. If overall adult mortality estimates display a general, stable, and plausible pattern, then credence is given to the maternal mortality estimates derived thereafter.

Direct estimates of male and female adult mortality are obtained from information collected in the sibling history. Age-specific death rates are computed by dividing the number of deaths in each age group by the total person-years of exposure in that age group during a specified reference period. In total, female respondents reported 82,074 siblings, of whom 40,413 were sisters and 41,661 were brothers (Table 11.1). Direct estimates of age-specific mortality rates for men and women are shown in Table 11.3. To minimize the impact of possible heaping on years since death ending in zero and five, direct estimates are presented for the period 0-6 years before the survey, which roughly corresponds<sup>2</sup> to June 2008 to December 2014. Aggregating the data over the age range 15-49 will reduce the effects of sampling variability. There are more male than female deaths in the period 0-6 years preceding the survey (616 versus 348). The male mortality rate is 3.50 deaths per 1,000 population, a figure higher than the female mortality rate of 1.96 deaths per 1,000 population.

Table 11.3 Adult mortality rates

Direct estimates of female and male mortality rates for the period 0-6 years preceding the survey, by five-year age groups, Cambodia 2014

| Age    | Deaths | Exposure years | Mortality rate <sup>1</sup> |
|--------|--------|----------------|-----------------------------|
| FEMALE |        |                |                             |
| 15-19  | 31     | 33,159         | 0.93                        |
| 20-24  | 32     | 40,909         | 0.78                        |
| 25-29  | 40     | 40,900         | 0.98                        |
| 30-34  | 46     | 30,606         | 1.50                        |
| 35-39  | 47     | 23,590         | 1.99                        |
| 40-44  | 76     | 19,321         | 3.93                        |
| 45-49  | 76     | 14,071         | 5.43                        |
| 15-49  | 348    | 202,557        | 1.96 <sup>a</sup>           |
| MALE   |        |                |                             |
| 15-19  | 46     | 34,258         | 1.36                        |
| 20-24  | 82     | 41,628         | 1.98                        |
| 25-29  | 71     | 40,586         | 1.75                        |
| 30-34  | 88     | 31,515         | 2.80                        |
| 35-39  | 115    | 22,709         | 5.05                        |
| 40-44  | 125    | 17,418         | 7.15                        |
| 45-49  | 88     | 11,866         | 7.45                        |
| 15-49  | 616    | 199,979        | 3.50 <sup>a</sup>           |

Note: Exposure years are calculated using a life table technique; here, they represent the number of person-years that men or women are exposed to the probability of dying.

<sup>1</sup> Expressed per 1,000 population

<sup>a</sup> Age-adjusted rate

## 11.3 MATERNAL MORTALITY

Estimates of maternal mortality for the period 0-6 years before the survey are shown in Table 11.4. This period of time was chosen to reduce possible heaping of reported years since death on five-year intervals. Age-specific mortality rates are calculated by dividing the number of maternal deaths by years of exposure. To remove the effect of truncation bias (the upper boundary for eligibility in the 2014 CDHS is 49 years), the overall rate for women age 15-49 is standardized by the age distribution of the survey respondents. Maternal deaths are defined as any death that occurred during pregnancy, childbirth, or within six weeks after the birth or termination of a pregnancy. This time-specific definition includes all deaths occurring during the specified period even if the death is due to causes that are not pregnancy related. However, this definition is unlikely to result in overreporting of maternal deaths because most deaths to women in the specified period are due to maternal causes, and maternal deaths in general are more likely to

<sup>2</sup> The time period is not exact because, as with all DHS calculations of exposure time, exposure is calculated separately for each respondent, counting back in time from the date of the interview, and dates of interview in the 2014 CDHS spanned a period of six months.

be underreported than overreported. For any given age group, maternal deaths are a relatively rare occurrence, and as such the age-specific pattern should be interpreted with caution.

There were 32 maternal deaths reported by survey respondents in the period 0-6 years preceding the survey. During the period 2008-2014, the maternal mortality rate, which is the annual number of maternal deaths per 1,000 women age 15-49, was 0.15. Maternal deaths accounted for 9 percent of all deaths to women age 15-49; in other words, about 1 in 11 Cambodian women who died in the period 0-6 years preceding the survey died as a result of pregnancy or pregnancy-related causes. Maternal deaths accounted for a similar proportion of overall female deaths as they had in the 2010 CDHS.

The maternal mortality ratio, obtained by dividing the age-standardized maternal mortality rate by the age-standardized general fertility rate, is often considered a more useful measure of maternal mortality because it measures the obstetric risk associated with each live birth. Table 11.4 shows that the maternal mortality ratio for Cambodia for the period 2008-2014 was 170 deaths per 100,000 live births (or, alternatively, 1.70 deaths per 1,000 live births). The 95 percent confidence interval of this estimate ranges from 95 to 246 deaths per 100,000 live births. The maternal mortality ratio can be converted to an estimate of the lifetime risk of dying from maternal causes: 0.005 or, in other words, a risk of dying of 1 in 200.

**Table 11.4 Maternal mortality**

Direct estimates of maternal mortality rates for the period 0-6 years preceding the survey, by five-year age groups, Cambodia 2014

| Age  | Percentage of female deaths that are maternal | Maternal deaths | Exposure years | Maternal mortality rate <sup>1</sup> |
|--|---|-----------------|----------------|--------------------------------------|
| 15-19  | 0.0   | 0               | 33,159         | 0.00                                 |
| 20-24  | 13.2  | 4               | 40,909         | 0.10                                 |
| 25-29  | 27.1  | 11              | 40,901         | 0.27                                 |
| 30-34  | 10.5  | 5               | 30,606         | 0.16                                 |
| 35-39  | 16.1  | 8               | 23,590         | 0.32                                 |
| 40-44  | 2.8   | 2               | 19,321         | 0.11                                 |
| 45-49  | 3.0   | 2               | 14,071         | 0.16                                 |
| 15-49  | 9.1   | 32              | 202,557        | 0.15 <sup>a</sup>                    |
| General fertility rate (GFR) <sup>2</sup>    | 89  |                 |                |                                      |
| Maternal mortality ratio (MMR) <sup>3</sup>  | 170 (±2 SE; CI = 95, 246)                     |                 |                |                                      |
| Lifetime risk of maternal death <sup>4</sup> | 0.005   |                 |                |                                      |

CI = Confidence interval

<sup>1</sup> Expressed per 1,000 woman-years of exposure

<sup>2</sup> Expressed per 1,000 women age 15-49

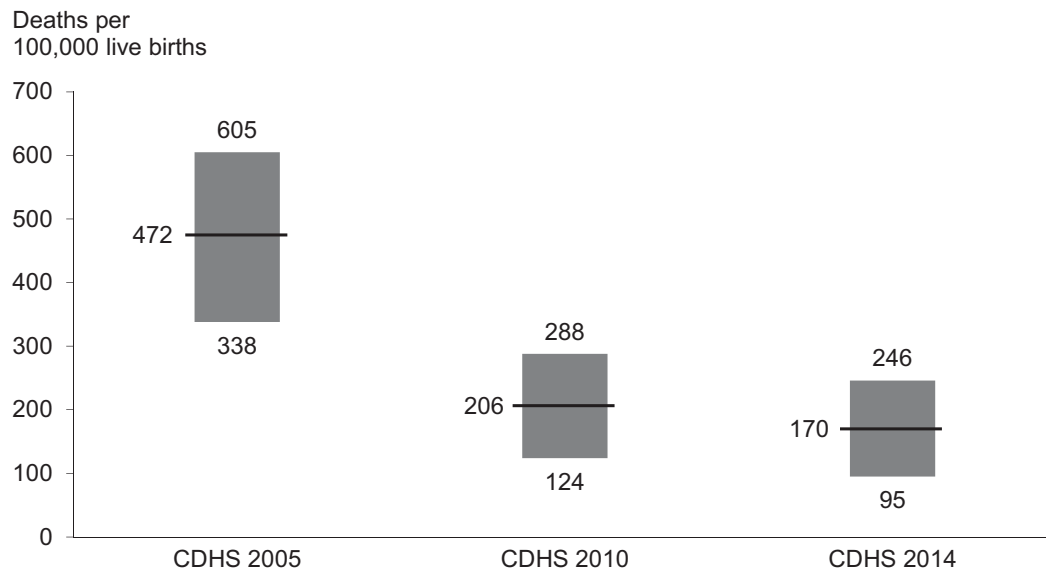
<sup>3</sup> Expressed per 100,000 live births; calculated as the age-adjusted maternal mortality rate times 100 divided by the age-adjusted general fertility rate

<sup>4</sup> Calculated as  $1 - (1 - \text{MMR})^{\text{TFR}}$ , where TFR represents the total fertility rate for the seven years preceding the survey

<sup>a</sup> Age-adjusted rate

A comparison of the maternal mortality ratios from the 2005, 2010, and 2014 CDHS shows a large decline between 2005 and 2010 but a small decline from 2010 to 2014. Although the decline between 2010 and 2014 is far too slight to be significant because of the overlapping confidence intervals of these two data points (Figure 11.1), the results provide confirmation that the maternal mortality ratio has declined over the past decade.

**Figure 11.1** Confidence intervals for maternal mortality rates,  
Cambodia 2005, 2010, and 2014







## INFANT AND CHILD MORTALITY

### Key Findings

- One in every 36 Cambodian children die before their first birthday, and one in every 29 do not survive to their fifth birthday.
- Infant mortality declined from 45 deaths to 28 deaths per 1,000 live births between the 2010 CDHS and the 2014 CDHS.
- Under-5 mortality declined from 54 deaths per 1,000 live births to 35 deaths per 1,000 live births between the two survey periods.
- Childhood mortality is higher in rural areas than in urban areas. Mortality rates are lowest among children living in the richest households.
- Neonatal and postneonatal mortality rates are 18 deaths per 1,000 live births and 10 deaths per 1,000 live births, respectively. The perinatal mortality rate is 20 deaths per 1,000 pregnancies.

This chapter describes levels of and trends in neonatal, postneonatal, infant, and child mortality in Cambodia. Infant and child mortality rates reflect a country's socioeconomic situation as well as the quality of life of the population under study. Childhood mortality is affected by socioeconomic conditions and can vary according to the demographic characteristics of children and their mothers. Therefore, differentials in infant and child mortality by socioeconomic and demographic characteristics are also presented in this chapter.

Disaggregation of mortality indicators by economic, social, and demographic categories helps to identify groups of the population at risk. Preparation, implementation, monitoring, and evaluation of population, health, and other socioeconomic programs and policies depend to a large extent on identification of a target population. The data presented here can help identify at-risk populations and provide an indication of the current mortality situation, which can be compared with previously collected data to determine whether improvements in health and quality of life have occurred over time.

The data used to compute the childhood mortality rates presented in this chapter were derived from the birth history section of the Woman's Questionnaire. Each woman age 15-49 was asked whether she had ever given birth, and, if she had, she was asked to report the number of sons and daughters who live with her, the number who live elsewhere, and the number who have died. In addition, she was asked to provide a detailed birth history of her children in chronological order starting with the first child. Women were asked whether a birth was single or multiple, the sex of the child, the date of birth (month and year, according to either the Gregorian or the Khmer calendar system), survival status, age of the child on the date of the interview if alive, and, if not alive, the age at death of each live birth. Childhood mortality rates, expressed as deaths per 1,000 live births, are defined as follows:

|                                |  |
|--------------------------------|--|
| <b>Neonatal mortality:</b>     | the probability of dying within the first month of life  |
| <b>Postneonatal mortality:</b> | the probability of dying between the first month of life and first birthday (computed as the difference between infant and neonatal mortality) |
| <b>Infant mortality:</b>       | the probability of dying between birth and the first birthday  |
| <b>Child mortality:</b>        | the probability of dying between the first and the fifth birthday  |
| <b>Under-5 mortality:</b>      | the probability of dying between birth and the fifth birthday  |

## 12.1 ASSESSMENT OF DATA QUALITY

The reliability of mortality estimates depends on sampling errors and nonsampling errors. Sampling errors are discussed in detail in Appendix B. Nonsampling errors depend on the extent to which the date of birth and age at death are accurately reported and recorded and the completeness with which child deaths are reported. Omission of births and deaths affects mortality estimates, displacement of dates of births and of deaths impacts mortality trends, and misreporting of age at death may alter the age pattern of mortality. Typically, the most serious source of nonsampling errors in a survey that collects retrospective information on births and deaths is underreporting of both births and deaths of children who are not alive at the time of the survey. It may be that mothers are generally reluctant to talk about their dead children because of the sorrow associated with any death, or they may live in a culture that discourages discussing the dead. Underreporting of births and deaths is generally more severe the further back in time an event occurred.

An unusual pattern in the distribution of births by calendar years is an indication of omission of children or age displacement. However, Table C.4 in Appendix C shows that the percentage of all births for which a month and year of birth were reported remains stable over time, ranging from 100 percent of births in 2011 to 99.6 percent of births prior to 1992. There is little difference in reporting by whether or not the child is alive (99.9 percent of births) or dead (98.8 percent of births).

Underreporting of deaths is usually assumed to be higher for deaths that occur very early in infancy. An examination of the ratios in Tables C.5 and C.6 shows no significant number of early infant deaths being omitted in the 2014 CDHS. Another problem with survey data is misreporting deaths that occur in the late postneonatal period. Such misreporting results in an underestimate of the infant mortality rate and an overestimate of the child mortality rate. Table C.6 displays some digit preferences in reported deaths at age 12 months. This age “heaping” occurred despite the care taken in the CDHS to minimize such errors by requiring that age at death be recorded in days if the death took place within one month of birth, in months if the child died within 24 months of birth, and in years if the child died between age 2 and 5.

Omissions can also be detected by examining the proportion of neonatal deaths that occur during the first week of life and the proportion of infant deaths that take place during the first month of life. If there is substantial underreporting of deaths, the result would be an abnormally low ratio of deaths before seven days to all neonatal deaths. Because underreporting of deaths is likely to be more common for births that occurred a long period of time before the survey, it is important to explore whether these ratios change markedly over time.

Inspection of the ratio of deaths in the first six days of life to all neonatal deaths (shown in Appendix C, Table C.5) shows that the proportion of neonatal deaths that took place in the first week of life ranges from 82 percent for deaths during the period 0-4 years before the survey to 63 percent for deaths during the period 15-19 years before the survey. There is some variation over time in the proportion of neonatal deaths to all infant deaths (shown in Appendix C, Table C.6), which ranges from 67 percent in the period 0-4 years before the survey to 34 percent during the period 15-19 years before the survey. These ratios are within acceptable limits for the levels of mortality observed during these time periods.

## 12.2 LEVELS AND TRENDS IN CHILDHOOD MORTALITY

Table 12.1 presents neonatal, postneonatal, infant, child, and under-5 mortality rates for five-year periods preceding the survey. Neonatal mortality in the most recent period is 18 deaths per 1,000 live births. This rate is higher than the postneonatal mortality rate (10 deaths per 1,000 live births) during the same period; that is, the risk of dying is considerably higher in the first month of life than in the next 11 months. Thus, 28 of every 1,000 babies born in Cambodia do not survive to their first birthday. Under-5 mortality in Cambodia is 35 deaths per 1,000 live births.

**Table 12.1 Early childhood mortality rates**

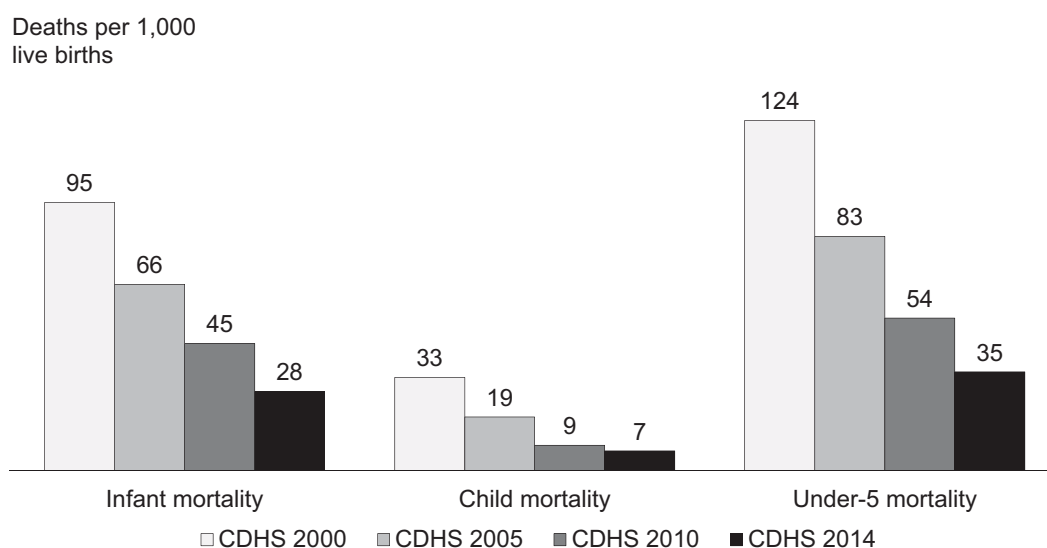
Neonatal, postneonatal, infant, child, and under-5 mortality rates for five-year periods preceding the survey, Cambodia 2014

| Years preceding the survey | Neonatal mortality (NN) | Post-neonatal mortality (PNN) <sup>1</sup> | Infant mortality ( <sub>1q0</sub> ) | Child mortality ( <sub>4q1</sub> ) | Under-5 mortality ( <sub>5q0</sub> ) |
|----------------------------|-------------------------|--|-------------------------------------|------------------------------------|--------------------------------------|
| 0-4                        | 18                      | 10   | 28                                  | 7                                  | 35                                   |
| 5-9                        | 24                      | 24   | 49                                  | 12                                 | 60                                   |
| 10-14                      | 24                      | 40   | 63                                  | 17                                 | 79                                   |

<sup>1</sup> Computed as the difference between the infant and neonatal mortality rates

Trends in the childhood mortality rate can be established by comparing the results of the 2014 CDHS with the findings from the 2000, 2005, and 2010 CDHS in which data were collected using the same techniques and estimates were calculated using the same methodology. Figure 12.1 shows that infant mortality has declined gradually and substantially in the past 14 years, from 95 deaths per 1,000 live births in 2000 to 28 per 1,000 in 2014. Under-5 mortality also declined during this period, from 124 deaths per 1,000 live births in 2000 to 35 per 1,000 in 2014.

**Figure 12.1 Trends in childhood mortality, 2000-2014**



### 12.3 SOCIOECONOMIC DIFFERENTIALS IN CHILDHOOD MORTALITY

The results presented in Table 12.2 and Figure 12.2 show that childhood mortality in Cambodia varies significantly by the socioeconomic characteristics of households and mothers.<sup>1</sup> Mortality in urban areas is consistently lower than in rural areas. For example, infant mortality and under-5 mortality in rural areas (42 deaths and 52 deaths per 1,000 live births, respectively) are about three times higher than in urban areas (13 deaths and 18 deaths per 1,000 live births, respectively). The urban-rural gap is wider for postneonatal mortality, which is five times higher in rural areas than in urban areas. Differentials in mortality by province are also substantial. Phnom Penh has the lowest rates of both infant mortality (17 deaths per 1,000 live births) and under-5 mortality (23 deaths per 1,000 live births). Preah Vihear/Stung Treng and Mondul Kiri/Ratanak Kiri have the highest rates of infant mortality (70 or more deaths per 1,000 live births), and Kratie, Preah Vihear/Stung Treng, and Mondul Kiri/Ratanak Kiri have the highest rates of under-5 mortality (79 or more deaths per 1,000 live births).

<sup>1</sup> To have a sufficient number of cases to ensure statistically reliable mortality estimates, rates presented in Tables 12.2 and 12.3 are calculated for a 10-year period.

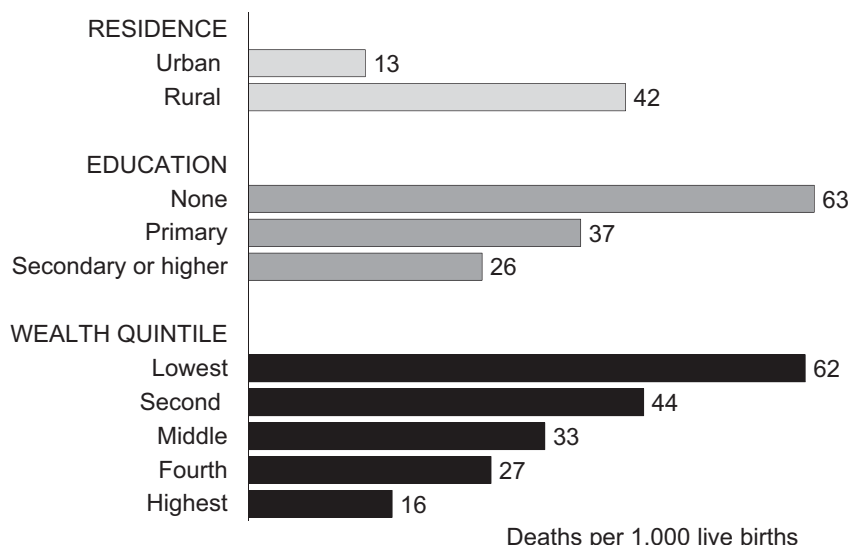
Table 12.2 Early childhood mortality rates by socioeconomic characteristics

Neonatal, postneonatal, infant, child, and under-5 mortality rates for the 10-year period preceding the survey, by background characteristics, Cambodia 2014

| Background characteristic    | Neonatal mortality (NN) | Post-neonatal mortality (PNN) <sup>1</sup> | Infant mortality ( <sub>1q0</sub> ) | Child mortality ( <sub>4q1</sub> ) | Under-5 mortality ( <sub>5q0</sub> ) |
|------------------------------|-------------------------|--|-------------------------------------|------------------------------------|--------------------------------------|
| <b>Residence</b>             |                         |  |                                     |                                    |                                      |
| Urban                        | 10                      | 4  | 13                                  | 5                                  | 18                                   |
| Rural                        | 23                      | 20   | 42                                  | 10                                 | 52                                   |
| <b>Province</b>              |                         |  |                                     |                                    |                                      |
| Banteay Meanchey             | 20                      | 9  | 29                                  | 3                                  | 32                                   |
| Kampong Cham                 | 25                      | 14   | 39                                  | 9                                  | 48                                   |
| Kampong Chhnang              | 27                      | 23   | 50                                  | 6                                  | 55                                   |
| Kampong Speu                 | 19                      | 7  | 26                                  | 5                                  | 31                                   |
| Kampong Thom                 | 29                      | 11   | 41                                  | 20                                 | 60                                   |
| Kandal                       | 17                      | 14   | 30                                  | 10                                 | 40                                   |
| Kratie                       | 30                      | 31   | 61                                  | 20                                 | 80                                   |
| Phnom Penh                   | 13                      | 4  | 17                                  | 6                                  | 23                                   |
| Prey Veng                    | 33                      | 31   | 64                                  | 11                                 | 75                                   |
| Pursat                       | 14                      | 17   | 31                                  | 5                                  | 36                                   |
| Siem Reap                    | 17                      | 23   | 40                                  | 16                                 | 56                                   |
| Svay Rieng                   | 20                      | 26   | 46                                  | 18                                 | 63                                   |
| Takeo                        | 16                      | 12   | 28                                  | 4                                  | 31                                   |
| Otdar Meanchey               | 17                      | 15   | 32                                  | 9                                  | 41                                   |
| Battambang/Pailin            | 12                      | 16   | 28                                  | 9                                  | 37                                   |
| Kampot/Kep                   | 20                      | 17   | 38                                  | 6                                  | 44                                   |
| Preah Sihanouk/<br>Koh Kong  | 20                      | 15   | 35                                  | 7                                  | 42                                   |
| Preah Vihear/<br>Stung Treng | 25                      | 45   | 70                                  | 9                                  | 79                                   |
| Mondul Kiri/<br>Ratanak Kiri | 36                      | 36   | 72                                  | 9                                  | 80                                   |
| <b>Mother's education</b>    |                         |  |                                     |                                    |                                      |
| No education                 | 22                      | 41   | 63                                  | 18                                 | 79                                   |
| Primary                      | 22                      | 15   | 37                                  | 9                                  | 46                                   |
| Secondary                    | 19                      | 6  | 26                                  | 5                                  | 30                                   |
| <b>Wealth quintile</b>       |                         |  |                                     |                                    |                                      |
| Lowest                       | 27                      | 35   | 62                                  | 15                                 | 76                                   |
| Second                       | 23                      | 22   | 44                                  | 13                                 | 56                                   |
| Middle                       | 24                      | 9  | 33                                  | 8                                  | 41                                   |
| Fourth                       | 18                      | 9  | 27                                  | 6                                  | 33                                   |
| Highest                      | 12                      | 4  | 16                                  | 3                                  | 19                                   |

<sup>1</sup> Computed as the difference between the infant and neonatal mortality rates

Figure 12.2 Infant mortality rates by socioeconomic characteristics



As expected, mortality declines markedly as mother's education increases. Children born to mothers with no schooling have the highest mortality rates. According to the survey results, the infant mortality rate among children of mothers with a secondary education or higher is 26 deaths per 1,000 live births, much lower than the rate of 63 deaths per 1,000 live births among children of mothers with no schooling.

In addition, mortality declines markedly as the wealth of the household increases. Children born in poorer households suffer higher mortality than those born in wealthier households. For example, infant and under-5 mortality rates are approximately four times higher among children living in the poorest households than among those living in the wealthiest households.

## 12.4 DEMOGRAPHIC DIFFERENTIALS IN MORTALITY

Infant and child mortality varies substantially by the demographic characteristics of mothers and children. Table 12.3 shows childhood mortality rates by selected demographic variables. Childhood mortality rates are higher among male children than among female children during all periods of life before age 5. This excess mortality among boys is not observed only in Cambodia but is a universal phenomenon.

**Table 12.3 Early childhood mortality rates by demographic characteristics**

Neonatal, postneonatal, infant, child, and under-5 mortality rates for the 10-year period preceding the survey, by demographic characteristics, Cambodia 2014

| Demographic characteristic                 | Neonatal mortality (NN) | Post-neonatal mortality (PNN) <sup>1</sup> | Infant mortality ( <sub>1</sub> q <sub>0</sub> ) | Child mortality ( <sub>4</sub> q <sub>1</sub> ) | Under-5 mortality ( <sub>5</sub> q <sub>0</sub> ) |
|--|-------------------------|--|--|---|---|
| <b>Child's sex</b>                         |                         |  |  |   |   |
| Male                                       | 22                      | 22   | 44   | 10  | 54  |
| Female                                     | 20                      | 13   | 33   | 9   | 41  |
| <b>Mother's age at birth</b>               |                         |  |  |   |   |
| <20  | 20                      | 10   | 31   | 13  | 44  |
| 20-29                                      | 17                      | 14   | 31   | 7   | 38  |
| 30-39                                      | 27                      | 23   | 50   | 14  | 64  |
| 40-49                                      | (60)                    | (68)                                       | (128)  | *   | *   |
| <b>Birth order</b>                         |                         |  |  |   |   |
| 1  | 20                      | 11   | 31   | 9   | 39  |
| 2-3  | 17                      | 13   | 30   | 7   | 36  |
| 4-6  | 22                      | 28   | 50   | 17  | 66  |
| 7+   | 76                      | 71   | 147  | 15  | 160   |
| <b>Previous birth interval<sup>2</sup></b> |                         |  |  |   |   |
| <2 years                                   | 42                      | 44   | 87   | 15  | 100   |
| 2 years                                    | 19                      | 20   | 39   | 13  | 52  |
| 3 years                                    | 9                       | 16   | 25   | 9   | 34  |
| 4+ years                                   | 21                      | 14   | 35   | 6   | 41  |
| <b>Birth size<sup>3</sup></b>              |                         |  |  |   |   |
| Small/very small                           | 63                      | 20   | 82   | *   | *   |
| Average or larger                          | 10                      | 8  | 17   | na  | na  |

Note: Figures in parentheses are based on 250-499 unweighted person-years of exposure to the risk of death. An asterisk indicates that a figure is based on fewer than 250 unweighted person-years of exposure to the risk of death and has been suppressed.

na = Not available

<sup>1</sup> Computed as the difference between the infant and neonatal mortality rates

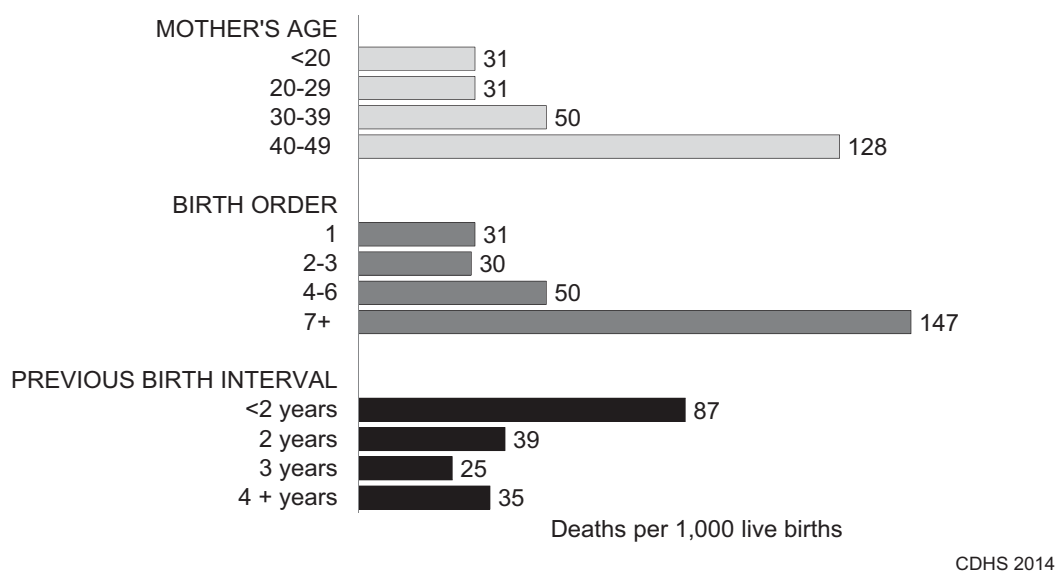
<sup>2</sup> Excludes first-order births

<sup>3</sup> Rates for the five-year period before the survey

In general infant mortality increases as the age of the mother at birth increases. The distribution of under-5 mortality by maternal age at birth is a U-shaped curve, being higher among children born to mothers under age 20 and over age 30 than among children born to mothers in the middle age groups. Relationships between infant mortality and specific demographic characteristics are illustrated in Figure 12.3.

First-order births appear to be at the same risk of mortality as second- or third-order births, whereas the risk increases for births of order four to six. However, significant increases in risk are most apparent for births of order seven and higher. Infant mortality rates for children of a seventh or higher birth order are nearly three times the rates for children of a fourth to sixth birth order.

**Figure 12.3 Infant mortality rates by demographic characteristics**



Short birth interval is one of the risk factors for childhood mortality. For example, children born less than two years after a preceding birth are more than twice as likely to die within the first month of life as children born after a two-year interval (42 deaths per 1,000 live births versus 19 per 1,000). There is a similar relationship between short birth interval and postneonatal mortality, infant mortality, and under-5 mortality; mortality rates for children born less than two years after a preceding birth are approximately twice as high as those for children born two or more years after a preceding birth.

Studies have demonstrated that children's weight at birth is an important determinant of their survival chances. Actual birth weights were unavailable for most children; instead, mothers were asked whether their child was very large, larger than average, average, smaller than average, or very small at birth, because this has been found to be a good proxy for a child's weight at birth. Those children reported by their mother to be small or very small were six times more likely to die before age 1 month than those reported to be average or larger.

## 12.5 PERINATAL MORTALITY

Perinatal deaths include pregnancy losses occurring after seven completed months of gestation (stillbirths) and deaths within the first seven days of life (early neonatal deaths). The perinatal death rate is calculated by dividing the total number of perinatal deaths by the total number of pregnancies reaching seven months of gestation. The distinction between a stillbirth and an early neonatal death may be a fine one, depending often on the observed presence or absence of some faint signs of life after delivery.

The causes of stillbirths and early neonatal deaths overlap, and examining just one or the other can understate the true level of mortality around delivery. For these reasons, both events are usually combined and examined together. Information on stillbirths for the five years preceding the survey was derived from the calendar at the end of the Woman's Questionnaire.

Table 12.4 presents the number of stillbirths, the number of early neonatal deaths, and perinatal mortality rates for the five-year period preceding the 2014 CDHS, by selected demographic and socioeconomic characteristics. The perinatal mortality rate in Cambodia is 20 deaths per 1,000 pregnancies. The perinatal mortality rate is highest among children whose mothers were age 40-49 (73 deaths per 1,000 pregnancies) and for pregnancies that occurred fewer than 15 months after the previous pregnancy (28 deaths per 1,000 pregnancies). Perinatal mortality is higher in rural areas than in urban areas.

Table 12.4 Perinatal mortality

Number of stillbirths and early neonatal deaths, and the perinatal mortality rate for the five-year period preceding the survey, by background characteristics, Cambodia 2014

| Background characteristic                                | Number of stillbirths <sup>1</sup> | Number of early neonatal deaths <sup>2</sup> | Perinatal mortality rate <sup>3</sup> | Number of pregnancies of 7+ months' duration |
|--|------------------------------------|--|---------------------------------------|--|
| <b>Mother's age at birth</b>                             |                                    |  |                                       |  |
| <20  | 4                                  | 6  | 12                                    | 818  |
| 20-29  | 18                                 | 55   | 16                                    | 4,483  |
| 30-39  | 19                                 | 27   | 25                                    | 1,796  |
| 40-49  | 2                                  | 12   | 73                                    | 198  |
| <b>Previous pregnancy interval in months<sup>4</sup></b> |                                    |  |                                       |  |
| First pregnancy  | 11                                 | 40   | 20                                    | 2,562  |
| <15  | 7                                  | 21   | 28                                    | 999  |
| 15-26  | 6                                  | 14   | 20                                    | 973  |
| 27-38  | 8                                  | 3  | 14                                    | 832  |
| 39+  | 10                                 | 22   | 17                                    | 1,929  |
| <b>Residence</b>   |                                    |  |                                       |  |
| Urban  | 3                                  | 4  | 7                                     | 1,044  |
| Rural  | 39                                 | 96   | 22                                    | 6,251  |
| <b>Province</b>  |                                    |  |                                       |  |
| Banteay Meanchey   | 3                                  | 1  | 15                                    | 256  |
| Kampong Cham   | 5                                  | 25   | 30                                    | 1,013  |
| Kampong Chhnang  | 0                                  | 5  | 22                                    | 248  |
| Kampong Speu   | 3                                  | 7  | 20                                    | 471  |
| Kampong Thom   | 4                                  | 6  | 29                                    | 341  |
| Kandal   | 8                                  | 6  | 27                                    | 530  |
| Kratie   | 1                                  | 3  | 14                                    | 270  |
| Phnom Penh   | 3                                  | 7  | 15                                    | 629  |
| Prey Veng  | 0                                  | 9  | 19                                    | 499  |
| Pursat   | 4                                  | 2  | 20                                    | 302  |
| Siem Reap  | 2                                  | 6  | 16                                    | 489  |
| Svay Rieng   | 3                                  | 4  | 26                                    | 264  |
| Takeo  | 2                                  | 5  | 16                                    | 388  |
| Otdar Meanchey   | 1                                  | 0  | 5                                     | 137  |
| Battambang/Pailin  | 2                                  | 6  | 13                                    | 555  |
| Kampot/Kep   | 1                                  | 2  | 10                                    | 277  |
| Preah Sihanouk/<br>Koh Kong                              | 2                                  | 2  | 21                                    | 170  |
| Preah Vihear/<br>Stung Treng                             | 0                                  | 2  | 9                                     | 239  |
| Mondul Kiri/<br>Ratanak Kiri                             | 1                                  | 3  | 18                                    | 218  |
| <b>Mother's education</b>                                |                                    |  |                                       |  |
| No education   | 2                                  | 10   | 11                                    | 1,019  |
| Primary  | 28                                 | 55   | 22                                    | 3,823  |
| Secondary  | 10                                 | 34   | 20                                    | 2,251  |
| <b>Wealth quintile</b>                                   |                                    |  |                                       |  |
| Lowest   | 7                                  | 33   | 22                                    | 1,778  |
| Second   | 9                                  | 18   | 18                                    | 1,462  |
| Middle   | 10                                 | 18   | 20                                    | 1,372  |
| Fourth   | 10                                 | 22   | 26                                    | 1,262  |
| Highest  | 7                                  | 10   | 12                                    | 1,422  |
| Total  | 42                                 | 100  | 20                                    | 7,295  |

<sup>1</sup> Stillbirths are fetal deaths in pregnancies lasting seven or more months.

<sup>2</sup> Early neonatal deaths are deaths at age 0-6 days among live-born children.

<sup>3</sup> The sum of the number of stillbirths and early neonatal deaths divided by the number of pregnancies of seven or more months' duration, expressed per 1,000

<sup>4</sup> Categories correspond to birth intervals of <24 months, 24-35 months, 36-47 months, and 48+ months.

## 12.6 HIGH-RISK FERTILITY BEHAVIOR

The survival of infants and children depends in part on the demographic and biological characteristics of their mothers. Typically, the probability of dying in infancy is much greater among children born to mothers who are too young (under age 18) or too old (over age 34), children born after a short birth interval (less than 24 months after the preceding birth), and children born to mothers of high parity (more than three children). The risk is elevated when a child is born to a mother who has a combination of these risk characteristics.



Table 12.5 shows the percent distribution of children born in the five years before the survey by these risk factors. Nearly 2 in 5 births (37 percent) were not in any high-risk category. Thirty-six percent were first births to women between age 18 and 34—considered an unavoidable risk category—whereas 20 percent of births were in a single high-risk category and only 8 percent were in a multiple high-risk category. The most common single high-risk category was births of order three and above (8 percent), and the most common multiple high-risk category was births to mothers older than age 34 and of birth order three and above (6 percent).

**Table 12.5 High-risk fertility behavior**

Percent distribution of children born in the five years preceding the survey by category of elevated risk of mortality and the risk ratio, and percent distribution of currently married women by category of risk if they were to conceive a child at the time of the survey, Cambodia 2014

| Risk category  | Births in the 5 years preceding the survey |            | Percentage of currently married women <sup>1</sup> |
|--|--|------------|--|
|  | Percentage of births                       | Risk ratio |  |
| Not in any high-risk category                            | 36.6                                       | 1.00       | 30.0 <sup>a</sup>                                  |
| <b>Unavoidable risk category</b>                         |  |            |  |
| First-order births between age 18 and 34                 | 35.7                                       | 1.45       | 7.6  |
| <b>Single high-risk category</b>                         |  |            |  |
| Mother's age <18   | 2.7  | 1.22       | 0.4  |
| Mother's age >34   | 2.9  | 1.35       | 10.0   |
| Birth interval <24 months                                | 5.8  | 2.34       | 10.1   |
| Birth order >3   | 8.3  | 1.40       | 8.2  |
| Subtotal   | 19.8                                       | 1.64       | 28.6   |
| <b>Multiple high-risk category</b>                       |  |            |  |
| Age <18 and birth interval <24 months <sup>2</sup>       | 0.0  | *          | 0.1  |
| Age >34 and birth interval <24 months                    | 0.2  | *          | 0.5  |
| Age >34 and birth order >3                               | 5.6  | 3.65       | 29.0   |
| Age >34 and birth interval <24 months and birth order >3 | 0.5  | (8.80)     | 1.2  |
| Birth interval <24 months and birth order >3             | 1.6  | 5.64       | 3.0  |
| Subtotal   | 7.8  | 4.42       | 33.7   |
| In any avoidable high-risk category                      | 27.6                                       | 2.43       | 62.3   |
| Total  | 100.0                                      | na         | 100.0  |
| Number of births/women                                   | 7,253                                      | na         | 11,898   |

Note: Risk ratio is the ratio of the proportion dead among births in a specific high-risk category to the proportion dead among births not in any high-risk category. Figures in parentheses are based on 25–49 unweighted cases. An asterisk indicates that a ratio is based on fewer than 25 unweighted cases and has been suppressed.

na = Not applicable

<sup>1</sup> Women are assigned to risk categories according to the status they would have at the birth of a child if they were to conceive at the time of the survey: current age less than 17 years and 3 months or older than 34 years and 2 months, latest birth less than 15 months ago, or latest birth being of order 3 or higher.

<sup>2</sup> Includes the category age <18 and birth order >3

<sup>a</sup> Includes sterilized women

The risk ratios displayed in the second column of Table 12.5 denote the relationship between risk factors and mortality. For example, the risk of dying for a child who falls into any of the avoidable high-risk categories is 2.4 times higher than for a child not in any high-risk category. In general, risk ratios are higher for children in a multiple high-risk category than for children in a single high-risk category. Most vulnerable are children born to a mother older than age 34, born less than 24 months after a preceding birth, and of a birth order greater than three; they are nine times as likely to die as children who are not in any high-risk category. However, less than 1 percent of births fall into this category. Among the single high-risk categories, children born after a birth interval shorter than 24 months have 2.3 times the risk of dying of children not in any high-risk category.

The final column of Table 12.5 illustrates the potential currently married women have of experiencing a high-risk birth. A woman's status at the time of the survey with regard to her age, time elapsed since the last birth, and parity is used to classify her into a potential risk category if she were to

become pregnant at the time of the survey. For example, if a respondent who is age 40, has had four births, and had her last birth 12 months ago were to become pregnant, she would fall into the multiple high-risk category of being too old, too high parity (four or more births), and giving birth too soon (less than 24 months) after a previous birth.

Overall, approximately 3 in 5 currently married women (62 percent) have the potential of giving birth to a child at elevated risk of mortality. Twenty-nine percent of women have the potential for having a birth in a single high-risk category, and about one-third of women (34 percent) have the potential for having a birth in a multiple high-risk category (mainly older maternal age and high birth order).



**Key Findings**

- More than 9 in 10 (95 percent) mothers received antenatal care from a skilled provider.
- The median duration of pregnancy at the first antenatal visit is 2.5 months.
- Eighty-nine percent of mothers with a birth in the five years preceding the survey were protected against neonatal tetanus.
- Nine in 10 (89 percent) births in the five years preceding the survey were assisted by a skilled provider, and 83 percent of births were delivered in a health facility.
- In the two years before the survey, 90 percent of women received postnatal care for their last birth in the first two days after delivery.

**T**his chapter presents findings on important areas of maternal health: antenatal, delivery, and postnatal care. This information, in combination with data from other chapters, is useful in formulating programs and policies to improve maternal and child health services.

**13.1 ANTENATAL CARE**

The health care that a mother receives during pregnancy and at the time of delivery is important for the survival and well-being of both the mother and the child. Antenatal care (ANC) from a trained provider is vital in monitoring the pregnancy and reducing morbidity risk for the mother and child during pregnancy and delivery. A well-designed and well-implemented ANC program facilitates detection and treatment of problems during pregnancy, such as anemia and infections, and provides an opportunity to disseminate health messages to women and their families. In the 2014 CDHS, women who had given birth in the five years preceding the survey were asked about the type of ANC provider, number of ANC visits, stage of pregnancy at the time of the first visit, and services and information provided during ANC. For women with two or more live births during the five-year period, data on antenatal care refer to the most recent birth only.

**13.1.1 Source of Antenatal Care**

Table 13.1 shows the percent distribution of women who had a birth in the five years preceding the survey by source of antenatal care received during pregnancy. Ninety-five percent of women received ANC from trained personnel (doctors, nurses, and midwives) at least once. Nearly 9 in 10 women (88 percent) received care during pregnancy from midwives, 6 percent received care from a doctor, and 1 percent received care from a nurse. Only 5 percent of women received no antenatal care for births in the preceding five years. The 2014 data show continued improvement in antenatal care since the 2010 CDHS, when 89 percent of women had received antenatal care from a trained health professional. In 2010, one-tenth of women received no antenatal care.

Younger women (less than age 35) were more likely than older women (age 35 and older) to receive antenatal care from trained personnel (96 percent versus 89 percent). Women were more likely to receive care from a health professional for first births (98 percent) than for births of order six and higher (72 percent). Urban and rural women differed slightly in their use of antenatal care services. Health professionals provided antenatal care for 99 percent of women in urban areas and 95 percent of women in rural areas. Five percent of women in rural areas received no antenatal care at all, as compared with 1 percent in urban areas.

Table 13.1 Antenatal care

Percent distribution of women age 15-49 who had a live birth in the five years preceding the survey by antenatal care (ANC) provider during pregnancy for the most recent birth and the percentage receiving antenatal care from a skilled provider for the most recent birth, according to background characteristics, Cambodia 2014

| Background characteristic    | Antenatal care provider |       |         |                             |                          |       |        |         | Total | Percentage receiving antenatal care from a skilled provider¹ | Number of women |
|------------------------------|-------------------------|-------|---------|-----------------------------|--------------------------|-------|--------|---------|-------|--|-----------------|
|                              | Doctor                  | Nurse | Midwife | Traditional birth attendant | Village health volunteer | Other | No one | Missing |       |  |                 |
| Mother's age at birth        |                         |       |         |                             |                          |       |        |         |       |  |                 |
| <20                          | 5.5                     | 0.2   | 89.8    | 0.0                         | 0.1                      | 0.0   | 4.4    | 0.0     | 100.0 | 95.5   | 620             |
| 20-34                        | 5.9                     | 1.4   | 88.8    | 0.1                         | 0.0                      | 0.0   | 3.7    | 0.0     | 100.0 | 96.2   | 4,749           |
| 35-49                        | 4.5                     | 1.1   | 83.0    | 0.4                         | 0.0                      | 0.0   | 11.0   | 0.0     | 100.0 | 88.6   | 603             |
| Birth order                  |                         |       |         |                             |                          |       |        |         |       |  |                 |
| 1                            | 7.0                     | 1.2   | 90.1    | 0.0                         | 0.0                      | 0.0   | 1.6    | 0.0     | 100.0 | 98.4   | 2,127           |
| 2-3                          | 4.9                     | 1.6   | 90.0    | 0.1                         | 0.1                      | 0.0   | 3.2    | 0.1     | 100.0 | 96.5   | 2,826           |
| 4-5                          | 5.8                     | 0.3   | 84.6    | 0.3                         | 0.0                      | 0.0   | 9.0    | 0.0     | 100.0 | 90.7   | 748             |
| 6+                           | 3.9                     | 0.7   | 67.3    | 0.8                         | 0.0                      | 0.0   | 27.2   | 0.0     | 100.0 | 71.9   | 272             |
| Place where ANC received     |                         |       |         |                             |                          |       |        |         |       |  |                 |
| Public sector                | 5.0                     | 1.3   | 93.6    | 0.0                         | 0.0                      | 0.0   | 0.0    | 0.0     | 100.0 | 99.9   | 5,366           |
| Private sector               | 24.8                    | 1.7   | 73.5    | 0.0                         | 0.0                      | 0.0   | 0.0    | 0.0     | 100.0 | 100.0  | 274             |
| Home                         | (11.8)                  | (0.0) | (80.8)  | (6.3)                       | (1.2)                    | (0.0) | (0.0)  | (0.0)   | 100.0 | (92.5)   | 53              |
| Other                        | *                       | *     | *       | *                           | *                        | *     | *      | *       | 100.0 | *  | 12              |
| No ANC                       | 0.0                     | 0.0   | 0.0     | 0.0                         | 0.0                      | 0.0   | 100.0  | 0.0     | 100.0 | 0.0  | 267             |
| Residence                    |                         |       |         |                             |                          |       |        |         |       |  |                 |
| Urban                        | 9.1                     | 4.0   | 85.5    | 0.0                         | 0.0                      | 0.0   | 1.4    | 0.0     | 100.0 | 98.6   | 876             |
| Rural                        | 5.1                     | 0.8   | 88.8    | 0.1                         | 0.0                      | 0.0   | 5.0    | 0.0     | 100.0 | 94.8   | 5,096           |
| Province                     |                         |       |         |                             |                          |       |        |         |       |  |                 |
| Banteay Meanchey             | 2.5                     | 0.4   | 96.0    | 0.0                         | 0.0                      | 0.0   | 0.6    | 0.5     | 100.0 | 98.9   | 219             |
| Kampong Cham                 | 17.6                    | 0.3   | 79.0    | 0.0                         | 0.0                      | 0.0   | 3.1    | 0.0     | 100.0 | 96.9   | 819             |
| Kampong Chhnang              | 0.1                     | 0.1   | 99.2    | 0.0                         | 0.0                      | 0.0   | 0.5    | 0.0     | 100.0 | 99.5   | 203             |
| Kampong Speu                 | 0.2                     | 0.0   | 97.5    | 0.0                         | 0.0                      | 0.0   | 2.2    | 0.0     | 100.0 | 97.8   | 395             |
| Kampong Thom                 | 1.6                     | 0.0   | 94.0    | 0.0                         | 0.0                      | 0.0   | 4.4    | 0.0     | 100.0 | 95.6   | 279             |
| Kandal                       | 1.9                     | 2.3   | 92.1    | 0.0                         | 0.0                      | 0.0   | 3.7    | 0.0     | 100.0 | 96.3   | 420             |
| Kratie                       | 2.0                     | 0.0   | 70.8    | 0.6                         | 0.0                      | 0.0   | 26.6   | 0.0     | 100.0 | 72.8   | 214             |
| Phnom Penh                   | 10.3                    | 8.0   | 80.1    | 0.0                         | 0.0                      | 0.0   | 1.5    | 0.0     | 100.0 | 98.5   | 535             |
| Prey Veng                    | 3.8                     | 0.0   | 95.1    | 0.0                         | 0.0                      | 0.0   | 1.0    | 0.0     | 100.0 | 99.0   | 405             |
| Pursat                       | 0.3                     | 0.0   | 94.4    | 0.0                         | 0.0                      | 0.0   | 5.0    | 0.3     | 100.0 | 94.7   | 245             |
| Siem Reap                    | 21.6                    | 3.2   | 71.3    | 1.3                         | 0.4                      | 0.0   | 2.2    | 0.0     | 100.0 | 96.1   | 379             |
| Svay Rieng                   | 0.5                     | 0.0   | 97.6    | 0.0                         | 0.0                      | 0.0   | 1.9    | 0.0     | 100.0 | 98.1   | 229             |
| Takeo                        | 1.5                     | 0.0   | 96.1    | 0.0                         | 0.0                      | 0.0   | 2.4    | 0.0     | 100.0 | 97.6   | 321             |
| Otdar Meanchey               | 0.9                     | 0.0   | 95.7    | 0.0                         | 0.0                      | 0.0   | 2.9    | 0.4     | 100.0 | 96.7   | 116             |
| Battambang/Pailin            | 1.5                     | 1.5   | 94.0    | 0.0                         | 0.0                      | 0.0   | 2.9    | 0.0     | 100.0 | 97.1   | 460             |
| Kampot/Kep                   | 0.7                     | 0.1   | 93.1    | 0.0                         | 0.0                      | 0.0   | 6.1    | 0.0     | 100.0 | 93.9   | 236             |
| Preah Sihanouk/<br>Koh Kong  | 3.4                     | 0.2   | 94.1    | 0.0                         | 0.0                      | 0.0   | 2.4    | 0.0     | 100.0 | 97.6   | 142             |
| Preah Vihear/<br>Stung Treng | 0.2                     | 0.0   | 85.3    | 0.3                         | 0.0                      | 0.0   | 14.2   | 0.0     | 100.0 | 85.5   | 188             |
| Mondul Kiri/<br>Ratanak Kiri | 0.3                     | 0.0   | 75.7    | 0.0                         | 0.4                      | 0.0   | 23.7   | 0.0     | 100.0 | 76.0   | 169             |
| Mother's education           |                         |       |         |                             |                          |       |        |         |       |  |                 |
| No education                 | 4.2                     | 1.1   | 81.0    | 0.2                         | 0.1                      | 0.0   | 13.3   | 0.1     | 100.0 | 86.3   | 805             |
| Primary                      | 5.1                     | 0.8   | 89.4    | 0.2                         | 0.0                      | 0.0   | 4.4    | 0.1     | 100.0 | 95.3   | 3,100           |
| Secondary and higher         | 7.2                     | 2.1   | 89.5    | 0.0                         | 0.1                      | 0.0   | 1.1    | 0.0     | 100.0 | 98.8   | 2,068           |
| Wealth quintile              |                         |       |         |                             |                          |       |        |         |       |  |                 |
| Lowest                       | 4.4                     | 0.5   | 84.8    | 0.4                         | 0.0                      | 0.0   | 9.9    | 0.0     | 100.0 | 89.7   | 1,359           |
| Second                       | 4.4                     | 0.3   | 89.9    | 0.1                         | 0.2                      | 0.0   | 5.1    | 0.0     | 100.0 | 94.7   | 1,215           |
| Middle                       | 5.1                     | 0.9   | 90.2    | 0.0                         | 0.0                      | 0.0   | 3.7    | 0.2     | 100.0 | 96.2   | 1,133           |
| Fourth                       | 4.4                     | 1.0   | 92.7    | 0.1                         | 0.0                      | 0.0   | 1.9    | 0.0     | 100.0 | 98.1   | 1,069           |
| Highest                      | 10.4                    | 3.8   | 85.1    | 0.0                         | 0.0                      | 0.0   | 0.7    | 0.0     | 100.0 | 99.3   | 1,196           |
| Total                        | 5.7                     | 1.3   | 88.3    | 0.1                         | 0.0                      | 0.0   | 4.5    | 0.0     | 100.0 | 95.3   | 5,973           |

Note: If more than one source of ANC was mentioned, only the provider with the highest qualifications is considered in this tabulation. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Skilled provider includes doctor, nurse, and midwife.

Provincial differences in antenatal care coverage were significant. For example, while nearly all women in several provinces received antenatal care from a health professional, only about three-quarters of women in Kratie and Mondul Kiri/Ratanak Kiri received qualified antenatal care (73 percent and 76 percent, respectively).

The use of antenatal care services was strongly associated with a woman's level of education. Women with a secondary education or higher were more likely to receive antenatal care from trained

personnel (99 percent) than women with a primary education (95 percent) and women with no education (86 percent). Thirteen percent of uneducated women received no antenatal care at all, with the proportion decreasing to 4 percent among women with a primary school education and 1 percent among women with a secondary education or higher. The proportion of women who receive ANC from a skilled provider increases steadily with increasing wealth.

Antenatal care is more beneficial in preventing adverse pregnancy outcomes when it is sought early in the pregnancy and is continued throughout pregnancy. Health professionals recommend that the first antenatal visit occur within the first three months of the pregnancy and that visits continue on a monthly basis through week 28 of pregnancy and then every two weeks up to week 36 (or until birth). If the first antenatal visit is made during the third month of pregnancy and then visits occur as regularly as recommended, there will be a total of at least 12 to 13 antenatal visits. Table 13.2 shows that three-quarters of women (76 percent) make four or more antenatal care visits during their entire pregnancy. Table 13.2 includes antenatal care received from any type of provider listed in Table 13.1.

Four in five women (79 percent) make their first antenatal care visit before the fourth month of pregnancy. The median duration of pregnancy at the first antenatal care visit is 2.5 months. This indicates that, overall, women in Cambodia start antenatal care during the first trimester of their pregnancy. Rural women tend to have fewer ANC visits and to start care later in pregnancy than urban women.

**Table 13.2** Number of antenatal care visits and timing of first visit

Percent distribution of women age 15-49 who had a live birth in the five years preceding the survey by number of antenatal care (ANC) visits for the most recent live birth, and by the timing of the first visit, and among women with ANC, median months pregnant at first visit, according to residence, Cambodia 2014

| Number and timing of ANC visits                                   | Residence |       | Total |
|---|-----------|-------|-------|
|   | Urban     | Rural |       |
| <b>Number of ANC visits</b>                                       |           |       |       |
| None  | 1.4       | 5.0   | 4.5   |
| 1   | 1.4       | 3.1   | 2.9   |
| 2-3   | 11.5      | 17.6  | 16.7  |
| 4+  | 85.4      | 73.9  | 75.6  |
| Don't know/missing  | 0.3       | 0.3   | 0.3   |
| Total   | 100.0     | 100.0 | 100.0 |
| <b>Number of months pregnant at time of first ANC visit</b>       |           |       |       |
| No antenatal care   | 1.4       | 5.0   | 4.5   |
| <4  | 87.6      | 77.5  | 79.0  |
| 4-5   | 8.4       | 13.3  | 12.6  |
| 6-7   | 2.1       | 3.6   | 3.4   |
| 8+  | 0.4       | 0.5   | 0.5   |
| Don't know/missing  | 0.1       | 0.1   | 0.1   |
| Total   | 100.0     | 100.0 | 100.0 |
| Number of women   | 876       | 5,096 | 5,973 |
| <b>Median months pregnant at first visit (for those with ANC)</b> |           |       |       |
| Number of women with ANC  | 2.1       | 2.6   | 2.5   |
|   | 864       | 4,840 | 5,704 |

### 13.1.2 Components of Antenatal Care

Apart from receiving basic care, every pregnant woman should be monitored for complications. For that reason, pregnant women should receive information on pregnancy complications or danger signs and be screened for complications at all antenatal care visits. The 2014 CDHS asked respondents a number of questions about the care they received during pregnancy for their most recent live birth in the past five years. Table 13.3 presents information on the percentage of women who took iron tablets and intestinal parasite drugs during pregnancy and on the content of ANC services, including the percentage of women who were informed of the symptoms of pregnancy complications.

Nearly all women (96 percent) took iron tablets or syrup during pregnancy, and 72 percent took intestinal parasite drugs. Eighty-two percent of mothers who received antenatal care reported that they were informed about the signs of pregnancy-related complications during their visits. Blood pressure measurements were part of antenatal care for 96 percent of mothers, and 95 percent were weighed as part of their antenatal care. Urine and blood samples were taken from 49 percent and 77 percent of women, respectively.

Table 13.3 Components of antenatal care

Among women age 15-49 with a live birth in the five years preceding the survey, the percentage who took iron tablets or syrup and drugs for intestinal parasites during the pregnancy of the most recent birth, and among women receiving antenatal care (ANC) for the most recent live birth in the five years preceding the survey, the percentage receiving specific antenatal services, according to background characteristics, Cambodia 2014

| Background characteristic    | Among women with a live birth in the past five years, the percentage who during the pregnancy of their last birth: |                                |  | Among women who received antenatal care for their most recent birth in the past five years, the percentage with selected services |         |                         |                    |                    |  |
|------------------------------|--|--------------------------------|--|---|---------|-------------------------|--------------------|--------------------|--|
|                              | Took iron tablets or syrup   | Took intestinal parasite drugs | Number of women with a live birth in the past five years | Informed of signs of pregnancy complications  | Weighed | Blood pressure measured | Urine sample taken | Blood sample taken | Number of women with ANC for their most recent birth |
| <b>Mother's age at birth</b> |  |                                |  |   |         |                         |                    |                    |  |
| <20                          | 94.7   | 71.5                           | 620  | 76.4  | 95.4    | 95.9                    | 42.5               | 77.1               | 592  |
| 20-34                        | 96.5   | 73.2                           | 4,749  | 82.7  | 95.7    | 96.5                    | 50.0               | 77.8               | 4,574  |
| 35-49                        | 89.6   | 64.6                           | 603  | 83.6  | 91.8    | 93.3                    | 46.6               | 71.2               | 537  |
| <b>Birth order</b>           |  |                                |  |   |         |                         |                    |                    |  |
| 1                            | 98.1   | 74.9                           | 2,127  | 80.6  | 96.3    | 96.5                    | 50.3               | 81.5               | 2,093  |
| 2-3                          | 96.8   | 73.7                           | 2,826  | 84.2  | 96.0    | 96.7                    | 49.2               | 76.1               | 2,733  |
| 4-5                          | 91.4   | 66.1                           | 748  | 80.5  | 92.5    | 95.4                    | 44.2               | 71.6               | 680  |
| 6+                           | 74.9   | 51.0                           | 272  | 75.6  | 85.8    | 86.0                    | 46.1               | 63.6               | 198  |
| <b>Residence</b>             |  |                                |  |   |         |                         |                    |                    |  |
| Urban                        | 97.4   | 62.0                           | 876  | 83.1  | 97.5    | 97.9                    | 60.8               | 82.6               | 864  |
| Rural                        | 95.3   | 73.9                           | 5,096  | 82.0  | 94.9    | 95.8                    | 46.8               | 76.1               | 4,840  |
| <b>Province</b>              |  |                                |  |   |         |                         |                    |                    |  |
| Banteay Meanchey             | 98.7   | 72.1                           | 219  | 78.0  | 98.6    | 94.5                    | 59.4               | 90.7               | 217  |
| Kampong Cham                 | 97.3   | 64.3                           | 819  | 70.6  | 91.3    | 94.3                    | 33.2               | 70.6               | 793  |
| Kampong Chhnang              | 99.3   | 96.6                           | 203  | 96.4  | 97.0    | 97.7                    | 83.3               | 92.9               | 202  |
| Kampong Speu                 | 98.2   | 71.7                           | 395  | 75.7  | 94.2    | 97.0                    | 22.6               | 73.4               | 386  |
| Kampong Thom                 | 94.7   | 90.6                           | 279  | 98.5  | 97.4    | 96.1                    | 84.9               | 92.4               | 266  |
| Kandal                       | 95.0   | 71.1                           | 420  | 86.4  | 95.7    | 95.5                    | 52.8               | 72.3               | 404  |
| Kratie                       | 77.0   | 57.0                           | 214  | 85.0  | 90.3    | 91.7                    | 39.8               | 55.1               | 157  |
| Phnom Penh                   | 97.9   | 53.6                           | 535  | 84.6  | 98.0    | 99.4                    | 63.9               | 78.8               | 527  |
| Prey Veng                    | 98.9   | 84.5                           | 405  | 90.1  | 93.0    | 95.1                    | 56.7               | 75.9               | 401  |
| Pursat                       | 95.5   | 89.2                           | 245  | 93.6  | 97.6    | 96.8                    | 54.9               | 86.0               | 232  |
| Siem Reap                    | 96.4   | 74.3                           | 379  | 80.3  | 98.4    | 96.1                    | 82.9               | 95.8               | 371  |
| Svay Rieng                   | 98.1   | 70.1                           | 229  | 78.7  | 99.2    | 97.9                    | 32.7               | 78.9               | 224  |
| Takeo                        | 97.9   | 71.1                           | 321  | 89.8  | 96.1    | 98.0                    | 41.3               | 78.1               | 313  |
| Otdar Meanchey               | 95.6   | 82.0                           | 116  | 73.0  | 98.5    | 91.5                    | 54.7               | 73.7               | 112  |
| Battambang/Pailin            | 97.5   | 78.4                           | 460  | 73.4  | 98.1    | 97.9                    | 45.6               | 91.1               | 447  |
| Kampot/Kep                   | 92.8   | 72.7                           | 236  | 81.8  | 93.4    | 94.3                    | 21.1               | 79.2               | 222  |
| Preah Sihanouk/<br>Koh Kong  | 96.7   | 66.1                           | 142  | 83.5  | 95.9    | 95.2                    | 55.6               | 84.2               | 138  |
| Preah Vihear/<br>Stung Treng | 90.1   | 59.6                           | 188  | 76.3  | 84.1    | 95.4                    | 18.4               | 28.8               | 161  |
| Mondul Kiri/<br>Ratanak Kiri | 77.7   | 72.0                           | 169  | 87.5  | 94.8    | 95.1                    | 15.1               | 15.6               | 129  |
| <b>Education</b>             |  |                                |  |   |         |                         |                    |                    |  |
| No education                 | 87.8   | 63.0                           | 805  | 76.7  | 89.5    | 90.3                    | 43.6               | 68.4               | 697  |
| Primary                      | 95.6   | 72.8                           | 3,100  | 81.7  | 94.9    | 96.0                    | 46.5               | 75.3               | 2,961  |
| Secondary and higher         | 98.6   | 74.8                           | 2,068  | 84.5  | 97.9    | 98.3                    | 54.2               | 82.6               | 2,045  |
| <b>Wealth quintile</b>       |  |                                |  |   |         |                         |                    |                    |  |
| Lowest                       | 91.0   | 70.5                           | 1,359  | 78.7  | 92.3    | 93.0                    | 44.9               | 73.4               | 1,224  |
| Second                       | 95.2   | 71.6                           | 1,215  | 81.1  | 91.9    | 94.5                    | 47.1               | 74.0               | 1,153  |
| Middle                       | 96.4   | 76.3                           | 1,133  | 83.2  | 97.0    | 97.6                    | 44.6               | 77.9               | 1,091  |
| Fourth                       | 98.3   | 74.4                           | 1,069  | 85.0  | 97.9    | 97.8                    | 49.9               | 79.2               | 1,049  |
| Highest                      | 98.0   | 68.7                           | 1,196  | 83.1  | 98.0    | 98.1                    | 57.8               | 81.3               | 1,187  |
| Total                        | 95.6   | 72.2                           | 5,973  | 82.1  | 95.3    | 96.1                    | 48.9               | 77.1               | 5,704  |

Urban-rural differences existed for various components of antenatal care. Urban women and rural women were equally likely to have been informed about signs of pregnancy complications, to have been weighed, and to have their blood pressure measured; however, urban women were more likely than rural women to have blood and urine taken for testing. Women in rural areas were more likely than those in urban areas to take intestinal parasite drugs, but rural and urban were equally likely to take iron tablets or syrup during pregnancy. Antenatal care content was also greatly related to education and wealth. Women with a secondary education or higher and women in the highest wealth quintile were more likely to have received most services than other women.

### 13.1.3 Tetanus Toxoid Vaccinations

Tetanus toxoid (TT) injections are given to women during pregnancy to prevent deaths from neonatal tetanus. Neonatal tetanus can result when sterile procedures are not followed in cutting the umbilical cord after delivery. In the 2014 CDHS, information was collected on the number of doses of TT vaccine the mother received for her most recent birth during the five-year period prior to the survey. In addition, questions were included to ascertain whether mothers received tetanus injections prior to the last birth as a means of determining whether that birth was fully protected from neonatal tetanus.

Table 13.4 shows the percentage of women with a live birth in the five years preceding the survey who reported receiving TT injections during the pregnancy for the last live birth. Also shown is whether the last birth was fully protected against neonatal tetanus. An infant is considered to be fully protected if the mother had two tetanus toxoid injections during the pregnancy or if she had the requisite number of injections prior to the pregnancy (see footnote in Table 13.4). According to the 2014 CDHS results, 89 percent of last-born children during the five-year period before the survey were fully protected against neonatal tetanus. This figure is slightly higher than that observed in the 2010 CDHS (85 percent). There were provincial differences in the percentage of last-born children who were fully protected against neonatal tetanus. For example, 98 percent of births in Kampong Chhnang were fully protected, as compared with 72 percent of births in Mondul Kiri/Ratanak Kiri. The proportion of births protected against tetanus is higher in urban than rural areas and increases with increasing mother's education and wealth.

For approximately three in five births in the past five years (62 percent), the mother received two or more tetanus toxoid injections. This figure is similar to that reported in 2010, when 61 percent of women received two or more doses of tetanus toxoid vaccine.

## 13.2 CHILDBIRTH AND DELIVERY

An important component of efforts to reduce the health risks of mothers and children is increasing the proportion of babies delivered under the supervision of health professionals. Proper medical attention and hygienic conditions during delivery can reduce the risk of complications and infections that may cause death or serious illness to either the mother or the baby (or both). Data on delivery care were obtained for all births that occurred in the five years preceding the survey.

Table 13.4 Tetanus toxoid injections

Among mothers age 15-49 with a live birth in the five years preceding the survey, the percentage receiving two or more tetanus toxoid injections during the pregnancy for the last live birth and the percentage whose last live birth was protected against neonatal tetanus, according to background characteristics, Cambodia 2014

| Background characteristic    | Percentage receiving two or more injections during last pregnancy | Percentage whose last birth was protected against neonatal tetanus <sup>1</sup> | Number of mothers |
|------------------------------|---|---|-------------------|
| <b>Mother's age at birth</b> |   |   |                   |
| <20                          | 66.7  | 83.1  | 620               |
| 20-34                        | 62.4  | 90.3  | 4,749             |
| 35-49                        | 58.2  | 80.8  | 603               |
| <b>Birth order</b>           |   |   |                   |
| 1                            | 72.3  | 89.8  | 2,127             |
| 2-3                          | 57.9  | 90.1  | 2,826             |
| 4-5                          | 55.9  | 87.4  | 748               |
| 6+                           | 49.3  | 65.9  | 272               |
| <b>Residence</b>             |   |   |                   |
| Urban                        | 64.2  | 92.9  | 876               |
| Rural                        | 62.1  | 87.8  | 5,096             |
| <b>Province</b>              |   |   |                   |
| Banteay Meanchey             | 70.2  | 93.8  | 219               |
| Kampong Cham                 | 62.9  | 84.6  | 819               |
| Kampong Chhnang              | 79.5  | 97.9  | 203               |
| Kampong Speu                 | 53.4  | 90.5  | 395               |
| Kampong Thom                 | 73.6  | 92.7  | 279               |
| Kandal                       | 61.6  | 88.3  | 420               |
| Kratie                       | 50.3  | 83.6  | 214               |
| Phnom Penh                   | 69.0  | 94.3  | 535               |
| Prey Veng                    | 72.3  | 91.2  | 405               |
| Pursat                       | 64.5  | 89.8  | 245               |
| Siem Reap                    | 51.6  | 86.4  | 379               |
| Svay Rieng                   | 69.1  | 93.1  | 229               |
| Takeo                        | 79.4  | 93.9  | 321               |
| Otdar Meanchey               | 62.1  | 90.9  | 116               |
| Battambang/Pailin            | 47.3  | 79.7  | 460               |
| Kampot/Kep                   | 59.7  | 86.7  | 236               |
| Preah Sihanouk/<br>Koh Kong  | 56.8  | 89.6  | 142               |
| Preah Vihear/<br>Stung Treng | 45.1  | 88.8  | 188               |
| Mondul Kiri/<br>Ratanak Kiri | 53.9  | 71.8  | 169               |
| <b>Education</b>             |   |   |                   |
| No education                 | 57.0  | 79.8  | 805               |
| Primary                      | 60.7  | 87.6  | 3,100             |
| Secondary and higher         | 67.1  | 93.4  | 2,068             |
| <b>Wealth quintile</b>       |   |   |                   |
| Lowest                       | 57.8  | 83.2  | 1,359             |
| Second                       | 61.7  | 87.5  | 1,215             |
| Middle                       | 63.0  | 87.3  | 1,133             |
| Fourth                       | 64.9  | 92.4  | 1,069             |
| Highest                      | 65.6  | 93.5  | 1,196             |
| <b>Total</b>                 | <b>62.4</b>   | <b>88.6</b>   | <b>5,973</b>      |

<sup>1</sup> Includes mothers with two injections during the pregnancy of their last birth, or two or more injections (the last within 3 years of the last live birth), or three or more injections (the last within 5 years of the last birth), or four or more injections (the last within 10 years of the last live birth), or five or more injections at any time prior to the last birth.



### 13.2.1 Place of Delivery

More than four in five births (83 percent) in the five years before the survey were delivered in a health facility, and 17 percent were delivered at home (Table 13.5). The percentage of deliveries occurring in the home has declined dramatically from the figures reported in 2005 (78 percent) and 2010 (45 percent).

**Table 13.5 Place of delivery**

Percent distribution of live births in the five years preceding the survey by place of delivery and percentage delivered in a health facility, according to background characteristics, Cambodia 2014

| Background characteristic                | Health facility |                | Home        | Other      | Missing    | Total        | Percentage delivered in a health facility | Number of births |
|--|-----------------|----------------|-------------|------------|------------|--------------|---|------------------|
|  | Public sector   | Private sector |             |            |            |              |   |                  |
| <b>Mother's age at birth</b>             |                 |                |             |            |            |              |   |                  |
| <20                                      | 68.5            | 14.8           | 16.4        | 0.3        | 0.0        | 100.0        | 83.3                                      | 814              |
| 20-34                                    | 69.7            | 14.7           | 15.2        | 0.2        | 0.1        | 100.0        | 84.5                                      | 5,777            |
| 35-49                                    | 61.6            | 10.0           | 28.4        | 0.0        | 0.0        | 100.0        | 71.6                                      | 662              |
| <b>Birth order</b>                       |                 |                |             |            |            |              |   |                  |
| 1  | 72.5            | 17.5           | 9.8         | 0.2        | 0.1        | 100.0        | 90.0                                      | 2,822            |
| 2-3                                      | 69.5            | 13.5           | 16.9        | 0.1        | 0.1        | 100.0        | 83.0                                      | 3,274            |
| 4-5                                      | 60.9            | 10.4           | 27.9        | 0.7        | 0.0        | 100.0        | 71.3                                      | 833              |
| 6+                                       | 51.5            | 4.6            | 43.6        | 0.0        | 0.3        | 100.0        | 56.1                                      | 323              |
| <b>Antenatal care visits<sup>1</sup></b> |                 |                |             |            |            |              |   |                  |
| None                                     | 22.1            | 6.1            | 71.2        | 0.0        | 0.6        | 100.0        | 28.2                                      | 269              |
| 1-3                                      | 62.9            | 11.1           | 25.5        | 0.4        | 0.0        | 100.0        | 74.0                                      | 1,169            |
| 4+                                       | 74.3            | 16.4           | 9.2         | 0.1        | 0.0        | 100.0        | 90.7                                      | 4,516            |
| <b>Residence</b>                         |                 |                |             |            |            |              |   |                  |
| Urban                                    | 65.8            | 30.2           | 3.9         | 0.0        | 0.0        | 100.0        | 96.0                                      | 1,041            |
| Rural                                    | 69.4            | 11.6           | 18.7        | 0.2        | 0.1        | 100.0        | 81.0                                      | 6,212            |
| <b>Province</b>                          |                 |                |             |            |            |              |   |                  |
| Banteay Meanchey                         | 70.0            | 17.9           | 11.0        | 0.0        | 1.1        | 100.0        | 87.9                                      | 253              |
| Kampong Cham                             | 61.0            | 23.5           | 15.2        | 0.4        | 0.0        | 100.0        | 84.5                                      | 1,008            |
| Kampong Chhnang                          | 96.0            | 1.2            | 2.9         | 0.0        | 0.0        | 100.0        | 97.1                                      | 248              |
| Kampong Speu                             | 66.9            | 17.2           | 15.5        | 0.4        | 0.0        | 100.0        | 84.1                                      | 469              |
| Kampong Thom                             | 67.5            | 6.9            | 25.7        | 0.0        | 0.0        | 100.0        | 74.3                                      | 337              |
| Kandal                                   | 63.6            | 17.2           | 19.2        | 0.0        | 0.0        | 100.0        | 80.8                                      | 523              |
| Kratie                                   | 40.3            | 5.9            | 53.7        | 0.0        | 0.0        | 100.0        | 46.3                                      | 269              |
| Phnom Penh                               | 65.2            | 30.7           | 4.1         | 0.0        | 0.0        | 100.0        | 95.9                                      | 626              |
| Prey Veng                                | 69.4            | 20.5           | 10.0        | 0.0        | 0.0        | 100.0        | 90.0                                      | 499              |
| Pursat                                   | 72.6            | 5.8            | 21.6        | 0.0        | 0.0        | 100.0        | 78.4                                      | 298              |
| Siem Reap                                | 87.0            | 4.6            | 8.4         | 0.0        | 0.0        | 100.0        | 91.6                                      | 487              |
| Svay Rieng                               | 74.3            | 8.2            | 17.2        | 0.4        | 0.0        | 100.0        | 82.4                                      | 261              |
| Takeo                                    | 80.1            | 12.0           | 6.9         | 0.9        | 0.0        | 100.0        | 92.2                                      | 386              |
| Otdar Meanchey                           | 85.9            | 2.5            | 11.1        | 0.2        | 0.3        | 100.0        | 88.4                                      | 137              |
| Battambang/Pailin                        | 81.3            | 8.9            | 9.6         | 0.0        | 0.2        | 100.0        | 90.2                                      | 553              |
| Kampot/Kep                               | 72.2            | 8.7            | 18.2        | 0.8        | 0.0        | 100.0        | 80.9                                      | 276              |
| Preah Sihanouk/<br>Koh Kong              | 68.6            | 20.4           | 10.2        | 0.0        | 0.9        | 100.0        | 88.9                                      | 168              |
| Preah Vihear/<br>Stung Treng             | 49.3            | 1.8            | 48.8        | 0.1        | 0.0        | 100.0        | 51.1                                      | 239              |
| Mondul Kiri/<br>Ratanak Kiri             | 39.3            | 11.9           | 48.1        | 0.7        | 0.0        | 100.0        | 51.2                                      | 217              |
| <b>Mother's education</b>                |                 |                |             |            |            |              |   |                  |
| No education                             | 62.2            | 5.7            | 31.6        | 0.5        | 0.0        | 100.0        | 67.8                                      | 1,017            |
| Primary                                  | 70.3            | 10.7           | 18.7        | 0.2        | 0.1        | 100.0        | 81.0                                      | 3,795            |
| Secondary and higher                     | 69.4            | 23.5           | 7.0         | 0.1        | 0.0        | 100.0        | 92.9                                      | 2,442            |
| <b>Wealth quintile</b>                   |                 |                |             |            |            |              |   |                  |
| Lowest                                   | 65.2            | 3.2            | 31.2        | 0.3        | 0.1        | 100.0        | 68.4                                      | 1,771            |
| Second                                   | 71.6            | 7.1            | 20.8        | 0.3        | 0.1        | 100.0        | 78.8                                      | 1,453            |
| Middle                                   | 76.0            | 10.8           | 13.1        | 0.0        | 0.1        | 100.0        | 86.8                                      | 1,362            |
| Fourth                                   | 72.1            | 18.7           | 9.0         | 0.2        | 0.0        | 100.0        | 90.8                                      | 1,252            |
| Highest                                  | 60.9            | 35.0           | 3.8         | 0.2        | 0.1        | 100.0        | 95.9                                      | 1,415            |
| <b>Total</b>                             | <b>68.9</b>     | <b>14.3</b>    | <b>16.6</b> | <b>0.2</b> | <b>0.1</b> | <b>100.0</b> | <b>83.2</b>                               | <b>7,253</b>     |

Note: Total includes 19 births for which the number of antenatal care visits is missing.

<sup>1</sup> Includes only the most recent birth in the five years preceding the survey

First births are more likely to be delivered in a health facility (90 percent) than are subsequent births. Children born in urban areas (96 percent) are more likely to be delivered in a health facility than children born in rural areas (81 percent). The proportion of births delivered in a health facility is highest in Kampong Chhnang (97 percent) and Phnom Penh (96 percent) and lowest in Kratie (46 percent), Preah Vihear/Stung Treng (51 percent), and Mondul Kiri/Ratanak Kiri (51 percent). Facility-based delivery is positively associated with mother's educational level. About two-thirds of births to women (68 percent) with no education are delivered in a health facility, as compared with 93 percent of births to women with a secondary education or higher. A similar relationship is observed between place of delivery and wealth.

### **13.2.2 Assistance at Delivery**

Obstetric care by a trained provider during delivery is recognized as critical for the reduction of maternal and neonatal mortality. Table 13.6 shows the percent distribution of births in the five years preceding the survey by the person providing assistance at delivery, the percentage of births attended by a skilled health worker, and the percentage of births delivered by cesarean section, according to background characteristics. Eighty-nine percent of births are delivered with the assistance of a trained health professional (i.e., a doctor, nurse, or midwife), an increase from 71 percent in 2010. Only 11 percent are delivered with the assistance of a traditional birth attendant. Six percent of births are delivered via cesarean, an increase from 3 percent in 2010.

First births are more likely to be assisted by a trained health professional (94 percent) than subsequent births. Births to urban women are more likely (98 percent) to be assisted by a trained health professional than births to rural women (88 percent). Conversely, rural births are more likely (12 percent) than urban births (2 percent) to receive assistance from a traditional birth attendant. At least 80 percent of deliveries are assisted by a trained health professional in all provinces other than Kratie (52 percent), Preah Vihear/Stung Treng (55 percent), and Mondul Kiri/Ratanak Kiri (54 percent). As expected, mother's education is related to delivery care. Births to women with a primary school education (89 percent) and women with a secondary education or higher (97 percent) are more likely than births to women with no education (72 percent) to be assisted by a health professional. Household wealth is also positively associated with professionally assisted delivery.

First births and births to older women (age 35-49) are more likely to be delivered via cesarean than other births. The proportion of births delivered by cesarean section is about three times higher in urban areas than rural areas (14 percent versus 5 percent) and is highest in Phnom Penh. Births to women with a secondary education or higher and those to women in the highest wealth quintile are more likely than other births to be delivered via cesarean.

Table 13.6 Assistance during delivery

Percent distribution of live births in the five years preceding the survey by person providing assistance during delivery, percentage of births assisted by a skilled provider, and percentage delivered by cesarean section, according to background characteristics, Cambodia 2014

| Background characteristic    | Person providing assistance during delivery |       |         |                             |                 |        |                     | Percentage delivered by a skilled provider <sup>1</sup> | Percentage delivered by C-section | Number of births |       |
|------------------------------|---|-------|---------|-----------------------------|-----------------|--------|---------------------|---|-----------------------------------|------------------|-------|
|                              | Doctor                                      | Nurse | Midwife | Traditional birth attendant | Relative/ other | No one | Don't know/ missing |   |                                   |                  | Total |
| <b>Mother's age at birth</b> |   |       |         |                             |                 |        |                     |   |                                   |                  |       |
| <20                          | 11.3  | 3.6   | 74.4    | 10.7                        | 0.0             | 0.0    | 0.0                 | 100.0   | 89.3                              | 4.3              | 814   |
| 20-34                        | 16.2  | 3.2   | 70.4    | 9.9                         | 0.1             | 0.0    | 0.1                 | 100.0   | 89.9                              | 6.4              | 5,777 |
| 35-49                        | 12.5  | 2.7   | 66.1    | 18.2                        | 0.5             | 0.0    | 0.0                 | 100.0   | 81.3                              | 8.0              | 662   |
| <b>Birth order</b>           |   |       |         |                             |                 |        |                     |   |                                   |                  |       |
| 1                            | 18.2  | 2.9   | 73.1    | 5.8                         | 0.0             | 0.0    | 0.1                 | 100.0   | 94.1                              | 8.2              | 2,822 |
| 2-3                          | 14.8  | 3.7   | 70.9    | 10.3                        | 0.2             | 0.0    | 0.1                 | 100.0   | 89.4                              | 5.3              | 3,274 |
| 4-5                          | 10.0  | 3.5   | 66.3    | 19.8                        | 0.3             | 0.2    | 0.0                 | 100.0   | 79.8                              | 4.8              | 833   |
| 6+                           | 9.8   | 0.9   | 53.9    | 35.1                        | 0.0             | 0.0    | 0.3                 | 100.0   | 64.6                              | 3.7              | 323   |
| <b>Place of delivery</b>     |   |       |         |                             |                 |        |                     |   |                                   |                  |       |
| Health facility              | 18.3  | 3.8   | 77.8    | 0.0                         | 0.0             | 0.0    | 0.0                 | 100.0   | 99.9                              | 7.6              | 6,032 |
| Elsewhere                    | 0.8   | 0.5   | 34.2    | 63.7                        | 0.6             | 0.2    | 0.0                 | 100.0   | 35.5                              | 0.0              | 1,215 |
| <b>Residence</b>             |   |       |         |                             |                 |        |                     |   |                                   |                  |       |
| Urban                        | 30.8  | 7.2   | 59.7    | 2.0                         | 0.2             | 0.0    | 0.0                 | 100.0   | 97.8                              | 14.3             | 1,041 |
| Rural                        | 12.8  | 2.6   | 72.3    | 12.2                        | 0.1             | 0.0    | 0.1                 | 100.0   | 87.6                              | 4.9              | 6,212 |
| <b>Province</b>              |   |       |         |                             |                 |        |                     |   |                                   |                  |       |
| Banteay Meanchey             | 6.6   | 3.9   | 85.4    | 3.0                         | 0.5             | 0.0    | 0.7                 | 100.0   | 95.8                              | 8.9              | 253   |
| Kampong Cham                 | 28.7  | 1.4   | 61.4    | 8.5                         | 0.0             | 0.0    | 0.0                 | 100.0   | 91.5                              | 7.5              | 1,008 |
| Kampong Chhnang              | 5.3   | 0.0   | 92.2    | 2.4                         | 0.0             | 0.0    | 0.0                 | 100.0   | 97.6                              | 3.3              | 248   |
| Kampong Speu                 | 6.1   | 0.1   | 83.1    | 10.4                        | 0.0             | 0.3    | 0.0                 | 100.0   | 89.3                              | 2.2              | 469   |
| Kampong Thom                 | 9.6   | 8.3   | 62.5    | 19.6                        | 0.0             | 0.0    | 0.0                 | 100.0   | 80.4                              | 5.1              | 337   |
| Kandal                       | 7.5   | 1.0   | 87.2    | 3.9                         | 0.4             | 0.0    | 0.0                 | 100.0   | 95.7                              | 8.5              | 523   |
| Kratie                       | 9.1   | 4.5   | 38.3    | 48.1                        | 0.1             | 0.0    | 0.0                 | 100.0   | 51.9                              | 4.5              | 269   |
| Phnom Penh                   | 34.2  | 11.2  | 50.8    | 3.6                         | 0.3             | 0.0    | 0.0                 | 100.0   | 96.1                              | 14.4             | 626   |
| Prey Veng                    | 4.8   | 0.0   | 92.8    | 2.4                         | 0.0             | 0.0    | 0.0                 | 100.0   | 97.6                              | 4.4              | 499   |
| Pursat                       | 2.5   | 0.0   | 83.6    | 13.7                        | 0.3             | 0.0    | 0.0                 | 100.0   | 86.1                              | 2.2              | 298   |
| Siem Reap                    | 37.1  | 10.7  | 45.2    | 6.7                         | 0.3             | 0.0    | 0.0                 | 100.0   | 93.0                              | 3.8              | 487   |
| Svay Rieng                   | 12.2  | 0.0   | 82.2    | 5.0                         | 0.4             | 0.2    | 0.0                 | 100.0   | 94.3                              | 6.5              | 261   |
| Takeo                        | 16.4  | 3.6   | 77.4    | 2.6                         | 0.0             | 0.0    | 0.0                 | 100.0   | 97.4                              | 4.2              | 386   |
| Otdar Meanchey               | 7.0   | 0.3   | 81.4    | 11.0                        | 0.0             | 0.3    | 0.0                 | 100.0   | 88.7                              | 3.7              | 137   |
| Battambang/Pailin            | 14.9  | 5.1   | 74.0    | 5.5                         | 0.0             | 0.0    | 0.5                 | 100.0   | 94.1                              | 8.3              | 553   |
| Kampot/Kep                   | 8.7   | 0.0   | 81.8    | 9.5                         | 0.0             | 0.0    | 0.0                 | 100.0   | 90.5                              | 5.0              | 276   |
| Preah Sihanouk/<br>Koh Kong  | 8.5   | 0.0   | 88.9    | 1.6                         | 0.6             | 0.0    | 0.3                 | 100.0   | 97.5                              | 9.4              | 168   |
| Preah Vihear/<br>Stung Treng | 2.8   | 0.0   | 51.8    | 45.4                        | 0.0             | 0.0    | 0.0                 | 100.0   | 54.6                              | 2.3              | 239   |
| Mondul Kiri/<br>Ratanak Kiri | 5.2   | 0.1   | 48.3    | 46.0                        | 0.3             | 0.0    | 0.1                 | 100.0   | 53.6                              | 4.0              | 217   |
| <b>Mother's education</b>    |   |       |         |                             |                 |        |                     |   |                                   |                  |       |
| No education                 | 7.6   | 2.6   | 61.6    | 27.8                        | 0.3             | 0.2    | 0.0                 | 100.0   | 71.8                              | 2.6              | 1,017 |
| Primary                      | 12.0  | 2.8   | 73.7    | 11.3                        | 0.1             | 0.0    | 0.1                 | 100.0   | 88.5                              | 5.1              | 3,795 |
| Secondary and higher         | 23.7  | 4.2   | 69.1    | 2.7                         | 0.2             | 0.0    | 0.1                 | 100.0   | 97.0                              | 9.6              | 2,442 |
| <b>Wealth quintile</b>       |   |       |         |                             |                 |        |                     |   |                                   |                  |       |
| Lowest                       | 7.9   | 2.0   | 65.3    | 24.4                        | 0.3             | 0.0    | 0.1                 | 100.0   | 75.2                              | 3.1              | 1,771 |
| Second                       | 9.6   | 2.6   | 74.8    | 12.7                        | 0.1             | 0.1    | 0.1                 | 100.0   | 87.0                              | 3.0              | 1,453 |
| Middle                       | 11.9  | 2.3   | 78.5    | 7.2                         | 0.1             | 0.0    | 0.0                 | 100.0   | 92.7                              | 4.4              | 1,362 |
| Fourth                       | 18.2  | 4.1   | 74.1    | 3.5                         | 0.0             | 0.0    | 0.0                 | 100.0   | 96.5                              | 7.7              | 1,252 |
| Highest                      | 31.3  | 5.6   | 61.5    | 1.3                         | 0.2             | 0.0    | 0.1                 | 100.0   | 98.4                              | 14.2             | 1,415 |
| Total                        | 15.3  | 3.2   | 70.5    | 10.7                        | 0.1             | 0.0    | 0.1                 | 100.0   | 89.0                              | 6.3              | 7,253 |

Note: If the respondent mentioned more than one person attending during delivery, only the most qualified person is considered in this tabulation. Total includes 6 births for which the place of delivery is missing.

<sup>1</sup> Skilled provider includes doctor, nurse, midwife, and auxiliary nurse/midwife.

### 13.3 POSTNATAL CARE AND PRACTICES

A large proportion of maternal and neonatal deaths occur during the first 48 hours after delivery. Safe motherhood programs have recently increased their emphasis on the importance of postnatal care, recommending that all women receive a health checkup within two days of delivery. To assess the extent of postnatal care utilization, respondents who had given birth in the five years preceding the survey were asked whether they had received a health check after the delivery of their last birth. Table 13.7.1 shows the timing of the first postnatal checkup for women giving birth in the past two years.

Table 13.7.1 Timing of first postnatal checkup

Among women age 15-49 giving birth in the two years preceding the survey, the percent distribution of the mother's first postnatal checkup for the last live birth by time after delivery, and the percentage of women with a live birth in the two years preceding the survey who received a postnatal checkup in the first two days after giving birth, according to background characteristics, Cambodia 2014

| Background characteristic    | Time after delivery of mother's first postnatal checkup |            |          |           |                    |                                   | Total | Percentage of women with a postnatal checkup in the first two days after birth | Number of women |
|------------------------------|---|------------|----------|-----------|--------------------|-----------------------------------|-------|--|-----------------|
|                              | Less than 4 hours                                       | 4-23 hours | 1-2 days | 3-41 days | Don't know/missing | No postnatal checkup <sup>1</sup> |       |  |                 |
| <b>Mother's age at birth</b> |   |            |          |           |                    |                                   |       |  |                 |
| <20                          | 74.4  | 7.5        | 6.8      | 0.7       | 1.0                | 9.6                               | 100.0 | 88.7   | 326             |
| 20-34                        | 77.2  | 9.9        | 3.8      | 0.3       | 0.8                | 8.1                               | 100.0 | 90.9   | 2,380           |
| 35-49                        | 67.1  | 13.9       | 6.1      | 0.7       | 0.7                | 11.5                              | 100.0 | 87.1   | 238             |
| <b>Birth order</b>           |   |            |          |           |                    |                                   |       |  |                 |
| 1                            | 76.9  | 10.5       | 4.3      | 0.4       | 1.2                | 6.7                               | 100.0 | 91.7   | 1,204           |
| 2-3                          | 77.3  | 8.8        | 4.1      | 0.1       | 0.5                | 9.2                               | 100.0 | 90.2   | 1,310           |
| 4-5                          | 69.4  | 13.7       | 4.8      | 1.4       | 0.7                | 10.0                              | 100.0 | 87.8   | 346             |
| 6+                           | 72.0  | 4.6        | 5.7      | 0.3       | 0.0                | 17.3                              | 100.0 | 82.3   | 86              |
| <b>Place of delivery</b>     |   |            |          |           |                    |                                   |       |  |                 |
| Health facility              | 80.4  | 10.6       | 3.5      | 0.1       | 0.9                | 4.4                               | 100.0 | 94.5   | 2,614           |
| Elsewhere                    | 41.7  | 4.8        | 10.8     | 2.2       | 0.0                | 40.5                              | 100.0 | 57.3   | 329             |
| <b>Residence</b>             |   |            |          |           |                    |                                   |       |  |                 |
| Urban                        | 72.9  | 22.0       | 3.1      | 0.1       | 0.5                | 1.3                               | 100.0 | 98.1   | 414             |
| Rural                        | 76.6  | 7.9        | 4.5      | 0.4       | 0.8                | 9.7                               | 100.0 | 89.1   | 2,531           |
| <b>Province</b>              |   |            |          |           |                    |                                   |       |  |                 |
| Banteay Meanchey             | 70.7  | 3.0        | 15.5     | 1.0       | 0.5                | 9.3                               | 100.0 | 89.3   | 120             |
| Kampong Cham                 | 64.9  | 8.1        | 9.7      | 0.0       | 1.4                | 15.9                              | 100.0 | 82.7   | 418             |
| Kampong Chhnang              | 98.4  | 1.6        | 0.0      | 0.0       | 0.0                | 0.0                               | 100.0 | 100.0  | 111             |
| Kampong Speu                 | 83.8  | 5.9        | 1.1      | 0.0       | 0.8                | 8.4                               | 100.0 | 90.8   | 182             |
| Kampong Thom                 | 96.4  | 0.3        | 3.2      | 0.0       | 0.0                | 0.0                               | 100.0 | 100.0  | 141             |
| Kandal                       | 66.1  | 13.9       | 5.8      | 1.0       | 0.0                | 13.3                              | 100.0 | 85.7   | 193             |
| Kratie                       | 74.1  | 1.5        | 16.1     | 0.0       | 0.0                | 8.2                               | 100.0 | 91.8   | 107             |
| Phnom Penh                   | 61.2  | 37.1       | 1.7      | 0.0       | 0.0                | 0.0                               | 100.0 | 100.0  | 257             |
| Prey Veng                    | 96.5  | 2.2        | 0.0      | 0.0       | 1.3                | 0.0                               | 100.0 | 98.7   | 194             |
| Pursat                       | 88.6  | 4.8        | 2.4      | 0.0       | 0.0                | 4.2                               | 100.0 | 95.8   | 122             |
| Siem Reap                    | 67.0  | 17.2       | 3.8      | 1.3       | 2.1                | 8.6                               | 100.0 | 87.9   | 182             |
| Svay Rieng                   | 85.2  | 4.0        | 0.9      | 0.9       | 0.0                | 9.0                               | 100.0 | 90.1   | 108             |
| Takeo                        | 85.4  | 9.2        | 1.8      | 2.0       | 0.8                | 0.8                               | 100.0 | 96.4   | 164             |
| Otdar Meanchey               | 91.1  | 3.1        | 0.0      | 0.5       | 0.0                | 5.3                               | 100.0 | 94.2   | 54              |
| Battambang/Pailin            | 79.4  | 15.1       | 1.0      | 0.0       | 2.9                | 1.6                               | 100.0 | 95.5   | 247             |
| Kampot/Kep                   | 78.6  | 11.3       | 3.2      | 0.0       | 0.0                | 7.0                               | 100.0 | 93.0   | 116             |
| Preah Sihanouk/<br>Koh Kong  | 89.4  | 3.1        | 2.4      | 0.0       | 0.8                | 4.2                               | 100.0 | 94.9   | 61              |
| Preah Vihear/<br>Stung Treng | 57.0  | 2.4        | 8.8      | 0.7       | 0.0                | 31.1                              | 100.0 | 68.2   | 92              |
| Mondul Kiri/<br>Ratanak Kiri | 37.6  | 1.6        | 0.0      | 0.0       | 0.0                | 60.8                              | 100.0 | 39.2   | 75              |
| <b>Education</b>             |   |            |          |           |                    |                                   |       |  |                 |
| No education                 | 71.5  | 4.3        | 4.1      | 0.6       | 0.7                | 18.8                              | 100.0 | 79.8   | 366             |
| Primary                      | 76.3  | 8.8        | 5.1      | 0.5       | 0.7                | 8.8                               | 100.0 | 90.1   | 1,491           |
| Secondary and higher         | 77.3  | 13.4       | 3.4      | 0.1       | 1.0                | 4.7                               | 100.0 | 94.2   | 1,088           |
| <b>Wealth quintile</b>       |   |            |          |           |                    |                                   |       |  |                 |
| Lowest                       | 74.2  | 5.2        | 5.0      | 0.5       | 0.2                | 15.0                              | 100.0 | 84.3   | 694             |
| Second                       | 77.8  | 5.9        | 3.8      | 0.9       | 0.8                | 10.8                              | 100.0 | 87.5   | 589             |
| Middle                       | 82.7  | 5.4        | 5.6      | 0.2       | 1.2                | 5.0                               | 100.0 | 93.6   | 565             |
| Fourth                       | 75.0  | 13.2       | 4.0      | 0.2       | 1.1                | 6.5                               | 100.0 | 92.2   | 536             |
| Highest                      | 70.9  | 21.5       | 3.2      | 0.1       | 0.8                | 3.5                               | 100.0 | 95.6   | 560             |
| <b>Total</b>                 | 76.1  | 9.9        | 4.3      | 0.4       | 0.8                | 8.5                               | 100.0 | 90.3   | 2,944           |

Note: Total includes 1 birth for which place of delivery is missing.

<sup>1</sup> Includes women who received a checkup after 41 days

Ninety percent of mothers received postnatal care within the crucial first two days of delivery, with 76 percent receiving care within four hours of delivery. Only 9 percent of mothers received no postnatal care.

Urban women were more likely to receive postnatal care (98 percent) than rural women (89 percent) during the first two days after delivery. Women with a secondary education or higher (94 percent) were more likely to receive postnatal care within two days of delivery than women with either no

schooling (80 percent) or only a primary school education (90 percent). Only 57 percent of women who did not deliver in a health facility received a postnatal checkup.

Table 13.7.2 presents information on the provider of postnatal care for women who delivered in the two years preceding the survey. Eighty-seven percent of women received postnatal care from a health professional (midwife, doctor, or nurse), and only 3 percent received postnatal care from traditional birth attendants. Women in urban areas (98 percent) were more likely than those in rural areas (85 percent) to receive postnatal care from a health professional. Similarly, mothers with a secondary education or higher (93 percent) were much more likely to receive postnatal care from a trained health professional than women with either no schooling (71 percent) or only a primary school education (86 percent).

**Table 13.7.2 Type of provider of first postnatal checkup for the mother**

Among women age 15-49 giving birth in the two years preceding the survey, the percent distribution by type of provider of the mother's first postnatal health check in the two days after the last live birth, according to background characteristics, Cambodia 2014

| Background characteristic    | Type of health provider of mother's first postnatal checkup |       |         |                             |                    | No postnatal checkup in the first two days after birth <sup>1</sup> | Total | Number of women |
|------------------------------|---|-------|---------|-----------------------------|--------------------|---|-------|-----------------|
|                              | Doctor  | Nurse | Midwife | Traditional birth attendant | Don't know/missing |   |       |                 |
| <b>Mother's age at birth</b> |   |       |         |                             |                    |   |       |                 |
| <20                          | 10.3  | 1.7   | 71.7    | 5.1                         | 0.0                | 11.3  | 100.0 | 326             |
| 20-34                        | 11.5  | 2.1   | 74.2    | 3.0                         | 0.1                | 9.0   | 100.0 | 2,380           |
| 35-49                        | 13.8  | 0.0   | 68.5    | 4.8                         | 0.0                | 12.9  | 100.0 | 238             |
| <b>Birth order</b>           |   |       |         |                             |                    |   |       |                 |
| 1                            | 13.5  | 2.2   | 73.8    | 2.2                         | 0.2                | 8.1   | 100.0 | 1,204           |
| 2-3                          | 10.2  | 2.2   | 74.9    | 2.8                         | 0.0                | 9.8   | 100.0 | 1,310           |
| 4-5                          | 9.8   | 0.0   | 70.3    | 7.7                         | 0.0                | 12.2  | 100.0 | 346             |
| 6+                           | 11.9  | 0.0   | 59.3    | 11.2                        | 0.0                | 17.7  | 100.0 | 86              |
| <b>Place of delivery</b>     |   |       |         |                             |                    |   |       |                 |
| Health facility              | 12.9  | 2.0   | 79.6    | 0.1                         | 0.1                | 5.4   | 100.0 | 2,614           |
| Elsewhere                    | 1.3   | 1.0   | 25.1    | 30.0                        | 0.0                | 42.7  | 100.0 | 329             |
| <b>Residence</b>             |   |       |         |                             |                    |   |       |                 |
| Urban                        | 26.1  | 7.9   | 63.7    | 0.4                         | 0.0                | 1.9   | 100.0 | 414             |
| Rural                        | 9.2   | 0.9   | 75.1    | 3.9                         | 0.1                | 10.8  | 100.0 | 2,531           |
| <b>Province</b>              |   |       |         |                             |                    |   |       |                 |
| Banteay Meanchey             | 6.6   | 1.1   | 81.6    | 0.0                         | 0.0                | 10.7  | 100.0 | 120             |
| Kampong Cham                 | 25.0  | 1.5   | 53.7    | 2.5                         | 0.0                | 17.3  | 100.0 | 418             |
| Kampong Chhnang              | 1.6   | 0.0   | 98.4    | 0.0                         | 0.0                | 0.0   | 100.0 | 111             |
| Kampong Speu                 | 2.1   | 0.4   | 82.8    | 5.5                         | 0.6                | 8.6   | 100.0 | 182             |
| Kampong Thom                 | 3.8   | 0.0   | 82.0    | 14.2                        | 0.0                | 0.0   | 100.0 | 141             |
| Kandal                       | 8.7   | 0.3   | 76.0    | 0.7                         | 0.0                | 14.3  | 100.0 | 193             |
| Kratie                       | 9.2   | 0.0   | 53.8    | 28.8                        | 0.0                | 8.2   | 100.0 | 107             |
| Phnom Penh                   | 28.6  | 16.7  | 52.9    | 1.8                         | 0.0                | 0.0   | 100.0 | 257             |
| Prey Veng                    | 4.8   | 0.0   | 93.9    | 0.0                         | 0.0                | 1.3   | 100.0 | 194             |
| Pursat                       | 3.4   | 0.0   | 89.9    | 2.5                         | 0.0                | 4.2   | 100.0 | 122             |
| Siem Reap                    | 15.7  | 0.0   | 72.1    | 0.0                         | 0.0                | 12.1  | 100.0 | 182             |
| Svay Rieng                   | 9.3   | 0.9   | 79.0    | 0.9                         | 0.0                | 9.9   | 100.0 | 108             |
| Takeo                        | 20.7  | 1.0   | 73.8    | 0.9                         | 0.0                | 3.6   | 100.0 | 164             |
| Otdar Meanchey               | 2.2   | 0.0   | 87.6    | 4.3                         | 0.0                | 5.8   | 100.0 | 54              |
| Battambang/Pailin            | 6.5   | 0.0   | 89.0    | 0.0                         | 0.0                | 4.5   | 100.0 | 247             |
| Kampot/Kep                   | 3.3   | 0.0   | 87.3    | 2.4                         | 0.9                | 6.1   | 100.0 | 116             |
| Preah Sihanouk/<br>Koh Kong  | 9.7   | 1.7   | 82.8    | 0.6                         | 0.0                | 5.1   | 100.0 | 61              |
| Preah Vihear/<br>Stung Treng | 2.1   | 0.0   | 54.6    | 11.4                        | 0.0                | 31.8  | 100.0 | 92              |
| Mondul Kiri/<br>Ratanak Kiri | 2.7   | 0.0   | 35.4    | 1.2                         | 0.0                | 60.8  | 100.0 | 75              |
| <b>Education</b>             |   |       |         |                             |                    |   |       |                 |
| No education                 | 6.8   | 0.0   | 63.9    | 9.1                         | 0.0                | 20.2  | 100.0 | 366             |
| Primary                      | 8.9   | 1.2   | 76.2    | 3.8                         | 0.1                | 9.7   | 100.0 | 1,491           |
| Secondary and higher         | 16.8  | 3.5   | 73.0    | 0.9                         | 0.0                | 5.8   | 100.0 | 1,088           |
| <b>Wealth quintile</b>       |   |       |         |                             |                    |   |       |                 |
| Lowest                       | 7.4   | 0.9   | 66.8    | 9.2                         | 0.0                | 15.7  | 100.0 | 694             |
| Second                       | 6.7   | 0.3   | 77.3    | 3.2                         | 0.2                | 12.3  | 100.0 | 589             |
| Middle                       | 8.9   | 0.4   | 82.0    | 2.3                         | 0.2                | 6.3   | 100.0 | 565             |
| Fourth                       | 11.7  | 1.8   | 78.1    | 0.6                         | 0.0                | 7.8   | 100.0 | 536             |
| Highest                      | 24.3  | 6.5   | 64.7    | 0.2                         | 0.0                | 4.4   | 100.0 | 560             |
| <b>Total</b>                 | 11.6  | 1.9   | 73.5    | 3.4                         | 0.1                | 9.6   | 100.0 | 2,944           |

<sup>1</sup> Includes women who received a checkup after 41 days

Table 13.8.1 shows the timing of the first postnatal checkup for newborns born in the past two years. Seventy-seven percent of newborns received postnatal care within the crucial first two days of delivery, with 68 percent receiving care within four hours of delivery. About 23 percent of newborns received no postnatal care.

Postnatal care for newborns was more likely to be provided in urban areas (80 percent) than in rural areas (75 percent) during the first two days after delivery. Newborns whose mothers had a secondary education or higher (81 percent) were more likely to receive postnatal care within two days of delivery than those whose mothers had either no schooling (61 percent) or only a primary school education (77 percent). Only 46 percent of babies who were not delivered in a health facility received a postnatal checkup.

**Table 13.8.1 Timing of first postnatal checkup for the newborn**

Percent distribution of last births in the two years preceding the survey by time after birth of first postnatal checkup, and the percentage of births with a postnatal checkup in the first two days after birth, according to background characteristics, Cambodia 2014

| Background characteristic    | Time after birth of newborn's first postnatal checkup |           |            |          |          |                    | No postnatal checkup <sup>1</sup> | Total | Percentage of births with a postnatal checkup in the first two days after birth | Number of births |
|------------------------------|---|-----------|------------|----------|----------|--------------------|-----------------------------------|-------|---|------------------|
|                              | Less than 1 hour                                      | 1-3 hours | 4-23 hours | 1-2 days | 3-6 days | Don't know/missing |                                   |       |   |                  |
| <b>Mother's age at birth</b> |   |           |            |          |          |                    |                                   |       |   |                  |
| <20                          | 21.5  | 37.4      | 4.9        | 3.7      | 0.3      | 0.3                | 31.9                              | 100.0 | 67.5  | 326              |
| 20-34                        | 25.3  | 44.2      | 6.1        | 2.4      | 0.2      | 0.9                | 20.9                              | 100.0 | 78.1  | 2,337            |
| 35-49                        | 23.3  | 39.8      | 5.9        | 4.2      | 0.8      | 0.8                | 25.0                              | 100.0 | 73.3  | 236              |
| <b>Birth order</b>           |   |           |            |          |          |                    |                                   |       |   |                  |
| 1                            | 23.9  | 43.1      | 6.8        | 2.8      | 0.3      | 0.5                | 22.5                              | 100.0 | 76.7  | 1,193            |
| 2-3                          | 26.9  | 43.1      | 5.7        | 2.1      | 0.2      | 1.1                | 20.9                              | 100.0 | 78.1  | 1,299            |
| 4-5                          | 18.7  | 44.5      | 4.7        | 3.1      | 0.0      | 1.2                | 27.7                              | 100.0 | 71.3  | 321              |
| 6+                           | 24.4  | 37.2      | 2.3        | 7.0      | 1.2      | 1.2                | 26.7                              | 100.0 | 70.9  | 86               |
| <b>Place of delivery</b>     |   |           |            |          |          |                    |                                   |       |   |                  |
| Health facility              | 25.8  | 46.3      | 6.5        | 2.2      | 0.2      | 0.9                | 18.1                              | 100.0 | 81.0  | 2,534            |
| Elsewhere                    | 17.0  | 20.6      | 1.9        | 6.0      | 0.8      | 0.8                | 52.7                              | 100.0 | 45.9  | 364              |
| <b>Residence</b>             |   |           |            |          |          |                    |                                   |       |   |                  |
| Urban                        | 28.4  | 39.0      | 10.2       | 2.4      | 0.5      | 0.4                | 19.1                              | 100.0 | 80.1  | 792              |
| Rural                        | 23.3  | 44.6      | 4.3        | 2.8      | 0.2      | 1.0                | 23.8                              | 100.0 | 75.2  | 2,107            |
| <b>Province</b>              |   |           |            |          |          |                    |                                   |       |   |                  |
| Banteay Meanchey             | 1.5   | 2.9       | 0.0        | 0.7      | 0.7      | 0.7                | 93.4                              | 100.0 | 5.1   | 136              |
| Kampong Cham                 | 43.6  | 16.4      | 4.8        | 2.4      | 0.0      | 0.0                | 32.7                              | 100.0 | 67.3  | 165              |
| Kampong Chhnang              | 11.8  | 85.4      | 1.4        | 0.0      | 0.0      | 0.0                | 1.4                               | 100.0 | 98.6  | 144              |
| Kampong Speu                 | 31.4  | 44.0      | 5.0        | 0.0      | 0.0      | 0.6                | 18.9                              | 100.0 | 80.5  | 159              |
| Kampong Thom                 | 27.9  | 63.9      | 0.0        | 2.7      | 0.0      | 2.7                | 2.7                               | 100.0 | 96.6  | 147              |
| Kandal                       | 28.0  | 36.4      | 7.6        | 6.8      | 0.0      | 0.0                | 21.2                              | 100.0 | 78.8  | 118              |
| Kratie                       | 44.4  | 27.5      | 2.6        | 12.7     | 0.5      | 0.5                | 11.6                              | 100.0 | 87.8  | 189              |
| Phnom Penh                   | 22.5  | 32.4      | 37.9       | 2.2      | 0.5      | 0.0                | 4.4                               | 100.0 | 95.1  | 182              |
| Prey Veng                    | 29.1  | 60.6      | 1.6        | 1.6      | 0.0      | 0.8                | 6.3                               | 100.0 | 92.9  | 127              |
| Pursat                       | 25.0  | 50.6      | 4.5        | 1.9      | 0.0      | 0.6                | 17.3                              | 100.0 | 82.1  | 156              |
| Siem Reap                    | 6.1   | 51.0      | 10.9       | 2.7      | 0.7      | 6.8                | 21.8                              | 100.0 | 70.7  | 147              |
| Svay Rieng                   | 19.3  | 55.6      | 3.0        | 1.5      | 1.5      | 0.0                | 19.3                              | 100.0 | 79.3  | 135              |
| Takeo                        | 25.0  | 58.1      | 7.3        | 0.8      | 0.8      | 0.0                | 8.1                               | 100.0 | 91.1  | 124              |
| Otdar Meanchey               | 6.4   | 75.8      | 2.5        | 0.6      | 0.6      | 0.0                | 14.0                              | 100.0 | 85.4  | 157              |
| Battambang/Pailin            | 45.6  | 31.6      | 8.1        | 0.7      | 0.0      | 2.9                | 11.0                              | 100.0 | 86.0  | 136              |
| Kampot/Kep                   | 12.0  | 69.6      | 7.2        | 1.6      | 0.0      | 0.8                | 8.8                               | 100.0 | 91.2  | 125              |
| Preah Sihanouk/<br>Koh Kong  | 48.6  | 38.9      | 1.4        | 1.4      | 0.0      | 0.7                | 9.0                               | 100.0 | 90.3  | 144              |
| Preah Vihear/<br>Stung Treng | 31.4  | 29.5      | 2.9        | 6.3      | 0.0      | 0.0                | 30.0                              | 100.0 | 70.0  | 207              |
| Mondul Kiri/<br>Ratanak Kiri | 6.0   | 16.4      | 0.5        | 0.5      | 0.0      | 0.0                | 76.6                              | 100.0 | 23.4  | 201              |
| <b>Mother's education</b>    |   |           |            |          |          |                    |                                   |       |   |                  |
| No education                 | 19.0  | 37.7      | 2.2        | 2.4      | 0.5      | 0.8                | 37.4                              | 100.0 | 61.2  | 369              |
| Primary                      | 25.1  | 44.2      | 4.9        | 2.8      | 0.3      | 0.9                | 21.8                              | 100.0 | 77.2  | 1,375            |
| Secondary and higher         | 26.1  | 43.5      | 8.3        | 2.6      | 0.2      | 0.9                | 18.5                              | 100.0 | 80.6  | 1,155            |
| <b>Wealth quintile</b>       |   |           |            |          |          |                    |                                   |       |   |                  |
| Lowest                       | 21.9  | 43.1      | 2.8        | 3.4      | 0.4      | 0.7                | 27.6                              | 100.0 | 71.5  | 680              |
| Second                       | 22.9  | 45.1      | 2.8        | 2.2      | 0.2      | 1.5                | 25.3                              | 100.0 | 73.6  | 545              |
| Middle                       | 24.8  | 48.1      | 4.9        | 2.9      | 0.0      | 0.4                | 18.8                              | 100.0 | 80.7  | 451              |
| Fourth                       | 26.0  | 41.8      | 5.9        | 3.1      | 0.2      | 1.2                | 21.9                              | 100.0 | 76.8  | 512              |
| Highest                      | 27.7  | 39.2      | 12.1       | 1.8      | 0.4      | 0.6                | 18.1                              | 100.0 | 80.9  | 711              |
| <b>Total</b>                 | 24.7  | 43.1      | 5.9        | 2.7      | 0.3      | 0.9                | 22.5                              | 100.0 | 76.5  | 2,899            |

Note: Total includes 1 case for which information on place of delivery is missing.

<sup>1</sup> Includes newborns who received a checkup after the first week

Table 13.8.2 presents information on the provider of postnatal care for newborns who were delivered in the two years preceding the survey. Nearly all newborns receiving postnatal care received it from a health professional (midwife, doctor, or nurse), and only 4 percent received postnatal care from traditional birth attendants. Postnatal care was more likely to be provided by a health professional in urban areas (80 percent) than in rural areas (75 percent). Similarly, babies whose mothers had a secondary education or higher (81 percent) were much more likely to receive postnatal care from a trained health professional than babies whose mothers had either no schooling (61 percent) or only a primary school education (77 percent).

**Table 13.8.2 Type of provider of first postnatal checkup for the newborn**

Percent distribution of last births in the two years preceding the survey by type of provider of the newborn's first postnatal health check during the two days after the last live birth, according to background characteristics, Cambodia 2014

| Background characteristic    | Type of health provider of newborn's first postnatal checkup |               |                             | No postnatal checkup in the first two days after birth, don't know or missing | Total        | Number of births |
|------------------------------|--|---------------|-----------------------------|---|--------------|------------------|
|                              | Doctor/nurse/ midwife  | Nurse/midwife | Traditional birth attendant |   |              |                  |
| <b>Mother's age at birth</b> |  |               |                             |   |              |                  |
| <20                          | 61.0   | 1.2           | 5.2                         | 32.5  | 100.0        | 326              |
| 20-34                        | 73.6   | 1.5           | 3.0                         | 21.9  | 100.0        | 2,337            |
| 35-49                        | 66.9   | 0.4           | 5.9                         | 26.7  | 100.0        | 236              |
| <b>Birth order</b>           |  |               |                             |   |              |                  |
| 1                            | 72.5   | 1.8           | 2.3                         | 23.3  | 100.0        | 1,193            |
| 2-3                          | 73.8   | 1.4           | 2.8                         | 21.9  | 100.0        | 1,299            |
| 4-5                          | 63.6   | 0.3           | 7.5                         | 28.7  | 100.0        | 321              |
| 6+                           | 57.0   | 0.0           | 14.0                        | 29.1  | 100.0        | 86               |
| <b>Place of delivery</b>     |  |               |                             |   |              |                  |
| Health facility              | 79.4   | 1.6           | 0.0                         | 19.0  | 100.0        | 2,534            |
| Elsewhere                    | 18.1   | 0.3           | 27.5                        | 54.1  | 100.0        | 364              |
| <b>Residence</b>             |  |               |                             |   |              |                  |
| Urban                        | 75.8   | 3.4           | 0.9                         | 19.9  | 100.0        | 792              |
| Rural                        | 70.1   | 0.7           | 4.5                         | 24.8  | 100.0        | 2,107            |
| <b>Province</b>              |  |               |                             |   |              |                  |
| Banteay Meanchey             | 5.1  | 0.0           | 0.0                         | 94.9  | 100.0        | 136              |
| Kampong Cham                 | 64.2   | 0.6           | 2.4                         | 32.7  | 100.0        | 165              |
| Kampong Chhnang              | 98.6   | 0.0           | 0.0                         | 1.4   | 100.0        | 144              |
| Kampong Speu                 | 74.8   | 1.3           | 4.4                         | 19.5  | 100.0        | 159              |
| Kampong Thom                 | 84.4   | 0.0           | 12.2                        | 3.4   | 100.0        | 147              |
| Kandal                       | 78.8   | 0.0           | 0.0                         | 21.2  | 100.0        | 118              |
| Kratie                       | 67.2   | 0.0           | 20.6                        | 12.2  | 100.0        | 189              |
| Phnom Penh                   | 74.7   | 18.7          | 1.6                         | 4.9   | 100.0        | 182              |
| Prey Veng                    | 92.9   | 0.0           | 0.0                         | 7.1   | 100.0        | 127              |
| Pursat                       | 80.1   | 0.0           | 1.9                         | 17.9  | 100.0        | 156              |
| Siem Reap                    | 70.7   | 0.0           | 0.0                         | 29.3  | 100.0        | 147              |
| Svay Rieng                   | 77.8   | 1.5           | 0.0                         | 20.7  | 100.0        | 135              |
| Takeo                        | 89.5   | 0.8           | 0.8                         | 8.9   | 100.0        | 124              |
| Otdar Meanchey               | 82.8   | 0.0           | 2.5                         | 14.6  | 100.0        | 157              |
| Battambang/Pailin            | 86.0   | 0.0           | 0.0                         | 14.0  | 100.0        | 136              |
| Kampot/Kep                   | 91.2   | 0.0           | 0.0                         | 8.8   | 100.0        | 125              |
| Preah Sihanouk/<br>Koh Kong  | 87.5   | 0.7           | 2.1                         | 9.7   | 100.0        | 144              |
| Preah Vihear/<br>Stung Treng | 61.4   | 0.0           | 8.7                         | 30.0  | 100.0        | 207              |
| Mondul Kiri/<br>Ratanak Kiri | 22.9   | 0.0           | 0.5                         | 76.6  | 100.0        | 201              |
| <b>Mother's education</b>    |  |               |                             |   |              |                  |
| No education                 | 52.8   | 0.0           | 8.4                         | 38.8  | 100.0        | 369              |
| Primary                      | 72.1   | 0.7           | 4.5                         | 22.8  | 100.0        | 1,375            |
| Secondary and higher         | 77.1   | 2.8           | 0.7                         | 19.4  | 100.0        | 1,155            |
| <b>Wealth quintile</b>       |  |               |                             |   |              |                  |
| Lowest                       | 61.9   | 0.1           | 9.4                         | 28.5  | 100.0        | 680              |
| Second                       | 68.8   | 0.4           | 4.4                         | 26.4  | 100.0        | 545              |
| Middle                       | 78.9   | 0.2           | 1.6                         | 19.3  | 100.0        | 451              |
| Fourth                       | 74.8   | 1.2           | 0.8                         | 23.2  | 100.0        | 512              |
| Highest                      | 76.2   | 4.4           | 0.3                         | 19.1  | 100.0        | 711              |
| <b>Total</b>                 | <b>71.6</b>  | <b>1.4</b>    | <b>3.5</b>                  | <b>23.5</b>   | <b>100.0</b> | <b>2,899</b>     |

Note: Total includes 1 case for which information on place of delivery is missing.



### 13.4 PERCEIVED PROBLEMS IN ACCESSING WOMEN'S HEALTH CARE

Many factors can prevent women from getting medical advice or treatment for themselves. In the 2014 CDHS, women were asked about various problems they might face in accessing health care. Table 13.9 shows that 75 percent of women reported having one or more problems in accessing health care for themselves. This figure is similar to that reported by women in 2010 (72 percent).

Table 13.9 Problems in accessing health care

Percentage of women age 15-49 who reported that they have serious problems in accessing health care for themselves when they are sick, by type of problem, according to background characteristics, Cambodia 2014

| Background characteristic        | Problems in accessing health care      |                             |                             |                         |  | Number of women |
|----------------------------------|--|-----------------------------|-----------------------------|-------------------------|--|-----------------|
|                                  | Getting permission to go for treatment | Getting money for treatment | Distance to health facility | Not wanting to go alone | At least one problem accessing health care |                 |
| <b>Age</b>                       |  |                             |                             |                         |  |                 |
| 15-19                            | 25.1                                   | 64.0                        | 34.4                        | 55.8                    | 78.7                                       | 2,893           |
| 20-34                            | 20.1                                   | 62.0                        | 33.3                        | 42.6                    | 71.8                                       | 8,899           |
| 35-49                            | 21.5                                   | 68.2                        | 37.8                        | 44.4                    | 76.6                                       | 5,786           |
| <b>Number of living children</b> |  |                             |                             |                         |  |                 |
| 0                                | 21.8                                   | 61.2                        | 31.9                        | 49.1                    | 73.9                                       | 5,698           |
| 1-2                              | 21.3                                   | 63.4                        | 35.0                        | 42.8                    | 72.1                                       | 6,622           |
| 3-4                              | 20.4                                   | 66.1                        | 36.5                        | 42.4                    | 75.7                                       | 3,893           |
| 5+                               | 22.8                                   | 77.4                        | 43.0                        | 50.6                    | 85.8                                       | 1,365           |
| <b>Marital status</b>            |  |                             |                             |                         |  |                 |
| Never married                    | 22.6                                   | 61.0                        | 31.4                        | 50.7                    | 74.1                                       | 4,428           |
| Married or living together       | 20.9                                   | 64.8                        | 36.1                        | 43.7                    | 74.4                                       | 11,898          |
| Divorced/separated/widowed       | 21.8                                   | 72.1                        | 36.5                        | 41.7                    | 77.3                                       | 1,252           |
| <b>Employed last 12 months</b>   |  |                             |                             |                         |  |                 |
| Not employed                     | 20.8                                   | 63.9                        | 35.6                        | 47.8                    | 75.4                                       | 3,600           |
| Employed for cash                | 21.4                                   | 63.7                        | 33.4                        | 43.4                    | 73.3                                       | 12,702          |
| Employed not for cash            | 22.8                                   | 72.9                        | 48.6                        | 57.9                    | 84.2                                       | 1,273           |
| <b>Residence</b>                 |  |                             |                             |                         |  |                 |
| Urban                            | 10.6                                   | 44.5                        | 14.4                        | 26.5                    | 54.7                                       | 3,251           |
| Rural                            | 23.8                                   | 68.9                        | 39.6                        | 49.6                    | 79.0                                       | 14,327          |
| <b>Province</b>                  |  |                             |                             |                         |  |                 |
| Banteay Meanchey                 | 76.2                                   | 88.8                        | 74.1                        | 77.1                    | 93.1                                       | 689             |
| Kampong Cham                     | 27.0                                   | 88.4                        | 51.4                        | 72.4                    | 97.7                                       | 2,021           |
| Kampong Chhnang                  | 11.0                                   | 77.2                        | 15.3                        | 45.9                    | 81.0                                       | 662             |
| Kampong Speu                     | 26.6                                   | 85.2                        | 43.0                        | 53.4                    | 91.0                                       | 1,196           |
| Kampong Thom                     | 33.4                                   | 90.0                        | 25.3                        | 26.9                    | 91.1                                       | 851             |
| Kandal                           | 5.0                                    | 55.5                        | 25.3                        | 39.1                    | 70.2                                       | 1,330           |
| Kratie                           | 22.0                                   | 67.0                        | 53.3                        | 51.5                    | 82.4                                       | 488             |
| Phnom Penh                       | 2.1                                    | 33.7                        | 5.4                         | 13.4                    | 41.4                                       | 1,994           |
| Prey Veng                        | 38.3                                   | 43.8                        | 23.3                        | 24.6                    | 48.0                                       | 1,188           |
| Pursat                           | 31.5                                   | 84.9                        | 59.4                        | 58.7                    | 90.9                                       | 631             |
| Siem Reap                        | 19.4                                   | 39.2                        | 25.0                        | 51.4                    | 63.8                                       | 1,137           |
| Svay Rieng                       | 5.9                                    | 41.3                        | 45.7                        | 56.6                    | 66.1                                       | 654             |
| Takeo                            | 37.5                                   | 76.0                        | 46.4                        | 50.4                    | 80.7                                       | 1,082           |
| Otdar Meanchey                   | 29.5                                   | 72.8                        | 50.0                        | 38.4                    | 76.7                                       | 294             |
| Battambang/Pailin                | 3.4                                    | 54.8                        | 27.2                        | 38.5                    | 71.1                                       | 1,333           |
| Kampot/Kep                       | 11.0                                   | 82.5                        | 38.3                        | 47.6                    | 85.1                                       | 770             |
| Preah Sihanouk/Koh Kong          | 38.1                                   | 71.2                        | 49.6                        | 56.4                    | 86.3                                       | 422             |
| Preah Vihear/Stung Treng         | 14.8                                   | 57.4                        | 42.2                        | 54.0                    | 75.0                                       | 462             |
| Mondul Kiri/Ratanak Kiri         | 7.8                                    | 38.3                        | 29.8                        | 33.1                    | 55.6                                       | 372             |
| <b>Education</b>                 |  |                             |                             |                         |  |                 |
| No education                     | 27.3                                   | 74.5                        | 49.0                        | 55.3                    | 84.7                                       | 2,250           |
| Primary                          | 23.5                                   | 70.1                        | 39.2                        | 47.4                    | 79.6                                       | 8,281           |
| Secondary and higher             | 17.0                                   | 54.4                        | 25.5                        | 39.7                    | 65.3                                       | 7,047           |
| <b>Wealth quintile</b>           |  |                             |                             |                         |  |                 |
| Lowest                           | 26.1                                   | 79.2                        | 50.9                        | 58.3                    | 87.8                                       | 3,143           |
| Second                           | 25.9                                   | 72.8                        | 44.2                        | 51.9                    | 82.8                                       | 3,314           |
| Middle                           | 24.9                                   | 72.9                        | 39.2                        | 49.1                    | 81.4                                       | 3,381           |
| Fourth                           | 22.1                                   | 62.3                        | 32.0                        | 44.5                    | 72.9                                       | 3,612           |
| Highest                          | 10.7                                   | 41.2                        | 14.5                        | 27.9                    | 53.5                                       | 4,128           |
| <b>Total</b>                     | 21.4                                   | 64.4                        | 35.0                        | 45.4                    | 74.5                                       | 17,578          |



The most frequently cited problem in accessing health care was not having money for treatment (64 percent), followed by not wanting to go to the facility alone (45 percent). Thirty-five percent of women cited distance to the health facility as a problem, and 21 percent reported that getting permission to go to a facility was a problem. As expected, rural women were more likely than urban women to report each of the factors as being a problem, especially distance to a health facility and getting money for treatment. The proportion of women reporting each of these problems as a serious obstacle to accessing health care decreases with increasing education and wealth.

**Key Findings**

- Seventy-three percent of children age 12-23 months are fully immunized.
- Six percent of children under age 5 showed symptoms of acute respiratory infection in the two weeks before the survey, and 81 percent of these children received antibiotics.
- Twenty-eight percent of children under age 5 had a fever in the two weeks before the survey, and 61 percent of them were taken to a health facility or provider for advice or treatment.
- Thirteen percent of children under age 5 had diarrhea in the two weeks before the survey.
- Fifty-six percent of children with diarrhea were taken to a health facility or provider for advice or treatment.

This chapter presents findings on several areas of importance to child health: characteristics of the neonate (birth weight and size at birth), vaccination status of children, and important childhood illnesses and their treatment. Information on birth weight and birth size is important for the design and implementation of programs aimed at reducing neonatal and infant mortality. Many early childhood deaths can be prevented by immunizing children against preventable diseases and by ensuring that children receive prompt and appropriate treatment when they become ill.

**14.1 CHILD'S SIZE AT BIRTH**

Birth weight is one of the major determinants of infant and child health and mortality. Children whose birth weight is less than 2.5 kilograms, or children reported to be “very small” or “smaller than average,” are considered to have a higher than average risk of early childhood death. For births in the five years preceding the 2014 CDHS, birth weight was recorded in the questionnaire if available from either a written record or the mother’s recall. Because birth weight may not be known for many babies, the mother’s estimate of the baby’s size at birth was also obtained. Even though such an estimate is subjective, it can be a useful proxy for the weight of the child. Table 14.1 presents information on child’s size at birth according to background characteristics.

Table 14.1 shows that 91 percent of babies were weighed at birth; this represents a significant increase since the 2010 CDHS, which reported that 72 percent of babies were weighed at birth. Among those births for which the mother was able to report the baby’s weight, 8 percent were classified as low birth weight (less than 2.5 kilograms at birth), which is the same as the figure reported in 2010. Low birth weight was more common among children of birth order six or higher (13 percent) and first-born children (10 percent) than among children of birth orders two through five (6-7 percent). Children born to mothers who smoke were more likely to be of low birth weight (11 percent) than children born to mothers who do not smoke (8 percent). The proportion of low birth weight births varied somewhat across provinces (from 4 percent to 12 percent). However, the proportion with a reported birth weight varied substantially, from a low of 56 percent in Mondul Kiri/Ratanak Kiri to a high of just under 100 percent in Kampong Chhnang.

Table 14.1 also includes information on the mother’s assessment of the baby’s size at birth. In the absence of birth weight, a mother’s subjective assessment of the size of the baby at birth may be useful. However, this assessment may vary among respondents because it is based on the mother’s own perception of what is small, average, or large for a baby and not on a uniform definition. Eighty-eight percent of

infants were considered by their mothers to be average or larger than average in size. Nine percent were perceived as smaller than average, and 3 percent were considered very small. For less than 1 percent of births, mothers did not remember the size of their baby at birth.

Table 14.1 Child's size and weight at birth

Percent distribution of live births in the five years preceding the survey by mother's estimate of baby's size at birth, percentage of live births in the five years preceding the survey that have a reported birth weight, and among live births in the five years preceding the survey with a reported birth weight, percentage less than 2.5 kg, according to background characteristics, Cambodia 2014

| Background characteristic      | Percent distribution of all live births by size of child at birth |                      |                   |                    |       | Percentage of all births that have a reported birth weight <sup>1</sup> | Number of births | Percent distribution of births with a reported birth weight |                  |
|--------------------------------|---|----------------------|-------------------|--------------------|-------|---|------------------|---|------------------|
|                                | Very small  | Smaller than average | Average or larger | Don't know/missing | Total |   |                  | Less than 2.5 kg  | Number of births |
| <b>Mother's age at birth</b>   |   |                      |                   |                    |       |   |                  |   |                  |
| <20                            | 3.3   | 10.5                 | 85.9              | 0.3                | 100.0 | 89.5  | 814              | 8.1   | 729              |
| 20-34                          | 2.5   | 8.6                  | 88.1              | 0.8                | 100.0 | 91.5  | 5,777            | 7.8   | 5,289            |
| 35-49                          | 3.8   | 8.9                  | 86.8              | 0.6                | 100.0 | 85.6  | 662              | 8.8   | 567              |
| <b>Birth order</b>             |   |                      |                   |                    |       |   |                  |   |                  |
| 1                              | 3.3   | 11.1                 | 85.2              | 0.5                | 100.0 | 94.6  | 2,822            | 9.9   | 2,670            |
| 2-3                            | 1.8   | 7.4                  | 90.2              | 0.6                | 100.0 | 91.4  | 3,274            | 6.1   | 2,991            |
| 4-5                            | 3.4   | 6.1                  | 89.1              | 1.3                | 100.0 | 84.2  | 833              | 6.7   | 702              |
| 6+                             | 5.3   | 10.8                 | 81.5              | 2.4                | 100.0 | 68.4  | 323              | 12.7  | 221              |
| <b>Mother's smoking status</b> |   |                      |                   |                    |       |   |                  |   |                  |
| Smokes cigarettes/tobacco      | 6.2   | 17.0                 | 75.7              | 1.1                | 100.0 | 47.0  | 215              | 11.1  | 101              |
| Does not smoke                 | 2.6   | 8.6                  | 88.1              | 0.7                | 100.0 | 92.1  | 7,037            | 7.9   | 6,482            |
| <b>Residence</b>               |   |                      |                   |                    |       |   |                  |   |                  |
| Urban                          | 1.7   | 6.8                  | 91.1              | 0.4                | 100.0 | 98.1  | 1,041            | 5.6   | 1,022            |
| Rural                          | 2.9   | 9.2                  | 87.1              | 0.8                | 100.0 | 89.5  | 6,212            | 8.4   | 5,562            |
| <b>Province</b>                |   |                      |                   |                    |       |   |                  |   |                  |
| Banteay Meanchey               | 7.0   | 6.8                  | 83.0              | 3.2                | 100.0 | 94.6  | 253              | 6.6   | 240              |
| Kampong Cham                   | 4.3   | 8.6                  | 85.4              | 1.7                | 100.0 | 92.9  | 1,008            | 6.9   | 936              |
| Kampong Chhnang                | 1.8   | 4.6                  | 93.6              | 0.0                | 100.0 | 99.6  | 248              | 8.9   | 247              |
| Kampong Speu                   | 7.4   | 11.0                 | 81.6              | 0.0                | 100.0 | 90.7  | 469              | 9.3   | 425              |
| Kampong Thom                   | 1.1   | 3.1                  | 95.8              | 0.0                | 100.0 | 85.0  | 337              | 8.4   | 286              |
| Kandal                         | 0.4   | 9.1                  | 90.5              | 0.0                | 100.0 | 93.1  | 523              | 7.6   | 486              |
| Kratie                         | 10.3  | 10.7                 | 79.0              | 0.0                | 100.0 | 70.5  | 269              | 11.5  | 190              |
| Phnom Penh                     | 1.0   | 6.1                  | 92.9              | 0.0                | 100.0 | 98.2  | 626              | 5.7   | 615              |
| Prey Veng                      | 1.2   | 6.7                  | 92.1              | 0.0                | 100.0 | 97.8  | 499              | 9.9   | 488              |
| Pursat                         | 0.3   | 10.7                 | 88.6              | 0.5                | 100.0 | 86.9  | 298              | 4.4   | 259              |
| Siem Reap                      | 2.3   | 16.6                 | 80.5              | 0.6                | 100.0 | 94.5  | 487              | 12.2  | 460              |
| Svay Rieng                     | 3.5   | 6.7                  | 89.4              | 0.4                | 100.0 | 89.3  | 261              | 11.9  | 233              |
| Takeo                          | 1.9   | 3.1                  | 94.5              | 0.5                | 100.0 | 98.4  | 386              | 8.2   | 380              |
| Otdar Meanchey                 | 0.8   | 9.3                  | 89.3              | 0.6                | 100.0 | 94.2  | 137              | 8.5   | 129              |
| Battambang/Pailin              | 0.5   | 9.2                  | 89.0              | 1.4                | 100.0 | 93.5  | 553              | 5.2   | 517              |
| Kampot/Kep                     | 0.9   | 12.3                 | 85.7              | 1.1                | 100.0 | 87.6  | 276              | 6.1   | 241              |
| Preah Sihanouk/<br>Koh Kong    | 1.1   | 6.3                  | 91.7              | 0.9                | 100.0 | 94.1  | 168              | 6.6   | 158              |
| Preah Vihear/<br>Stung Treng   | 2.5   | 5.2                  | 92.4              | 0.0                | 100.0 | 72.1  | 239              | 7.8   | 172              |
| Mondul Kiri/<br>Ratanak Kiri   | 3.7   | 25.0                 | 68.3              | 3.1                | 100.0 | 55.8  | 217              | 9.2   | 121              |
| <b>Mother's education</b>      |   |                      |                   |                    |       |   |                  |   |                  |
| No education                   | 3.9   | 11.7                 | 82.1              | 2.3                | 100.0 | 77.9  | 1,017            | 11.9  | 792              |
| Primary                        | 2.6   | 8.4                  | 88.3              | 0.7                | 100.0 | 90.1  | 3,795            | 7.3   | 3,419            |
| Secondary and higher           | 2.4   | 8.4                  | 89.1              | 0.1                | 100.0 | 97.2  | 2,442            | 7.5   | 2,373            |
| <b>Wealth quintile</b>         |   |                      |                   |                    |       |   |                  |   |                  |
| Lowest                         | 3.8   | 10.1                 | 85.0              | 1.1                | 100.0 | 80.2  | 1,771            | 10.8  | 1,420            |
| Second                         | 2.4   | 9.1                  | 87.6              | 0.9                | 100.0 | 88.1  | 1,453            | 8.2   | 1,279            |
| Middle                         | 2.9   | 9.7                  | 86.7              | 0.7                | 100.0 | 94.0  | 1,362            | 7.3   | 1,280            |
| Fourth                         | 2.7   | 8.0                  | 88.8              | 0.5                | 100.0 | 96.5  | 1,252            | 7.6   | 1,209            |
| Highest                        | 1.5   | 6.9                  | 91.3              | 0.3                | 100.0 | 98.6  | 1,415            | 5.6   | 1,395            |
| Total                          | 2.7   | 8.8                  | 87.7              | 0.7                | 100.0 | 90.8  | 7,253            | 7.9   | 6,584            |

Note: Total includes 1 birth with missing information on mother's smoking status

<sup>1</sup> Based on either a written record or the mother's recall

## 14.2 IMMUNIZATION OF CHILDREN

Universal immunization of children against six vaccine-preventable diseases (namely, tuberculosis, diphtheria, whooping cough, tetanus, polio, and measles) is crucial to reducing infant and child mortality. Data on differences in vaccination coverage among subgroups of the population are of

great assistance for program planning. In addition, information on immunization coverage is important for monitoring and evaluation of the Expanded Program on Immunization.

Similar to the previous CDHS, the 2014 CDHS collected information on vaccination coverage for all living children born in the five years preceding the survey. Guidelines developed by the World Health Organization define children as fully vaccinated when they have received a vaccination against tuberculosis (BCG); three doses each of the diphtheria, pertussis, and tetanus (DPT) and polio vaccines; and a measles vaccination by age 12 months. BCG should be given at birth or at first clinical contact; DPT and polio require three vaccinations at approximately age 4, 8, and 12 weeks. Measles should be given at or soon after age 9 months. In 2006, the Cambodian National Immunization Program replaced the DPT vaccine with a tetravalent vaccine that includes DPT and *Haemophilus influenzae* type b vaccine (Hib) and a pentavalent vaccine that includes DPT, Hib, and hepatitis B vaccine (HepB). The program also administers HepB vaccine at birth or at first clinical contact (HB 0).

Information on vaccination coverage was collected in two ways: from vaccination cards shown to the interviewer and from mothers' verbal reports. If cards were available, the interviewer copied the vaccination dates directly onto the questionnaire. When there was no vaccination card for the child or if a vaccine had not been recorded on the card as being given, the respondent was asked to recall the vaccines given to her child. The top three rows of Table 14.2 show the percentage of children age 12-23 months who have received various vaccinations by source of information, that is, from the vaccination card or a mother's report. Data are presented only for those children who have reached the age by which they should be fully vaccinated (i.e., age 12-23 months) so as to provide estimates of the most recent vaccination coverage.

Table 14.2 Vaccinations by source of information

Percentage of children age 12-23 months who received specific vaccines at any time before the survey, by source of information (vaccination card or mother's report), and percentage vaccinated by age 12 months, Cambodia 2014

| Source of information                           | BCG  | Tetravalent/pentavalent |      |      | HB 0 <sup>1</sup> | Polio |      |      | Measles | All basic vaccina-<br>tions <sup>2</sup> | No vaccina-<br>tions | Number<br>of<br>children |
|---|------|-------------------------|------|------|-------------------|-------|------|------|---------|--|----------------------|--------------------------|
|   |      | 1                       | 2    | 3    |                   | 1     | 2    | 3    |         |  |                      |                          |
| <b>Vaccinated at any<br/>time before survey</b> |      |                         |      |      |                   |       |      |      |         |  |                      |                          |
| Vaccination card                                | 76.4 | 75.4                    | 72.8 | 68.6 | 65.1              | 75.9  | 72.0 | 67.2 | 63.4    | 60.0                                     | 0.0                  | 1,129                    |
| Mother's report                                 | 19.7 | 18.6                    | 17.6 | 15.1 | 17.7              | 18.9  | 17.6 | 15.1 | 15.2    | 13.5                                     | 2.4                  | 332                      |
| Either source                                   | 96.1 | 94.0                    | 90.4 | 83.7 | 82.8              | 94.8  | 89.5 | 82.3 | 78.6    | 73.4                                     | 2.4                  | 1,460                    |
| Vaccinated by age<br>12 months <sup>3</sup>     | 95.9 | 93.6                    | 89.7 | 81.9 | 82.6              | 94.5  | 88.8 | 80.2 | 70.3    | 65.3                                     | 2.6                  | 1,460                    |

<sup>1</sup> HB 0 is hepatitis B vaccine given at birth.

<sup>2</sup> BCG, measles, and three doses each of tetravalent/pentavalent and polio vaccine

<sup>3</sup> For children whose information was based on the mother's report, the proportion of vaccinations given during the first year of life was assumed to be the same as for children with a written record of vaccination.

The last row of Table 14.2 shows that two-thirds of children (65 percent) age 12-23 months were fully vaccinated by age 12 months. Nearly all children had received the BCG vaccination and the first two doses of tetravalent/pentavalent vaccine or polio vaccine (89 percent to 96 percent), and 70 percent had been vaccinated against measles. Because the tetravalent/pentavalent and polio vaccines are often administered at the same time, their coverage rates are similar. Eighty-two percent and 80 percent of children received the third doses of tetravalent/pentavalent and polio vaccines, respectively. When looking at the proportion of children who received vaccines at any time before the survey (not necessarily before age 12 months), the percentages are higher, with 73 percent fully vaccinated.

Table 14.3 shows vaccination coverage at any time before the survey among children age 12-23 months by background characteristics. These data may provide certain information for the assessment of the immunization program in reaching out to all population subgroups. The vaccination coverage rates of male and female children are practically the same. Children in urban areas are more likely to be fully vaccinated than those in rural areas (86 percent versus 71 percent). Also, there are substantial differences in coverage across provinces. The percentage of children fully vaccinated is lowest in Mondul

Kiri/Ratanak Kiri (44 percent), Preah Vihear/Stung Treng (56 percent), and Kampong Cham (57 percent). The provinces with the highest proportion of children fully vaccinated are Banteay Meanchey (91 percent), Phnom Penh (89 percent), Battambang/Pailin (89 percent), and Takeo (88 percent).

The percentage of children fully vaccinated increases substantially with increasing mother's education. Children of mothers with a secondary education or higher are much more likely to be fully vaccinated (84 percent) than children whose mothers have no schooling (58 percent). The percentage of children fully vaccinated also increases according to the wealth of the household; children living in the wealthiest households are more likely to be fully vaccinated (91 percent) than children from the poorest households (61 percent).

**Table 14.3 Vaccinations by background characteristics**

Percentage of children age 12-23 months who received specific vaccines at any time before the survey (according to a vaccination card or the mother's report), and percentage with a vaccination card, by background characteristics, Cambodia 2014

| Background characteristic    | BCG    | Tetavalent/pentavalent |        |        | HB 0 <sup>1</sup> | Polio  |        |        | Measles | All basic vaccinations <sup>2</sup> | No vaccinations | Percent-age with a vaccination card seen | Number of children |
|------------------------------|--------|------------------------|--------|--------|-------------------|--------|--------|--------|---------|-------------------------------------|-----------------|--|--------------------|
|                              |        | 1                      | 2      | 3      |                   | 1      | 2      | 3      |         |                                     |                 |  |                    |
| <b>Sex</b>                   |        |                        |        |        |                   |        |        |        |         |                                     |                 |  |                    |
| Male                         | 96.2   | 93.4                   | 90.4   | 83.0   | 81.8              | 94.3   | 90.3   | 82.6   | 79.1    | 73.9                                | 2.6             | 77.2                                     | 750                |
| Female                       | 96.0   | 94.5                   | 90.4   | 84.3   | 83.8              | 95.3   | 88.7   | 82.0   | 78.1    | 73.0                                | 2.2             | 77.4                                     | 711                |
| <b>Birth order</b>           |        |                        |        |        |                   |        |        |        |         |                                     |                 |  |                    |
| 1                            | 98.1   | 94.6                   | 91.5   | 87.2   | 85.1              | 96.7   | 91.5   | 86.5   | 80.9    | 76.0                                | 1.0             | 80.3                                     | 586                |
| 2-3                          | 94.7   | 93.9                   | 90.8   | 83.9   | 81.9              | 94.2   | 89.3   | 82.2   | 79.1    | 74.1                                | 3.3             | 75.3                                     | 648                |
| 4-5                          | 95.6   | 94.9                   | 88.1   | 75.3   | 83.2              | 94.9   | 87.7   | 73.1   | 73.1    | 68.2                                | 2.2             | 74.7                                     | 181                |
| 6+                           | (91.7) | (82.4)                 | (80.6) | (67.2) | (63.6)            | (77.1) | (73.9) | (65.9) | (63.8)  | (52.4)                              | (6.7)           | (78.6)                                   | 45                 |
| <b>Residence</b>             |        |                        |        |        |                   |        |        |        |         |                                     |                 |  |                    |
| Urban                        | 97.6   | 99.1                   | 97.3   | 92.9   | 87.9              | 98.5   | 96.8   | 90.0   | 90.7    | 86.4                                | 0.5             | 71.3                                     | 217                |
| Rural                        | 95.8   | 93.1                   | 89.2   | 82.1   | 81.9              | 94.1   | 88.3   | 80.9   | 76.5    | 71.2                                | 2.7             | 78.3                                     | 1,244              |
| <b>Province</b>              |        |                        |        |        |                   |        |        |        |         |                                     |                 |  |                    |
| Banteay Meanchey             | 96.4   | 96.6                   | 95.4   | 94.0   | 86.3              | 96.6   | 95.4   | 94.0   | 93.4    | 91.3                                | 1.6             | 88.8                                     | 63                 |
| Kampong Cham                 | 95.0   | 81.1                   | 81.1   | 70.6   | 77.1              | 86.6   | 78.7   | 71.1   | 64.1    | 56.8                                | 4.7             | 67.6                                     | 182                |
| Kampong Chhnang              | 100.0  | 98.2                   | 92.9   | 86.3   | 98.3              | 98.2   | 92.9   | 86.3   | 74.6    | 74.6                                | 0.0             | 77.5                                     | 52                 |
| Kampong Speu                 | 97.1   | 97.3                   | 90.1   | 78.2   | 74.5              | 97.3   | 88.4   | 78.2   | 66.5    | 66.5                                | 1.4             | 87.9                                     | 90                 |
| Kampong Thom                 | 97.6   | 94.8                   | 90.3   | 82.0   | 96.0              | 96.4   | 91.9   | 82.0   | 74.1    | 70.9                                | 2.4             | 86.3                                     | 77                 |
| Kandal                       | 100.0  | 100.0                  | 97.3   | 81.5   | 83.9              | 100.0  | 91.3   | 74.1   | 75.2    | 64.5                                | 0.0             | 80.9                                     | 89                 |
| Kratie                       | 86.5   | 89.5                   | 81.8   | 72.8   | 62.3              | 88.6   | 83.9   | 72.5   | 79.7    | 65.1                                | 7.7             | 72.1                                     | 57                 |
| Phnom Penh                   | 98.6   | 100.0                  | 98.6   | 93.1   | 86.3              | 98.6   | 98.2   | 90.0   | 91.0    | 89.1                                | 0.0             | 69.6                                     | 145                |
| Prey Veng                    | 95.2   | 89.8                   | 79.2   | 76.0   | 60.2              | 89.8   | 79.2   | 76.0   | 63.2    | 61.7                                | 4.8             | 68.8                                     | 101                |
| Pursat                       | 95.3   | 94.0                   | 90.6   | 83.3   | 88.0              | 95.6   | 92.2   | 84.5   | 88.9    | 79.7                                | 3.0             | 84.4                                     | 60                 |
| Siem Reap                    | 98.2   | 99.0                   | 93.7   | 90.9   | 95.4              | 99.0   | 93.7   | 86.6   | 85.1    | 78.6                                | 1.0             | 91.9                                     | 100                |
| Svay Rieng                   | 92.4   | 90.9                   | 90.9   | 88.8   | 71.5              | 90.9   | 90.9   | 88.8   | 86.7    | 82.7                                | 5.6             | 72.4                                     | 53                 |
| Takeo                        | 96.5   | 99.8                   | 99.5   | 97.9   | 98.1              | 99.8   | 94.8   | 93.1   | 94.2    | 87.8                                | 0.2             | 89.7                                     | 84                 |
| Otdar Meanchey               | 97.4   | 92.7                   | 85.6   | 83.4   | 77.2              | 94.8   | 87.7   | 81.8   | 85.3    | 75.0                                | 2.6             | 71.7                                     | 27                 |
| Battambang/Pailin            | 99.5   | 98.4                   | 98.4   | 95.4   | 88.5              | 98.4   | 98.4   | 95.4   | 89.6    | 89.2                                | 0.0             | 81.2                                     | 120                |
| Kampot/Kep                   | 94.0   | 93.1                   | 88.6   | 80.0   | 93.8              | 93.1   | 88.6   | 80.0   | 81.1    | 72.0                                | 2.0             | 70.7                                     | 54                 |
| Preah Sihanouk/<br>Koh Kong  | 98.0   | 98.0                   | 96.2   | 92.0   | 93.3              | 98.0   | 96.2   | 89.9   | 86.4    | 82.6                                | 2.0             | 79.7                                     | 28                 |
| Preah Vihear/<br>Stung Treng | 91.9   | 93.1                   | 89.5   | 79.3   | 72.8              | 93.1   | 87.8   | 77.7   | 62.8    | 55.6                                | 1.2             | 74.6                                     | 44                 |
| Mondul Kiri/<br>Ratanak Kiri | 81.4   | 79.7                   | 67.4   | 55.9   | 62.8              | 83.9   | 65.2   | 54.1   | 56.1    | 43.9                                | 10.6            | 41.1                                     | 35                 |
| <b>Mother's education</b>    |        |                        |        |        |                   |        |        |        |         |                                     |                 |  |                    |
| No education                 | 91.6   | 85.4                   | 78.6   | 69.0   | 70.1              | 83.8   | 76.3   | 68.9   | 65.5    | 58.4                                | 5.9             | 73.6                                     | 197                |
| Primary                      | 96.0   | 93.2                   | 88.8   | 80.0   | 83.0              | 94.6   | 88.5   | 78.7   | 75.3    | 69.7                                | 2.8             | 79.1                                     | 732                |
| Secondary and higher         | 97.9   | 98.2                   | 97.0   | 94.1   | 87.1              | 99.1   | 95.9   | 92.1   | 88.0    | 84.2                                | 0.5             | 76.2                                     | 532                |
| <b>Wealth quintile</b>       |        |                        |        |        |                   |        |        |        |         |                                     |                 |  |                    |
| Lowest                       | 93.1   | 88.3                   | 81.1   | 71.6   | 75.2              | 89.1   | 80.5   | 71.7   | 65.9    | 60.9                                | 4.5             | 72.4                                     | 369                |
| Second                       | 92.4   | 91.9                   | 86.7   | 78.3   | 77.9              | 93.1   | 86.0   | 77.0   | 71.7    | 65.4                                | 5.2             | 76.5                                     | 285                |
| Middle                       | 98.8   | 93.1                   | 91.0   | 82.5   | 84.7              | 95.7   | 89.8   | 80.2   | 77.7    | 70.0                                | 0.4             | 84.1                                     | 267                |
| Fourth                       | 99.3   | 99.2                   | 98.0   | 94.3   | 88.3              | 98.7   | 97.7   | 93.7   | 87.6    | 85.2                                | 0.5             | 83.5                                     | 253                |
| Highest                      | 98.3   | 99.4                   | 98.9   | 96.2   | 90.7              | 99.5   | 97.2   | 92.9   | 94.7    | 90.5                                | 0.2             | 72.6                                     | 286                |
| <b>Total</b>                 | 96.1   | 94.0                   | 90.4   | 83.7   | 82.8              | 94.8   | 89.5   | 82.3   | 78.6    | 73.4                                | 2.4             | 77.3                                     | 1,460              |

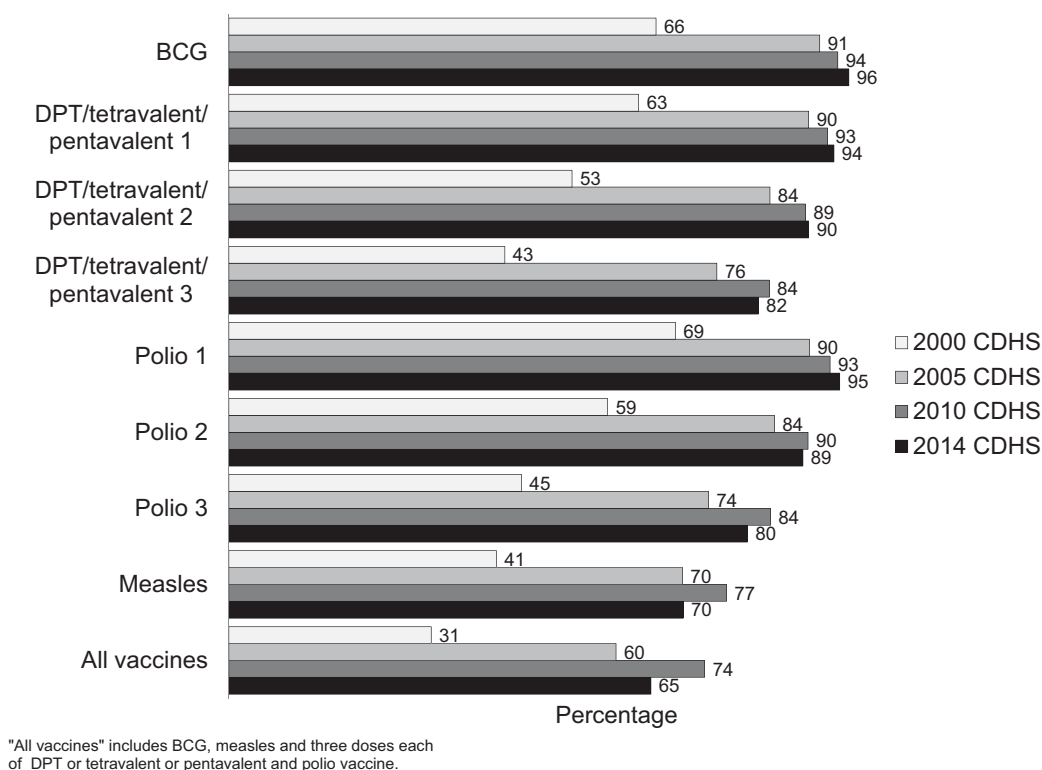
Note: Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> HB 0 is hepatitis B vaccine given at birth.

<sup>2</sup> BCG, measles, and three doses each of tetavalent/pentavalent and polio vaccine

Trends in vaccination coverage can be seen by comparing similarly collected data in the previous CDHS surveys (2000, 2005, and 2010) with data from the 2014 CDHS (Figure 14.1). The data show that full vaccination coverage in Cambodia substantially improved from 2000 to 2005. From 2005 to 2010, vaccination coverage further improved but at a smaller increment than the increase between 2000 and 2005. However, between 2010 and 2014 vaccination coverage has declined, from 74 percent to 65 percent. Examining trends for individual vaccines reveals that the decline in full coverage is largely due to decreases in coverage of measles and polio 3 vaccinations, particularly measles.

**Figure 14.1 Trends in vaccination by age 12 months among children age 12-23 months, 2000-2014**



### 14.3 ACUTE RESPIRATORY INFECTION

Acute respiratory infection (ARI) is one of the leading causes of childhood morbidity and mortality throughout the world. Early diagnosis and treatment with antibiotics can prevent a large proportion of deaths caused by ARI. In the 2014 CDHS, the prevalence of ARI was estimated by asking mothers whether their children under age 5 had been ill with a cough accompanied by short, rapid breathing in the two weeks preceding the survey. These symptoms are compatible with ARI. It should be noted that the morbidity data collected are subjective—that is, they are based on the mother's perception of illness with no validation from medical personnel—and that the prevalence of ARI is subject to seasonality.

Table 14.4 shows the percentage of children under age 5 with symptoms of ARI during the two weeks preceding the survey according to selected background characteristics. Six percent of children under age 5 showed ARI symptoms at some point in the two weeks preceding the survey. Only about 3 percent of children under age 6 months experienced ARI symptoms. The prevalence of ARI increased to 6 percent among children age 6-11 months and 7 percent among those age 12-23 months. After age 23 months, ARI prevalence decreased with increasing age. The prevalence of ARI was significantly higher among children whose mothers smoke (10 percent) than among children whose mothers do not smoke (5 percent). There was only minor variation in the prevalence of ARI symptoms between urban and rural children.

Table 14.4 Prevalence and treatment of symptoms of ARI

Among children under age 5, the percentage who had symptoms of acute respiratory infection (ARI) in the two weeks preceding the survey, and among children with symptoms of ARI, the percentage for whom advice or treatment was sought from a health facility or provider and the percentage who received antibiotics as treatment, according to background characteristics, Cambodia 2014

| Background characteristic                 | Among children under age 5:                  |                    | Among children under age 5 with symptoms of ARI:   |                                     |                    |
|---|--|--------------------|--|-------------------------------------|--------------------|
|   | Percentage with symptoms of ARI <sup>1</sup> | Number of children | Percentage for whom advice or treatment was sought from a health facility or provider <sup>2</sup> | Percentage who received antibiotics | Number of children |
| <b>Age in months</b>                      |  |                    |  |                                     |                    |
| <6  | 2.9  | 736                | *  | *                                   | 22                 |
| 6-11                                      | 5.9  | 761                | (75.9)   | (82.9)                              | 45                 |
| 12-23                                     | 7.4  | 1,460              | 68.8   | 85.2                                | 109                |
| 24-35                                     | 6.0  | 1,368              | 64.6   | 80.2                                | 82                 |
| 36-47                                     | 5.5  | 1,343              | 61.8   | 77.8                                | 73                 |
| 48-59                                     | 4.1  | 1,376              | 78.2   | 80.2                                | 56                 |
| <b>Sex</b>                                |  |                    |  |                                     |                    |
| Male                                      | 5.7  | 3,522              | 62.2   | 77.8                                | 201                |
| Female                                    | 5.3  | 3,523              | 75.9   | 85.0                                | 186                |
| <b>Mother's smoking status</b>            |  |                    |  |                                     |                    |
| Smokes cigarettes/tobacco                 | 10.0   | 202                | *  | *                                   | 20                 |
| Does not smoke                            | 5.4  | 6,842              | 70.1   | 82.1                                | 367                |
| <b>Cooking fuel</b>                       |  |                    |  |                                     |                    |
| Electricity                               | 0.7  | 47                 | na   | na                                  | 0                  |
| LPG                                       | 5.8  | 1,150              | 62.3   | 77.9                                | 67                 |
| Biogas                                    | *  | 1                  | na   | na                                  | 0                  |
| Coal/lignite                              | 5.0  | 554                | (78.7)   | (86.1)                              | 28                 |
| Charcoal                                  | 5.5  | 5,269              | 69.0   | 81.6                                | 290                |
| Wood/straw/agricultural crop <sup>3</sup> | *  | 19                 | *  | *                                   | 2                  |
| No food cooked in household               | *  | 3                  | na   | na                                  | 0                  |
| <b>Residence</b>                          |  |                    |  |                                     |                    |
| Urban                                     | 5.4  | 1,033              | 69.6   | 74.4                                | 56                 |
| Rural                                     | 5.5  | 6,011              | 68.6   | 82.4                                | 332                |
| <b>Province</b>                           |  |                    |  |                                     |                    |
| Banteay Meanchey                          | 5.6  | 250                | *  | *                                   | 14                 |
| Kampong Cham                              | 5.7  | 974                | *  | *                                   | 56                 |
| Kampong Chhnang                           | 11.8   | 236                | (94.6)   | (98.3)                              | 28                 |
| Kampong Speu                              | 3.9  | 457                | *  | *                                   | 18                 |
| Kampong Thom                              | 4.1  | 327                | *  | *                                   | 13                 |
| Kandal                                    | 3.6  | 506                | *  | *                                   | 18                 |
| Kratie                                    | 10.5   | 254                | (59.6)   | (79.3)                              | 27                 |
| Phnom Penh                                | 6.4  | 618                | (62.8)   | (72.9)                              | 39                 |
| Prey Veng                                 | 3.8  | 478                | *  | *                                   | 18                 |
| Pursat                                    | 3.5  | 294                | *  | *                                   | 10                 |
| Siem Reap                                 | 10.2   | 470                | (75.0)   | (82.8)                              | 48                 |
| Svay Rieng                                | 5.5  | 253                | *  | *                                   | 14                 |
| Takeo                                     | 6.5  | 374                | *  | *                                   | 24                 |
| Otdar Meanchey                            | 3.5  | 134                | *  | *                                   | 5                  |
| Battambang/Pailin                         | 3.4  | 545                | *  | *                                   | 18                 |
| Kampot/Kep                                | 4.0  | 272                | *  | *                                   | 11                 |
| Preah Sihanouk/Koh Kong                   | 11.8   | 164                | (78.4)   | (50.4)                              | 19                 |
| Preah Vihear/Stung Treng                  | 1.7  | 228                | *  | *                                   | 4                  |
| Mondul Kiri/Ratanak Kiri                  | 1.3  | 208                | *  | *                                   | 3                  |
| <b>Mother's education</b>                 |  |                    |  |                                     |                    |
| No education                              | 5.3  | 973                | (66.1)   | (76.9)                              | 52                 |
| Primary                                   | 6.5  | 3,687              | 66.8   | 82.3                                | 239                |
| Secondary and higher                      | 4.1  | 2,384              | 74.9   | 81.2                                | 97                 |
| <b>Wealth quintile</b>                    |  |                    |  |                                     |                    |
| Lowest                                    | 7.1  | 1,689              | 67.9   | 89.0                                | 119                |
| Second                                    | 5.3  | 1,403              | 64.9   | 77.2                                | 74                 |
| Middle                                    | 5.0  | 1,332              | 78.1   | 81.1                                | 67                 |
| Fourth                                    | 5.4  | 1,217              | 67.3   | 74.8                                | 66                 |
| Highest                                   | 4.4  | 1,404              | 66.5   | 78.3                                | 61                 |
| <b>Total</b>                              | <b>5.5</b>                                   | <b>7,044</b>       | <b>68.8</b>  | <b>81.3</b>                         | <b>387</b>         |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

na = Not applicable

LPG = Liquid petroleum gas

<sup>1</sup> Symptoms of ARI (cough accompanied by short, rapid breathing that was chest-related) are considered a proxy for pneumonia.

<sup>2</sup> Excludes pharmacy, shop, and traditional practitioner

<sup>3</sup> Includes grass, shrubs, and crop residues



The proportion of children with ARI symptoms was negatively associated with wealth quintile. Seven percent of children living in households in the lowest wealth quintile experienced ARI symptoms, as compared with 4 percent of children living in households in the highest wealth quintile. There were significant provincial variations in the prevalence of ARI, ranging from a low of 1 percent in Mondul Kiri/Ratanak Kiri to a high of 12 percent in Kampong Chhnang and Preah Sihanouk/Koh Kong.

About 7 of 10 children under age 5 (69 percent) with a cough and rapid breathing were taken to a health facility or provider to seek treatment or advice. Children of mothers with no schooling or with a primary education were less likely to receive treatment for ARI symptoms (66-67 percent) than were children of mothers with a secondary education or higher (75 percent). About 8 in 10 children with ARI symptoms were given antibiotics.

## **14.4 FEVER**

Fever is a primary manifestation of several acute infections in children. Fever and other infections can contribute to high levels of malnutrition and mortality. The 2014 CDHS asked mothers whether their children experienced fever during the two weeks preceding the survey.

Table 14.5 shows the percentage of children under age 5 who had a fever during the two weeks preceding the survey according to selected background characteristics. Overall, 28 percent of children under age 5 had a fever at some time in the two weeks preceding the survey. The prevalence of fever varied by the age of the child, and children age 6-11 months and 12-23 months were more commonly sick with fever (35 percent and 36 percent, respectively) than other children. The prevalence of fever among boys was slightly higher than that among girls. There were no significant differences by residence in the prevalence of fever.

Provincial variations, however, were significant; fever prevalence ranged from a low of 11 percent in Kampot/Kep to a high of 40 percent in Battambang/Pailin. Mother's education and wealth quintile had little association with the prevalence of fever among children less than age 5.

Sixty-one percent of all children under age 5 with a fever were taken to a health facility or provider to seek treatment or advice. Children of mothers with a primary education and a secondary education or higher were more likely to receive treatment for fever (61 percent and 62 percent, respectively) than children of mothers with no schooling (56 percent). The proportion of children for whom treatment was sought from a health facility or provider was highest in Kampong Chhnang (95 percent) and lowest in Mondul Kiri/Ratanak Kiri (44 percent).

Less than 1 percent of children with a fever received antimalarial drugs, whereas 73 percent received antibiotic drugs. Use of antibiotic drugs was more common in urban areas (75 percent) than in rural areas (64 percent). Mothers in Kampong Chhnang, Takeo, Svay Rieng, and Kampong Thom were most likely to use antibiotic drugs to treat fever (90 percent or more).



Table 14.5 Prevalence and treatment of fever

Among children under age 5, the percentage who had a fever in the two weeks preceding the survey, and among children with fever, the percentage for whom advice or treatment was sought from a health facility or provider, the percentage who took antimalarial drugs, and the percentage who received antibiotics as treatment, by background characteristics, Cambodia 2014

| Background characteristic    | Among children under age 5: |                    | Among children under age 5 with fever:   |  |                                      |                    |
|------------------------------|-----------------------------|--------------------|--|--|--------------------------------------|--------------------|
|                              | Percentage with fever       | Number of children | Percentage for whom advice or treatment was sought from a health facility or provider <sup>1</sup> | Percentage who took antimalarial drugs | Percentage who took antibiotic drugs | Number of children |
| <b>Age in months</b>         |                             |                    |  |  |                                      |                    |
| <6                           | 19.9                        | 736                | 54.5   | 0.0                                    | 73.3                                 | 146                |
| 6-11                         | 35.1                        | 761                | 64.5   | 0.0                                    | 82.4                                 | 267                |
| 12-23                        | 35.7                        | 1,460              | 61.7   | 0.4                                    | 77.4                                 | 521                |
| 24-35                        | 30.1                        | 1,368              | 58.6   | 0.4                                    | 68.3                                 | 412                |
| 36-47                        | 24.7                        | 1,343              | 61.8   | 0.5                                    | 71.4                                 | 332                |
| 48-59                        | 21.0                        | 1,376              | 59.7   | 0.2                                    | 67.7                                 | 289                |
| <b>Sex</b>                   |                             |                    |  |  |                                      |                    |
| Male                         | 29.3                        | 3,522              | 57.4   | 0.3                                    | 72.8                                 | 1,030              |
| Female                       | 26.6                        | 3,523              | 64.1   | 0.3                                    | 74.1                                 | 937                |
| <b>Residence</b>             |                             |                    |  |  |                                      |                    |
| Urban                        | 28.3                        | 1,033              | 57.9   | 0.2                                    | 63.8                                 | 292                |
| Rural                        | 27.9                        | 6,011              | 61.1   | 0.3                                    | 75.1                                 | 1,675              |
| <b>Province</b>              |                             |                    |  |  |                                      |                    |
| Banteay Meanchey             | 23.6                        | 250                | 48.9   | 2.2                                    | 61.1                                 | 59                 |
| Kampong Cham                 | 31.0                        | 974                | 53.6   | 0.0                                    | 75.1                                 | 302                |
| Kampong Chhnang              | 30.1                        | 236                | 94.9   | 0.0                                    | 96.4                                 | 71                 |
| Kampong Speu                 | 21.4                        | 457                | 49.4   | 0.0                                    | 81.1                                 | 98                 |
| Kampong Thom                 | 20.6                        | 327                | 76.9   | 0.0                                    | 90.2                                 | 67                 |
| Kandal                       | 26.0                        | 506                | 68.2   | 0.0                                    | 79.4                                 | 132                |
| Kratie                       | 34.1                        | 254                | 71.7   | 1.1                                    | 77.1                                 | 87                 |
| Phnom Penh                   | 37.0                        | 618                | 59.5   | 0.0                                    | 53.2                                 | 229                |
| Prey Veng                    | 14.5                        | 478                | (85.2)   | (0.0)                                  | (77.5)                               | 69                 |
| Pursat                       | 19.6                        | 294                | 47.0   | 0.0                                    | 52.9                                 | 58                 |
| Siem Reap                    | 34.6                        | 470                | 49.5   | 0.9                                    | 55.6                                 | 163                |
| Svay Rieng                   | 17.5                        | 253                | 84.9   | 0.0                                    | 89.8                                 | 44                 |
| Takeo                        | 33.7                        | 374                | 53.5   | 0.0                                    | 93.5                                 | 126                |
| Otdar Meanchey               | 16.3                        | 134                | 53.7   | 8.4                                    | 79.3                                 | 22                 |
| Battambang/Pailin            | 40.0                        | 545                | 57.3   | 0.0                                    | 87.4                                 | 218                |
| Kampot/Kep                   | 11.2                        | 272                | (68.1)   | (0.0)                                  | (57.3)                               | 30                 |
| Preah Sihanouk/<br>Koh Kong  | 35.7                        | 164                | 69.3   | 0.0                                    | 58.6                                 | 59                 |
| Preah Vihear/<br>Stung Treng | 32.6                        | 228                | 67.4   | 0.0                                    | 77.0                                 | 74                 |
| Mondul Kiri/<br>Ratanak Kiri | 28.7                        | 208                | 44.1   | 0.0                                    | 51.7                                 | 60                 |
| <b>Mother's education</b>    |                             |                    |  |  |                                      |                    |
| No education                 | 24.3                        | 973                | 56.2   | 0.1                                    | 73.5                                 | 237                |
| Primary                      | 28.9                        | 3,687              | 60.8   | 0.4                                    | 73.5                                 | 1,064              |
| Secondary and higher         | 28.0                        | 2,384              | 61.8   | 0.1                                    | 73.3                                 | 667                |
| <b>Wealth quintile</b>       |                             |                    |  |  |                                      |                    |
| Lowest                       | 29.2                        | 1,689              | 61.8   | 0.3                                    | 74.5                                 | 493                |
| Second                       | 25.0                        | 1,403              | 67.0   | 0.1                                    | 75.5                                 | 351                |
| Middle                       | 28.6                        | 1,332              | 55.8   | 0.5                                    | 78.4                                 | 381                |
| Fourth                       | 27.8                        | 1,217              | 59.1   | 0.5                                    | 71.4                                 | 339                |
| Highest                      | 28.8                        | 1,404              | 59.3   | 0.0                                    | 67.4                                 | 404                |
| Total                        | 27.9                        | 7,044              | 60.6   | 0.3                                    | 73.4                                 | 1,967              |

Note: Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Excludes pharmacy, shop, and traditional practitioner

## 14.5 DIARRHEA

Dehydration caused by severe diarrhea is a major cause of morbidity and mortality among young children, although the condition can be easily treated with oral rehydration therapy (ORT). Exposure to diarrhea-causing agents is frequently related to the use of contaminated water and to unhygienic practices in food preparation and disposal of excreta.

Table 14.6 shows the percentage of children under age 5 with diarrhea in the two weeks preceding the survey according to selected background characteristics. Overall, 13 percent of all children under age 5 had diarrhea, and 2 percent had diarrhea with blood.

**Table 14.6 Prevalence of diarrhea**

Percentage of children under age 5 who had diarrhea in the two weeks preceding the survey, by background characteristics, Cambodia 2014

| Background characteristic   | Diarrhea in the two weeks preceding the survey |                     | Number of children |
|---|--|---------------------|--------------------|
|   | All diarrhea                                   | Diarrhea with blood |                    |
| <b>Age in months</b>  |  |                     |                    |
| <6  | 12.8   | 0.5                 | 736                |
| 6-11  | 20.0   | 2.3                 | 761                |
| 12-23   | 19.0   | 2.4                 | 1,460              |
| 24-35   | 13.7   | 2.0                 | 1,368              |
| 36-47   | 7.4  | 1.3                 | 1,343              |
| 48-59   | 6.6  | 0.6                 | 1,376              |
| <b>Sex</b>  |  |                     |                    |
| Male  | 13.4   | 1.7                 | 3,522              |
| Female  | 12.2   | 1.4                 | 3,523              |
| <b>Residence</b>  |  |                     |                    |
| Urban   | 12.5   | 1.4                 | 1,033              |
| Rural   | 12.9   | 1.6                 | 6,011              |
| <b>Province</b>   |  |                     |                    |
| Banteay Meanchey  | 13.0   | 3.3                 | 250                |
| Kampong Cham  | 12.8   | 2.3                 | 974                |
| Kampong Chhnang   | 10.6   | 0.9                 | 236                |
| Kampong Speu  | 10.5   | 0.6                 | 457                |
| Kampong Thom  | 6.1  | 0.5                 | 327                |
| Kandal  | 9.0  | 0.2                 | 506                |
| Kratie  | 17.0   | 2.4                 | 254                |
| Phnom Penh  | 17.2   | 2.6                 | 618                |
| Prey Veng   | 4.7  | 0.7                 | 478                |
| Pursat  | 8.2  | 0.3                 | 294                |
| Siem Reap   | 16.9   | 2.5                 | 470                |
| Svay Rieng  | 5.6  | 0.0                 | 253                |
| Takeo   | 18.9   | 4.2                 | 374                |
| Otdar Meanchey  | 10.2   | 0.1                 | 134                |
| Battambang/Pailin   | 20.9   | 0.5                 | 545                |
| Kampot/Kep  | 5.1  | 0.9                 | 272                |
| Preah Sihanouk/<br>Koh Kong                                       | 17.0   | 3.0                 | 164                |
| Preah Vihear/<br>Stung Treng                                      | 19.3   | 2.2                 | 228                |
| Mondul Kiri/<br>Ratanak Kiri                                      | 15.6   | 0.8                 | 208                |
| <b>Mother's education</b>   |  |                     |                    |
| No education  | 13.3   | 2.2                 | 973                |
| Primary   | 12.9   | 1.3                 | 3,687              |
| Secondary and higher  | 12.4   | 1.6                 | 2,384              |
| <b>Wealth quintile</b>  |  |                     |                    |
| Lowest  | 16.1   | 2.2                 | 1,689              |
| Second  | 11.8   | 1.6                 | 1,403              |
| Middle  | 10.5   | 1.4                 | 1,332              |
| Fourth  | 13.6   | 1.3                 | 1,217              |
| Highest   | 11.3   | 1.1                 | 1,404              |
| <b>Source of drinking water during dry season<sup>1</sup></b>     |  |                     |                    |
| Improved  | 11.4   | 1.5                 | 4,472              |
| Not improved  | 15.2   | 1.6                 | 2,571              |
| <b>Source of drinking water during rainy season<sup>1,2</sup></b> |  |                     |                    |
| Improved  | 12.3   | 1.6                 | 5,833              |
| Not improved  | 15.3   | 1.5                 | 1,208              |
| <b>Toilet facility<sup>3</sup></b>                                |  |                     |                    |
| Improved, not shared  | 11.0   | 1.2                 | 2,941              |
| Non-improved or shared  | 14.1   | 1.8                 | 4,103              |
| <b>Total</b>  | <b>12.8</b>                                    | <b>1.5</b>          | <b>7,044</b>       |

<sup>1</sup> See Table 2.6 for definition of categories.

<sup>2</sup> Not including 4 missing cases

<sup>3</sup> See Table 2.7 for definition of categories.

The occurrence of diarrhea varies by age of the child. Similar to fever, young children age 6-11 and 12-23 months are more prone to diarrhea (20 percent and 19 percent, respectively) than children in the other age groups. The prevalence of diarrhea is about the same among rural children and urban children, and there is no variation by sex of the child. However, there are significant variations in the prevalence of diarrhea by province. Children living in Battambang/Pailin (21 percent), Preah Vihear/Stung Treng (19 percent), and Takeo (19 percent) are more susceptible to episodes of diarrhea than children living in other provinces. Children living in Kampot/Kep and Prey Veng have the lowest prevalence of diarrhea (5 percent each). The prevalence of diarrhea is higher among children who live in the poorest households, in households without an improved source of drinking water (in both the dry and rainy seasons), and in households with a non-improved or shared toilet facility.

The 2014 CDHS asked mothers of children under age 5 who had diarrhea what was done to treat the illness. Table 14.7 shows the percentage of children with diarrhea who received specific treatments according to background characteristics. Fifty-six percent of children with diarrhea were taken to a health provider. A larger percentage of children in rural areas and children living in the poorest households were taken to a health provider than other children. Children with bloody diarrhea are much more likely to be taken to a health provider. There is little variation by sex of the child in whether or not treatment for diarrhea was sought.

Comparable data from the 2010 CDHS show that the percentage of children with diarrhea taken to a health provider has not changed significantly (59 percent in 2010 versus 56 percent in 2014).

Fifty-seven percent of children with diarrhea were treated with a solution prepared from an oral rehydration salt (ORS) packet or tablet or were given increased fluids. Very few children with diarrhea were treated with antibiotics, antiparasitic drugs, or other medicines. Almost one in five children (18 percent) with diarrhea did not receive any treatment at all.

Diarrhea treatment varied by age: 39 percent of children less than age 6 months received ORT or increased fluids, as compared with 58-62 percent of children age 6 months and older. Children who had diarrhea with blood were more likely than children with non-bloody diarrhea to receive ORT or increased fluids (68 percent versus 56 percent).

Table 14.7 Diarrhea treatment

Among children under age 5 who had diarrhea in the two weeks preceding the survey, the percentage for whom advice or treatment was sought from a health facility or provider, the percentage given oral rehydration therapy (ORT), the percentage given increased fluids, the percentage given ORT or increased fluids, and the percentage who were given other treatments, by background characteristics, Cambodia 2014

| Background characteristic           | Percentage of children with diarrhea for whom advice or treatment was sought from a health facility or provider <sup>1</sup> | Oral rehydration therapy (ORT) | Increased fluids | ORT or increased fluids | Other treatments  |                     |                  |                       |                    | No treatment | Number of children with diarrhea |
|-------------------------------------|--|--------------------------------|------------------|-------------------------|-------------------|---------------------|------------------|-----------------------|--------------------|--------------|----------------------------------|
|                                     |  |                                |                  |                         | Anti-biotic drugs | Anti-motility drugs | Zinc supplements | Intra-venous solution | Home remedy/ other |              |                                  |
| <b>Age in months</b>                |  |                                |                  |                         |                   |                     |                  |                       |                    |              |                                  |
| <6                                  | 43.6   | 18.7                           | 29.1             | 39.1                    | 5.5               | 5.8                 | 4.1              | 0.0                   | 27.0               | 42.0         | 94                               |
| 6-11                                | 58.1   | 39.2                           | 38.3             | 61.7                    | 4.2               | 0.0                 | 9.7              | 2.8                   | 62.4               | 14.1         | 152                              |
| 12-23                               | 57.4   | 35.9                           | 36.8             | 57.7                    | 3.9               | 2.0                 | 6.6              | 1.0                   | 68.2               | 13.3         | 277                              |
| 24-35                               | 54.8   | 33.5                           | 38.6             | 60.1                    | 2.8               | 2.0                 | 1.7              | 1.0                   | 62.2               | 17.5         | 188                              |
| 36-47                               | 57.3   | 38.5                           | 35.3             | 57.7                    | 7.4               | 2.3                 | 3.5              | 0.8                   | 55.2               | 16.6         | 100                              |
| 48-59                               | 56.7   | 43.5                           | 34.1             | 59.0                    | 5.4               | 3.4                 | 5.6              | 4.2                   | 59.4               | 12.1         | 91                               |
| <b>Sex</b>                          |  |                                |                  |                         |                   |                     |                  |                       |                    |              |                                  |
| Male                                | 53.1   | 37.4                           | 35.7             | 56.2                    | 4.3               | 2.4                 | 5.6              | 1.0                   | 57.2               | 18.6         | 473                              |
| Female                              | 58.1   | 32.9                           | 36.7             | 58.0                    | 4.5               | 2.0                 | 5.2              | 2.1                   | 61.7               | 16.4         | 429                              |
| <b>Type of diarrhea<sup>2</sup></b> |  |                                |                  |                         |                   |                     |                  |                       |                    |              |                                  |
| Non-bloody                          | 53.4   | 32.7                           | 36.4             | 55.6                    | 3.7               | 2.3                 | 4.8              | 1.2                   | 57.9               | 18.8         | 786                              |
| Bloody                              | 72.6   | 53.9                           | 34.7             | 68.3                    | 7.2               | 0.0                 | 9.9              | 4.1                   | 72.2               | 7.9          | 109                              |
| <b>Residence</b>                    |  |                                |                  |                         |                   |                     |                  |                       |                    |              |                                  |
| Urban                               | 47.0   | 30.2                           | 40.1             | 59.1                    | 3.8               | 0.9                 | 3.3              | 2.7                   | 65.3               | 19.2         | 129                              |
| Rural                               | 56.9   | 36.1                           | 35.5             | 56.7                    | 4.5               | 2.5                 | 5.8              | 1.3                   | 58.3               | 17.3         | 772                              |
| <b>Province</b>                     |  |                                |                  |                         |                   |                     |                  |                       |                    |              |                                  |
| Banteay Meanchey                    | (52.1)   | (34.9)                         | (18.5)           | (41.9)                  | (13.3)            | (0.0)               | (0.0)            | (0.0)                 | (39.1)             | (33.4)       | 32                               |
| Kampong Cham                        | (52.6)   | (34.1)                         | (32.3)           | (51.5)                  | (3.1)             | (0.0)               | (0.0)            | (2.3)                 | (71.5)             | (10.5)       | 124                              |
| Kampong Chhnang                     | (84.7)   | (77.2)                         | (8.3)            | (78.3)                  | (7.0)             | (0.0)               | (20.4)           | (5.4)                 | (63.9)             | (14.2)       | 25                               |
| Kampong Speu                        | (63.3)   | (23.6)                         | (49.9)           | (56.4)                  | (0.9)             | (0.0)               | (0.7)            | (0.0)                 | (87.8)             | (6.8)        | 48                               |
| Kampong Thom                        | *  | *                              | *                | *                       | *                 | *                   | *                | *                     | *                  | *            | 20                               |
| Kandal                              | *  | *                              | *                | *                       | *                 | *                   | *                | *                     | *                  | *            | 46                               |
| Kratie                              | 59.8   | 20.2                           | 32.8             | 47.4                    | 1.1               | 0.0                 | 18.4             | 0.0                   | 70.5               | 18.7         | 43                               |
| Phnom Penh                          | 57.5   | 33.5                           | 52.0             | 69.2                    | 2.9               | 0.5                 | 3.1              | 3.8                   | 73.6               | 14.9         | 107                              |
| Prey Veng                           | *  | *                              | *                | *                       | *                 | *                   | *                | *                     | *                  | *            | 23                               |
| Pursat                              | (31.0)   | (49.7)                         | (54.1)           | (57.0)                  | (0.7)             | (4.4)               | (11.0)           | (0.0)                 | (49.4)             | (8.0)        | 24                               |
| Siem Reap                           | 48.1   | 54.4                           | 46.9             | 80.5                    | 10.4              | 4.0                 | 27.7             | 0.0                   | 29.1               | 11.0         | 79                               |
| Svay Rieng                          | *  | *                              | *                | *                       | *                 | *                   | *                | *                     | *                  | *            | 14                               |
| Takeo                               | 52.5   | 57.7                           | 37.5             | 74.3                    | 10.0              | 0.0                 | 0.0              | 4.2                   | 56.7               | 16.3         | 71                               |
| Otdar Meanchey                      | (29.9)   | (22.6)                         | (11.1)           | (22.6)                  | (2.3)             | (3.5)               | (3.5)            | (2.5)                 | (69.4)             | (23.7)       | 14                               |
| Battambang/Pailin                   | 48.3   | 22.3                           | 46.5             | 62.2                    | 7.5               | 13.1                | 1.4              | 0.0                   | 46.9               | 17.9         | 114                              |
| Kampot/Kep                          | *  | *                              | *                | *                       | *                 | *                   | *                | *                     | *                  | *            | 14                               |
| Preah Sihanouk/Koh Kong             | 58.8   | 47.9                           | 30.4             | 63.4                    | 2.4               | 0.0                 | 8.4              | 0.0                   | 41.1               | 26.4         | 28                               |
| Preah Vihear/Stung Treng            | 60.3   | 28.4                           | 20.7             | 40.0                    | 0.0               | 0.0                 | 0.0              | 4.5                   | 53.0               | 29.0         | 44                               |
| Mondul Kiri/Ratanak Kiri            | 53.3   | 42.8                           | 12.8             | 45.7                    | 0.0               | 0.0                 | 0.0              | 0.0                   | 57.2               | 25.4         | 32                               |
| <b>Mother's education</b>           |  |                                |                  |                         |                   |                     |                  |                       |                    |              |                                  |
| No education                        | 58.8   | 46.3                           | 34.4             | 61.3                    | 1.7               | 1.5                 | 7.6              | 0.0                   | 57.6               | 15.1         | 129                              |
| Primary                             | 55.2   | 34.6                           | 33.1             | 54.9                    | 5.5               | 2.8                 | 5.3              | 1.8                   | 55.7               | 21.0         | 477                              |
| Secondary and higher                | 54.3   | 31.4                           | 41.9             | 58.6                    | 3.9               | 1.7                 | 4.6              | 1.7                   | 65.9               | 13.0         | 296                              |
| <b>Wealth quintile</b>              |  |                                |                  |                         |                   |                     |                  |                       |                    |              |                                  |
| Lowest                              | 62.0   | 39.8                           | 33.2             | 56.3                    | 2.9               | 2.3                 | 6.3              | 2.2                   | 62.0               | 16.2         | 271                              |
| Second                              | 53.6   | 35.2                           | 34.0             | 53.5                    | 8.7               | 2.2                 | 5.5              | 0.0                   | 57.5               | 17.8         | 166                              |
| Middle                              | 57.8   | 41.6                           | 31.0             | 57.1                    | 0.2               | 0.8                 | 4.8              | 1.4                   | 55.3               | 20.9         | 140                              |
| Fourth                              | 55.7   | 30.6                           | 39.5             | 57.6                    | 5.8               | 5.2                 | 4.4              | 0.8                   | 60.0               | 12.2         | 166                              |
| Highest                             | 43.8   | 26.7                           | 44.7             | 61.4                    | 4.9               | 0.3                 | 5.3              | 2.5                   | 59.6               | 22.1         | 158                              |
| Total                               | 55.5   | 35.2                           | 36.2             | 57.0                    | 4.4               | 2.2                 | 5.4              | 1.5                   | 59.3               | 17.5         | 902                              |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. ORT includes fluid prepared from oral rehydration salt (ORS) packets and ORS tablets.

<sup>1</sup> Excludes pharmacy, shop, and traditional practitioner

<sup>2</sup> Excludes 7 cases for which information on type of diarrhea is missing

## 14.6 FEEDING PRACTICES

Mothers are normally encouraged to continue feeding children with diarrhea and to increase the amount of fluids given. These practices help to reduce dehydration and minimize the adverse consequences of diarrhea on the child's nutritional status. Mothers were asked whether they gave their child less, the same amount, or more fluids and food than usual when the child had diarrhea. Table 14.8 shows the percent distribution of children under age 5 who had diarrhea in the two weeks preceding the survey by feeding practices, according to background characteristics.

Table 14.8. Feeding practices during diarrhea

Percent distribution of children under age 5 who had diarrhea in the two weeks preceding the survey by amount of liquids and food offered compared with normal practice, the percentage of children given increased fluids and continued feeding during the diarrhea episode, and the percentage of children who continued feeding and were given ORT and/or increased fluids during the episode of diarrhea, by background characteristics, Cambodia 2014

| Background characteristic     | Amount of liquids given |               |               |           |       |                    | Amount of food given |        |               |               |           |       | Percentage given increased fluids and continued feeding <sup>1,2</sup> | Percentage who continued feeding and were given ORT and/or increased fluids <sup>3</sup> | Number of children with diarrhea |       |
|-------------------------------|-------------------------|---------------|---------------|-----------|-------|--------------------|----------------------|--------|---------------|---------------|-----------|-------|--|--|----------------------------------|-------|
|                               | Amount of liquids given |               |               |           |       |                    | Amount of food given |        |               |               |           |       |  |  |                                  |       |
|                               | More                    | Same as usual | Somewhat less | Much less | None  | Don't know/missing | Total                | More   | Same as usual | Somewhat less | Much less | None  | Never gave food  | Don't know/missing   |                                  | Total |
| Age in months                 |                         |               |               |           |       |                    |                      |        |               |               |           |       |  |  |                                  |       |
| <6                            | 29.1                    | 63.4          | 1.3           | 1.5       | 4.7   | 0.0                | 100.0                | 4.5    | 18.1          | 1.3           | 0.7       | 0.0   | 75.5   | 0.0  | 100.0                            | 94    |
| 6-11                          | 38.3                    | 53.4          | 4.8           | 1.6       | 1.9   | 0.0                | 100.0                | 9.9    | 70.2          | 12.3          | 0.3       | 0.0   | 6.7  | 0.6  | 100.0                            | 152   |
| 12-23                         | 36.8                    | 49.4          | 8.6           | 4.4       | 0.2   | 0.7                | 100.0                | 21.7   | 60.1          | 14.7          | 1.6       | 1.0   | 0.9  | 0.0  | 100.0                            | 277   |
| 24-35                         | 38.6                    | 48.9          | 7.0           | 5.5       | 0.0   | 0.0                | 100.0                | 15.3   | 61.3          | 19.1          | 4.3       | 0.0   | 0.0  | 0.0  | 100.0                            | 188   |
| 36-47                         | 35.3                    | 47.4          | 13.9          | 2.3       | 0.0   | 1.0                | 100.0                | 11.6   | 62.4          | 23.2          | 1.7       | 0.0   | 0.0  | 1.0  | 100.0                            | 100   |
| 48-59                         | 34.1                    | 47.7          | 14.1          | 2.4       | 0.0   | 1.6                | 100.0                | 17.3   | 68.4          | 13.3          | 1.0       | 0.0   | 0.0  | 0.0  | 100.0                            | 91    |
| Sex                           |                         |               |               |           |       |                    |                      |        |               |               |           |       |  |  |                                  |       |
| Male                          | 35.7                    | 49.6          | 7.9           | 5.6       | 0.7   | 0.5                | 100.0                | 13.2   | 59.7          | 17.0          | 1.7       | 0.5   | 7.7  | 0.2  | 100.0                            | 473   |
| Female                        | 36.7                    | 52.6          | 8.1           | 1.1       | 1.1   | 0.5                | 100.0                | 17.1   | 57.7          | 12.0          | 1.9       | 0.1   | 11.0   | 0.2  | 100.0                            | 429   |
| Type of diarrhea <sup>4</sup> |                         |               |               |           |       |                    |                      |        |               |               |           |       |  |  |                                  |       |
| Non-bloody                    | 36.4                    | 52.6          | 7.1           | 2.6       | 1.0   | 0.3                | 100.0                | 15.4   | 59.5          | 13.2          | 1.3       | 0.3   | 10.1   | 0.2  | 100.0                            | 786   |
| Bloody                        | 34.7                    | 41.1          | 12.5          | 9.9       | 0.0   | 1.8                | 100.0                | 10.1   | 53.4          | 25.8          | 5.8       | 0.6   | 4.4  | 0.0  | 100.0                            | 109   |
| Residence                     |                         |               |               |           |       |                    |                      |        |               |               |           |       |  |  |                                  |       |
| Urban                         | 40.1                    | 48.9          | 6.4           | 3.8       | 0.1   | 0.8                | 100.0                | 10.2   | 63.5          | 15.6          | 0.5       | 0.0   | 9.3  | 0.8  | 100.0                            | 129   |
| Rural                         | 35.5                    | 51.4          | 8.3           | 3.4       | 1.0   | 0.4                | 100.0                | 15.8   | 57.9          | 14.5          | 2.0       | 0.4   | 9.3  | 0.1  | 100.0                            | 772   |
| Province                      |                         |               |               |           |       |                    |                      |        |               |               |           |       |  |  |                                  |       |
| Banteay Meanchey              | (18.5)                  | (66.0)        | (15.5)        | (0.0)     | (0.0) | (0.0)              | 100.0                | (8.7)  | (59.9)        | (24.4)        | (0.0)     | (0.0) | (7.1)  | (0.0)  | 100.0                            | 32    |
| Kampong Cham                  | (32.3)                  | (50.8)        | (11.3)        | (5.6)     | (0.0) | (0.0)              | 100.0                | (2.3)  | (80.4)        | (17.0)        | (0.0)     | (0.0) | (0.3)  | (0.0)  | 100.0                            | 124   |
| Kampong Chhnang               | (8.3)                   | (87.4)        | (1.1)         | (3.2)     | (0.0) | (0.0)              | 100.0                | (14.4) | (82.4)        | (0.0)         | (0.0)     | (0.0) | (3.2)  | (0.0)  | 100.0                            | 25    |
| Kampong Speu                  | (49.9)                  | (48.6)        | (0.7)         | (0.7)     | (0.0) | (0.0)              | 100.0                | (15.1) | (58.2)        | (15.2)        | (4.9)     | (0.0) | (6.6)  | (0.0)  | 100.0                            | 48    |
| Kampong Thom                  | *                       | *             | *             | *         | *     | *                  | 100.0                | *      | *             | *             | *         | *     | *  | *  | 100.0                            | 20    |
| Kandal                        | *                       | *             | *             | *         | *     | *                  | 100.0                | *      | *             | *             | *         | *     | *  | *  | 100.0                            | 46    |
| Kratie                        | 32.8                    | 37.7          | 20.4          | 6.5       | 2.6   | 0.0                | 100.0                | 23.4   | 37.6          | 28.3          | 1.1       | 3.6   | 6.0  | 0.0  | 100.0                            | 43    |
| Phnom Penh                    | 52.0                    | 35.7          | 2.8           | 8.5       | 0.0   | 1.0                | 100.0                | 14.3   | 58.6          | 17.9          | 1.4       | 0.0   | 6.8  | 1.0  | 100.0                            | 107   |
| Prey Veng                     | *                       | *             | *             | *         | *     | *                  | 100.0                | *      | *             | *             | *         | *     | *  | *  | 100.0                            | 23    |
| Pursat                        | (54.1)                  | (36.1)        | (0.0)         | (6.5)     | (3.3) | (0.0)              | 100.0                | (44.2) | (33.1)        | (8.0)         | (5.8)     | (0.0) | (9.0)  | (0.0)  | 100.0                            | 24    |
| Siem Reap                     | 46.9                    | 36.3          | 12.7          | 2.2       | 0.0   | 1.9                | 100.0                | 17.5   | 49.1          | 17.1          | 4.4       | 0.0   | 11.9   | 0.0  | 100.0                            | 79    |
| Svay Rieng                    | *                       | *             | *             | *         | *     | *                  | 100.0                | *      | *             | *             | *         | *     | *  | *  | 100.0                            | 14    |
| Takeo                         | 37.5                    | 45.3          | 13.3          | 3.9       | 0.0   | 0.0                | 100.0                | 16.2   | 68.2          | 11.3          | 4.3       | 0.0   | 0.0  | 0.0  | 100.0                            | 71    |
| Oddar Meanchey                | (11.1)                  | (77.9)        | (11.0)        | (0.0)     | (0.0) | (0.0)              | 100.0                | (22.3) | (66.7)        | (10.1)        | (0.0)     | (0.0) | (0.9)  | (0.0)  | 100.0                            | 14    |
| Battambang/Pailin             | 46.5                    | 51.7          | 0.0           | 0.0       | 0.0   | 1.7                | 100.0                | 21.6   | 41.6          | 3.1           | 0.0       | 0.9   | 32.1   | 0.8  | 100.0                            | 114   |
| Kampot/Keap                   | *                       | *             | *             | *         | *     | *                  | 100.0                | *      | *             | *             | *         | *     | *  | *  | 100.0                            | 14    |
| Preah Shanouk/Koh Kong        | 30.4                    | 61.8          | 5.7           | 2.1       | 0.0   | 0.0                | 100.0                | 17.8   | 66.2          | 9.7           | 2.1       | 0.0   | 4.2  | 0.0  | 100.0                            | 28    |
| Preah Vihear/Stung Treng      | 20.7                    | 61.3          | 9.1           | 0.0       | 8.9   | 0.0                | 100.0                | 6.4    | 64.4          | 19.9          | 0.0       | 0.0   | 9.3  | 0.0  | 100.0                            | 44    |
| Mondul Kiri/Ratanak Kiri      | 12.8                    | 64.8          | 15.0          | 7.3       | 0.0   | 0.0                | 100.0                | 9.3    | 58.1          | 23.6          | 6.6       | 0.8   | 1.6  | 0.0  | 100.0                            | 32    |
| Mother's education            |                         |               |               |           |       |                    |                      |        |               |               |           |       |  |  |                                  |       |
| No education                  | 34.4                    | 47.7          | 12.5          | 2.8       | 1.1   | 1.5                | 100.0                | 13.7   | 61.9          | 12.6          | 4.2       | 0.2   | 6.8  | 0.7  | 100.0                            | 129   |
| Primary                       | 33.1                    | 54.9          | 7.9           | 3.0       | 0.8   | 0.2                | 100.0                | 13.7   | 57.4          | 16.0          | 1.3       | 0.3   | 11.1   | 0.2  | 100.0                            | 477   |
| Secondary and higher          | 41.9                    | 46.3          | 6.2           | 4.3       | 0.8   | 0.5                | 100.0                | 17.7   | 59.6          | 13.2          | 1.6       | 0.4   | 7.4  | 0.0  | 100.0                            | 296   |
| Wealth quintile               |                         |               |               |           |       |                    |                      |        |               |               |           |       |  |  |                                  |       |
| Lowest                        | 33.2                    | 48.5          | 10.8          | 5.5       | 1.3   | 0.7                | 100.0                | 14.8   | 57.8          | 17.2          | 3.4       | 0.0   | 6.8  | 0.0  | 100.0                            | 271   |
| Second                        | 34.0                    | 55.4          | 7.4           | 2.9       | 0.4   | 0.0                | 100.0                | 14.7   | 56.3          | 16.5          | 2.7       | 0.4   | 9.4  | 0.0  | 100.0                            | 166   |
| Middle                        | 31.0                    | 59.7          | 7.1           | 1.8       | 0.4   | 0.0                | 100.0                | 17.0   | 55.0          | 17.9          | 1.1       | 0.5   | 8.5  | 0.0  | 100.0                            | 140   |
| Fourth                        | 39.5                    | 49.3          | 7.9           | 0.6       | 1.7   | 0.9                | 100.0                | 14.6   | 61.6          | 9.0           | 0.2       | 0.3   | 13.8   | 0.5  | 100.0                            | 166   |
| Highest                       | 44.7                    | 44.9          | 4.8           | 4.9       | 0.1   | 0.7                | 100.0                | 14.4   | 63.2          | 11.3          | 0.4       | 0.6   | 9.4  | 0.7  | 100.0                            | 158   |
| Total                         | 36.2                    | 51.0          | 8.0           | 3.4       | 0.9   | 0.5                | 100.0                | 15.0   | 58.7          | 14.6          | 1.8       | 0.3   | 9.3  | 0.2  | 100.0                            | 902   |

Note: It is recommended that children be given more liquids to drink during diarrhea and that food not be reduced. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Equivalent to the UNICEF/WHO indicator "Home management of diarrhea" (MICS Indicator 34)

<sup>2</sup> Continued feeding includes children who were given more, the same as usual, or somewhat less food during the diarrhea episode.

<sup>3</sup> Equivalent to UNICEF MICS Indicator 35

<sup>4</sup> Excludes 7 cases for which information on type of diarrhea is missing

Fifty-one percent of children who had diarrhea were given the same amount of liquid as usual, and 36 percent were given more. Eight percent of children were given somewhat less than the usual amount, and 3 percent were given much less than the usual amount. Less than 1 percent of children who had diarrhea were given no liquids.

Regarding the amount of food offered to children who had diarrhea, 59 percent were given the same as usual, 15 percent were given more than usual, another 15 percent were given somewhat less than usual, 2 percent were given much less than usual, and less than 1 percent did not receive food during their illness.

Overall, one-third of children with diarrhea were given increased fluids with continued feeding (i.e., more, the same amount as usual, or somewhat less to eat). Just over half of children with diarrhea continued feeding and were given ORT and/or increased fluids.

Children under age 6 months were more likely than older children to receive the same amount of liquid or more during episodes of diarrhea. Children with bloody diarrhea were less likely than those with non-bloody diarrhea to receive the same amount of food or more.

## 14.7 KNOWLEDGE OF ORS PACKETS

A simple and effective response to dehydration caused by diarrhea is a prompt increase in the child's fluid intake through some form of oral rehydration therapy, which may include the use of a solution prepared from packets of oral rehydration salts. To ascertain how widespread knowledge of ORS is in Cambodia, respondents were asked whether they know about ORS packets or Oralyte/Orasel. Interviewers displayed a sample ORS packet to respondents when asking the question.

Table 14.9 shows that nearly all (96 percent) of the women who gave birth in the five years preceding the survey know about ORS packets. In the 2010 CDHS, almost the same proportion of women reported knowing about ORS packets (95 percent).

Young mothers age 15-19 are less likely than older mothers to know about ORS. Mothers with no schooling are less likely to know about ORS packets (90 percent) than mothers with a primary school education (96 percent) or a secondary education or higher (98 percent). Mothers in Mondul Kiri/Ratanak Kiri (82 percent) are least likely to know about ORS packets.

## 14.8 STOOL DISPOSAL

If human feces are left uncontained, disease may spread by direct contact or by animal contact with the feces. Hence, the proper disposal of children's stools is extremely important in preventing the spread of disease. Table 14.10 presents information on disposal of the stools of children under age 5, by background characteristics.

**Table 14.9 Knowledge of ORS packets or pre-packaged liquids**

Percentage of women age 15-49 with a live birth in the five years preceding the survey who know about ORS for treatment of diarrhea, by background characteristics, Cambodia 2014

| Background characteristic    | Percentage of women who know about ORS | Number of women |
|------------------------------|--|-----------------|
| <b>Age</b>                   |  |                 |
| 15-19                        | 82.1                                   | 213             |
| 20-24                        | 94.9                                   | 1,442           |
| 25-34                        | 97.2                                   | 3,345           |
| 35-49                        | 94.9                                   | 974             |
| <b>Residence</b>             |  |                 |
| Urban                        | 98.4                                   | 876             |
| Rural                        | 95.3                                   | 5,096           |
| <b>Province</b>              |  |                 |
| Banteay Meanchey             | 95.1                                   | 219             |
| Kampong Cham                 | 92.8                                   | 819             |
| Kampong Chhnang              | 100.0                                  | 203             |
| Kampong Speu                 | 95.6                                   | 395             |
| Kampong Thom                 | 100.0                                  | 279             |
| Kandal                       | 92.6                                   | 420             |
| Kratie                       | 90.7                                   | 214             |
| Phnom Penh                   | 99.2                                   | 535             |
| Prey Veng                    | 99.7                                   | 405             |
| Pursat                       | 98.0                                   | 245             |
| Siem Reap                    | 99.5                                   | 379             |
| Svay Rieng                   | 99.1                                   | 229             |
| Takeo                        | 96.3                                   | 321             |
| Otdar Meanchey               | 95.3                                   | 116             |
| Battambang/Pailin            | 98.5                                   | 460             |
| Kampot/Kep                   | 89.3                                   | 236             |
| Preah Sihanouk/<br>Koh Kong  | 96.2                                   | 142             |
| Preah Vihear/<br>Stung Treng | 91.4                                   | 188             |
| Mondul Kiri/<br>Ratanak Kiri | 82.4                                   | 169             |
| <b>Education</b>             |  |                 |
| No education                 | 89.8                                   | 805             |
| Primary                      | 95.8                                   | 3,100           |
| Secondary and higher         | 98.0                                   | 2,068           |
| <b>Wealth quintile</b>       |  |                 |
| Lowest                       | 93.0                                   | 1,359           |
| Second                       | 93.9                                   | 1,215           |
| Middle                       | 96.0                                   | 1,133           |
| Fourth                       | 97.1                                   | 1,069           |
| Highest                      | 99.3                                   | 1,196           |
| Total                        | 95.8                                   | 5,973           |

ORS = Oral rehydration salts

Almost 30 percent of children's stools are left uncontained: 5 percent are put or rinsed into a drain or ditch, 6 percent are thrown into the garbage, and 19 percent are rinsed away. Seventy-one percent of

children's stools are disposed of hygienically: 39 percent are buried in the yard, 15 percent are disposed of in a toilet or latrine, and 16 percent of children under age 5 use a toilet or latrine.

The stools of children less than age 6 months (47 percent) were less likely to be disposed of hygienically than the stools of older children. There are significant differences in stool disposal practices by mother's level of education. Stools are disposed of hygienically (the child uses a toilet, the child's stool is thrown in a toilet or buried in the yard) for 75 percent of children whose mothers have a secondary education or higher, as compared with 60 percent of children of mothers with no schooling.

Proper disposal of children's stools does not differ between urban and rural areas. However, there are large provincial variations in stool disposal practices. The percentage of children whose stools are contained through safe disposal ranges from a low of 35 percent in Mondul Kiri/Ratanak Kiri and 46 percent in Kampot/Kep to a high of 91 percent in Kampong Chhnang.

Table 14.10 Disposal of children's stools

Percent distribution of youngest children under age 5 living with their mother by the manner of disposal of the child's last fecal matter, and percentage of children whose stools are disposed of safely, according to background characteristics, Cambodia 2014

| Background characteristic    | Manner of disposal of children's stools |                                   |        |                                |                     |             |       |         | Total | Percentage of children whose stools are disposed of safely <sup>1</sup> | Number of children |
|------------------------------|---|-----------------------------------|--------|--------------------------------|---------------------|-------------|-------|---------|-------|---|--------------------|
|                              | Child used toilet or latrine            | Put/rinsed into toilet or latrine | Buried | Put/rinsed into drain or ditch | Thrown into garbage | Rinsed away | Other | Missing |       |   |                    |
| <b>Age in months</b>         |   |                                   |        |                                |                     |             |       |         |       |   |                    |
| <6                           | 1.5                                     | 14.8                              | 30.8   | 16.6                           | 16.4                | 19.4        | 0.3   | 0.2     | 100.0 | 47.0  | 717                |
| 6-11                         | 4.3                                     | 17.9                              | 41.1   | 7.2                            | 11.0                | 18.5        | 0.0   | 0.0     | 100.0 | 63.3  | 745                |
| 12-23                        | 7.5                                     | 18.5                              | 43.7   | 3.7                            | 6.1                 | 20.3        | 0.1   | 0.1     | 100.0 | 69.7  | 1,398              |
| 24-35                        | 15.5                                    | 19.0                              | 41.7   | 2.4                            | 3.2                 | 18.2        | 0.0   | 0.0     | 100.0 | 76.2  | 1,142              |
| 36-47                        | 25.9                                    | 9.5                               | 42.6   | 1.3                            | 0.6                 | 19.9        | 0.0   | 0.1     | 100.0 | 78.1  | 949                |
| 48-59                        | 42.0                                    | 9.8                               | 31.3   | 1.6                            | 0.2                 | 15.1        | 0.0   | 0.0     | 100.0 | 83.1  | 874                |
| <b>Residence</b>             |   |                                   |        |                                |                     |             |       |         |       |   |                    |
| Urban                        | 31.0                                    | 33.4                              | 6.9    | 4.2                            | 20.4                | 4.1         | 0.0   | 0.0     | 100.0 | 71.3  | 836                |
| Rural                        | 13.6                                    | 12.3                              | 44.8   | 4.9                            | 3.2                 | 21.2        | 0.1   | 0.1     | 100.0 | 70.6  | 4,988              |
| <b>Province</b>              |   |                                   |        |                                |                     |             |       |         |       |   |                    |
| Banteay Meanchey             | 17.7                                    | 18.0                              | 45.1   | 6.1                            | 6.4                 | 6.7         | 0.0   | 0.0     | 100.0 | 80.8  | 218                |
| Kampong Cham                 | 8.2                                     | 13.6                              | 51.9   | 1.9                            | 1.8                 | 22.6        | 0.0   | 0.0     | 100.0 | 73.6  | 802                |
| Kampong Chhnang              | 8.4                                     | 11.9                              | 70.6   | 1.7                            | 1.8                 | 5.6         | 0.0   | 0.0     | 100.0 | 91.0  | 198                |
| Kampong Speu                 | 15.5                                    | 9.9                               | 45.4   | 1.1                            | 4.4                 | 23.6        | 0.0   | 0.0     | 100.0 | 70.9  | 389                |
| Kampong Thom                 | 17.8                                    | 10.3                              | 56.8   | 1.1                            | 5.0                 | 8.6         | 0.3   | 0.0     | 100.0 | 85.0  | 271                |
| Kandal                       | 28.5                                    | 16.4                              | 38.8   | 4.8                            | 2.5                 | 8.9         | 0.0   | 0.0     | 100.0 | 83.7  | 412                |
| Kratie                       | 5.2                                     | 12.2                              | 43.5   | 6.9                            | 2.4                 | 29.8        | 0.1   | 0.0     | 100.0 | 60.9  | 205                |
| Phnom Penh                   | 32.5                                    | 29.6                              | 4.3    | 5.2                            | 24.4                | 3.9         | 0.0   | 0.0     | 100.0 | 66.5  | 503                |
| Prey Veng                    | 16.5                                    | 5.3                               | 46.9   | 1.0                            | 0.1                 | 30.3        | 0.0   | 0.0     | 100.0 | 68.7  | 397                |
| Pursat                       | 8.0                                     | 16.9                              | 40.9   | 8.6                            | 2.2                 | 23.4        | 0.0   | 0.0     | 100.0 | 65.8  | 243                |
| Siem Reap                    | 9.7                                     | 12.4                              | 57.8   | 11.2                           | 6.2                 | 2.2         | 0.0   | 0.4     | 100.0 | 80.0  | 370                |
| Svay Rieng                   | 25.8                                    | 8.5                               | 29.4   | 6.7                            | 2.1                 | 27.5        | 0.0   | 0.0     | 100.0 | 63.7  | 223                |
| Takeo                        | 16.1                                    | 30.2                              | 27.6   | 1.7                            | 2.2                 | 22.1        | 0.0   | 0.0     | 100.0 | 74.0  | 317                |
| Otdar Meanchey               | 14.8                                    | 10.4                              | 31.9   | 0.0                            | 3.0                 | 39.9        | 0.0   | 0.0     | 100.0 | 57.1  | 113                |
| Battambang/Pailin            | 20.0                                    | 19.9                              | 38.5   | 12.6                           | 3.2                 | 5.5         | 0.4   | 0.0     | 100.0 | 78.5  | 449                |
| Kampot/Kep                   | 7.4                                     | 7.2                               | 31.5   | 6.2                            | 14.5                | 32.7        | 0.0   | 0.5     | 100.0 | 46.1  | 232                |
| Preah Sihanouk/<br>Koh Kong  | 21.2                                    | 26.4                              | 15.2   | 5.2                            | 16.5                | 15.0        | 0.0   | 0.5     | 100.0 | 62.8  | 136                |
| Preah Vihear/<br>Stung Treng | 2.9                                     | 12.5                              | 34.6   | 4.6                            | 2.8                 | 42.6        | 0.0   | 0.0     | 100.0 | 50.0  | 183                |
| Mondul Kiri/<br>Ratanak Kiri | 18.0                                    | 6.9                               | 10.1   | 4.6                            | 5.5                 | 54.5        | 0.4   | 0.0     | 100.0 | 35.0  | 164                |
| <b>Mother's education</b>    |   |                                   |        |                                |                     |             |       |         |       |   |                    |
| No education                 | 8.4                                     | 5.4                               | 46.2   | 4.5                            | 1.6                 | 34.0        | 0.1   | 0.0     | 100.0 | 59.9  | 774                |
| Primary                      | 14.3                                    | 11.6                              | 44.7   | 5.7                            | 3.9                 | 19.7        | 0.0   | 0.1     | 100.0 | 70.6  | 3,041              |
| Secondary and higher         | 21.8                                    | 24.7                              | 28.6   | 3.6                            | 9.8                 | 11.3        | 0.1   | 0.1     | 100.0 | 75.1  | 2,009              |
| <b>Wealth quintile</b>       |   |                                   |        |                                |                     |             |       |         |       |   |                    |
| Lowest                       | 1.5                                     | 1.3                               | 57.3   | 4.7                            | 1.9                 | 33.1        | 0.0   | 0.1     | 100.0 | 60.2  | 1,327              |
| Second                       | 7.0                                     | 6.2                               | 51.0   | 6.5                            | 2.1                 | 27.0        | 0.0   | 0.0     | 100.0 | 64.3  | 1,181              |
| Middle                       | 13.5                                    | 12.9                              | 48.9   | 5.3                            | 2.6                 | 16.7        | 0.0   | 0.1     | 100.0 | 75.3  | 1,119              |
| Fourth                       | 26.2                                    | 25.2                              | 28.3   | 4.8                            | 5.1                 | 10.2        | 0.2   | 0.0     | 100.0 | 79.8  | 1,050              |
| Highest                      | 35.6                                    | 34.1                              | 7.2    | 2.7                            | 17.1                | 3.2         | 0.1   | 0.0     | 100.0 | 76.9  | 1,147              |
| <b>Total</b>                 | 16.1                                    | 15.3                              | 39.3   | 4.8                            | 5.7                 | 18.7        | 0.1   | 0.1     | 100.0 | 70.7  | 5,824              |

<sup>1</sup> Children's stools are considered to be disposed of safely if the child used a toilet or latrine, if the fecal matter was put/rinsed into a toilet or latrine, or if it was buried.



## Key Findings

- Fifteen percent of children age 36-59 months are attending an organized early childhood education program.
- Fifty-nine percent of children engaged with an adult household member (including parents) in four or more activities that promote learning and school readiness during the three days before the survey.
- Only 4 percent of children under age 5 have at least three children's books.
- One in 10 children under age 5 had been left alone or left in the care of other children under age 10 for one hour or more during the week preceding the interview.

Children are the foundation of sustainable development. The early years of life are crucial not only for individual health and physical development, but also for cognitive and social-emotional development. Events in the first few years of life are formative and play a vital role in building human capital, breaking the cycle of poverty, promoting economic productivity, and eliminating social disparities and inequities. This chapter provides key data on early childhood education and development collected in the 2014 CDHS. These data will help the Cambodian government, civil society, communities, and other stakeholders design and implement programs and policies that help young children reach their full potential by supporting families and communities and increasing access to quality early childhood care and education.

## 15.1 EARLY CHILDHOOD EDUCATION AND LEARNING

The readiness of children for primary school can be improved through early childhood education programs such as preschools. Early childhood education programs include programs that have organized learning components; they do not include those characterized primarily as baby-sitting or day-care programs, which typically do not include organized learning activities. In the 2014 CDHS, women with a child born in the five years before the survey were asked questions regarding early childhood education and learning. In the case of women with more than one child under age 5, questions referred to the youngest child.

The data show that 15 percent of children age 36-59 months are attending an organized early childhood education program (Table 15.1). Children living in urban areas (36 percent) are much more likely to attend an early childhood education program than children living in rural areas (11 percent). Participation in early childhood education varies substantially by province, from a high of 40 percent among children in Phnom Penh to a low of only 5 percent among children in Pursat. Considerable differences are observed by mother's education and household wealth quintile. Only 7 percent of children whose mothers have no education attend an early childhood education program, as compared with 26 percent of children whose mothers have a secondary education or higher. Thirty-eight percent of children living in the richest households attend an early childhood education program, compared with only 7 percent of children in the poorest households.

It is recognized that a period of rapid brain development occurs in the first three to four years of life and that the quality of home care is the major determinant of a child's development during this period. In this context, the amount of "quality time" adults spend with children, the presence of children's books in



the home, opportunities for play to stimulate the imagination, and conditions of care are all important indicators of quality of home care. Children should be physically healthy, mentally alert, emotionally secure, socially competent, and ready to learn.

Information on a number of activities that support early learning was collected for children age 3-4 who were living with their mothers. The activities asked about focused on the involvement of adults with children in the following activities: reading books or looking at picture books; telling stories; singing songs; taking children outside the home, compound, or yard; playing with children; and spending time with children naming, counting, or drawing things.

Table 15.2 shows the percentage of children age 36-59 months who engaged with an adult household member in activities that promote learning and school readiness within the three days prior to the survey. Fifty-nine percent of children engaged with an adult household member (including parents) in four or more such activities. The average number of activities in which adults engaged with children was 4.6. Nearly all (92 percent) children age 36-59 months live with their biological fathers; of these children, only 9 percent engaged with their father in four or more early educational activities. The average number of activities in which fathers involved themselves with children was 1.1. The involvement of mothers in early childhood learning activities was somewhat better than that of fathers. Seventeen percent of children engaged with their mothers in four or more such activities, with an average of 1.7 activities.

There was only a slight difference between boys and girls with respect to adults' engagement in activities that promote learning and school readiness. A larger percentage of children in urban areas (72 percent) than rural areas (57 percent) engaged with adults in early education activities. Strong differentials are observed by educational level of the mother and father, as well as by socioeconomic status. The percentage of children who have an adult engage with them in four or more learning activities rises steadily with increasing parents' education and increasing household wealth. For example, 73 percent of children living in the richest households had an adult engage with them in four or more learning-related activities, as opposed to 48 percent of those living in the poorest households. Patterns by background characteristics in fathers' and mothers' involvement in such activities were similar.

**Table 15.1 Early childhood education**

Percentage of children age 36-59 months who are attending an organized early childhood education program, according to background characteristics, Cambodia 2014

| Background characteristic    | Percentage of children age 36-59 months attending early childhood education <sup>1</sup> | Number of children age 36-59 months |
|------------------------------|--|-------------------------------------|
| <b>Age in months</b>         |  |                                     |
| 36-47                        | 7.3  | 1,303                               |
| 48-59                        | 21.7   | 1,314                               |
| <b>Child's sex</b>           |  |                                     |
| Male                         | 11.9   | 1,303                               |
| Female                       | 17.1   | 1,314                               |
| <b>Residence</b>             |  |                                     |
| Urban                        | 36.4   | 348                                 |
| Rural                        | 11.2   | 2,269                               |
| <b>Province</b>              |  |                                     |
| Banteay Meanchey             | 18.2   | 73                                  |
| Kampong Cham                 | 7.0  | 395                                 |
| Kampong Chhnang              | 14.9   | 91                                  |
| Kampong Speu                 | 19.2   | 178                                 |
| Kampong Thom                 | 15.9   | 119                                 |
| Kandal                       | 12.0   | 181                                 |
| Kratie                       | 5.6  | 93                                  |
| Phnom Penh                   | 39.8   | 209                                 |
| Prey Veng                    | 11.4   | 188                                 |
| Pursat                       | 4.7  | 101                                 |
| Siem Reap                    | 15.1   | 184                                 |
| Svay Rieng                   | 9.7  | 102                                 |
| Takeo                        | 8.7  | 146                                 |
| Otdar Meanchey               | 13.9   | 48                                  |
| Battambang/Pailin            | 24.0   | 178                                 |
| Kampot/Kep                   | 8.3  | 104                                 |
| Preah Sihanouk/<br>Koh Kong  | 21.2   | 60                                  |
| Preah Vihear/<br>Stung Treng | 11.1   | 83                                  |
| Mondul Kiri/<br>Ratanak Kiri | 7.4  | 85                                  |
| <b>Mother's education</b>    |  |                                     |
| No education                 | 7.2  | 413                                 |
| Primary                      | 10.3   | 1,423                               |
| Secondary and higher         | 26.1   | 782                                 |
| <b>Wealth quintile</b>       |  |                                     |
| Lowest                       | 6.6  | 661                                 |
| Second                       | 7.2  | 564                                 |
| Middle                       | 7.9  | 473                                 |
| Fourth                       | 16.4   | 423                                 |
| Highest                      | 38.1   | 497                                 |
| Total                        | 14.5   | 2,617                               |

<sup>1</sup> Not including baby-sitting or day care

Table 15.2 Support for learning

Percentage of children age 36-59 months living with their mothers with whom adult household members engaged in four or more activities that promote learning and school readiness during the last three days, the mean number of such activities, and engagement in such activities by biological fathers and mothers, according to background characteristics, Cambodia 2014

| Background characteristic    | Percentage of children with whom adult household members <sup>1</sup> have engaged in four or more activities <sup>2</sup> | Mean number of activities with adult household members | Percentage of children living with their biological father | Number of children age 36-59 months | Percentage of children with whom biological fathers have engaged in four or more activities | Mean number of activities with biological fathers | Number of children age 36-59 months living with their biological fathers | Percentage of children with whom biological mothers have engaged in four or more activities | Mean number of activities with biological mothers | Number of children age 36-59 months |
|------------------------------|--|--|--|-------------------------------------|---|---|--|---|---|-------------------------------------|
| <b>Age in months</b>         |  |  |  |                                     |   |   |  |   |   |                                     |
| 36-47                        | 59.0   | 4.5  | 93.3   | 1,303                               | 8.3   | 1.1   | 1,216  | 16.0  | 1.7   | 1,303                               |
| 48-59                        | 59.7   | 4.7  | 90.4   | 1,314                               | 9.0   | 1.2   | 1,187  | 18.0  | 1.7   | 1,314                               |
| <b>Child's sex</b>           |  |  |  |                                     |   |   |  |   |   |                                     |
| Male                         | 56.5   | 4.4  | 90.9   | 1,303                               | 7.5   | 1.1   | 1,185  | 15.7  | 1.6   | 1,303                               |
| Female                       | 62.2   | 4.7  | 92.7   | 1,314                               | 9.8   | 1.1   | 1,218  | 18.4  | 1.8   | 1,314                               |
| <b>Residence</b>             |  |  |  |                                     |   |   |  |   |   |                                     |
| Urban                        | 71.9   | 5.2  | 88.6   | 348                                 | 11.8  | 1.4   | 309  | 24.0  | 2.2   | 348                                 |
| Rural                        | 57.4   | 4.5  | 92.3   | 2,269                               | 8.2   | 1.1   | 2,094  | 16.0  | 1.6   | 2,269                               |
| <b>Province</b>              |  |  |  |                                     |   |   |  |   |   |                                     |
| Banteay Meanchey             | 57.3   | 4.2  | 92.0   | 73                                  | 8.8   | 0.9   | 67   | 14.9  | 1.7   | 73                                  |
| Kampong Cham                 | 78.9   | 5.5  | 92.2   | 395                                 | 12.4  | 1.6   | 365  | 18.5  | 2.2   | 395                                 |
| Kampong Chhnang              | 74.7   | 6.1  | 86.6   | 91                                  | 7.9   | 1.3   | 79   | 29.3  | 2.5   | 91                                  |
| Kampong Speu                 | 35.6   | 2.8  | 95.4   | 178                                 | 3.8   | 1.0   | 170  | 6.3   | 1.1   | 178                                 |
| Kampong Thom                 | 64.8   | 5.0  | 97.3   | 119                                 | 4.8   | 0.8   | 115  | 7.4   | 0.9   | 119                                 |
| Kandal                       | 71.5   | 5.9  | 93.7   | 181                                 | 11.9  | 1.4   | 170  | 29.4  | 2.5   | 181                                 |
| Kratie                       | 32.1   | 2.6  | 94.9   | 93                                  | 1.2   | 0.5   | 88   | 6.7   | 1.0   | 93                                  |
| Phnom Penh                   | 79.9   | 5.6  | 88.8   | 209                                 | 10.7  | 1.6   | 185  | 24.1  | 2.3   | 209                                 |
| Prey Veng                    | 79.4   | 7.0  | 86.9   | 188                                 | 30.8  | 2.3   | 163  | 49.0  | 3.3   | 188                                 |
| Pursat                       | 55.5   | 4.2  | 95.2   | 101                                 | 7.7   | 1.0   | 96   | 17.5  | 1.9   | 101                                 |
| Siem Reap                    | 35.2   | 2.9  | 90.3   | 184                                 | 4.2   | 0.4   | 166  | 4.4   | 0.8   | 184                                 |
| Svay Rieng                   | 35.5   | 2.8  | 92.6   | 102                                 | 7.2   | 0.8   | 94   | 8.3   | 1.2   | 102                                 |
| Takeo                        | 57.0   | 4.1  | 89.4   | 146                                 | 2.4   | 0.7   | 131  | 11.6  | 1.1   | 146                                 |
| Otdar Meanchey               | 70.2   | 5.6  | 95.8   | 48                                  | 10.3  | 1.1   | 46   | 10.5  | 1.3   | 48                                  |
| Battambang/Pailin            | 45.3   | 3.0  | 89.5   | 178                                 | 0.0   | 0.3   | 159  | 1.3   | 0.4   | 178                                 |
| Kampot/Kep                   | 42.5   | 3.8  | 94.1   | 104                                 | 1.3   | 0.7   | 97   | 17.7  | 1.4   | 104                                 |
| Preah Sihanouk/<br>Koh Kong  | 70.6   | 6.1  | 92.1   | 60                                  | 11.6  | 1.4   | 55   | 31.6  | 2.7   | 60                                  |
| Preah Vihear/<br>Stung Treng | 70.2   | 5.7  | 93.4   | 83                                  | 8.0   | 1.1   | 77   | 16.0  | 1.7   | 83                                  |
| Mondul Kiri/<br>Ratanak Kiri | 20.0   | 2.3  | 91.7   | 85                                  | 5.5   | 0.7   | 78   | 5.1   | 0.5   | 85                                  |
| <b>Mother's education</b>    |  |  |  |                                     |   |   |  |   |   |                                     |
| No education                 | 45.3   | 3.7  | 92.2   | 413                                 | 4.8   | 0.8   | 380  | 7.6   | 1.1   | 413                                 |
| Primary                      | 57.2   | 4.3  | 92.2   | 1,423                               | 7.3   | 1.0   | 1,312  | 12.8  | 1.5   | 1,423                               |
| Secondary and higher         | 70.6   | 5.6  | 90.8   | 782                                 | 13.2  | 1.5   | 710  | 29.7  | 2.3   | 782                                 |
| <b>Father's education</b>    |  |  |  |                                     |   |   |  |   |   |                                     |
| No education                 | 42.6   | 3.3  | 100.0  | 241                                 | 1.0   | 0.6   | 241  | 6.9   | 1.1   | 241                                 |
| Primary                      | 55.8   | 4.2  | 100.0  | 1,145                               | 5.2   | 0.9   | 1,145  | 13.5  | 1.5   | 1,145                               |
| Secondary and higher         | 68.2   | 5.3  | 100.0  | 1,016                               | 14.3  | 1.5   | 1,016  | 22.4  | 2.0   | 1,016                               |
| Not living with father       | 55.1   | 4.2  | 0.0  | 214                                 | 0.0   | 0.0   | 0  | 21.6  | 1.8   | 214                                 |
| <b>Wealth quintile</b>       |  |  |  |                                     |   |   |  |   |   |                                     |
| Lowest                       | 48.2   | 3.9  | 94.6   | 661                                 | 5.0   | 0.9   | 625  | 10.9  | 1.4   | 661                                 |
| Second                       | 53.7   | 4.1  | 92.5   | 564                                 | 5.7   | 0.9   | 521  | 15.3  | 1.4   | 564                                 |
| Middle                       | 60.7   | 4.6  | 89.5   | 473                                 | 9.4   | 1.1   | 423  | 17.2  | 1.7   | 473                                 |
| Fourth                       | 66.6   | 5.1  | 91.2   | 423                                 | 10.1  | 1.3   | 386  | 18.0  | 1.8   | 423                                 |
| Highest                      | 73.1   | 5.6  | 90.1   | 497                                 | 15.3  | 1.6   | 447  | 26.2  | 2.2   | 497                                 |
| Total                        | 59.3   | 4.6  | 91.8   | 2,617                               | 8.6   | 1.1   | 2,403  | 17.0  | 1.7   | 2,617                               |

<sup>1</sup> Including parents or other adult members of the household

<sup>2</sup> Including the following activities: reading books or looking at picture books; telling stories; singing songs; taking children outside the home, compound, or yard; playing with children; and spending time with children naming, counting, or drawing things

Exposure to books in the early years not only provides children with a greater understanding of the nature of print but may also give them opportunities to see others reading (e.g., older siblings doing schoolwork). The presence of books is also important for later school performance. Mothers of children age under age 5 were asked about the number of children's books or picture books they have. By stimulating the imagination, play also contributes to brain development. Mothers were asked what items

children play with, including homemade toys, toys purchased from a shop, and other household objects or objects found around or outside the home.

In Cambodia, only 4 percent of children under age 5 have at least three children's books (Table 15.3). One factor that contributes to the relatively low figure is that questions were asked about the woman's youngest child under age 5. Consequently, Table 15.3 does not adequately reflect older children in this age group but, rather, is disproportionally based on younger children.

No differences are observed between boys and girls. A higher percentage of urban than rural children have access to three or more children's books (11 percent and 3 percent, respectively).

Table 15.3 also shows that 34 percent of children under age 5 play with two or more types of playthings: homemade toys (including dolls and cars), toys purchased from a store, and household objects (such as pots and bowls) along with objects and materials found outside the home (such as sticks, rocks, animal shells, and leaves). Nearly 1 in 2 children (48 percent) play with toys that come from a store, while 23 percent play with homemade toys. The percentage of children who play with two or more types of playthings is higher in urban areas than in rural areas. This percentage increases with increasing mother's education and household wealth.

**Table 15.3 Learning materials**

Percentage of the youngest children under age 5 with three or more children's books and percentage who play with various types of playthings, according to background characteristics, Cambodia 2014

| Background characteristic    | Percentage of children who have 3 or more children's books | Percentage of children who play with: |  |   |                                 | Number of children under age 5 |
|------------------------------|--|---------------------------------------|--|---|---------------------------------|--------------------------------|
|                              |  | Homemade toys                         | Toys from a shop/<br>manufactured toys | Household objects/objects found outside | Two or more types of playthings |                                |
| <b>Age in months</b>         |  |                                       |  |   |                                 |                                |
| 0-23                         | 1.6  | 16.4                                  | 37.4                                   | 21.5                                    | 21.4                            | 2,859                          |
| 24-59                        | 6.1  | 29.4                                  | 57.7                                   | 50.5                                    | 45.5                            | 2,964                          |
| <b>Child's sex</b>           |  |                                       |  |   |                                 |                                |
| Male                         | 3.9  | 24.1                                  | 50.7                                   | 35.9                                    | 34.8                            | 2,912                          |
| Female                       | 3.9  | 21.9                                  | 44.9                                   | 36.6                                    | 32.5                            | 2,912                          |
| <b>Residence</b>             |  |                                       |  |   |                                 |                                |
| Urban                        | 10.8   | 22.5                                  | 73.8                                   | 46.1                                    | 48.6                            | 836                            |
| Rural                        | 2.7  | 23.1                                  | 43.4                                   | 34.6                                    | 31.2                            | 4,988                          |
| <b>Province</b>              |  |                                       |  |   |                                 |                                |
| Banteay Meanchey             | 6.3  | 57.0                                  | 51.1                                   | 47.1                                    | 54.3                            | 218                            |
| Kampong Cham                 | 4.5  | 15.1                                  | 53.4                                   | 29.3                                    | 27.7                            | 802                            |
| Kampong Chhnang              | 1.5  | 34.8                                  | 27.2                                   | 16.9                                    | 17.5                            | 198                            |
| Kampong Speu                 | 2.5  | 17.3                                  | 57.0                                   | 50.1                                    | 42.9                            | 389                            |
| Kampong Thom                 | 0.2  | 26.8                                  | 41.1                                   | 50.2                                    | 36.2                            | 271                            |
| Kandal                       | 4.0  | 24.2                                  | 67.8                                   | 30.0                                    | 31.3                            | 412                            |
| Kratie                       | 1.5  | 3.7                                   | 46.4                                   | 14.2                                    | 11.8                            | 205                            |
| Phnom Penh                   | 11.0   | 6.9                                   | 78.8                                   | 57.0                                    | 54.3                            | 503                            |
| Prey Veng                    | 1.9  | 38.1                                  | 43.1                                   | 41.9                                    | 40.3                            | 397                            |
| Pursat                       | 1.9  | 32.0                                  | 36.6                                   | 42.0                                    | 33.8                            | 243                            |
| Siem Reap                    | 5.5  | 25.2                                  | 30.6                                   | 37.9                                    | 27.6                            | 370                            |
| Svay Rieng                   | 1.6  | 31.9                                  | 29.3                                   | 18.8                                    | 28.4                            | 223                            |
| Takeo                        | 4.3  | 17.7                                  | 28.2                                   | 20.3                                    | 22.1                            | 317                            |
| Otdar Meanchey               | 6.3  | 35.6                                  | 33.0                                   | 41.0                                    | 38.0                            | 113                            |
| Battambang/Pailin            | 3.6  | 8.9                                   | 52.6                                   | 43.3                                    | 33.1                            | 449                            |
| Kampot/Kep                   | 1.4  | 20.6                                  | 30.8                                   | 18.2                                    | 23.0                            | 232                            |
| Preah Sihanouk/<br>Koh Kong  | 7.0  | 43.0                                  | 64.3                                   | 39.8                                    | 50.8                            | 136                            |
| Preah Vihear/<br>Stung Treng | 0.7  | 35.4                                  | 23.2                                   | 45.0                                    | 33.6                            | 183                            |
| Mondul Kiri/<br>Ratanak Kiri | 1.9  | 25.7                                  | 50.0                                   | 21.6                                    | 25.2                            | 164                            |
| <b>Mother's education</b>    |  |                                       |  |   |                                 |                                |
| No education                 | 1.6  | 17.3                                  | 27.3                                   | 31.6                                    | 19.7                            | 774                            |
| Primary                      | 1.5  | 21.9                                  | 43.5                                   | 36.1                                    | 31.3                            | 3,041                          |
| Secondary and higher         | 8.4  | 26.8                                  | 62.0                                   | 38.3                                    | 42.6                            | 2,009                          |
| <b>Wealth quintile</b>       |  |                                       |  |   |                                 |                                |
| Lowest                       | 1.0  | 17.5                                  | 24.9                                   | 31.0                                    | 19.6                            | 1,327                          |
| Second                       | 1.4  | 22.1                                  | 32.8                                   | 32.7                                    | 26.4                            | 1,181                          |
| Middle                       | 1.3  | 22.7                                  | 46.8                                   | 33.7                                    | 31.0                            | 1,119                          |
| Fourth                       | 4.4  | 27.8                                  | 58.0                                   | 38.7                                    | 41.2                            | 1,050                          |
| Highest                      | 11.9   | 26.3                                  | 81.2                                   | 46.2                                    | 53.0                            | 1,147                          |
| <b>Total</b>                 | <b>3.9</b>   | <b>23.0</b>                           | <b>47.8</b>                            | <b>36.2</b>                             | <b>33.7</b>                     | <b>5,824</b>                   |

## 15.2 ADEQUATE CARE FOR YOUNG CHILDREN

Leaving children alone or only in the presence of other young children is known to increase the risk of accidents. In the 2014 CDHS, mothers were asked two questions to establish whether their youngest child age 0-59 months had been left alone during the week preceding the interview for one hour or more and whether the child was left in the care of other children under age 10 for one hour or more.

Table 15.4 shows that 8 percent of children under age 5 had been left in the care of other children under age 10. Five percent of children under age 5 were left completely alone (under the care of no one) for at least one hour during the week preceding the interview. A child under age 5 left only in the care of another child or left alone is considered inadequately cared for. According to the data, 1 in 10 children under age 5 received inadequate care.

**Table 15.4 Inadequate care**

Percentage of youngest children under age 5 who were left alone or left in the care of another child younger than age 10 for more than one hour at least once during the past week, according to background characteristics, Cambodia 2014

| Background characteristic    | Left alone in the past week | Left in the care of another child younger than age 10 in the past week | Left with inadequate care in the past week | Number of children under age 5 |
|------------------------------|-----------------------------|--|--|--------------------------------|
| <b>Age in months</b>         |                             |  |  |                                |
| 0-23                         | 2.6                         | 5.4  | 6.3  | 2,859                          |
| 24-59                        | 6.9                         | 10.1   | 13.3                                       | 2,964                          |
| <b>Child's sex</b>           |                             |  |  |                                |
| Male                         | 5.2                         | 7.2  | 10.1                                       | 2,912                          |
| Female                       | 4.4                         | 8.4  | 9.6  | 2,912                          |
| <b>Residence</b>             |                             |  |  |                                |
| Urban                        | 2.5                         | 3.2  | 4.8  | 836                            |
| Rural                        | 5.2                         | 8.6  | 10.7                                       | 4,988                          |
| <b>Province</b>              |                             |  |  |                                |
| Banteay Meanchey             | 2.8                         | 0.4  | 3.3  | 218                            |
| Kampong Cham                 | 11.9                        | 9.4  | 14.9                                       | 802                            |
| Kampong Chhnang              | 7.3                         | 8.1  | 10.7                                       | 198                            |
| Kampong Speu                 | 3.4                         | 5.3  | 6.3  | 389                            |
| Kampong Thom                 | 0.0                         | 0.0  | 0.0  | 271                            |
| Kandal                       | 1.5                         | 7.4  | 7.6  | 412                            |
| Kratie                       | 2.3                         | 11.0   | 11.3                                       | 205                            |
| Phnom Penh                   | 1.7                         | 2.0  | 3.3  | 503                            |
| Prey Veng                    | 0.7                         | 0.2  | 0.7  | 397                            |
| Pursat                       | 10.8                        | 12.4   | 16.3                                       | 243                            |
| Siem Reap                    | 7.9                         | 12.6   | 16.7                                       | 370                            |
| Svay Rieng                   | 3.8                         | 4.6  | 5.9  | 223                            |
| Takeo                        | 1.9                         | 4.6  | 4.6  | 317                            |
| Otdar Meanchey               | 11.1                        | 17.4   | 20.1                                       | 113                            |
| Battambang/Pailin            | 5.2                         | 21.0   | 23.8                                       | 449                            |
| Kampot/Kep                   | 1.9                         | 9.0  | 9.0  | 232                            |
| Preah Sihanouk/<br>Koh Kong  | 4.7                         | 13.2   | 14.7                                       | 136                            |
| Preah Vihear/<br>Stung Treng | 3.2                         | 8.0  | 9.9  | 183                            |
| Mondul Kiri/<br>Ratanak Kiri | 3.1                         | 5.0  | 5.5  | 164                            |
| <b>Mother's education</b>    |                             |  |  |                                |
| No education                 | 10.5                        | 14.5   | 19.9                                       | 774                            |
| Primary                      | 4.9                         | 8.5  | 10.1                                       | 3,041                          |
| Secondary and higher         | 2.4                         | 4.2  | 5.5  | 2,009                          |
| <b>Wealth quintile</b>       |                             |  |  |                                |
| Lowest                       | 8.0                         | 12.1   | 15.6                                       | 1,327                          |
| Second                       | 5.7                         | 9.6  | 11.3                                       | 1,181                          |
| Middle                       | 4.5                         | 6.8  | 8.9  | 1,119                          |
| Fourth                       | 3.8                         | 6.1  | 7.9  | 1,050                          |
| Highest                      | 1.3                         | 3.6  | 4.4  | 1,147                          |
| <b>Total</b>                 | <b>4.8</b>                  | <b>7.8</b>   | <b>9.8</b>                                 | <b>5,824</b>                   |

Children age 24-59 months were twice as likely to be left without adequate care (13 percent) as children age 0-23 months (6 percent). There was no variation in the proportion left with inadequate care by sex of the child. A higher percentage of rural children (11 percent) than urban children (5 percent) received inadequate care, and there were substantial differences by province. In addition, differences were observed with regard to both the educational level of the mother and the socioeconomic status of the household. The proportion of children who were left with inadequate care was three times higher among those whose mothers had no education than among those whose mothers had a secondary education or higher (20 percent versus 6 percent). Similarly, 16 percent of children living in the poorest households were left with inadequate care, as compared with 4 percent of children living in the wealthiest households.

### 15.3 EARLY CHILDHOOD DEVELOPMENT

Early child development is defined as an orderly, predictable process along a continuous path in which a child learns to handle more complicated levels of moving, thinking, speaking, feeling, and relating to others. Physical growth, literacy and numeracy skills, socio-emotional development, and readiness to learn are vital domains of a child's overall development, which is a basis for overall human development.

A 10-item module was used to calculate the Early Child Development Index (ECDI). The ECDI is based on benchmarks that children are expected to reach if they are progressing in their development at a pace similar to the majority of children in their age group. The primary purpose of the ECDI is to inform public policy regarding the developmental status of children in Cambodia. Each of the 10 items is used in one of four domains to determine whether children are developmentally on track in that domain. The domains in question are as follows.

- **Literacy-numeracy:** Children are identified as being developmentally on track according to whether they can identify/name at least 10 letters of the alphabet; whether they can read at least four simple, popular words; and whether they know the names and recognize the symbols of all numbers from 1 to 10. If at least two of these capabilities are observed, the child is considered developmentally on track.
- **Physical:** If the child can pick up a small object such as a stick or a rock from the ground with two fingers and/or the mother does not indicate that the child is sometimes too sick to play, then the child is regarded as being developmentally on track in the physical domain.
- **Social-emotional:** A child is considered to be developmentally on track if two of the following are true: the child gets along well with other children; the child does not kick, bite, or hit other children; and the child does not become distracted easily.
- **Learning:** If the child follows simple directions on how to do something correctly and/or when given something to do, and is able to do it independently, then the child is considered to be developmentally on track in this domain.

The ECDI score is calculated as the percentage of children who are developmentally on track in at least three of these four domains.

The percentages of children age 36-59 months who are developmentally on track in the literacy-numeracy, physical, social-emotional, and learning domains, as well as ECDI scores, are presented in Table 15.5. Analysis of the four domains of child development shows that at least 7 in 10 children are on track in the physical, social-emotional, and learning domains (70-91 percent). However, only about 1 in 4 children age 36-59 months (27 percent) are developmentally on track in literacy-numeracy. There is practically no difference in literacy-numeracy between boys and girls. A much higher proportion of urban children than rural children are on track in the literacy-numeracy domain (43 percent versus 25 percent). Forty-one percent of children whose mothers have a secondary education or higher are on track in the literacy-numeracy domain, as compared with only 13 percent of children whose mothers have no education. Nearly half of children (46 percent) in the richest households are on track in the literacy-numeracy domain, compared with 18 percent of children in the poorest households.

Table 15.5 Early Child Development Index

Percentage of children age 36-59 months who are developmentally on track in literacy-numeracy, physical, social-emotional, and learning domains, and the Early Child Development Index score, according to background characteristics, Cambodia 2014

| Background characteristic    | Percentage of children age 36-59 months who are developmentally on track for indicated domains |                       |                               |                       | Early Child Development Index score <sup>2</sup> | Number of children age 36-59 months |
|------------------------------|--|-----------------------|-------------------------------|-----------------------|--|-------------------------------------|
|                              | Literacy-numeracy <sup>1</sup>   | Physical <sup>1</sup> | Social-emotional <sup>1</sup> | Learning <sup>1</sup> |  |                                     |
| <b>Age in months</b>         |  |                       |                               |                       |  |                                     |
| 36-47                        | 21.0   | 89.2                  | 70.1                          | 88.5                  | 64.7   | 1,303                               |
| 48-59                        | 33.6   | 93.5                  | 69.6                          | 90.8                  | 71.7   | 1,314                               |
| <b>Child's sex</b>           |  |                       |                               |                       |  |                                     |
| Male                         | 26.6   | 91.2                  | 69.0                          | 89.7                  | 67.1   | 1,303                               |
| Female                       | 28.1   | 91.6                  | 70.7                          | 89.7                  | 69.3   | 1,314                               |
| <b>Residence</b>             |  |                       |                               |                       |  |                                     |
| Urban                        | 42.5   | 94.9                  | 72.6                          | 95.5                  | 78.2   | 348                                 |
| Rural                        | 25.0   | 90.8                  | 69.4                          | 88.8                  | 66.7   | 2,269                               |
| <b>Province</b>              |  |                       |                               |                       |  |                                     |
| Banteay Meanchey             | 55.9   | 98.8                  | 82.5                          | 98.8                  | 88.7   | 73                                  |
| Kampong Cham                 | 28.8   | 88.3                  | 73.1                          | 93.9                  | 68.4   | 395                                 |
| Kampong Chhnang              | 59.1   | 100.0                 | 79.5                          | 85.6                  | 85.8   | 91                                  |
| Kampong Speu                 | 7.7  | 97.6                  | 67.5                          | 74.6                  | 49.1   | 178                                 |
| Kampong Thom                 | 32.0   | 85.1                  | 78.6                          | 93.9                  | 69.3   | 119                                 |
| Kandal                       | 23.4   | 77.9                  | 53.4                          | 98.6                  | 49.3   | 181                                 |
| Kratie                       | 14.3   | 81.2                  | 66.3                          | 83.5                  | 55.1   | 93                                  |
| Phnom Penh                   | 48.0   | 97.7                  | 77.3                          | 98.1                  | 84.2   | 209                                 |
| Prey Veng                    | 48.9   | 93.5                  | 89.7                          | 92.8                  | 90.9   | 188                                 |
| Pursat                       | 14.7   | 97.6                  | 70.8                          | 88.7                  | 67.4   | 101                                 |
| Siem Reap                    | 15.4   | 92.0                  | 64.6                          | 86.1                  | 61.0   | 184                                 |
| Svay Rieng                   | 18.5   | 95.2                  | 67.1                          | 90.8                  | 70.1   | 102                                 |
| Takeo                        | 25.4   | 85.3                  | 58.8                          | 76.4                  | 60.0   | 146                                 |
| Otdar Meanchey               | 17.7   | 75.6                  | 54.1                          | 81.9                  | 48.6   | 48                                  |
| Battambang/Pailin            | 8.3  | 97.0                  | 76.1                          | 97.5                  | 80.3   | 178                                 |
| Kampot/Kep                   | 39.9   | 97.7                  | 72.6                          | 93.2                  | 76.8   | 104                                 |
| Preah Sihanouk/<br>Koh Kong  | 49.2   | 96.7                  | 76.1                          | 94.4                  | 86.6   | 60                                  |
| Preah Vihear/<br>Stung Treng | 4.4  | 96.4                  | 72.9                          | 95.4                  | 68.6   | 83                                  |
| Mondul Kiri/<br>Ratanak Kiri | 12.6   | 83.2                  | 20.7                          | 57.5                  | 24.8   | 85                                  |
| <b>Mother's education</b>    |  |                       |                               |                       |  |                                     |
| No education                 | 12.9   | 89.0                  | 69.9                          | 88.2                  | 61.4   | 413                                 |
| Primary                      | 24.1   | 90.5                  | 68.7                          | 88.8                  | 65.7   | 1,423                               |
| Secondary and higher         | 40.8   | 94.1                  | 71.9                          | 92.0                  | 76.3   | 782                                 |
| <b>Wealth quintile</b>       |  |                       |                               |                       |  |                                     |
| Lowest                       | 18.0   | 88.5                  | 67.5                          | 85.3                  | 61.0   | 661                                 |
| Second                       | 21.4   | 92.6                  | 70.5                          | 89.9                  | 67.3   | 564                                 |
| Middle                       | 23.7   | 91.5                  | 69.2                          | 89.7                  | 66.2   | 473                                 |
| Fourth                       | 32.2   | 90.4                  | 70.3                          | 89.7                  | 69.4   | 423                                 |
| Highest                      | 45.8   | 94.5                  | 72.5                          | 95.1                  | 79.7   | 497                                 |
| Total                        | 27.3   | 91.4                  | 69.8                          | 89.7                  | 68.2   | 2,617                               |

<sup>1</sup> See the text for the items included in each domain.

<sup>2</sup> Percentage of children who are developmentally on track for at least three of the four domains

Seven in 10 children age 36-59 months (68 percent) are developmentally on track (i.e., on track in at least three of the four domains). Urban children are more likely than rural children to be developmentally on track (78 percent versus 67 percent). The proportion of children developmentally on track varies substantially by province, from a low of 25 percent in Mondul Kiri/Ratanak Kiri to a high of 91 percent in Prey Veng. ECDI scores are positively associated with mother's education and household wealth (Table 15.5).





**Key Findings**

- Thirty-two percent of children under age 5 are stunted, 10 percent are wasted, and 24 percent are underweight.
- Breastfeeding is nearly universal in Cambodia. Ninety-six percent of children born in the last two years have been breastfed.
- The median duration of breastfeeding among children born in the three years before the survey is 18 months.
- Sixty-five percent of children less than age 6 months are exclusively breastfed, and the median duration of exclusive breastfeeding is four months.
- More than 8 in 10 (82 percent) children age 6-8 months (both breastfed and nonbreastfed) are introduced to complementary foods at an appropriate time.
- Overall, 30 percent of children age 6-23 months are fed appropriately based on recommended infant and young child feeding (IYCF) practices.
- Fourteen percent of women age 15-49 are underweight, that is, they fall below the body mass index (BMI) cutoff of 18.5. Eighteen percent of women are overweight or obese. The percentage of women who are overweight or obese has increased steadily over the last decade.
- Three-quarters (76 percent) of women age 15-49 with a birth in the last five years took iron tablets or syrup during the pregnancy of their last birth for more than 90 days, 72 percent took deworming medication during their most recent pregnancy, and 49 percent received iron supplementation postpartum.

Nutritional status is the result of complex interactions between food consumption and the overall status of health and care practices. Numerous socioeconomic and cultural factors influence decisions on patterns of feeding and nutritional status. Adequate nutrition is critical to child development. The period from birth to age 2 is important to optimal growth, health, and development. During this period, children who do not receive adequate nutrition can be susceptible to growth faltering, micronutrient deficiencies, and common childhood illnesses such as diarrhea and acute respiratory infections. Among women, malnutrition can result in reduced productivity, an increased susceptibility to infections, slow recovery from illness, and a heightened risk of adverse pregnancy outcomes. A woman who has poor nutritional status, as indicated by a low body mass index (BMI), short stature, anemia, or other micronutrient deficiency, has a greater risk of obstructed labor, of having a baby with a low birth weight, of producing lower quality breast milk, of mortality due to postpartum hemorrhage, and of morbidity for both herself and her baby.

The 2014 CDHS asked questions about early initiation of breastfeeding, exclusive breastfeeding during the first six months of life, continued breastfeeding until at least age 2, timely introduction of complementary foods at age 6 months (with increasing frequency of feeding solid and semisolid foods), and diet diversity. The height and weight of all children under age 5 and women age 15-49 were measured. This chapter presents findings on infant feeding practices, maternal eating patterns, household testing of salt for adequate levels of iodine, and the nutritional status of women and children.



## 16.1 NUTRITIONAL STATUS OF CHILDREN

Nutritional status of children under age 5 is an important measure of children's health. The anthropometric data on height and weight collected in the 2014 CDHS permit the evaluation of the nutritional status of young children in Cambodia.

### 16.1.1 Measurement of Nutritional Status among Young Children

In addition to questions about feeding practices of infants and young children, the 2014 CDHS included an anthropometric component in which children under age 5 in a subsample of two-thirds of the survey households were measured for height and weight. Weight measurements were taken using a lightweight electronic SECA scale designed and manufactured under the guidance of the United Nations Children's Fund (UNICEF). The scale allowed for the weighing of very young children through an automatic mother-child adjustment that eliminated the mother's weight while she was standing on the scale with her baby. Height measurements were carried out using a SECA measuring board also produced under the guidance of UNICEF. Children younger than age 24 months were measured lying down (recumbent length) on the board, whereas standing height was measured for older children. Based on these measurements, three internationally accepted indices were constructed and are used to reflect the nutritional status of children. These are:

- Height-for-age (stunting)
- Weight-for-height (wasting)
- Weight-for-age (underweight)

In the 2005 CDHS, children's anthropometric measurements were compared with an international reference population defined by the U.S. National Center for Health Statistics (NCHS) and accepted by the U.S. Centers for Disease Control and Prevention (CDC). However, in the 2010 and 2014 CDHS surveys, as recommended by the World Health Organization (WHO), the nutritional status of children in the survey population was compared with the 2006 WHO child growth standards (WHO, 2006), which are based on an international sample (from Brazil, Ghana, India, Norway, Oman, and the United States) of ethnically, culturally, and genetically diverse healthy children living under optimum conditions conducive to achieving a child's full genetic growth potential. The 1977 NCHS/CDC/WHO reference was replaced with the 2006 WHO child growth standards because of the prescriptive rather than descriptive nature of the WHO standards versus the NCHS reference. Also, the 2006 WHO child growth standards identify the breastfed child as the normative model for growth and development and document how children should grow under optimum conditions and infant feeding and child health practices.

The use of the 2006 WHO child growth standards is based on the finding that well-nourished children in all population groups for which data exist follow very similar growth patterns before puberty. The internationally based standard population serves as a point of comparison, facilitating examination of differences in the anthropometric status of subgroups in a population and of changes in nutritional status over time.

The height-for-age index is an indicator of linear growth retardation and cumulative growth deficits. Children whose height-for-age Z-score is below minus two standard deviations (-2 SD) from the mean of the reference population are considered short for their age (stunted) and are chronically malnourished. Children who are below minus three standard deviations (-3 SD) from the mean of the reference population are considered severely stunted. Stunting reflects failure to receive adequate nutrition over a long period of time and is also affected by recurrent and chronic illness. Height-for-age, therefore, represents the long-term effects of malnutrition in a population and does not vary according to recent dietary intake.

The weight-for-height index measures body mass in relation to body length and describes current nutritional status. Children whose Z-scores are below minus two standard deviations (-2 SD) from the mean of the reference population are considered thin (wasted) for their height and are acutely malnourished. Wasting represents the failure to receive adequate nutrition in the period immediately preceding the survey and may be the result of inadequate food intake or a recent episode of illness causing loss of weight and the onset of malnutrition. Children whose weight-for-height is below minus three standard deviations (-3 SD) from the mean of the reference population are considered severely wasted. Overweight and obesity are other forms of malnutrition that are becoming concerns for some children in developing countries. Children whose Z-score values are more than two standard deviations (+2 SD) above the median for weight-for-height are considered overweight.

Weight-for-age is a composite index of height-for-age and weight-for-height. It takes into account both acute and chronic malnutrition. Children whose weight-for-age is below minus two standard deviations (-2 SD) from the mean of the reference population are classified as underweight. Children whose weight-for-age is below minus three standard deviations (-3 SD) from the mean of the reference population are considered severely underweight.

A total of 5,120 children under age 5 were eligible to be measured for weight and height. Of these children, 96 percent had complete data on their age and on their weight and height measurements. The following analysis focuses on the 4,893 children for whom complete and valid anthropometric data were collected.

### **16.1.2 Measures of Child Nutritional Status**

Overall, 32 percent of Cambodian children under age 5 are stunted, and 9 percent are severely stunted (Table 16.1 and Figure 16.1). Analysis by age group indicates that stunting is apparent even among children less than age 6 months (16 percent). In general, stunting increases with the age of the child, rising from 13 percent among children age 6-8 months to 40 percent among children age 36-47 months before declining to 36 percent among children age 48-59 months. There is very little difference in the level of stunting by gender. Stunting is highest when the birth interval is less than 24 months (37 percent). Size at birth is an important indicator of children's nutritional status. Nearly 2 in 3 children (63 percent) reported to have been very small at birth are stunted. Children whose mothers are underweight are more likely to be stunted (44 percent) than children of normal weight mothers (32 percent). The disparity in stunting prevalence between rural and urban children is substantial: 34 percent of rural children are stunted, as compared with 24 percent of urban children. Variation in the nutritional status of children by province is quite evident, with stunting being highest in Preah Vihear/Stung Treng (44 percent) and Kampong Chhnang (43 percent) and lowest in Phnom Penh (18 percent). Mother's education and wealth quintile have an inverse relationship with stunting levels. For example, the prevalence of stunting is higher among children living in the poorest households (42 percent) than among children in the richest households (19 percent).

Ten percent of children under age 5 are wasted, and 2 percent are severely wasted. There is a substantial correlation between wasting and size at birth. Babies who are very small and small at birth are more likely to be wasted (24 percent and 17 percent, respectively) than those of average or larger size at birth (9 percent). The prevalence of wasting among children of thin mothers (BMI below 18.5) is more than twice that of children whose mothers are either normal weight or overweight/obese. Wasting is higher among rural children than urban children (10 percent versus 8 percent) and is highest in Takeo and Otdar Meanchey (15 percent each). Wasting prevalence varies inconsistently by age of the child and does not differ substantially by sex. It is highest among children whose mothers have no education and those in the lowest two wealth quintiles.

Overweight and obesity affect a very small proportion of children in Cambodia. Overall, 2 percent of children below age 5 are overweight (weight-for-height more than +2 SD). Overweight among children tends to decrease with increasing age. There are no substantial differences by other characteristics.

Table 16.1 Nutritional status of children

Percentage of children under age 5 classified as malnourished according to three anthropometric indices of nutritional status: height-for-age, weight-for-height, and weight-for-age, by background characteristics, Cambodia 2014

| Background characteristic                             | Height-for-age <sup>1</sup> |                                     |                   | Weight-for-height      |                                     |                        |                   | Weight-for-age         |                                     |                        |                   | Number of children |
|---|-----------------------------|-------------------------------------|-------------------|------------------------|-------------------------------------|------------------------|-------------------|------------------------|-------------------------------------|------------------------|-------------------|--------------------|
|   | Percentage below -3 SD      | Percentage below -2 SD <sup>2</sup> | Mean Z-score (SD) | Percentage below -3 SD | Percentage below -2 SD <sup>2</sup> | Percentage above +2 SD | Mean Z-score (SD) | Percentage below -3 SD | Percentage below -2 SD <sup>2</sup> | Percentage above +2 SD | Mean Z-score (SD) |                    |
| <b>Age in months</b>                                  |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| <6  | 6.1                         | 16.1                                | (0.4)             | 5.4                    | 12.8                                | 6.0                    | (0.3)             | 3.2                    | 11.5                                | 1.3                    | (0.6)             | 426                |
| 6-8   | 1.2                         | 13.1                                | (0.6)             | 2.3                    | 6.5                                 | 4.8                    | (0.3)             | 1.9                    | 8.5                                 | 2.2                    | (0.6)             | 252                |
| 9-11  | 3.9                         | 16.6                                | (0.9)             | 2.3                    | 14.2                                | 3.1                    | (0.7)             | 3.0                    | 15.4                                | 0.5                    | (1.0)             | 225                |
| 12-17   | 6.4                         | 28.1                                | (1.3)             | 3.1                    | 10.6                                | 3.5                    | (0.7)             | 2.6                    | 21.2                                | 1.0                    | (1.1)             | 515                |
| 18-23   | 11.3                        | 33.8                                | (1.5)             | 2.8                    | 10.9                                | 0.7                    | (0.7)             | 5.4                    | 19.6                                | 0.3                    | (1.2)             | 545                |
| 24-35   | 10.8                        | 38.5                                | (1.6)             | 1.8                    | 8.0                                 | 1.8                    | (0.6)             | 4.3                    | 24.9                                | 0.9                    | (1.3)             | 1,013              |
| 36-47   | 10.9                        | 39.8                                | (1.8)             | 1.9                    | 9.3                                 | 0.7                    | (0.8)             | 7.1                    | 31.4                                | 0.1                    | (1.5)             | 978                |
| 48-59   | 9.4                         | 36.0                                | (1.7)             | 1.2                    | 8.7                                 | 0.5                    | (0.8)             | 5.1                    | 30.9                                | 0.2                    | (1.6)             | 939                |
| <b>Sex</b>  |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| Male  | 9.4                         | 32.9                                | (1.4)             | 2.7                    | 9.9                                 | 2.3                    | (0.6)             | 4.5                    | 23.2                                | 0.8                    | (1.2)             | 2,497              |
| Female  | 8.4                         | 31.9                                | (1.4)             | 1.9                    | 9.3                                 | 1.6                    | (0.7)             | 4.8                    | 24.6                                | 0.5                    | (1.3)             | 2,395              |
| <b>Birth interval in months<sup>3</sup></b>           |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| First birth <sup>4</sup>                              | 8.3                         | 30.2                                | (1.4)             | 2.3                    | 9.6                                 | 2.1                    | (0.7)             | 3.3                    | 24.3                                | 0.7                    | (1.3)             | 1,683              |
| <24   | 11.7                        | 37.4                                | (1.5)             | 2.3                    | 10.5                                | 2.3                    | (0.8)             | 9.3                    | 31.1                                | 0.9                    | (1.4)             | 336                |
| 24-47   | 9.5                         | 34.1                                | (1.5)             | 2.4                    | 9.9                                 | 2.0                    | (0.7)             | 6.3                    | 25.0                                | 0.6                    | (1.3)             | 1,102              |
| 48+   | 7.8                         | 31.0                                | (1.3)             | 2.7                    | 9.5                                 | 1.8                    | (0.7)             | 3.6                    | 21.0                                | 0.5                    | (1.2)             | 1,139              |
| <b>Size at birth<sup>3</sup></b>                      |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| Very small  | 25.6                        | 63.1                                | (2.3)             | 3.6                    | 23.6                                | 4.8                    | (1.0)             | 16.5                   | 58.9                                | 2.6                    | (2.0)             | 96                 |
| Small   | 13.9                        | 40.5                                | (1.7)             | 2.3                    | 16.7                                | 1.0                    | (0.9)             | 7.1                    | 38.5                                | 0.0                    | (1.6)             | 368                |
| Average or larger                                     | 7.8                         | 30.2                                | (1.4)             | 2.4                    | 8.6                                 | 2.0                    | (0.7)             | 4.1                    | 21.8                                | 0.7                    | (1.2)             | 3,772              |
| <b>Mother's interview status</b>                      |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| Interviewed   | 8.7                         | 32.0                                | (1.4)             | 2.4                    | 9.7                                 | 2.0                    | (0.7)             | 4.6                    | 24.1                                | 0.6                    | (1.3)             | 4,261              |
| Not interviewed but in household                      | 2.5                         | 36.0                                | (1.2)             | 1.4                    | 11.4                                | 5.1                    | (0.5)             | 2.7                    | 23.1                                | 2.1                    | (1.0)             | 107                |
| Not interviewed and not in the household <sup>5</sup> | 11.9                        | 35.2                                | (1.5)             | 1.6                    | 8.4                                 | 0.8                    | (0.5)             | 5.3                    | 22.3                                | 0.2                    | (1.2)             | 525                |
| <b>Mother's nutritional status<sup>6</sup></b>        |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| Thin (BMI <18.5)                                      | 13.7                        | 44.0                                | (1.8)             | 2.5                    | 18.5                                | 0.7                    | (1.0)             | 11.0                   | 39.7                                | 0.4                    | (1.7)             | 461                |
| Normal (BMI 18.5-24.9)                                | 8.5                         | 31.8                                | (1.4)             | 2.3                    | 8.6                                 | 2.4                    | (0.6)             | 4.0                    | 23.9                                | 0.7                    | (1.3)             | 2,726              |
| Overweight/obese (BMI ≥25)                            | 6.2                         | 26.2                                | (1.3)             | 2.0                    | 6.7                                 | 1.7                    | (0.5)             | 2.5                    | 15.7                                | 0.9                    | (1.1)             | 671                |
| <b>Residence</b>                                      |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| Urban   | 5.9                         | 23.7                                | (1.1)             | 2.0                    | 7.5                                 | 3.1                    | (0.4)             | 2.6                    | 14.8                                | 1.9                    | (0.9)             | 674                |
| Rural   | 9.4                         | 33.8                                | (1.5)             | 2.4                    | 9.9                                 | 1.8                    | (0.7)             | 5.0                    | 25.4                                | 0.4                    | (1.3)             | 4,219              |
| <b>Province</b>                                       |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| Banteay Meanchey                                      | 6.9                         | 28.6                                | (1.3)             | 0.7                    | 7.8                                 | 0.7                    | (0.5)             | 5.3                    | 17.0                                | 0.0                    | (1.1)             | 241                |
| Kampong Cham  | 8.6                         | 33.5                                | (1.4)             | 1.5                    | 8.1                                 | 2.2                    | (0.7)             | 4.2                    | 25.7                                | 0.8                    | (1.3)             | 692                |
| Kampong Chhnang                                       | 13.5                        | 42.8                                | (1.7)             | 3.1                    | 11.2                                | 2.2                    | (0.9)             | 5.1                    | 35.6                                | 0.0                    | (1.5)             | 173                |
| Kampong Speu  | 10.0                        | 40.5                                | (1.7)             | 2.5                    | 11.5                                | 1.3                    | (0.8)             | 6.9                    | 29.4                                | 0.0                    | (1.5)             | 318                |
| Kampong Thom  | 10.7                        | 36.4                                | (1.3)             | 3.1                    | 13.0                                | 3.4                    | (0.8)             | 7.1                    | 27.7                                | 1.9                    | (1.3)             | 217                |
| Kandal  | 3.5                         | 28.1                                | (1.3)             | 3.2                    | 9.2                                 | 0.2                    | (0.8)             | 4.7                    | 26.2                                | 0.0                    | (1.3)             | 298                |
| Kratie  | 10.5                        | 38.4                                | (1.6)             | 2.7                    | 6.5                                 | 0.5                    | (0.7)             | 4.4                    | 25.1                                | 0.0                    | (1.4)             | 180                |
| Phnom Penh  | 4.9                         | 17.9                                | (0.9)             | 1.0                    | 8.4                                 | 3.7                    | (0.4)             | 2.2                    | 12.9                                | 3.4                    | (0.8)             | 391                |
| Prey Veng   | 8.7                         | 32.7                                | (1.5)             | 2.9                    | 8.6                                 | 1.8                    | (0.6)             | 3.4                    | 22.2                                | 0.3                    | (1.3)             | 379                |
| Pursat  | 18.4                        | 38.8                                | (1.8)             | 5.7                    | 12.3                                | 4.7                    | (0.6)             | 7.9                    | 31.6                                | 0.4                    | (1.4)             | 200                |
| Siem Reap   | 11.3                        | 35.9                                | (1.5)             | 2.3                    | 9.5                                 | 1.0                    | (0.7)             | 6.9                    | 26.2                                | 0.4                    | (1.3)             | 323                |
| Svay Rieng  | 8.2                         | 32.8                                | (1.4)             | 2.7                    | 7.6                                 | 3.6                    | (0.6)             | 3.6                    | 20.8                                | 0.5                    | (1.2)             | 190                |
| Takeo   | 6.4                         | 30.7                                | (1.3)             | 5.0                    | 14.6                                | 1.5                    | (0.8)             | 4.4                    | 22.7                                | 0.0                    | (1.3)             | 258                |
| Otdar Meanchey  | 14.0                        | 36.3                                | (1.3)             | 7.2                    | 15.1                                | 5.3                    | (0.7)             | 5.2                    | 26.4                                | 0.0                    | (1.3)             | 78                 |
| Battambang/Pailin                                     | 5.0                         | 24.9                                | (1.2)             | 0.3                    | 7.9                                 | 0.7                    | (0.6)             | 1.8                    | 18.2                                | 0.5                    | (1.1)             | 388                |
| Kampot/Kep  | 8.3                         | 25.2                                | (1.4)             | 0.9                    | 8.2                                 | 1.9                    | (0.7)             | 3.5                    | 21.1                                | 0.7                    | (1.3)             | 195                |
| Preah Sihanouk/<br>Koh Kong                           | 10.4                        | 33.4                                | (1.4)             | 3.1                    | 10.5                                | 1.8                    | (0.6)             | 6.5                    | 22.0                                | 0.0                    | (1.2)             | 105                |
| Preah Vihear/<br>Stung Treng                          | 14.0                        | 44.3                                | (1.8)             | 1.3                    | 13.8                                | 2.3                    | (0.7)             | 5.9                    | 30.7                                | 0.1                    | (1.5)             | 142                |
| Mondul Kiri/<br>Ratanak Kiri                          | 14.6                        | 39.8                                | (1.6)             | 1.4                    | 8.2                                 | 1.2                    | (0.6)             | 6.0                    | 26.2                                | 0.3                    | (1.4)             | 125                |
| <b>Mother's education<sup>7</sup></b>                 |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| No education  | 13.3                        | 38.5                                | (1.6)             | 2.8                    | 12.2                                | 1.5                    | (0.7)             | 7.4                    | 29.7                                | 0.4                    | (1.4)             | 577                |
| Primary   | 8.7                         | 34.1                                | (1.5)             | 2.1                    | 9.3                                 | 2.1                    | (0.7)             | 4.7                    | 24.6                                | 0.6                    | (1.3)             | 2,397              |
| Secondary and higher                                  | 6.8                         | 26.8                                | (1.3)             | 2.7                    | 9.9                                 | 2.0                    | (0.7)             | 3.5                    | 22.3                                | 0.6                    | (1.2)             | 1,278              |
| <b>Wealth quintile</b>                                |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| Lowest  | 14.1                        | 41.9                                | (1.7)             | 2.8                    | 11.0                                | 1.1                    | (0.8)             | 7.1                    | 31.0                                | 0.0                    | (1.5)             | 1,182              |
| Second  | 9.8                         | 37.1                                | (1.6)             | 2.3                    | 11.4                                | 2.1                    | (0.7)             | 5.7                    | 27.5                                | 0.5                    | (1.4)             | 998                |
| Middle  | 7.8                         | 31.7                                | (1.4)             | 2.1                    | 8.4                                 | 1.3                    | (0.7)             | 4.3                    | 23.3                                | 0.2                    | (1.3)             | 978                |
| Fourth  | 6.9                         | 29.1                                | (1.3)             | 2.5                    | 9.3                                 | 2.4                    | (0.7)             | 3.5                    | 22.0                                | 0.8                    | (1.2)             | 844                |
| Highest   | 4.1                         | 18.5                                | (0.9)             | 1.9                    | 7.4                                 | 3.3                    | (0.4)             | 1.7                    | 13.0                                | 2.1                    | (0.8)             | 891                |
| Total   | 8.9                         | 32.4                                | (1.4)             | 2.3                    | 9.6                                 | 2.0                    | (0.7)             | 4.7                    | 23.9                                | 0.6                    | (1.3)             | 4,893              |

Note: Table is based on children who stayed in the household on the night before the interview. Each of the indices is expressed in standard deviation units (SD) from the median of the WHO child growth standards adopted in 2006. The indices in this table are NOT comparable to those based on the previously used NCHS/CDC/WHO reference. Table is based on children with valid dates of birth (month and year) and valid measurement of both height and weight. Total includes 25 cases with missing information on size at birth.

<sup>1</sup> Recumbent length is measured for children under age 2 and in the few cases when the age of the child is unknown and the child is less than 85 cm; standing height is measured for all other children.

<sup>2</sup> Includes children who are below -3 standard deviations (SD) from the WHO child growth standards population median

<sup>3</sup> Excludes children whose mothers were not interviewed

<sup>4</sup> First-born twins (triplets, etc.) are counted as first births because they do not have a previous birth interval.

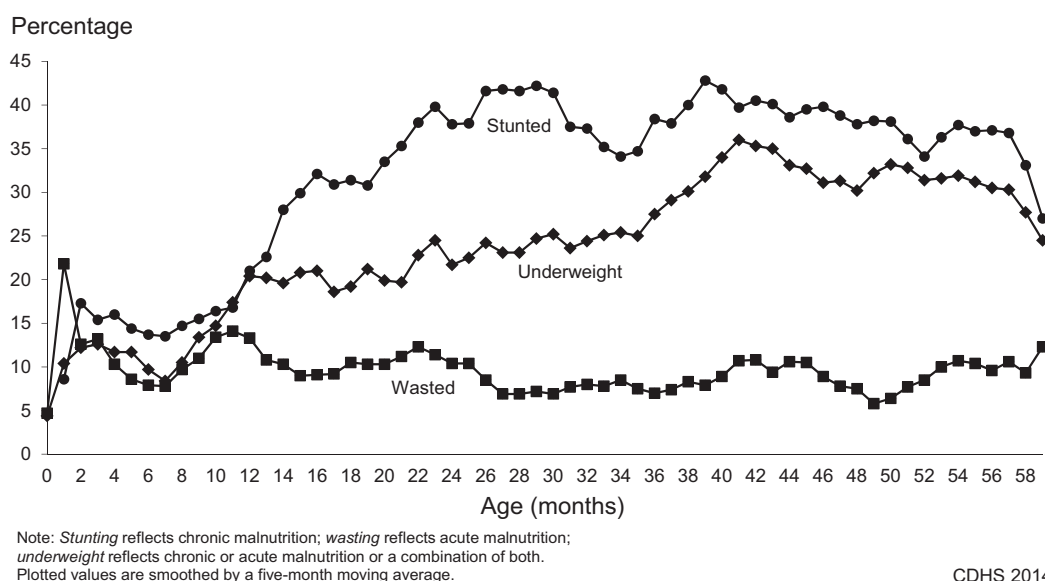
<sup>5</sup> Includes children whose mothers are deceased

<sup>6</sup> Excludes children whose mothers were not weighed and measured, children whose mothers were not interviewed, and children whose mothers are pregnant or gave birth within the preceding 2 months. Mother's nutritional status in terms of BMI (body mass index) is presented in Table 16.10.

<sup>7</sup> For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.

Twenty-four percent of children under age 5 are underweight (low weight-for-age), and 5 percent are severely underweight. Figure 16.1 shows that the percentage of children underweight increases steadily from 5 percent among children younger than age 2 months to more than 10 percent among children age 2-4 months, followed by a small decline among children age 6-8 months. The percentage then increases with increasing age and peaks among children age 40-42 months. This may be due to inappropriate and/or inadequate feeding practices because the percentage of underweight children begins to increase at the age when normal complementary feeding starts. The prevalence of underweight is 10 percentage points higher among rural children (25 percent) than among urban children (15 percent) (Table 16.1). More than half of the provinces in Cambodia (11 of 19) have percentages of underweight children above the national average. A mother's wealth status and educational level are negatively correlated with the likelihood that her child is underweight. Children born to mothers in the lowest wealth quintile are more than twice as likely (31 percent) to be underweight as children born to mothers in the highest wealth quintile (13 percent).

**Figure 16.1 Nutritional status of children by age**

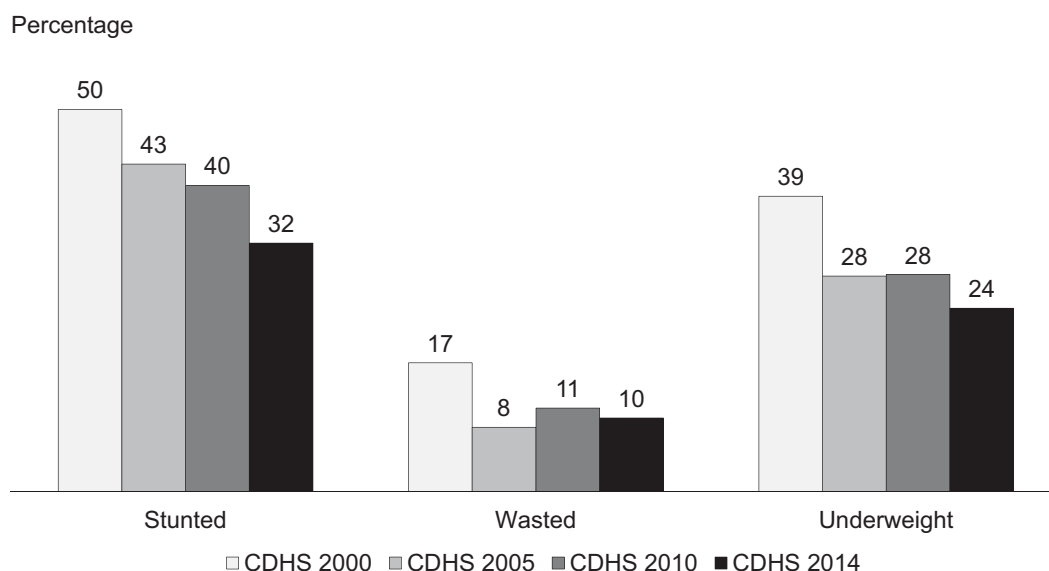


### 16.1.3 Trends in Children's Nutritional Status

Trends in children's nutritional status for the period 2000 to 2014 are shown in Figure 16.2. To allow assessment of trends, the data for 2000 and 2005 were recalculated using the 2006 WHO child growth standards. Figure 16.2 shows that there have been improvements in the nutritional status of children in the past 14 years. The percentage of children stunted fell consistently from 50 percent in 2000 to 32 percent in 2014. The percentage of children wasted declined from 17 percent in 2000 to 8 percent in 2005 before increasing to 11 percent in 2010 and subsequently dropping slightly to 10 percent in 2014. Underweight declined from 39 percent in 2000 to 28 percent in 2005 and 2010 and then decreased to 24 percent in 2014.

Although there have been improvements in the nutritional status of Cambodian children in the past decade and a half, there is still a need for more intensive interventions.

**Figure 16.2 Trends in nutritional status of children under age 5**



## 16.2 INITIATION OF BREASTFEEDING

Early initiation of breastfeeding is encouraged for a number of reasons. Mothers benefit from early suckling because it stimulates breast milk production and facilitates the release of oxytocin, which helps the uterus contract and reduces postpartum blood loss. The first breast milk contains colostrum, which is highly nutritious and has antibodies that protect the newborn from diseases. Early initiation of breastfeeding also fosters bonding between mother and child.

Table 16.2 shows the percentage of all children born in the two years before the survey by breastfeeding status and the timing of initial breastfeeding, according to background characteristics. In the 2010 CDHS, initial breastfeeding data were collected for children of the same age (0-2 years) as in the 2014 survey; however, in the 2000 and 2005 CDHS surveys, initial breastfeeding data were collected for all children less than age 5, and thus caution should be exercised in comparing the results of the 2010 and 2014 surveys with previous survey results.

Ninety-six percent of children born in the two years preceding the survey were breastfed at some point of time. Young children living in rural areas at the time of the survey are more likely to have ever been breastfed than children living in urban areas. The proportion of children ever breastfed ranges from a low of 91 percent in Phnom Penh to a high of over 99 percent in Mondul Kiri/Ratanak Kiri and Prey Veng. Children in the lowest wealth quintile are more likely to have ever been breastfed (98 percent) than children in the highest wealth quintile (92 percent).

Sixty-three percent of children are breastfed within one hour of birth, and 87 percent are breastfed within one day of birth.

Several background characteristics have important influences on early breastfeeding practices. For example, early initiation of breastfeeding is more common among children whose mothers delivered in a health facility and whose birth was assisted by a health professional than among children delivered at home or by a traditional birth attendant. In addition, the proportion of children breastfed within one hour of birth is highest in Kampong Thom (85 percent) and lowest in Mondul Kiri/Ratanak Kiri (16 percent). There is no consistent association between early breastfeeding and mother's education and wealth.

Table 16.2 Initial breastfeeding

Among last-born children who were born in the two years preceding the survey, the percentage who were ever breastfed and the percentages who started breastfeeding within one hour and within one day of birth, and among last-born children born in the two years preceding the survey who were ever breastfed, the percentage who received a prelacteal feed, by background characteristics, Cambodia 2014

| Background characteristic        | Among last-born children born in the past two years: |   |   |                              | Among last-born children born in the past two years who were ever breastfed: |   |
|----------------------------------|--|---|---|------------------------------|--|---|
|                                  | Percentage ever breastfed                            | Percentage who started breastfeeding within 1 hour of birth | Percentage who started breastfeeding within 1 day of birth <sup>1</sup> | Number of last-born children | Percentage who received a prelacteal feed <sup>2</sup>                       | Number of last-born children ever breastfed |
| <b>Sex</b>                       |  |   |   |                              |  |   |
| Male                             | 96.8   | 60.9  | 86.7  | 1,471                        | 27.0   | 1,425                                       |
| Female                           | 95.6   | 64.2  | 87.8  | 1,473                        | 28.3   | 1,409                                       |
| <b>Assistance at delivery</b>    |  |   |   |                              |  |   |
| Health professional <sup>3</sup> | 96.3   | 63.9  | 88.1  | 2,730                        | 27.6   | 2,628                                       |
| Traditional birth attendant      | 98.0   | 45.1  | 78.4  | 207                          | 29.1   | 202   |
| <b>Place of delivery</b>         |  |   |   |                              |  |   |
| Health facility                  | 96.3   | 64.3  | 88.1  | 2,614                        | 27.5   | 2,516                                       |
| At home                          | 96.8   | 49.1  | 81.0  | 325                          | 28.6   | 314   |
| <b>Residence</b>                 |  |   |   |                              |  |   |
| Urban                            | 91.7   | 50.6  | 79.1  | 414                          | 50.2   | 380   |
| Rural                            | 97.0   | 64.5  | 88.6  | 2,531                        | 24.2   | 2,454                                       |
| <b>Province</b>                  |  |   |   |                              |  |   |
| Banteay Meanchey                 | 94.2   | 67.7  | 78.4  | 120                          | 28.7   | 113   |
| Kampong Cham                     | 96.9   | 72.6  | 82.9  | 418                          | 38.4   | 404   |
| Kampong Chhnang                  | 97.7   | 47.5  | 95.6  | 111                          | 10.6   | 108   |
| Kampong Speu                     | 97.3   | 56.2  | 95.8  | 182                          | 26.0   | 177   |
| Kampong Thom                     | 95.9   | 84.7  | 95.1  | 141                          | 8.7  | 135   |
| Kandal                           | 95.5   | 69.5  | 86.1  | 193                          | 39.8   | 184   |
| Kratie                           | 98.4   | 64.0  | 82.7  | 107                          | 27.8   | 106   |
| Phnom Penh                       | 91.0   | 37.2  | 75.8  | 257                          | 61.0   | 234   |
| Prey Veng                        | 99.4   | 65.8  | 94.1  | 194                          | 22.0   | 193   |
| Pursat                           | 96.8   | 72.5  | 93.9  | 122                          | 7.6  | 118   |
| Siem Reap                        | 97.2   | 65.6  | 86.2  | 182                          | 23.7   | 177   |
| Svay Rieng                       | 93.3   | 68.8  | 82.5  | 108                          | 25.8   | 101   |
| Takeo                            | 93.8   | 58.1  | 92.0  | 164                          | 16.3   | 154   |
| Otdar Meanchey                   | 98.8   | 49.2  | 97.3  | 54                           | 5.6  | 54  |
| Battambang/Pailin                | 96.9   | 72.4  | 87.8  | 247                          | 29.9   | 239   |
| Kampot/Kep                       | 96.1   | 37.9  | 85.3  | 116                          | 24.6   | 112   |
| Preah Sihanouk/<br>Koh Kong      | 96.9   | 76.6  | 89.8  | 61                           | 24.7   | 60  |
| Preah Vihear/<br>Stung Treng     | 98.9   | 77.3  | 97.7  | 92                           | 8.4  | 91  |
| Mondul Kiri/<br>Ratanak Kiri     | 99.7   | 15.9  | 76.2  | 75                           | 17.3   | 75  |
| <b>Mother's education</b>        |  |   |   |                              |  |   |
| No education                     | 96.7   | 58.4  | 86.1  | 366                          | 21.6   | 354   |
| Primary                          | 96.3   | 66.6  | 88.3  | 1,491                        | 23.2   | 1,436                                       |
| Secondary and higher             | 96.0   | 58.4  | 86.2  | 1,088                        | 35.9   | 1,044                                       |
| <b>Wealth quintile</b>           |  |   |   |                              |  |   |
| Lowest                           | 97.6   | 62.8  | 90.6  | 694                          | 14.5   | 677   |
| Second                           | 96.1   | 62.2  | 86.0  | 589                          | 20.7   | 566   |
| Middle                           | 97.7   | 71.0  | 89.9  | 565                          | 25.7   | 552   |
| Fourth                           | 97.4   | 64.1  | 89.1  | 536                          | 31.9   | 522   |
| Highest                          | 92.2   | 52.8  | 80.1  | 560                          | 50.4   | 516   |
| Total                            | 96.2   | 62.6  | 87.3  | 2,944                        | 27.7   | 2,834                                       |

Note: Table is based on last-born children born in the two years preceding the survey regardless of whether the children are living or dead at the time of the interview. Total includes cases for which information on place of delivery and assistance at delivery is missing.

<sup>1</sup> Includes children who started breastfeeding within one hour of birth

<sup>2</sup> Children given something other than breast milk during the first three days of life

<sup>3</sup> Doctor, nurse, or midwife

Twenty-eight percent of children receive a prelacteal feed, that is, something other than breast milk during the first three days of life. The proportions of children who receive a prelacteal feed in the first three days of life do not differ significantly by sex of the child, assistance at delivery, or place of delivery. Children residing in urban areas are twice as likely as children residing in rural areas to receive a prelacteal feed. More than 3 in 5 children living in Phnom Penh (61 percent) receive a prelacteal feed after birth. Prelacteal feeding increases as the level of mother's education and wealth increase. The percentage of children who receive a prelacteal feed is lower among those whose mothers have no schooling (22 percent)



than among those whose mothers have a primary education (23 percent) or a secondary education or higher (36 percent). Fifteen percent of children in the lowest quintile receive a prelacteal feed, as compared with 50 percent of children in the highest wealth quintile.

### 16.3 BREASTFEEDING STATUS BY AGE

UNICEF and WHO recommend that children be exclusively breastfed during the first six months of life and that children be given solid or semisolid complementary food in addition to continued breastfeeding from six months to 24 months. Exclusive breastfeeding is recommended because breast milk is uncontaminated and contains all of the nutrients necessary for children in the first few months of life. In addition, the mother's antibodies in breast milk provide immunity to disease. Early supplementation is discouraged for several reasons. First, it exposes infants to pathogens and increases their risk of infection, especially disease. Second, it decreases infants' intake of breast milk and therefore suckling, which reduces breast milk production. Third, in a harsh socioeconomic environment, supplementary food is often nutritionally inferior.

Information on complementary feeding was obtained by asking mothers about the current breastfeeding status of all children under age 2 and food (liquids or solids) given to the child the day and night before the survey.

Table 16.3 Breastfeeding status by age

Percent distribution of youngest children under age 2 who are living with their mother by breastfeeding status and the percentage currently breastfeeding, and the percentage of all children under age 2 using a bottle with a nipple, according to age in months, Cambodia 2014

| Age in months | Breastfeeding status |                       |   |  |   |  | Total | Percentage currently breast-feeding | Number of youngest children under age 2 living with their mother | Percentage using a bottle with a nipple | Number of all children under age 2 |
|---------------|----------------------|-----------------------|---|--|---|--|-------|-------------------------------------|--|---|------------------------------------|
|               | Not breast-feeding   | Exclusively breastfed | Breast-feeding and consuming plain water only | Breast-feeding and consuming non-milk liquids <sup>1</sup> | Breast-feeding and consuming other milk | Breast-feeding and consuming complementary foods |       |                                     |  |   |                                    |
| 0-1           | 3.6                  | 79.9                  | 5.6   | 0.4  | 7.6                                     | 2.9  | 100.0 | 96.4                                | 210  | 8.6                                     | 213                                |
| 2-3           | 6.6                  | 67.1                  | 14.7  | 2.1  | 6.2                                     | 3.3  | 100.0 | 93.4                                | 257  | 16.2                                    | 262                                |
| 4-5           | 9.4                  | 50.9                  | 12.5  | 0.3  | 7.9                                     | 18.9   | 100.0 | 90.6                                | 249  | 32.5                                    | 260                                |
| 6-8           | 7.2                  | 9.0                   | 5.8   | 0.4  | 1.7                                     | 75.8   | 100.0 | 92.8                                | 396  | 38.4                                    | 403                                |
| 9-11          | 11.4                 | 0.4                   | 1.3   | 0.8  | 1.9                                     | 84.3   | 100.0 | 88.6                                | 349  | 38.3                                    | 357                                |
| 12-17         | 22.2                 | 0.3                   | 0.6   | 0.2  | 0.4                                     | 76.2   | 100.0 | 77.8                                | 673  | 34.1                                    | 689                                |
| 18-23         | 60.3                 | 0.0                   | 0.0   | 0.0  | 0.2                                     | 39.4   | 100.0 | 39.7                                | 724  | 33.0                                    | 771                                |
| 0-3           | 5.2                  | 72.9                  | 10.6  | 1.3  | 6.9                                     | 3.1  | 100.0 | 94.8                                | 467  | 12.8                                    | 475                                |
| 0-5           | 6.7                  | 65.2                  | 11.3  | 1.0  | 7.2                                     | 8.6  | 100.0 | 93.3                                | 717  | 19.8                                    | 736                                |
| 6-9           | 8.8                  | 7.1                   | 4.5   | 0.3  | 1.3                                     | 78.0   | 100.0 | 91.2                                | 514  | 38.8                                    | 523                                |
| 12-15         | 20.0                 | 0.4                   | 0.6   | 0.4  | 0.6                                     | 78.0   | 100.0 | 80.0                                | 461  | 34.9                                    | 467                                |
| 12-23         | 42.0                 | 0.1                   | 0.3   | 0.1  | 0.3                                     | 57.2   | 100.0 | 58.0                                | 1,398  | 33.5                                    | 1,460                              |
| 20-23         | 62.9                 | 0.0                   | 0.0   | 0.0  | 0.1                                     | 37.0   | 100.0 | 37.1                                | 484  | 32.3                                    | 519                                |

Note: Breastfeeding status refers to a "24-hour" period (yesterday and last night). Children who are classified as breastfeeding and consuming plain water only consumed no liquid or solid supplements. The categories of not breastfeeding, exclusively breastfed, and breastfeeding and consuming plain water, non-milk liquids, other milk, and complementary foods (solids and semisolids) are hierarchical and mutually exclusive, and their percentages sum to 100 percent. Thus, children who receive breast milk and non-milk liquids and who do not receive other milk and who do not receive complementary foods are classified in the non-milk liquid category even though they may also get plain water. Any children who get complementary food are classified in that category as long as they are breastfeeding as well.

<sup>1</sup> Non-milk liquids include juice, juice drinks, clear broth, or other liquids.

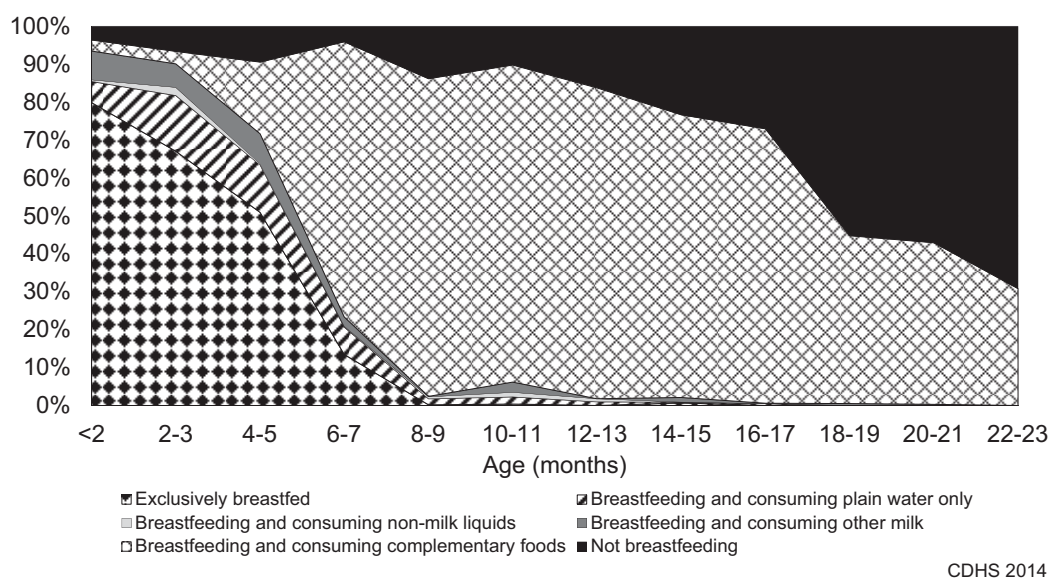
Table 16.3 shows the percent distribution of youngest children under age 2 living with their mother by breastfeeding status and the percentage of all children under age 2 using a bottle with a nipple, according to age in months. The data presented in Table 16.3 and Figure 16.3 show that, contrary to WHO's recommendations, not all children under age 6 months are exclusively breastfed. Seventy-three percent of Cambodian children age 0-3 months are exclusively breastfed, and only 65 percent of children age 0-5 months are exclusively breastfed.

Among children less than age 6 months, 11 percent consume breast milk and plain water and 7 percent consume other milk in addition to breast milk. Although 76 percent of children begin eating

complementary foods at age 6-8 months, 9 percent of children continue to be exclusively breastfed and 6 percent receive just plain water in addition to breast milk. Only 37 percent of Cambodian children continue to breastfeed until age 2 (Table 16.3), and thus 63 percent are deprived of valuable nutrients during this period. Exclusive breastfeeding quickly declines from birth to age 6-8 months. Although other liquids are not needed before six months, 12 percent of infants under age 6 months receive water or other liquids with milk.

The prevalence of bottle feeding among Cambodian children age 6 months and above has increased substantially in comparison with data from the 2010 CDHS. Thirty-four percent of children age 12-23 months were fed with a bottle in 2014, as compared with 25 percent in 2010. In Cambodia the bottle is used for feeding breast milk substitutes (which are most often formula or sweetened condensed milk or other canned milk usually thinned out with water) or very watery rice porridge (borbor), both of which are contraindicated.

**Figure 16.3 Infant feeding practices by age**



## 16.4 DURATION OF BREASTFEEDING

Table 16.4 shows the median duration of breastfeeding by selected background characteristics. The estimates of median and mean durations of breastfeeding are based on current status data, that is, the proportion of last-born children in the three years preceding the survey who were being breastfed at the time of the survey.

The median duration of any breastfeeding is 18.4 months, and the mean duration is 19.0 months. There is little difference in duration of breastfeeding by sex of the child. Urban children are breastfed for a much shorter duration than rural children (13.5 months versus 18.8 months). Highly educated mothers breastfeed their children for about one month less than mothers with little or no education. Mothers from the highest wealth quintile breastfeed their children for only 14 months, as compared with 19 months among mothers in all other wealth quintiles.

The median duration of exclusive breastfeeding among Cambodian children is 3.7 months, and the mean duration is 4.5 months. In comparison with the 2010 CDHS, the median durations of any breastfeeding and exclusive breastfeeding have decreased by about one month.



**Table 16.4 Median duration of breastfeeding**

Median duration of any breastfeeding, exclusive breastfeeding, and predominant breastfeeding among children born in the three years preceding the survey, by background characteristics, Cambodia 2014

| Background characteristic | Median duration (months) of breastfeeding among children born in the past three years <sup>1</sup> |                         |  |
|---------------------------|--|-------------------------|--|
|                           | Any breastfeeding  | Exclusive breastfeeding | Predominant breastfeeding <sup>2</sup> |
| <b>Sex</b>                |  |                         |  |
| Male                      | 18.6   | 3.5                     | 4.8                                    |
| Female                    | 18.1   | 3.9                     | 4.8                                    |
| <b>Residence</b>          |  |                         |  |
| Urban                     | 13.5   | a                       | 1.6                                    |
| Rural                     | 18.8   | 4.0                     | 5.0                                    |
| <b>Mother's education</b> |  |                         |  |
| No education              | 19.3   | 3.7                     | 5.0                                    |
| Primary                   | 18.4   | 3.8                     | 4.8                                    |
| Secondary and higher      | 18.0   | 3.8                     | 4.8                                    |
| <b>Wealth quintile</b>    |  |                         |  |
| Lowest                    | 19.3   | 4.3                     | 5.0                                    |
| Second                    | 18.9   | 4.4                     | 5.2                                    |
| Middle                    | 18.5   | 3.7                     | 4.9                                    |
| Fourth                    | 18.9   | 4.0                     | 5.2                                    |
| Highest                   | 14.1   | (1.2)                   | 2.8                                    |
| Total                     | 18.4   | 3.7                     | 4.8                                    |
| Mean for all children     | 19.0   | 4.5                     | 5.4                                    |

Note: Median and mean durations are based on the distributions at the time of the survey of the proportion of births by months since birth. Includes children living and deceased at the time of the survey. Figures in parentheses are based on 25-49 unweighted cases in the duration category in which the median value fell.

a = Omitted because less than 50 percent of children were breastfed before reaching the reference period

<sup>1</sup> It is assumed that non-last-born children and last-born children not currently living with their mother are not currently breastfeeding.

<sup>2</sup> Either exclusively breastfed or received breast milk and plain water and/or non-milk liquids only

Figure 16.4 presents a number of indicators summarizing the extent to which Cambodian children are being fed according to recommended infant and young child feeding (IYCF) practices. The exclusive breastfeeding indicators included in the figure highlight the fact that the majority of children are not exclusively breastfed for the recommended six months. Overall, only 65 percent of all children under age 6 months are being exclusively breastfed, and at age 4-5 months only half of children (51 percent) are receiving only breast milk.

**Figure 16.4 IYCF indicators on breastfeeding status**

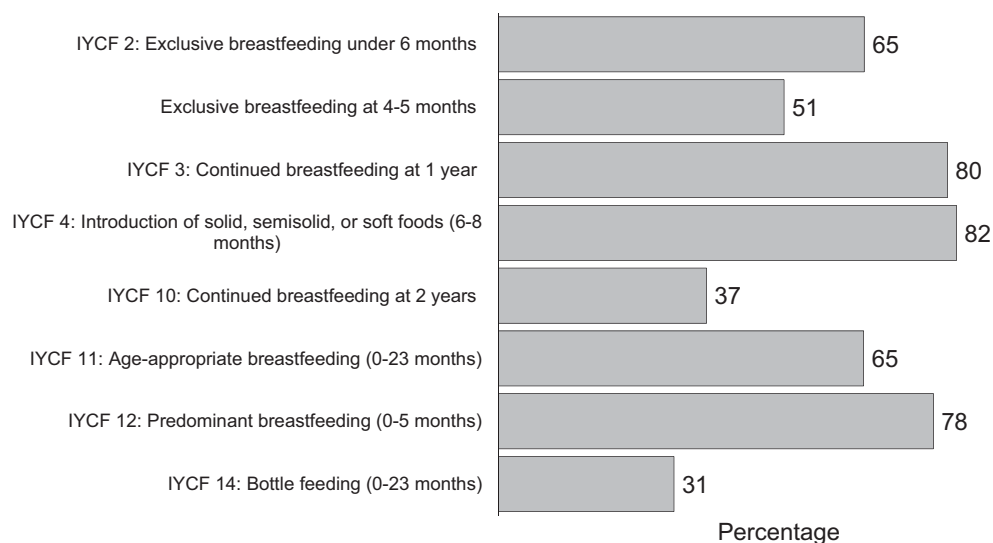


Figure 16.4 also provides information on the prevalence of predominant breastfeeding. Three quarters of children (78 percent) under age 6 months are in this category, that is, they are exclusively breastfed or they are breastfed and receive either plain water or non-milk liquids. In addition, Figure 16.4 includes data on the timely introduction of complementary feeding; as recommended, 82 percent of children age 6-8 months are being given solid, semisolid, or soft food. The continued breastfeeding indicators in Figure 16.4 show that breastfeeding continues well into the first year of life for most children. However, by age 2, the majority of children are weaned. Although bottle feeding is discouraged, 31 percent of Cambodian children age 0-23 months are bottle fed.

Finally, the age-appropriate breastfeeding indicator in Figure 16.4 provides an overall measure of the extent to which recommendations with respect to exclusive breastfeeding and timely introduction of complementary foods are being observed. Children are classified as receiving age-appropriate breastfeeding if they are age 0-5 months and exclusively breastfed or age 6-23 months and breastfeeding and consuming complementary foods. Around two-thirds of Cambodian children (65 percent) are being breastfed appropriately.

## **16.5 TYPES OF COMPLEMENTARY FOODS**

UNICEF and WHO recommend the introduction of solid food to infants at approximately age 6 months because by that age breast milk alone is no longer sufficient to maintain a child's optimal growth. In the transition to eating the family diet, children from age 6 months should be fed small quantities of solid and semisolid foods throughout the day. During this transition period (age 6-23 months), the prevalence of malnutrition increases substantially in many countries because of increased infections and poor feeding practices.

Table 16.5 provides information from mothers on the types of food given to their youngest child under age 2 living with the mother on the day and night preceding the survey, according to breastfeeding status. The data show that 7 percent and 13 percent of breastfeeding infants receive infant formula and any other kinds of milk, respectively. However, 16 percent of younger breastfeeding infants (age 4-5 months) are already consuming food made from grains; 3 percent consume food made from meat, fish, or poultry; and 2 percent consume eggs.

Overall, two-thirds of breastfed children (68 percent) under age 2 received solid or semisolid complementary foods in addition to breast milk. Consumption of foods made from grains (63 percent), animal sources of food (meat, fish, and poultry) (50 percent), and fruits and vegetables rich in vitamin A (38 percent) is high. Consumption of food made from roots or tubers is low (8 percent).

Comparing dietary intake of children by their breastfeeding status, a higher proportion of solid and semisolid foods are being consumed by nonbreastfed children. Thirty-one percent of nonbreastfeeding children receive infant formula and 32 percent receive other types of milk, both of which are essential because these children are not benefiting from breast milk. A larger percentage of nonbreastfed children under age 2 than breastfed children in the same age group are receiving grains, fruits and vegetables rich in vitamin A, and meat, fish, poultry, and eggs.

Table 16.5 Foods and liquids consumed by children in the day or night preceding the interview

Percentage of youngest children under age 2 who are living with their mother by type of foods consumed in the day or night preceding the interview, according to breastfeeding status and age, Cambodia 2014

| Age in months             | Liquids        |                         |                            | Solid or semisolid foods |                                    |  |                             |                                 |                                 |                     |        |                                     |                              | Number of children |
|---------------------------|----------------|-------------------------|----------------------------|--------------------------|------------------------------------|--|-----------------------------|---------------------------------|---------------------------------|---------------------|--------|-------------------------------------|------------------------------|--------------------|
|                           | Infant formula | Other milk <sup>1</sup> | Other liquids <sup>2</sup> | Fortified baby foods     | Food made from grains <sup>3</sup> | Fruits and vegetables rich in vitamin A <sup>4</sup> | Other fruits and vegetables | Food made from roots and tubers | Food made from legumes and nuts | Meat, fish, poultry | Eggs   | Cheese, yogurt, other milk products | Any solid or semi-solid food |                    |
| BREASTFEEDING CHILDREN    |                |                         |                            |                          |                                    |  |                             |                                 |                                 |                     |        |                                     |                              |                    |
| 0-1                       | 8.1            | 2.8                     | 2.3                        | 0.7                      | 1.4                                | 1.3  | 1.3                         | 1.3                             | 1.3                             | 1.3                 | 0.7    | 2.3                                 | 3.0                          | 203                |
| 2-3                       | 4.0            | 3.0                     | 3.1                        | 0.7                      | 3.5                                | 0.9  | 0.7                         | 0.7                             | 0.7                             | 0.9                 | 0.7    | 0.0                                 | 3.5                          | 240                |
| 4-5                       | 10.0           | 3.9                     | 4.9                        | 2.1                      | 16.0                               | 3.0  | 0.7                         | 1.3                             | 0.0                             | 3.4                 | 2.2    | 0.4                                 | 20.9                         | 226                |
| 6-8                       | 10.0           | 8.5                     | 20.8                       | 3.4                      | 74.3                               | 28.4   | 8.6                         | 5.7                             | 3.5                             | 37.8                | 19.5   | 1.1                                 | 81.7                         | 367                |
| 9-11                      | 5.5            | 10.8                    | 30.7                       | 2.6                      | 89.2                               | 51.7   | 17.9                        | 9.8                             | 4.5                             | 71.0                | 34.0   | 1.4                                 | 95.1                         | 309                |
| 12-17                     | 6.4            | 21.2                    | 41.0                       | 4.6                      | 94.9                               | 66.6   | 30.0                        | 14.3                            | 8.1                             | 83.6                | 42.4   | 3.3                                 | 98.0                         | 524                |
| 18-23                     | 5.1            | 27.1                    | 51.0                       | 3.6                      | 93.6                               | 70.5   | 42.4                        | 15.0                            | 10.2                            | 90.5                | 47.2   | 3.9                                 | 99.3                         | 287                |
| 6-23                      | 6.8            | 17.1                    | 35.8                       | 3.7                      | 88.4                               | 54.8   | 24.6                        | 11.4                            | 6.6                             | 71.0                | 35.9   | 2.5                                 | 93.6                         | 1,488              |
| Total                     | 7.0            | 12.8                    | 25.8                       | 2.9                      | 63.2                               | 38.4   | 17.3                        | 8.2                             | 4.8                             | 49.6                | 25.2   | 2.0                                 | 67.5                         | 2,156              |
| NONBREASTFEEDING CHILDREN |                |                         |                            |                          |                                    |  |                             |                                 |                                 |                     |        |                                     |                              |                    |
| 0-1                       | *              | *                       | *                          | *                        | *                                  | *  | *                           | *                               | *                               | *                   | *      | *                                   | *                            | 8                  |
| 2-3                       | *              | *                       | *                          | *                        | *                                  | *  | *                           | *                               | *                               | *                   | *      | *                                   | *                            | 17                 |
| 4-5                       | (85.2)         | (12.2)                  | (14.7)                     | (6.5)                    | (16.9)                             | (12.5)   | (0.0)                       | (0.0)                           | (7.6)                           | (11.9)              | (4.3)  | (0.0)                               | (27.6)                       | 24                 |
| 6-8                       | (80.1)         | (8.0)                   | (28.2)                     | (9.6)                    | (66.3)                             | (44.6)   | (26.2)                      | (8.0)                           | (0.0)                           | (62.7)              | (41.1) | (7.0)                               | (79.9)                       | 29                 |
| 9-11                      | (65.4)         | (29.3)                  | (30.7)                     | (11.4)                   | (85.0)                             | (61.0)   | (45.2)                      | (16.0)                          | (2.7)                           | (74.2)              | (49.2) | (0.0)                               | (91.5)                       | 40                 |
| 12-17                     | 48.4           | 32.8                    | 44.9                       | 5.5                      | 92.9                               | 62.2   | 37.9                        | 13.5                            | 11.9                            | 90.4                | 42.8   | 6.3                                 | 97.8                         | 150                |
| 18-23                     | 14.9           | 35.2                    | 51.8                       | 7.2                      | 95.6                               | 73.5   | 46.3                        | 18.0                            | 13.7                            | 95.2                | 47.6   | 6.4                                 | 99.2                         | 437                |
| 6-23                      | 28.5           | 33.1                    | 47.9                       | 7.2                      | 93.1                               | 68.9   | 43.4                        | 16.4                            | 12.0                            | 91.4                | 46.3   | 6.0                                 | 97.5                         | 655                |
| Total                     | 31.3           | 31.5                    | 45.2                       | 6.9                      | 88.1                               | 65.3   | 40.8                        | 15.5                            | 11.8                            | 86.3                | 43.9   | 5.8                                 | 92.6                         | 703                |

Note: Breastfeeding status and food consumed refer to a "24-hour" period (yesterday and last night). Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Other milk includes fresh, tinned, and powdered cow or other animal milk.

<sup>2</sup> Does not include plain water

<sup>3</sup> Includes fortified baby food

<sup>4</sup> Includes pumpkin, carrots, squash or sweet potatoes that are yellow or orange inside, dark green leafy vegetables, mangoes, and papayas.

## 16.6 INFANT AND YOUNG CHILD FEEDING (IYCF) PRACTICES

Appropriate IYCF practices include timely initiation of feeding solid and semisolid foods from age 6 months and increasing the amount and variety of foods and frequency of feeding as the child gets older while maintaining frequent breastfeeding (WHO, 2008).

The age ranges of various indicators of IYCF practices presented in this chapter have been updated based on the most recent definitions of breastfeeding and complementary feeding indicators (WHO, 2010). Therefore, to compare results with the previous CDHS surveys, one needs to first check that indicator definitions and age ranges of sampled children are the same across surveys.

Table 16.6 presents a summary indicator of IYCF practices. The indicator takes into account the percentages of children for whom feeding practices meet minimum standards with respect to food diversity (i.e., the number of food groups consumed), feeding frequency (i.e., the number of times the child is fed), and consumption of breast milk or other types of milk or milk products (accounting for number of milk feedings for nonbreastfed children). Breastfed children are considered to be fed within the minimum standards if they consume at least four food groups and receive food other than breast milk two to three times per day in the case of infants age 6-8 months and three to four times per day in the case of children age 9-23 months (Arimond and Ruel, 2003). Nonbreastfed children are considered to be fed in accordance with the minimum standards if they consume milk or milk products at least twice a day, are fed four food groups each day, and are fed at least four to five times per day (including milk feeds). Meal frequency is considered a proxy for energy intake from foods other than breast milk; therefore, the feeding frequency indicator for nonbreastfed children includes both milk and solid and semisolid foods (WHO, 2008).



According to the results presented in Table 16.6, 40 percent of breastfed children age 6-23 months were given foods from four or more food groups in the 24 hours preceding the survey, and 74 percent were fed the minimum number of times in the preceding 24 hours. Almost 1 in 3 (32 percent) breastfed children fell into both categories; that is, their feeding practices met minimum standards with respect to food diversity as well as feeding frequency.

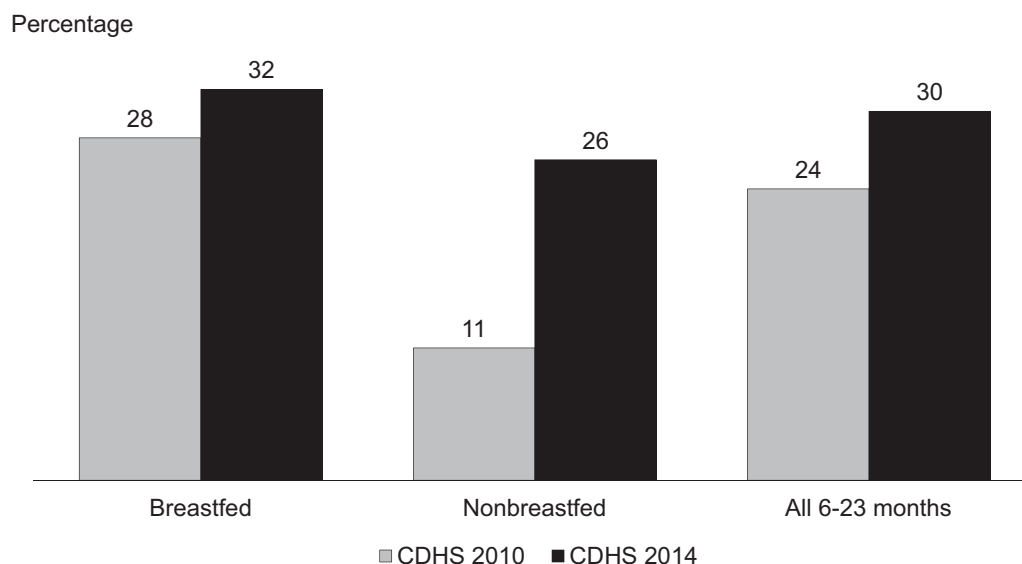
Among nonbreastfed children age 6-23 months, 48 percent were given milk or milk products, 65 percent were given food from at least four food groups, and 68 percent were fed four or more times per day. However, only about 1 in 4 children (26 percent) were fed in accordance with all three IYCF practices. Appropriate feeding practices were more common among breastfed children than nonbreastfed children.

Overall, 30 percent of Cambodian children age 6-23 months met the minimum standard with respect to all three IYCF feeding practices (Table 16.6). Eighty-four percent of all children age 6-23 months received breast milk or other milk or milk products during the 24-hour period before the survey, and 72 percent were fed the minimum number of times in the preceding 24 hours. The most common problem with feeding practices was an inadequate number of food groups; only 48 percent of children received foods from the minimum number of food groups for their age.

The proportion of children age 6-23 months meeting all three recommended IYCF standards increased from 15 percent among children age 6-8 months to 38 percent among those age 12-17 months and then fell to 33 percent among those age 18-23 months. The proportions of children who met the criteria did not vary by sex of the child. Urban children were more likely to be fed according to all of the IYCF practices than rural children (49 percent versus 28 percent). There were large regional differences in feeding practices. Children residing in Phnom Penh were most likely to be fed according to the recommended IYCF practices (61 percent), whereas children in Kratie were least likely to be fed according to the recommendations (12 percent). The proportions of children fed in accordance with the IYCF criteria were highest among children of mothers with a secondary education or higher (39 percent) and those in the highest wealth quintile (49 percent).

Figure 16.5 presents a comparison of the IYCF data from the 2010 and 2014 CDHS surveys. Since 2010, there have been improvements in infant and young child feeding practices. The percentage of children fed according to the IYCF practices increased from 24 percent to 30 percent between 2010 and 2014, with larger improvements observed among nonbreastfed than breastfed children (Figure 16.5).

**Figure 16.5 Trends in infant and young child feeding (IYCF) practices**



## 16.7 PREVALENCE OF ANEMIA IN CHILDREN

Common causes of anemia, characterized by a low level of hemoglobin in the blood, include inadequate intake of iron, folate, vitamin B12, and other nutrients. Anemia can also result from thalassemia, sickle cell disease, malaria, and intestinal worm infestation. Anemia may be an underlying cause of maternal mortality, spontaneous abortion, premature birth, and low birth weight. Iron and folic acid supplementation and antimalarial prophylaxis for pregnant women, promotion of the use of insecticide-treated bednets by pregnant women and children under age 5, and six-month deworming for children are some important measures used to reduce anemia prevalence among vulnerable groups.

Table 16.7 shows the prevalence of anemia among children age 6 to 59 months according to selected background characteristics. Unadjusted (i.e., measured) values of hemoglobin were obtained using the HemoCue instrument. Given that hemoglobin requirements differ substantially depending on altitude, an adjustment to sea-level equivalents is typically made before classifying children by level of anemia. Based on the altitude information derived from the clusters surveyed for the 2014 CDHS, no adjustment was required in the measured hemoglobin values.

The results show that anemia is a critical public health problem in Cambodia, where more than half (56 percent) of children age 6-59 months are anemic, with 30 percent mildly anemic, 25 percent moderately anemic, and less than 1 percent severely anemic. Anemia is highest among children age 9-11 months (83 percent) and declines gradually among older children, reaching a low of 40 percent among children age 48-59 months. Rural children are more likely (57 percent) to be anemic than urban children (43 percent). The prevalence of anemia in the different provinces ranges from 40 percent among children in Banteay Meanchey to 69 percent among children in Preah Vihear/Stung Treng. Children residing in the poorest households are more likely than other children to be anemic. For example, 64 percent of children in the lowest wealth quintile are anemic, as compared with 43 percent of children in the highest wealth quintile. Children whose mothers have a secondary education or higher are less likely to be anemic than other children.

Table 16.7 Prevalence of anemia in children

Percentage of children age 6-59 months classified as having anemia, by background characteristics, Cambodia 2014

| Background characteristic                             | Anemia status by hemoglobin level |                              |                                |                           | Number of children |
|---|-----------------------------------|------------------------------|--------------------------------|---------------------------|--------------------|
|   | Any anemia (<11.0 g/dl)           | Mild anemia (10.0-10.9 g/dl) | Moderate anemia (7.0-9.9 g/dl) | Severe anemia (<7.0 g/dl) |                    |
| <b>Age in months</b>                                  |                                   |                              |                                |                           |                    |
| 6-8   | 77.2                              | 30.3                         | 46.3                           | 0.6                       | 244                |
| 9-11  | 82.8                              | 31.4                         | 50.7                           | 0.7                       | 230                |
| 12-17   | 76.4                              | 29.1                         | 45.8                           | 1.5                       | 515                |
| 18-23   | 68.5                              | 30.2                         | 37.7                           | 0.5                       | 542                |
| 24-35   | 50.5                              | 28.2                         | 21.9                           | 0.4                       | 1,013              |
| 36-47   | 45.3                              | 31.0                         | 14.0                           | 0.3                       | 976                |
| 48-59   | 40.3                              | 29.9                         | 10.3                           | 0.1                       | 936                |
| <b>Sex</b>  |                                   |                              |                                |                           |                    |
| Male  | 56.7                              | 28.8                         | 27.4                           | 0.5                       | 2,280              |
| Female  | 54.2                              | 30.8                         | 23.0                           | 0.5                       | 2,176              |
| <b>Mother's interview status</b>                      |                                   |                              |                                |                           |                    |
| Interviewed   | 56.6                              | 29.7                         | 26.4                           | 0.5                       | 3,836              |
| Not interviewed but in household                      | 54.8                              | 30.6                         | 24.1                           | 0.0                       | 103                |
| Not interviewed and not in the household <sup>1</sup> | 47.7                              | 30.4                         | 16.7                           | 0.6                       | 516                |
| <b>Residence</b>                                      |                                   |                              |                                |                           |                    |
| Urban   | 43.4                              | 25.7                         | 17.5                           | 0.2                       | 591                |
| Rural   | 57.4                              | 30.4                         | 26.4                           | 0.5                       | 3,864              |
| <b>Province</b>                                       |                                   |                              |                                |                           |                    |
| Banteay Meanchey                                      | 39.7                              | 21.1                         | 17.2                           | 1.4                       | 222                |
| Kampong Cham  | 62.7                              | 40.3                         | 22.4                           | 0.0                       | 625                |
| Kampong Chhnang                                       | 59.2                              | 27.9                         | 31.2                           | 0.0                       | 161                |
| Kampong Speu  | 63.9                              | 35.2                         | 27.8                           | 0.9                       | 301                |
| Kampong Thom  | 66.0                              | 36.2                         | 29.3                           | 0.4                       | 197                |
| Kandal  | 58.6                              | 24.9                         | 33.7                           | 0.0                       | 267                |
| Kratie  | 50.2                              | 28.5                         | 21.7                           | 0.0                       | 157                |
| Phnom Penh  | 41.0                              | 24.5                         | 16.5                           | 0.0                       | 335                |
| Prey Veng   | 51.3                              | 26.5                         | 24.2                           | 0.5                       | 345                |
| Pursat  | 64.8                              | 25.7                         | 36.8                           | 2.3                       | 192                |
| Siem Reap   | 52.3                              | 29.1                         | 22.8                           | 0.4                       | 306                |
| Svay Rieng  | 49.8                              | 22.9                         | 26.3                           | 0.6                       | 168                |
| Takeo   | 53.1                              | 29.0                         | 23.5                           | 0.6                       | 245                |
| Otdar Meanchey  | 64.3                              | 37.1                         | 27.3                           | 0.0                       | 77                 |
| Battambang/Pailin                                     | 49.0                              | 26.8                         | 22.2                           | 0.0                       | 344                |
| Kampot/Kep  | 57.3                              | 31.8                         | 25.0                           | 0.5                       | 177                |
| Preah Sihanouk/<br>Koh Kong                           | 58.1                              | 29.4                         | 27.5                           | 1.2                       | 92                 |
| Preah Vihear/<br>Stung Treng                          | 68.8                              | 27.1                         | 41.0                           | 0.7                       | 128                |
| Mondul Kiri/<br>Ratanak Kiri                          | 57.7                              | 30.3                         | 25.8                           | 1.6                       | 117                |
| <b>Mother's education<sup>2</sup></b>                 |                                   |                              |                                |                           |                    |
| No education  | 56.6                              | 28.1                         | 27.4                           | 1.2                       | 537                |
| Primary   | 58.8                              | 30.5                         | 28.0                           | 0.4                       | 2,192              |
| Secondary and higher                                  | 52.4                              | 28.6                         | 23.5                           | 0.3                       | 1,116              |
| <b>Wealth quintile</b>                                |                                   |                              |                                |                           |                    |
| Lowest  | 64.1                              | 31.0                         | 32.4                           | 0.6                       | 1,104              |
| Second  | 60.6                              | 32.9                         | 26.9                           | 0.8                       | 929                |
| Middle  | 53.5                              | 27.3                         | 25.8                           | 0.3                       | 890                |
| Fourth  | 51.9                              | 29.9                         | 21.5                           | 0.5                       | 756                |
| Highest   | 43.2                              | 27.0                         | 16.1                           | 0.1                       | 777                |
| <b>Total</b>  | <b>55.5</b>                       | <b>29.8</b>                  | <b>25.2</b>                    | <b>0.5</b>                | <b>4,456</b>       |

Note: Table is based on children who stayed in the household on the night before the interview and who were tested for anemia. Prevalence of anemia, based on hemoglobin levels, is adjusted for altitude using formulas in CDC, 1998. Hemoglobin is in grams per deciliter (g/dl).

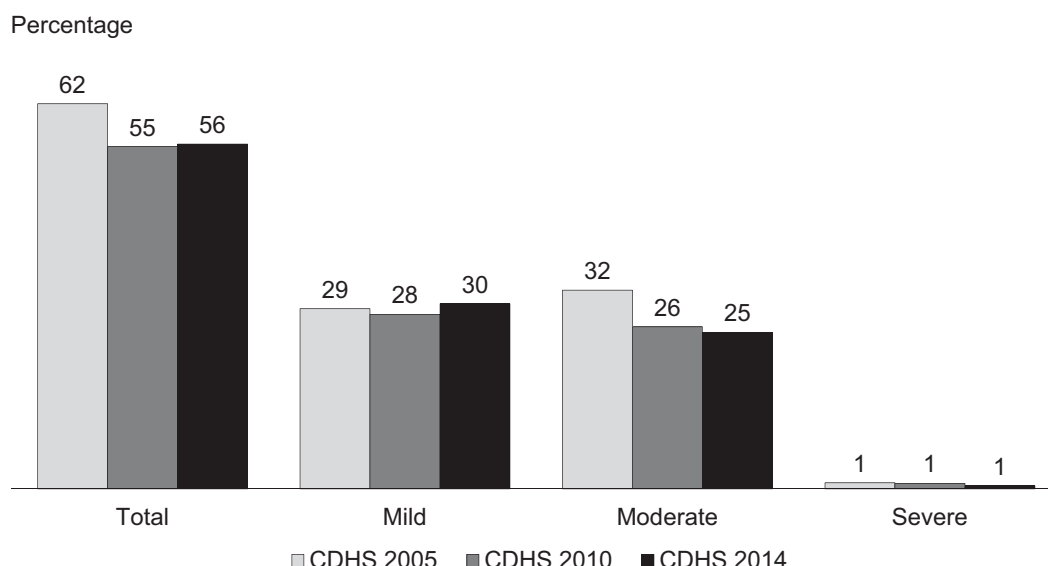
<sup>1</sup> Includes children whose mothers are deceased

<sup>2</sup> For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.

A comparison with earlier CDHS surveys shows that the prevalence of anemia decreased between 2005 and 2010 but has remained relatively unchanged over the past four years (Figure 16.6).



**Figure 16.6 Trends in anemia status among children under age 5**



## 16.8 MICRONUTRIENT INTAKE AMONG CHILDREN

A serious contributor to childhood morbidity and mortality is micronutrient deficiency. Children can receive micronutrients from foods, food fortification, and direct supplementation. Table 16.8 looks at measures relating to intake of several key micronutrients among children.

Vitamin A is an essential micronutrient for the immune system and plays an important role in maintaining the epithelial tissue in the body. Severe vitamin A deficiency (VAD) can cause eye damage. VAD can also increase the severity of infections such as measles and diarrheal diseases in children and slows recovery from illness. Vitamin A is found in breast milk, other milks, liver, eggs, fish, butter, red palm oil, mangoes, papayas, carrots, pumpkins, and dark green leafy vegetables. The liver can store an adequate amount of the vitamin for four to six months. Periodic dosing (usually every six months) of vitamin A supplements is one method of ensuring that children at risk do not develop VAD.

In 2009, the National Nutrition Program developed a National Vitamin A Policy that ensures uniform provision of vitamin A to children age 6-59 months. Mebendazol, a deworming drug, is also given to children age 12-59 months. Currently, the vitamin A capsules, together with the Mebendazol, are distributed through outreach sessions held twice annually in May and November. The provisions of iodine and iron are made through salt that is iodized and in fish sauce, soy milk, and common children's snacks that are fortified with iron.

The CDHS collected information on the consumption of foods rich in vitamin A and iron and on the coverage of supplements. Table 16.8 shows that 85 percent of last-born children age 6-23 months living with their mother consumed foods rich in vitamin A in the 24-hour period before the survey. Consumption of foods rich in vitamin A increases from 50 percent among children age 6-8 months to 98 percent among children age 18-23 months. There is no gender difference in the consumption of foods rich in vitamin A. Nonbreastfeeding children are more likely to consume foods rich in vitamin A than breastfeeding children (95 percent versus 80 percent). At least 90 percent of children living in Kampong Chhnang, Kampong Speu, Kampong Thom, Kratie, and Phnom Penh consumed foods rich in vitamin A the day or night preceding the survey. Vitamin A consumption was lowest in Kampong Cham (73 percent).

Eighty-two percent of children consume foods rich in iron. The differences in consumption of iron-rich foods by background characteristics are similar to those seen for consumption of foods rich in vitamin A.



Table 16.8 Micronutrient intake among children

Among youngest children age 6-23 months who are living with their mother, the percentages who consumed vitamin A-rich and iron-rich foods in the day or night preceding the survey; among all children age 6-59 months, the percentages who were given vitamin A supplements in the six months preceding the survey, who were given iron supplements in the past seven days, and who were given deworming medication in the six months preceding the survey; and among all children age 6-59 months who live in households that were tested for iodized salt, the percentage who live in households with iodized salt, by background characteristics, Cambodia 2014

| Background characteristic    | Among youngest children age 6-23 months living with their mother:             |  |                    | Among all children age 6-59 months:                     |  |   |                    | Among children age 6-59 months living in households tested for iodized salt: |                    |
|------------------------------|---|--|--------------------|---|--|---|--------------------|--|--------------------|
|                              | Percentage who consumed foods rich in vitamin A in last 24 hours <sup>1</sup> | Percentage who consumed foods rich in iron in last 24 hours <sup>2</sup> | Number of children | Percentage given vitamin A supplements in last 6 months | Percentage given iron supplements in last 7 days | Percentage given deworming medication in last 6 months <sup>3</sup> | Number of children | Percentage living in households with iodized salt <sup>4</sup>               | Number of children |
| <b>Age in months</b>         |   |  |                    |   |  |   |                    |  |                    |
| 6-8                          | 49.9  | 45.5   | 396                | 39.3  | 3.6  | 11.7  | 403                | 59.8   | 389                |
| 9-11                         | 81.1  | 77.5   | 349                | 58.9  | 4.6  | 29.6  | 357                | 70.8   | 357                |
| 12-17                        | 93.1  | 89.8   | 673                | 70.0  | 7.3  | 44.9  | 689                | 69.1   | 684                |
| 18-23                        | 97.5  | 95.9   | 724                | 71.1  | 5.9  | 62.6  | 771                | 68.2   | 762                |
| 24-35                        | na  | na   | na                 | 72.6  | 8.1  | 65.3  | 1,368              | 70.7   | 1,349              |
| 36-47                        | na  | na   | na                 | 74.6  | 6.6  | 70.3  | 1,343              | 67.6   | 1,330              |
| 48-59                        | na  | na   | na                 | 72.2  | 4.7  | 67.1  | 1,376              | 69.7   | 1,365              |
| <b>Sex</b>                   |   |  |                    |   |  |   |                    |  |                    |
| Male                         | 85.2  | 82.3   | 1,086              | 70.8  | 6.1  | 59.7  | 3,170              | 68.6   | 3,133              |
| Female                       | 84.0  | 81.1   | 1,057              | 68.4  | 6.3  | 57.8  | 3,139              | 68.8   | 3,103              |
| <b>Breastfeeding status</b>  |   |  |                    |   |  |   |                    |  |                    |
| Breastfeeding                | 80.1  | 76.3   | 1,488              | 60.1  | 7.0  | 40.9  | 1,720              | 65.5   | 1,693              |
| Not breastfeeding            | 94.9  | 93.9   | 655                | 73.1  | 5.9  | 65.4  | 4,578              | 69.9   | 4,533              |
| <b>Mother's age at birth</b> |   |  |                    |   |  |   |                    |  |                    |
| 15-19                        | 77.7  | 75.7   | 110                | 57.4  | 4.4  | 33.7  | 158                | 65.2   | 153                |
| 20-29                        | 84.2  | 81.1   | 1,299              | 69.3  | 6.2  | 58.1  | 3,426              | 66.8   | 3,391              |
| 30-39                        | 87.1  | 84.1   | 666                | 71.8  | 6.9  | 62.0  | 2,373              | 71.0   | 2,343              |
| 40-49                        | 79.1  | 78.0   | 67                 | 62.8  | 2.0  | 54.4  | 351                | 73.2   | 348                |
| <b>Residence</b>             |   |  |                    |   |  |   |                    |  |                    |
| Urban                        | 90.3  | 88.5   | 300                | 63.7  | 3.5  | 49.5  | 929                | 82.0   | 920                |
| Rural                        | 83.7  | 80.6   | 1,842              | 70.6  | 6.6  | 60.3  | 5,379              | 66.4   | 5,316              |
| <b>Province</b>              |   |  |                    |   |  |   |                    |  |                    |
| Banteay Meanchey             | 82.2  | 79.7   | 89                 | 84.5  | 2.4  | 71.3  | 220                | 90.1   | 217                |
| Kampong Cham                 | 73.0  | 70.2   | 292                | 67.2  | 3.7  | 51.1  | 865                | 33.5   | 855                |
| Kampong Chhnang              | 94.6  | 92.4   | 81                 | 85.5  | 2.9  | 77.7  | 210                | 68.6   | 210                |
| Kampong Speu                 | 89.5  | 89.5   | 146                | 58.7  | 6.0  | 47.1  | 424                | 89.3   | 412                |
| Kampong Thom                 | 92.3  | 89.0   | 107                | 90.8  | 8.4  | 81.5  | 299                | 87.5   | 299                |
| Kandal                       | 77.4  | 77.4   | 135                | 66.2  | 18.5   | 54.3  | 450                | 84.6   | 449                |
| Kratie                       | 93.0  | 86.5   | 76                 | 57.6  | 0.2  | 52.6  | 225                | 90.4   | 224                |
| Phnom Penh                   | 95.8  | 94.7   | 186                | 60.2  | 3.5  | 44.0  | 554                | 77.5   | 546                |
| Prey Veng                    | 85.4  | 79.6   | 146                | 69.6  | 20.1   | 55.1  | 435                | 63.3   | 433                |
| Pursat                       | 77.1  | 70.8   | 96                 | 77.9  | 2.8  | 75.2  | 272                | 47.3   | 268                |
| Siem Reap                    | 86.6  | 81.4   | 129                | 73.4  | 3.1  | 59.5  | 419                | 77.4   | 406                |
| Svay Rieng                   | 84.0  | 82.5   | 75                 | 67.0  | 3.6  | 55.7  | 223                | 94.9   | 223                |
| Takeo                        | 85.1  | 81.3   | 121                | 85.8  | 10.5   | 79.1  | 335                | 87.2   | 331                |
| Otdar Meanchey               | 79.6  | 75.6   | 42                 | 65.2  | 1.2  | 56.1  | 122                | 77.9   | 120                |
| Battambang/Pailin            | 85.6  | 82.6   | 173                | 75.1  | 2.1  | 67.9  | 471                | 46.8   | 467                |
| Kampot/Kep                   | 89.2  | 86.5   | 82                 | 51.1  | 0.3  | 49.3  | 240                | 14.7   | 237                |
| Preah Sihanouk/<br>Koh Kong  | 81.5  | 80.1   | 46                 | 72.6  | 1.9  | 62.5  | 149                | 95.9   | 147                |
| Preah Vihear/<br>Stung Treng | 78.6  | 75.1   | 65                 | 73.6  | 13.1   | 62.2  | 205                | 81.0   | 199                |
| Mondul Kiri/<br>Ratanak Kiri | 85.8  | 83.4   | 57                 | 46.1  | 0.0  | 44.6  | 192                | 81.6   | 191                |
| <b>Mother's education</b>    |   |  |                    |   |  |   |                    |  |                    |
| No education                 | 82.8  | 78.8   | 270                | 65.1  | 4.5  | 54.9  | 887                | 64.1   | 871                |
| Primary                      | 83.5  | 80.5   | 1,097              | 70.5  | 6.4  | 60.0  | 3,322              | 67.2   | 3,271              |
| Secondary and higher         | 86.9  | 84.4   | 776                | 70.0  | 6.5  | 58.4  | 2,099              | 73.0   | 2,094              |
| <b>Wealth quintile</b>       |   |  |                    |   |  |   |                    |  |                    |
| Lowest                       | 82.0  | 78.4   | 514                | 68.9  | 4.2  | 57.5  | 1,526              | 61.9   | 1,499              |
| Second                       | 86.5  | 83.3   | 427                | 68.9  | 4.7  | 58.6  | 1,258              | 63.6   | 1,238              |
| Middle                       | 86.8  | 82.6   | 397                | 69.9  | 8.8  | 60.6  | 1,179              | 64.3   | 1,173              |
| Fourth                       | 82.7  | 80.5   | 382                | 73.6  | 8.3  | 63.9  | 1,068              | 75.9   | 1,060              |
| Highest                      | 85.7  | 84.3   | 423                | 67.5  | 5.7  | 54.4  | 1,277              | 79.8   | 1,266              |
| Total                        | 84.6  | 81.7   | 2,143              | 69.6  | 6.2  | 58.7  | 6,308              | 68.7   | 6,236              |

Note: Information on vitamin A is based on both mother's recall and the immunization card (where available). Information on iron supplements and deworming medication is based on the mother's recall. Total includes 10 cases for which information on breastfeeding is missing.

na = Not applicable

<sup>1</sup> Includes meat (and organ meat), fish, poultry, eggs, pumpkin, red or yellow yams or squash, carrots, red sweet potatoes, dark green leafy vegetables, mango, papaya, and other locally grown fruits and vegetables that are rich in vitamin A

<sup>2</sup> Includes meat (and organ meat), fish, poultry, and eggs

<sup>3</sup> Deworming for intestinal parasites is commonly done for helminthes and for schistosomiasis.

<sup>4</sup> Excludes children in households in which salt was not tested

Seventy percent of children age 6-59 months received a vitamin A supplement in the six months before the survey, about the same percentage observed in the 2010 CDHS (71 percent). The difference in consumption of vitamin A supplements between boys and girls is small (71 percent versus 68 percent). Children who were not breastfeeding were more likely to receive vitamin A supplements (73 percent) than children who were breastfeeding (60 percent). Seventy-one percent of rural children received vitamin A supplements, as compared with 64 percent of urban children. The proportion of children who received vitamin A supplements was lowest in Mondul Kiri/Ratanak Kiri (46 percent) and highest in Kampong Thom (91 percent).

Only 6 percent of children age 6-59 months received iron supplementation in the seven days preceding the survey. However, 59 percent of children received deworming medication in the six months before the survey.

Inadequate amounts of iodine in the diet are related to serious health risks for young children. The 2014 CDHS results show that 69 percent of children age 6-59 months live in households using iodized salt. Differences are sizable by area of residence; 82 percent of urban children live in households with iodized salt, as compared with 66 percent of rural children. At least 90 percent of children living in Banteay Meanchey, Kratie, Svay Rieng, and Preah Sihanouk/Koh Kong live in households using iodized salt. Children whose mothers have a secondary education or higher are more likely to live in households with iodized salt (73 percent) than are children whose mothers do not have any formal schooling (64 percent). The percentage of children living in households with iodized salt is positively associated with wealth quintile.

## **16.9 USE OF IODIZED SALT**

Iodine is an important micronutrient. Dietary iodine deficiencies are a major public health concern worldwide. A lack of sufficient iodine is known to cause goiter, cretinism (a severe form of neurological defect), spontaneous abortion, premature birth, infertility, stillbirth, and increased child mortality. Iodine deficiency disorder is the most common cause of preventable mental retardation and brain damage in the world.

In the 2014 CDHS, a rapid test was used to determine the presence or absence of iodine in the salt used for cooking in the household.

Table 16.9 shows the percentage of households using iodized salt. Overall, 69 percent of households have salt with some iodine. This figure is substantially lower than that found in 2010 (83 percent) but is only slightly lower than the figure reported in the 2005 CDHS (73 percent). A higher percentage of urban households (82 percent) than rural households (67 percent) are using iodized salt. The consumption of iodized salt is lowest in Kampot/Kep (14 percent) and Kampong Cham (34 percent). Households in the highest wealth quintile are more likely (82 percent) than households in the lower wealth quintiles to use salt that is adequately iodized.

Table 16.9 Presence of iodized salt in household

Among all households, the percentage with salt tested for iodine content and the percentage with no salt in the household, and among households with salt tested, the percentage with iodized salt, according to background characteristics, Cambodia 2014

| Background characteristic | Among all households:       |  |                      | Among households with tested salt: |                      |
|---------------------------|-----------------------------|--|----------------------|------------------------------------|----------------------|
|                           | Percentage with salt tested | Percentage with no salt in the household | Number of households | Percentage with iodized salt       | Number of households |
| <b>Residence</b>          |                             |  |                      |                                    |                      |
| Urban                     | 98.9                        | 1.1                                      | 2,284                | 82.3                               | 2,257                |
| Rural                     | 98.8                        | 1.2                                      | 13,541               | 66.6                               | 13,376               |
| <b>Province</b>           |                             |  |                      |                                    |                      |
| Banteay Meanchey          | 99.2                        | 0.8                                      | 670                  | 86.4                               | 664                  |
| Kampong Cham              | 98.3                        | 1.7                                      | 1,997                | 33.6                               | 1,964                |
| Kampong Chhnang           | 99.7                        | 0.3                                      | 608                  | 64.1                               | 607                  |
| Kampong Speu              | 98.6                        | 1.4                                      | 973                  | 89.4                               | 959                  |
| Kampong Thom              | 100.0                       | 0.0                                      | 801                  | 85.5                               | 801                  |
| Kandal                    | 99.5                        | 0.5                                      | 1,259                | 87.8                               | 1,253                |
| Kratie                    | 99.2                        | 0.8                                      | 451                  | 92.3                               | 448                  |
| Phnom Penh                | 98.2                        | 1.8                                      | 1,293                | 80.7                               | 1,270                |
| Prey Veng                 | 98.2                        | 1.8                                      | 1,228                | 62.0                               | 1,206                |
| Pursat                    | 98.8                        | 1.2                                      | 611                  | 45.1                               | 603                  |
| Siem Reap                 | 98.2                        | 1.8                                      | 1,000                | 79.4                               | 982                  |
| Svay Rieng                | 99.7                        | 0.3                                      | 678                  | 94.5                               | 676                  |
| Takeo                     | 98.7                        | 1.3                                      | 1,011                | 87.2                               | 998                  |
| Otdar Meanchey            | 98.4                        | 1.6                                      | 271                  | 80.5                               | 267                  |
| Battambang/Pailin         | 99.0                        | 1.0                                      | 1,222                | 48.6                               | 1,209                |
| Kampot/Kep                | 98.4                        | 1.6                                      | 762                  | 14.1                               | 750                  |
| Preah Sihanouk/Koh Kong   | 99.3                        | 0.7                                      | 320                  | 95.9                               | 318                  |
| Preah Vihear/Stung Treng  | 97.7                        | 2.3                                      | 361                  | 85.3                               | 352                  |
| Mondul Kiri/Ratanak Kiri  | 99.0                        | 1.0                                      | 309                  | 79.8                               | 306                  |
| <b>Wealth quintile</b>    |                             |  |                      |                                    |                      |
| Lowest                    | 98.2                        | 1.8                                      | 3,208                | 59.0                               | 3,149                |
| Second                    | 98.5                        | 1.5                                      | 3,320                | 63.6                               | 3,271                |
| Middle                    | 99.1                        | 0.9                                      | 3,147                | 67.3                               | 3,119                |
| Fourth                    | 99.0                        | 1.0                                      | 3,176                | 74.0                               | 3,146                |
| Highest                   | 99.1                        | 0.9                                      | 2,975                | 81.6                               | 2,949                |
| Total                     | 98.8                        | 1.2                                      | 15,825               | 68.9                               | 15,633               |

## 16.10 NUTRITIONAL STATUS OF WOMEN

The height and weight of women age 15-49 were measured among a two-thirds subsample of households selected in the 2014 CDHS. In this report, two indicators of nutritional status are presented: height and body mass index.

The height of a woman is associated with past socioeconomic status and nutrition during childhood and adolescence. A woman's height is used to predict the risk of difficulty in delivery because small stature is often associated with small pelvis size and the potential for obstructed labor. The risk of giving birth to a low birth weight baby is influenced by the mother's nutritional status. The cutoff point for the height at which mothers can be considered at risk varies between populations but normally falls between 140 and 150 centimeters. As in other DHS surveys, a cutoff point of 145 cm was used for the 2014 CDHS.

The index used to measure thinness or obesity is known as the body mass index, or the Quetelet index. BMI is defined as weight in kilograms divided by height squared in meters ( $\text{kg}/\text{m}^2$ ). A BMI of 18.5 or lower indicates thinness or acute undernutrition, a BMI of 25.0-29.9 indicates overweight, and a BMI of 30.0 or higher indicates obesity.

Table 16.10 presents the mean values of the two indicators of nutritional status and the proportions of women falling into high-risk categories, according to background characteristics. Women for whom there was no information on height and/or weight and for whom a BMI could not be estimated are excluded from this analysis. The BMI data analysis is based on 10,624 women, whereas the height analysis is based on 11,380 women.

Table 16.10 Nutritional status of women

Among women age 15-49, the percentage with height under 145 cm, mean body mass index (BMI), and the percentage with specific BMI levels, by background characteristics, Cambodia 2014

| Background characteristic    | Height                  |                 | Body mass index <sup>1</sup> |                          |                    |                         |                                    |                                   |                        |               | Number of women |
|------------------------------|-------------------------|-----------------|------------------------------|--------------------------|--------------------|-------------------------|------------------------------------|-----------------------------------|------------------------|---------------|-----------------|
|                              | Percentage below 145 cm | Number of women | Mean BMI                     | 18.5-24.9 (total normal) | <18.5 (total thin) | 17.0-18.4 (mildly thin) | <17 (moderately and severely thin) | ≥25.0 (total overweight or obese) | 25.0-29.9 (overweight) | ≥30.0 (obese) |                 |
| <b>Age</b>                   |                         |                 |                              |                          |                    |                         |                                    |                                   |                        |               |                 |
| 15-19                        | 5.9                     | 1,826           | 19.9                         | 69.6                     | 27.5               | 18.4                    | 9.1                                | 2.9                               | 2.8                    | 0.1           | 1,724           |
| 20-29                        | 4.5                     | 3,927           | 21.3                         | 72.0                     | 17.1               | 12.8                    | 4.3                                | 10.9                              | 9.3                    | 1.6           | 3,458           |
| 30-39                        | 6.2                     | 3,085           | 22.9                         | 68.8                     | 7.2                | 5.6                     | 1.5                                | 24.0                              | 20.2                   | 3.8           | 2,917           |
| 40-49                        | 5.3                     | 2,543           | 23.4                         | 60.3                     | 8.4                | 5.4                     | 3.0                                | 31.3                              | 26.1                   | 5.2           | 2,526           |
| <b>Residence</b>             |                         |                 |                              |                          |                    |                         |                                    |                                   |                        |               |                 |
| Urban                        | 3.8                     | 2,187           | 22.3                         | 64.0                     | 13.5               | 9.9                     | 3.6                                | 22.5                              | 18.4                   | 4.2           | 2,056           |
| Rural                        | 5.7                     | 9,194           | 21.9                         | 68.9                     | 14.1               | 10.0                    | 4.1                                | 17.0                              | 14.5                   | 2.5           | 8,569           |
| <b>Province</b>              |                         |                 |                              |                          |                    |                         |                                    |                                   |                        |               |                 |
| Banteay Meanchey             | 4.0                     | 448             | 23.0                         | 62.9                     | 10.7               | 8.3                     | 2.4                                | 26.4                              | 21.3                   | 5.1           | 418             |
| Kampong Cham                 | 8.8                     | 1,252           | 22.2                         | 70.0                     | 10.2               | 7.4                     | 2.8                                | 19.8                              | 16.9                   | 2.9           | 1,176           |
| Kampong Chhnang              | 6.8                     | 418             | 21.4                         | 67.5                     | 18.0               | 14.3                    | 3.8                                | 14.5                              | 12.6                   | 1.9           | 389             |
| Kampong Speu                 | 7.3                     | 793             | 21.1                         | 68.4                     | 20.9               | 14.5                    | 6.4                                | 10.7                              | 10.0                   | 0.7           | 737             |
| Kampong Thom                 | 2.3                     | 568             | 22.0                         | 71.2                     | 12.5               | 8.7                     | 3.8                                | 16.4                              | 13.6                   | 2.8           | 526             |
| Kandal                       | 4.4                     | 867             | 21.7                         | 65.1                     | 17.9               | 14.0                    | 4.0                                | 17.0                              | 14.5                   | 2.5           | 807             |
| Kratie                       | 4.7                     | 320             | 21.7                         | 71.5                     | 15.8               | 11.1                    | 4.6                                | 12.7                              | 10.7                   | 2.0           | 287             |
| Phnom Penh                   | 3.2                     | 1,342           | 22.2                         | 65.6                     | 14.0               | 10.3                    | 3.7                                | 20.4                              | 17.3                   | 3.1           | 1,269           |
| Prey Veng                    | 4.3                     | 758             | 22.2                         | 69.1                     | 12.5               | 7.8                     | 4.7                                | 18.4                              | 15.2                   | 3.2           | 708             |
| Pursat                       | 5.6                     | 419             | 21.7                         | 70.5                     | 13.1               | 8.5                     | 4.6                                | 16.4                              | 15.6                   | 0.9           | 384             |
| Siem Reap                    | 5.4                     | 731             | 22.1                         | 71.4                     | 11.6               | 8.3                     | 3.4                                | 17.0                              | 14.0                   | 3.0           | 686             |
| Svay Rieng                   | 5.7                     | 430             | 22.0                         | 67.7                     | 13.1               | 9.3                     | 3.8                                | 19.2                              | 17.9                   | 1.3           | 405             |
| Takeo                        | 4.2                     | 688             | 21.9                         | 65.8                     | 13.9               | 8.1                     | 5.8                                | 20.3                              | 17.5                   | 2.8           | 653             |
| Otdar Meanchey               | 3.4                     | 191             | 22.0                         | 72.0                     | 12.8               | 11.4                    | 1.4                                | 15.2                              | 11.7                   | 3.5           | 170             |
| Battambang/Pailin            | 3.8                     | 848             | 22.7                         | 65.7                     | 11.9               | 9.6                     | 2.4                                | 22.4                              | 17.1                   | 5.2           | 800             |
| Kampot/Kep                   | 4.4                     | 481             | 21.6                         | 69.1                     | 17.0               | 10.0                    | 7.0                                | 14.0                              | 12.0                   | 2.0           | 455             |
| Preah Sihanouk/<br>Koh Kong  | 4.5                     | 274             | 22.4                         | 60.5                     | 15.6               | 11.3                    | 4.4                                | 23.8                              | 18.6                   | 5.2           | 254             |
| Preah Vihear/<br>Stung Treng | 8.0                     | 314             | 21.1                         | 73.7                     | 16.4               | 11.2                    | 5.2                                | 9.9                               | 8.9                    | 1.0           | 282             |
| Mondul Kiri/<br>Ratanak Kiri | 16.8                    | 240             | 22.2                         | 70.6                     | 10.4               | 8.8                     | 1.6                                | 18.9                              | 15.6                   | 3.4           | 219             |
| <b>Education</b>             |                         |                 |                              |                          |                    |                         |                                    |                                   |                        |               |                 |
| No education                 | 8.5                     | 1,479           | 22.6                         | 66.7                     | 10.9               | 7.8                     | 3.1                                | 22.5                              | 18.2                   | 4.3           | 1,396           |
| Primary                      | 5.6                     | 5,379           | 22.3                         | 67.2                     | 12.4               | 9.1                     | 3.2                                | 20.4                              | 17.2                   | 3.2           | 5,030           |
| Secondary and higher         | 4.1                     | 4,523           | 21.4                         | 69.3                     | 17.0               | 11.8                    | 5.2                                | 13.7                              | 11.9                   | 1.8           | 4,198           |
| <b>Wealth quintile</b>       |                         |                 |                              |                          |                    |                         |                                    |                                   |                        |               |                 |
| Lowest                       | 7.6                     | 2,060           | 21.4                         | 73.7                     | 15.3               | 10.3                    | 5.0                                | 11.0                              | 9.7                    | 1.3           | 1,917           |
| Second                       | 6.6                     | 2,118           | 21.9                         | 68.8                     | 14.6               | 10.4                    | 4.2                                | 16.6                              | 14.2                   | 2.4           | 1,944           |
| Middle                       | 5.5                     | 2,168           | 21.9                         | 67.7                     | 14.3               | 10.0                    | 4.3                                | 18.0                              | 14.9                   | 3.1           | 2,026           |
| Fourth                       | 4.3                     | 2,308           | 22.1                         | 66.6                     | 13.5               | 10.2                    | 3.3                                | 20.0                              | 17.4                   | 2.5           | 2,168           |
| Highest                      | 3.6                     | 2,728           | 22.5                         | 64.5                     | 12.7               | 9.2                     | 3.5                                | 22.7                              | 18.5                   | 4.3           | 2,569           |
| <b>Total</b>                 | 5.4                     | 11,380          | 22.0                         | 68.0                     | 14.0               | 10.0                    | 4.0                                | 18.0                              | 15.2                   | 2.8           | 10,624          |

Note: Body mass index is expressed as the ratio of weight in kilograms to the square of height in meters (kg/m<sup>2</sup>).

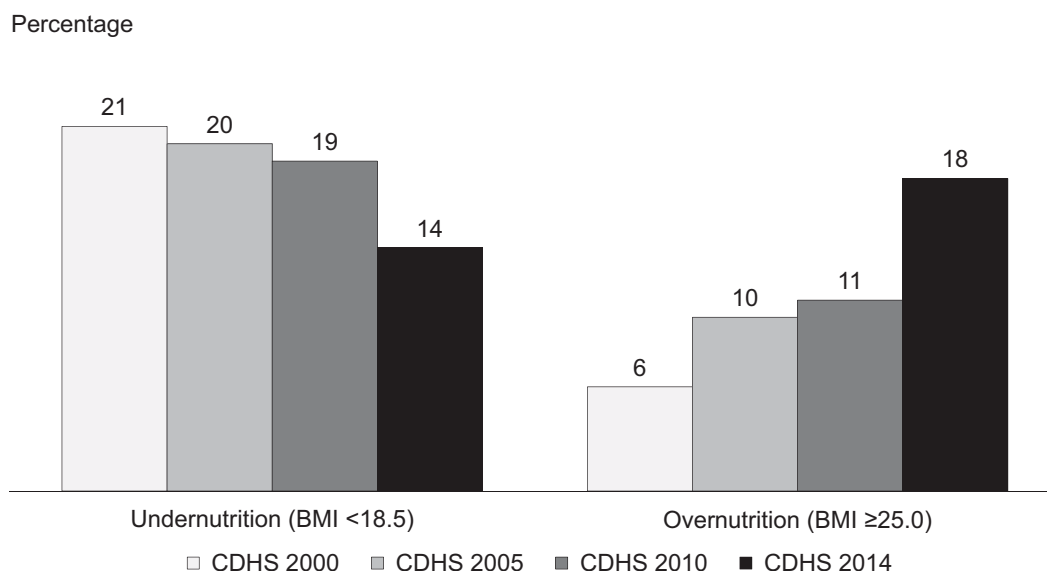
<sup>1</sup> Excludes pregnant women and women with a birth in the preceding 2 months

Overall, 5 percent of women are shorter than 145 cm. A larger percentage of women in Mondul Kiri/Ratanak Kiri are below 145 cm (17 percent) than women in other provinces. As expected, women with no schooling and those in the lowest wealth quintile are more likely to be shorter than 145 cm.

Table 16.10 shows that 14 percent of women are underweight or thin (BMI less than 18.5), and 18 percent are overweight or obese (BMI 25.0 or higher). There are large differentials across background characteristics in the percentage of women assessed as thin and overweight or obese. For example, the proportion of women who are thin generally decreases with age group, while the proportion who are overweight or obese increases with age. The percentage of overweight or obese women is higher in urban areas (23 percent) than in rural areas (17 percent). Comparisons across provinces show that Kampong Speu (21 percent), Kampong Chhnang (18 percent), and Kandal (18 percent) have the highest percentages of undernourished women, whereas the lowest proportion of undernourished women is found in Kampong Cham (10 percent). The percentage of overweight or obese women in the highest wealth quintile is more than two times that of the lowest quintile (23 percent versus 11 percent).

A comparison with the previous CDHS surveys shows that the proportion of undernourished women in the reproductive age group has declined more substantially between the most recent two surveys than the previous ones. However, the prevalence of overweight and obesity, another form of malnutrition, has increased remarkably (Figure 16.7).

**Figure 16.7 Trends in nutritional status among women age 15-49**



### 16.11 PREVALENCE OF ANEMIA IN WOMEN

Table 16.11 shows the prevalence of anemia among women age 15-49, adjusted for smoking status. Forty-five percent of Cambodian women are anemic, including 38 percent with mild anemia and 7 percent with moderate anemia. Less than 1 percent of women suffer from severe anemia.

Anemia shows a U-shaped pattern with respect to age, with younger and older women more likely to be anemic than their counterparts in the other age groups. A similar pattern is seen according to number of children. The prevalence of anemia is higher among women who have only a primary education or less, those who are pregnant, and those who live in poorer households. Also, the prevalence is higher among rural women (47 percent) than urban women (39 percent). Women residing in Banteay Meanchey have the lowest prevalence of anemia (31 percent), and women residing in Kampong Chhnang, Kampong Speu, and Preah Vihear/Stung Treng have the highest prevalence (53-54 percent). Anemia prevalence is higher among women who smoke (52 percent) than among women who do not smoke (45 percent) and is slightly higher among women who use an IUD than those who do not.

Table 16.11 Prevalence of anemia in women

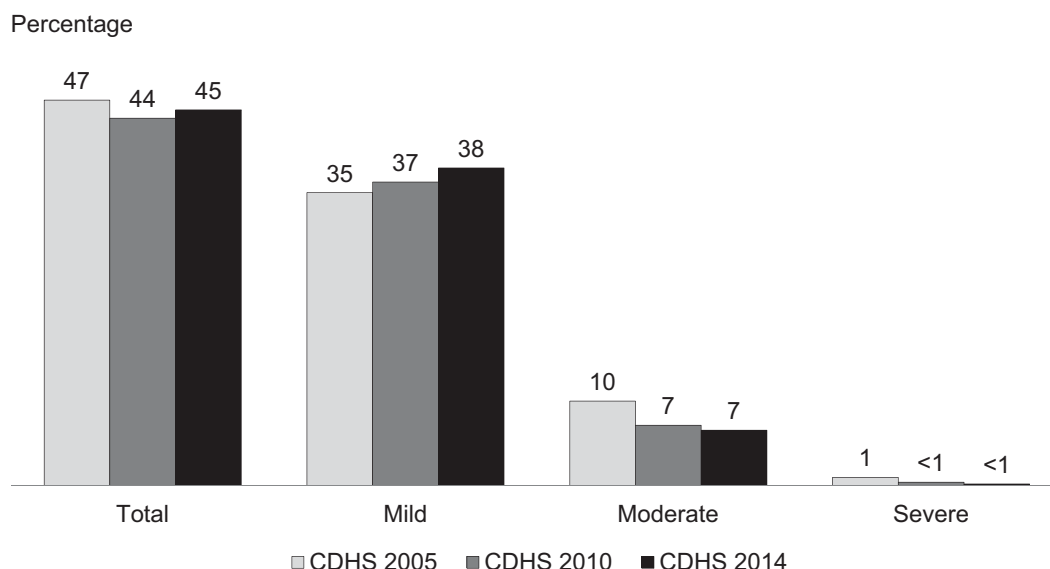
Percentage of women age 15-49 with anemia, by background characteristics, Cambodia 2014

| Background characteristic           | Anemia status by hemoglobin level |             |                 |               | Number of women |
|-------------------------------------|-----------------------------------|-------------|-----------------|---------------|-----------------|
|                                     | Any anemia                        | Mild anemia | Moderate anemia | Severe anemia |                 |
| <b>Age</b>                          |                                   |             |                 |               |                 |
| 15-19                               | 49.4                              | 42.1        | 6.9             | 0.4           | 1,811           |
| 20-29                               | 42.5                              | 36.6        | 5.7             | 0.2           | 3,897           |
| 30-39                               | 44.3                              | 37.4        | 6.8             | 0.1           | 3,055           |
| 40-49                               | 48.2                              | 39.6        | 8.1             | 0.4           | 2,524           |
| <b>Number of children ever born</b> |                                   |             |                 |               |                 |
| 0                                   | 46.5                              | 39.3        | 6.9             | 0.3           | 3,585           |
| 1                                   | 44.7                              | 37.5        | 6.9             | 0.4           | 1,865           |
| 2-3                                 | 43.2                              | 37.5        | 5.4             | 0.2           | 3,653           |
| 4-5                                 | 46.4                              | 38.4        | 7.7             | 0.3           | 1,541           |
| 6+                                  | 51.2                              | 40.6        | 10.6            | 0.0           | 641             |
| <b>Maternity status</b>             |                                   |             |                 |               |                 |
| Pregnant                            | 53.2                              | 30.4        | 22.4            | 0.4           | 615             |
| Breastfeeding                       | 51.5                              | 44.6        | 6.8             | 0.2           | 1,566           |
| Neither                             | 43.8                              | 37.9        | 5.6             | 0.3           | 9,106           |
| <b>Using IUD</b>                    |                                   |             |                 |               |                 |
| Yes                                 | 49.4                              | 43.3        | 6.1             | 0.0           | 334             |
| No                                  | 45.2                              | 38.2        | 6.7             | 0.3           | 10,952          |
| <b>Smoking status</b>               |                                   |             |                 |               |                 |
| Smokes cigarettes/tobacco           | 51.5                              | 41.2        | 9.5             | 0.8           | 631             |
| Does not smoke                      | 45.0                              | 38.2        | 6.6             | 0.2           | 10,655          |
| <b>Residence</b>                    |                                   |             |                 |               |                 |
| Urban                               | 39.4                              | 34.9        | 4.3             | 0.2           | 2,156           |
| Rural                               | 46.8                              | 39.2        | 7.3             | 0.3           | 9,130           |
| <b>Province</b>                     |                                   |             |                 |               |                 |
| Banteay Meanchey                    | 30.5                              | 26.3        | 3.7             | 0.6           | 450             |
| Kampong Cham                        | 52.0                              | 42.2        | 9.6             | 0.2           | 1,226           |
| Kampong Chhnang                     | 53.0                              | 45.2        | 6.9             | 0.9           | 418             |
| Kampong Speu                        | 53.3                              | 44.2        | 9.1             | 0.0           | 784             |
| Kampong Thom                        | 44.6                              | 36.6        | 7.2             | 0.8           | 567             |
| Kandal                              | 49.4                              | 41.3        | 7.9             | 0.2           | 867             |
| Kratie                              | 46.2                              | 36.3        | 8.8             | 1.0           | 318             |
| Phnom Penh                          | 41.7                              | 37.4        | 4.0             | 0.3           | 1,316           |
| Prey Veng                           | 46.9                              | 39.8        | 7.1             | 0.0           | 749             |
| Pursat                              | 46.6                              | 37.6        | 8.8             | 0.2           | 418             |
| Siem Reap                           | 41.1                              | 34.3        | 6.3             | 0.4           | 722             |
| Svay Rieng                          | 45.7                              | 38.2        | 7.3             | 0.3           | 427             |
| Takeo                               | 35.4                              | 32.2        | 3.2             | 0.0           | 693             |
| Otdar Meanchey                      | 48.3                              | 40.7        | 7.6             | 0.0           | 189             |
| Battambang/Pailin                   | 42.5                              | 38.2        | 4.3             | 0.0           | 843             |
| Kampot/Kep                          | 44.1                              | 39.1        | 4.7             | 0.3           | 479             |
| Preah Sihanouk/Koh Kong             | 43.7                              | 37.4        | 6.2             | 0.1           | 267             |
| Preah Vihear/Stung Treng            | 53.7                              | 41.4        | 12.2            | 0.0           | 313             |
| Mondul Kiri/Ratanak Kiri            | 41.7                              | 34.4        | 7.2             | 0.1           | 239             |
| <b>Education</b>                    |                                   |             |                 |               |                 |
| No education                        | 47.8                              | 38.8        | 8.4             | 0.5           | 1,473           |
| Primary                             | 47.5                              | 39.5        | 7.8             | 0.3           | 5,337           |
| Secondary and higher                | 42.0                              | 37.0        | 4.9             | 0.2           | 4,476           |
| <b>Wealth quintile</b>              |                                   |             |                 |               |                 |
| Lowest                              | 53.3                              | 42.2        | 10.5            | 0.6           | 2,055           |
| Second                              | 48.9                              | 40.1        | 8.6             | 0.1           | 2,103           |
| Middle                              | 44.5                              | 39.1        | 5.3             | 0.2           | 2,157           |
| Fourth                              | 43.1                              | 36.7        | 6.3             | 0.1           | 2,292           |
| Highest                             | 39.1                              | 35.1        | 3.8             | 0.2           | 2,680           |
| Total                               | 45.4                              | 38.4        | 6.7             | 0.2           | 11,286          |

Note: Prevalence is adjusted for altitude and for smoking status if known using formulas in CDC, 1998.

Figure 16.8 indicates that the overall prevalence of anemia has remained more or less the same since the 2005 CDHS. This persistence of a high level of anemia requires more rigorous study to identify the causes and effective interventions.

**Figure 16.8 Trends in anemia status among women age 15-49**



## 16.12 MICRONUTRIENT INTAKE AMONG MOTHERS

Adequate micronutrient intake by women has important benefits for both women and their children. Breastfeeding children benefit from micronutrient supplementation that mothers receive. Iron supplementation of women during pregnancy protects the mother and infant against anemia, which results in an increased risk of premature delivery and low birth weight. Finally, iodine deficiency is also related to a number of adverse pregnancy outcomes.

The Ministry of Health has developed and adopted a number of policies and guidelines addressing micronutrient deficiencies in women, including the National Guidelines for the Use of Iron/Folate Supplementation to Prevent and Treat Anemia in Pregnant and Postpartum Women (2007 revision). Iron/folate supplementation is provided to women during pregnancy (for 90 days) and in the postpartum period (for 42 days). In addition, Mebendazol is given to pregnant women during a prenatal care visit.

Table 16.12 presents the extent to which women receive iron supplements following delivery. Forty-nine percent of women reported that they had received iron/folate supplements in the six-week period following the delivery of their last-born child. With regard to iron supplementation during pregnancy, 94 percent of women who gave birth during the five-year period before the 2014 CDHS reported that they had taken iron tablets or syrup during the pregnancy preceding their last live birth; 76 percent indicated that they took the supplements for 90 days or more, which is recommended. The prevalence of iron supplement intake for 90 days or more varies little by area of residence. The lowest level of recommended iron supplementation was in Kratie (39 percent), and the highest level was in Kampong Chhnang (94 percent). The percentage of women who took iron supplements for the recommended 90 days increased with increasing education and wealth.

Almost three-quarters of women reported that they took deworming medicine (drugs for intestinal parasites) during pregnancy. Deworming medicine was more commonly used by rural than urban women and by women in Kampong Chhnang. The proportion of women who took drugs for intestinal parasites during pregnancy increases with increasing education; however, it shows no steady pattern by wealth quintile.



As was the case among children, about 7 in 10 mothers (69 percent) live in households with iodized salt. Women in Kampot/Kep (13 percent) are least likely to be living in households consuming iodized salt.

Table 16.12 Micronutrient intake among mothers

Among women age 15-49 with a child born in the past five years, the percentage who received iron tablets in the first six weeks after the birth of the last child, the percent distribution by number of days they took iron tablets or syrup during the pregnancy of the last child, and the percentage who took deworming medication during the pregnancy of the last child, and among women age 15-49 with a child born in the past five years and who live in households that were tested for iodized salt, the percentage who live in households with iodized salt, by background characteristics, Cambodia 2014

| Background characteristic    | Percentage who received iron postpartum <sup>1</sup> | Number of days women took iron tablets or syrup during pregnancy of last birth |      |       |      | Don't know/missing | Percentage of women who took deworming medication during pregnancy of last birth | Number of women | Among women with a child born in the last five years who live in households that were tested for iodized salt: |                 |
|------------------------------|--|--|------|-------|------|--------------------|--|-----------------|--|-----------------|
|                              |  | None   | <60  | 60-89 | 90+  |                    |  |                 | Percentage living in households with iodized salt <sup>2</sup>   | Number of women |
| <b>Age</b>                   |  |  |      |       |      |                    |  |                 |  |                 |
| 15-19                        | 42.1   | 5.7  | 13.7 | 6.7   | 74.0 | 0.0                | 71.8   | 213             | 63.1   | 207             |
| 20-29                        | 49.0   | 3.2  | 7.7  | 11.1  | 76.5 | 1.6                | 74.1   | 3,227           | 67.5   | 3,193           |
| 30-39                        | 50.0   | 4.4  | 8.2  | 9.2   | 76.2 | 2.1                | 70.5   | 2,175           | 70.9   | 2,151           |
| 40-49                        | 43.6   | 14.2   | 9.6  | 8.9   | 64.2 | 3.1                | 64.3   | 357             | 74.6   | 351             |
| <b>Residence</b>             |  |  |      |       |      |                    |  |                 |  |                 |
| Urban                        | 47.2   | 2.5  | 8.0  | 9.3   | 77.7 | 2.6                | 62.0   | 876             | 80.8   | 867             |
| Rural                        | 49.0   | 4.7  | 8.2  | 10.3  | 75.2 | 1.6                | 73.9   | 5,096           | 67.0   | 5,035           |
| <b>Province</b>              |  |  |      |       |      |                    |  |                 |  |                 |
| Banteay Meanchey             | 38.0   | 0.8  | 3.8  | 4.4   | 88.3 | 2.8                | 72.1   | 219             | 88.7   | 216             |
| Kampong Cham                 | 34.6   | 2.7  | 14.3 | 17.5  | 65.5 | 0.0                | 64.3   | 819             | 36.2   | 802             |
| Kampong Chhnang              | 84.9   | 0.7  | 0.9  | 2.7   | 94.4 | 1.3                | 96.6   | 203             | 64.7   | 203             |
| Kampong Speu                 | 30.4   | 1.8  | 8.9  | 6.9   | 79.2 | 3.3                | 71.7   | 395             | 88.7   | 387             |
| Kampong Thom                 | 82.2   | 5.3  | 6.1  | 10.2  | 78.3 | 0.0                | 90.6   | 279             | 88.2   | 279             |
| Kandal                       | 45.0   | 5.0  | 11.4 | 4.5   | 79.0 | 0.0                | 71.1   | 420             | 84.6   | 419             |
| Kratie                       | 29.9   | 23.0   | 24.9 | 13.6  | 38.5 | 0.0                | 57.0   | 214             | 91.4   | 212             |
| Phnom Penh                   | 44.5   | 2.1  | 7.3  | 10.4  | 79.2 | 1.0                | 53.6   | 535             | 76.7   | 526             |
| Prey Veng                    | 59.0   | 1.1  | 1.8  | 9.3   | 87.8 | 0.0                | 84.5   | 405             | 63.2   | 404             |
| Pursat                       | 63.4   | 4.5  | 6.0  | 7.8   | 80.6 | 1.0                | 89.2   | 245             | 49.2   | 241             |
| Siem Reap                    | 62.7   | 3.1  | 9.2  | 13.2  | 73.1 | 1.4                | 74.3   | 379             | 79.3   | 370             |
| Svay Rieng                   | 31.5   | 1.9  | 6.6  | 12.0  | 78.2 | 1.2                | 70.1   | 229             | 95.4   | 229             |
| Takeo                        | 72.4   | 2.1  | 2.8  | 5.5   | 86.7 | 2.9                | 71.1   | 321             | 86.9   | 318             |
| Otdar Meanchey               | 62.9   | 4.0  | 6.1  | 12.5  | 76.8 | 0.7                | 82.0   | 116             | 78.8   | 114             |
| Battambang/Pailin            | 43.7   | 2.5  | 2.1  | 6.3   | 80.0 | 9.0                | 78.4   | 460             | 46.9   | 456             |
| Kampot/Kep                   | 37.8   | 7.1  | 8.4  | 13.4  | 66.7 | 4.5                | 72.7   | 236             | 13.3   | 234             |
| Preah Sihanouk/<br>Koh Kong  | 62.7   | 3.2  | 11.1 | 8.2   | 74.5 | 3.0                | 66.1   | 142             | 95.9   | 141             |
| Preah Vihear/<br>Stung Treng | 38.8   | 9.8  | 13.4 | 12.9  | 63.3 | 0.6                | 59.6   | 188             | 82.3   | 183             |
| Mondul Kiri/<br>Ratanak Kiri | 42.5   | 22.3   | 6.9  | 14.8  | 55.9 | 0.1                | 72.0   | 169             | 81.4   | 168             |
| <b>Education</b>             |  |  |      |       |      |                    |  |                 |  |                 |
| No education                 | 44.4   | 12.2   | 11.9 | 11.3  | 63.0 | 1.6                | 63.0   | 805             | 64.8   | 788             |
| Primary                      | 48.0   | 4.3  | 9.2  | 10.5  | 73.7 | 2.2                | 72.8   | 3,100           | 67.4   | 3,054           |
| Secondary and higher         | 51.7   | 1.4  | 5.2  | 9.1   | 83.1 | 1.2                | 74.8   | 2,068           | 73.1   | 2,059           |
| <b>Wealth quintile</b>       |  |  |      |       |      |                    |  |                 |  |                 |
| Lowest                       | 46.4   | 8.8  | 12.3 | 12.5  | 65.0 | 1.3                | 70.5   | 1,359           | 62.0   | 1,332           |
| Second                       | 50.9   | 4.8  | 9.5  | 9.5   | 74.8 | 1.5                | 71.6   | 1,215           | 65.1   | 1,198           |
| Middle                       | 48.0   | 3.5  | 6.3  | 11.8  | 76.7 | 1.7                | 76.3   | 1,133           | 64.7   | 1,127           |
| Fourth                       | 51.1   | 1.7  | 6.4  | 8.5   | 81.3 | 2.2                | 74.4   | 1,069           | 75.7   | 1,061           |
| Highest                      | 48.0   | 2.0  | 5.7  | 8.0   | 81.9 | 2.3                | 68.7   | 1,196           | 79.0   | 1,185           |
| <b>Total</b>                 | 48.8   | 4.4  | 8.2  | 10.1  | 75.5 | 1.8                | 72.2   | 5,973           | 69.0   | 5,902           |

<sup>1</sup> In the first six weeks after delivery of last birth

<sup>2</sup> Excludes women in households where salt was not tested





**Key Findings**

- Lack of iron storage is relatively rare in Cambodia. Only 3 percent each of mothers age 15-49 and their children born since January 2009 are affected.
- Nineteen percent of mothers and 10 percent of children are infected with at least one intestinal parasite. Hookworm is the most commonly found intestinal parasite, present in 15 percent of mothers and 7 percent of children.
- Three percent of mothers and 9 percent of children have vitamin A deficiency.
- Insufficient urinary iodine concentrations were found in 78 percent of mothers and 66 percent of children.

Micronutrient data at the national level for women and their children were collected for the first time in the 2014 CDHS. Micronutrient data collection and analysis were implemented with support and collaboration from UNICEF; the Institut de Recherche pour le Développement; the International Life Science Institute; World Vision; the World Food Programme; the Cambodian Fisheries Administration of the Ministry of Agriculture, Forestry and Fisheries; and ICF International. Data on micronutrients were collected in a subsample of one in every six clusters selected for the main survey (102 of the overall 611 clusters). All children in the selected households who were born after January 2009 and their mothers were eligible. It was estimated that this sampling design would allow collection of biological samples for approximately 1,000 mothers and 1,000 children under age 5. The samples collected from the women and children were a venous blood sample, a spot urine sample, and a stool sample. In order not to disrupt the CDHS survey procedures, collection of specimens was planned as a follow-on activity in which households were revisited after the DHS team had left the clusters. Due to logistic complications, the micronutrient teams were able to revisit the clusters only about one to three months after the DHS team had left. During the DHS data collection, all households in the eligible clusters were asked for consent to be revisited for the micronutrient survey. Informed consent was obtained from women and from the parent or adult responsible for the children before the collection of micronutrient samples.

Blood samples were tested for iron status (plasma ferritin and plasma soluble transferrin receptor concentrations), vitamin A status (plasma retinol-binding protein concentration), vitamin D status (plasma 25-hydroxy vitamin D3 concentration), calcium status (plasma calcium concentration), vitamin B9 (plasma folate concentration) and vitamin B12 (plasma vitamin B12 concentration), and type of hemoglobin. Urine samples were tested for iodine status (urinary iodine concentration). Stool samples were tested for intestinal parasites (egg counts).

Iron status and vitamin A status were analyzed at the VitMin laboratory in Germany using the sandwich ELISA technique. Vitamin D, calcium, vitamin B9, and vitamin B12 were analyzed at the Institut Pasteur in Phnom Penh, Cambodia, using electrochemiluminescence immunoassay with a Cobas system. Urinary iodine concentrations were analyzed at the laboratory of the Mahidol University Institute of Nutrition in Bangkok, Thailand, using spectrophotometry. Stool samples were analyzed for intestinal parasite eggs at the National Centre for Malaria and Parasitology in Phnom Penh Cambodia, using the Flotac technique.

## 17.1 COVERAGE OF MICRONUTRIENT TESTING

The survey identified 1,048 mothers and 1,358 children who were eligible for the micronutrient study. However, about one in four mothers and their children (27 percent and 24 percent, respectively) refused to participate in the micronutrient survey (Table 17.1). Refusal rates were considerably higher in urban areas than in rural areas for both mothers and children.

**Table 17.1 Coverage of micronutrient testing by residence**

Among mothers age 15-49 who have at least one child born since January 2009 and children born since January 2009, percent distribution by biological specimen testing status (unweighted), according to residence, Cambodia 2014

| Specimen                 | Mothers age 15-49 |       |       | Children under age 5 |       |       |
|--------------------------|-------------------|-------|-------|----------------------|-------|-------|
|                          | Urban             | Rural | Total | Urban                | Rural | Total |
| <b>Stool</b>             |                   |       |       |                      |       |       |
| Tested with results      | 52.5              | 64.6  | 61.6  | 52.5                 | 63.6  | 60.8  |
| Tested, no results       | 8.5               | 12.0  | 11.2  | 13.3                 | 16.1  | 15.4  |
| <b>Blood<sup>1</sup></b> |                   |       |       |                      |       |       |
| Tested with results      | 57.5              | 73.8  | 69.8  | 48.7                 | 61.0  | 58.0  |
| Tested, no results       | 3.5               | 2.9   | 3.1   | 17.1                 | 18.7  | 18.3  |
| <b>Blood<sup>2</sup></b> |                   |       |       |                      |       |       |
| Tested with results      | 57.9              | 73.9  | 69.9  | 49.3                 | 62.6  | 59.3  |
| Tested, no results       | 3.1               | 2.8   | 2.9   | 16.5                 | 17.1  | 16.9  |
| <b>Urinary iodine</b>    |                   |       |       |                      |       |       |
| Tested with results      | 58.3              | 74.1  | 70.2  | 59.3                 | 73.5  | 70.0  |
| Tested, no results       | 3.1               | 1.8   | 2.1   | 5.3                  | 5.6   | 5.5   |
| <b>Not tested</b>        |                   |       |       |                      |       |       |
| Refused                  | 39.0              | 22.8  | 26.8  | 34.2                 | 20.0  | 23.6  |
| Absent/missing           | 0.0               | 0.5   | 0.4   | 0.0                  | 0.3   | 0.2   |
| Total                    | 100.0             | 100.0 | 100.0 | 100.0                | 100.0 | 100.0 |
| Number                   | 259               | 789   | 1,048 | 339                  | 1,019 | 1,358 |

<sup>1</sup> Tests for vitamins and calcium

<sup>2</sup> Tests for ferritin and soluble transferrin receptors

Moreover, the quantity and/or quality of the specimens were not always sufficient for the laboratory analyses, especially in the case of children. For example, 15 percent of children's stool specimens and 17-18 percent of their blood specimens were not testable or were tested without valid results (Table 17.1). Thus, the analyses are based on only about 60-70 percent of eligible respondents.

## 17.2 IRON, HEMOGLOBIN, AND PARASITIC INFECTIONS

It has generally been assumed that, in Cambodia, the majority of anemia is associated with insufficient iron intake. However, preliminary data suggested that, in the Cambodian context, factors other than iron deficiency might play an important role in the pathogenesis of anemia (Karakochuk et al., 2015; George et al., 2012), prompting an in-depth assessment of iron status as well as other micronutrients. Iron deficiency can be assessed via serum ferritin concentrations (indicating iron stores) and soluble transferrin receptor (sTfR) concentrations (indicating tissue iron needs). A serum ferritin concentration of less than 15 µg/L in women and less than 12 µg/L in children is a highly specific indicator of iron deficiency. Normal sTfR concentrations are 8.3 mg/L or below, and an sTfR above 8.3 mg/L indicates tissue iron deficiency.

## 17.2.1 Anemia and Iron Status in Mothers

The data indicate that more than 4 in 10 mothers are anemic (Table 17.2). Iron deficiency was relatively rare among mothers (Table 17.2), with only 3 percent having no iron storage (ferritin concentrations <15 µg/L). In contrast, 34 percent of women showed tissue iron deficiency, as indicated by elevated sTfR concentrations (>8.3 mg/L). Caution is needed in interpreting this indicator, however, as the cutoff level is currently being discussed among experts and has not yet been formally established. Also, other factors such as hemoglobin disorders (hemoglobinopathy) might influence this indicator.

Hemoglobin is the oxygen-transporting protein in red blood cells. Hemoglobin A1 is the normal form of hemoglobin. A person who has an HbA1 level above 95 percent is considered to have normal hemoglobin. However, many genetic disorders induce different types of hemoglobin. Some of these disorders, such as hemoglobin E (HbE), result in a structurally different hemoglobin protein, leading to shorter red blood cell life spans and lower hemoglobin concentrations. Other disorders, such as  $\alpha$ - and  $\beta$ -thalassemia, are caused by deletion of part of the protein and result in lower production of hemoglobin. A combination of different disorders, such as HbE and  $\beta$ -thalassemia, is also possible and even quite common in Cambodia. HbE can be present in one of the two genes (heterozygote HbE) or in both genes (homozygote HbE). Heterozygote HbE is expected when HbE levels are between 20 percent and 30 percent of total Hb. Homozygote HbE is expected when levels are above 80 percent of total Hb.

The results showed that 41 percent of mothers had HbA1 levels above 95 percent, indicating that they had normal hemoglobin, and 28 percent had heterozygote HbE (Table 17.3). Another 6 percent had homozygote HbE. Other forms of hemoglobin were found among 23 percent of mothers.

**Table 17.2 Anemia, iron status, and soluble transferrin receptors among mothers**

Among mothers aged 15–49 years who have at least one child born since January 2009, percentage with anemia, no iron storage (low ferritin) and tissue iron deficiency (high soluble transferrin receptor [sTfR] concentration), according to urban–rural residence, Cambodia 2014

|                         | Urban | Rural | Total |
|-------------------------|-------|-------|-------|
| <b>Hemoglobin level</b> |       |       |       |
| Anemia <sup>1</sup>     | 46.23 | 43.50 | 43.89 |
| Number of mothers       | 71    | 415   | 485   |
| Ferritin <15 mg/L       | 3.61  | 2.40  | 2.55  |
| sTfR >8.3 mg/L          | 31.57 | 34.23 | 33.89 |
| Number of mothers       | 96    | 642   | 738   |

<sup>1</sup>All pregnant mothers with hemoglobin <11.0 gram per deciliter (g/dl) and all nonpregnant mothers with hemoglobin <12.0 g/dl, after adjustments for altitude and for smoking status, if known, using formulas in CDC (1998), are classified as anemic. The hemoglobin level was measured in two-thirds of the households in each cluster during the main DHS data collection. This is why the number of women in the table is lower for hemoglobin level.

**Table 17.3 Type of hemoglobin among mothers by residence**

Among mothers age 15–49 who have at least one child born since January 2009, percent distribution by type of hemoglobin, according to residence, Cambodia 2014

| Type of hemoglobin                     | Urban | Rural | Total |
|--|-------|-------|-------|
| Normal hemoglobin <sup>1</sup>         | 46.6  | 39.6  | 40.5  |
| Heterozygote hemoglobin E <sup>2</sup> | 25.5  | 28.4  | 28.0  |
| Homozygote hemoglobin E <sup>3</sup>   | 7.9   | 5.7   | 6.0   |
| Other forms of hemoglobin <sup>4</sup> | 19.3  | 23.2  | 22.7  |
| Missing                                | 0.8   | 3.1   | 2.8   |
| Total                                  | 100.0 | 100.0 | 100.0 |
| Number                                 | 96    | 643   | 739   |

<sup>1</sup> Hemoglobin A1 >95 percent

<sup>2</sup> Hemoglobin E between 20 percent and 30 percent

<sup>3</sup> Hemoglobin E >80 percent

<sup>4</sup> Any other forms of hemoglobin spectrum

## 17.2.2 Anemia and Iron Status in Children

The overall prevalence of iron deficiency among children (3 percent) is about the same as among mothers (Table 17.4). The prevalence of iron deficiency is very low relative to the high prevalence of anemia (53 percent) among children. Again, as for mothers, the prevalence of tissue iron deficiency was much higher, with nearly half (48 percent) of the children affected. However, the same caution as

mentioned above concerning use of the sTfR cutoff in this population is needed when interpreting these data. The prevalence of children with no iron stores (a ferritin concentration <12 µg/L) was highly dependent on age, with the prevalence being higher among children age 6-11 months (9 percent) and age 12-23 months (12 percent) than among children age 2 and older (1 percent) (Table 17.5). Tissue iron deficiency (as indicated by an sTfR >8.3 mg/L) showed a similar pattern, with a higher prevalence of deficiency among children less than age 2 than among older children.

**Table 17.4 Anemia, iron status, and soluble transferrin receptors (sTfRs) among children born since January 2009**

Percentage of children born since 2009 according to their anemia status (hemoglobin concentration <11.0 g/dl) and iron status (ferritin concentration <15 µg/L; soluble transferrin receptor [sTfR] concentration <8.3 mg/L), by residence, Cambodia 2014

|                         | Urban | Rural | Total |
|-------------------------|-------|-------|-------|
| <b>Hemoglobin level</b> |       |       |       |
| Anemia <sup>1</sup>     | 42.2  | 55.1  | 53.4  |
| Number of children      | 87    | 573   | 659   |
| Ferritin <12 µg/L       | 5.0   | 3.1   | 3.3   |
| sTfR >8.3 mg/L          | 44.0  | 47.9  | 47.5  |
| Number of children      | 88    | 705   | 793   |

<sup>1</sup> All children with hemoglobin levels below 11.0 g/dl (after adjustment for altitude using formulas in CDC, 1998) are classified as anemic. Hemoglobin levels were tested in two-thirds of the households in each cluster during the main DHS data collection.

**Table 17.5 Iron status among children by age**

Among children born since 2009, percentage with no iron storage (low ferritin) and tissue iron deficiency (high sTfR) according to age group, Cambodia 2014

|                    | 6-11 months | 12-23 months | 24-59 months | 60+ months | Total |
|--------------------|-------------|--------------|--------------|------------|-------|
| Ferritin <12 µg/L  | 8.6         | 12.3         | 1.3          | 1.2        | 3.3   |
| sTfR >8.3 mg/L     | 59.4        | 60.3         | 45.7         | 39.1       | 47.5  |
| Number of children | 53          | 110          | 491          | 139        | 793   |

Hemoglobin patterns among children were more or less similar to those among mothers, with the majority of children (32 percent) having normal hemoglobin (HbA1), 24 percent having heterozygote HbE, and approximately 3 percent having homozygote HbE (Table 17.6). Another 23 percent of children have other forms of hemoglobinopathy. Being a carrier of the HbE gene is usually strongly associated with anemia.

**Table 17.6 Type of hemoglobin among children born since January 2009 by residence**

Among children born since January 2009, percent distribution by type of hemoglobin, according to residence, Cambodia 2014

| Type of hemoglobin                   | Urban | Rural | Total |
|--------------------------------------|-------|-------|-------|
| Normal hemoglobin <sup>1</sup>       | 31.8  | 32.0  | 32.0  |
| Heterozygote hemoglobin <sup>2</sup> | 27.6  | 23.6  | 24.1  |
| Homozygote hemoglobin <sup>3</sup>   | 3.7   | 2.8   | 2.9   |
| Other hemoglobin <sup>4</sup>        | 15.6  | 24.3  | 23.3  |
| Missing                              | 21.2  | 17.2  | 17.7  |
| Total                                | 100.0 | 100.0 | 100.0 |
| Number of children                   | 88    | 705   | 793   |

<sup>1</sup> Hemoglobin A1 >95 percent

<sup>2</sup> Hemoglobin E between 20 percent and 30 percent

<sup>3</sup> Hemoglobin E >80 percent

<sup>4</sup> Any other forms of hemoglobin spectrum

### 17.2.3 Intestinal Parasite Infection

The data showed that nearly 1 in 5 mothers (19 percent) were infected with at least one intestinal parasite, approximately twice the proportion found among children (10 percent). By far the most prevalent intestinal parasite infection was hookworm, present in 15 percent of mothers and 7 percent of children (Table 17.7). The prevalence of hookworm infection among both mothers and children was much higher in rural areas than in urban areas.

**Table 17.7 Intestinal parasitic infection in women and children**

Among mothers age 15-49 who have at least one child born since 2009 and all children born since 2009, percentage with various intestinal parasitic infections, according to residence, Cambodia 2014

| Type of intestinal parasitic infection | Mothers age 15-49 |             |             | Children born since 2009 |             |             |
|--|-------------------|-------------|-------------|--------------------------|-------------|-------------|
|  | Urban             | Rural       | Total       | Urban                    | Rural       | Total       |
| <b>Any infection</b>                   | <b>9.6</b>        | <b>19.7</b> | <b>18.5</b> | <b>2.3</b>               | <b>11.4</b> | <b>10.4</b> |
| <i>Ascaris</i>                         | 0.0               | 0.1         | 0.1         | 1.6                      | 0.8         | 0.9         |
| <i>Trichuris</i>                       | 0.0               | 0.3         | 0.2         | 0.0                      | 0.1         | 0.1         |
| Hookworm                               | 6.8               | 16.6        | 15.4        | 1.8                      | 7.8         | 7.1         |
| <i>Enterobius</i>                      | 0.0               | 0.9         | 0.8         | 0.2                      | 2.3         | 2.1         |
| <i>Taenia</i>                          | 0.0               | 0.0         | 0.0         | 0.0                      | 0.2         | 0.2         |
| <i>Hymenolepis nana</i>                | 1.8               | 1.2         | 1.3         | 0.0                      | 0.8         | 0.7         |
| Other                                  | 1.0               | 1.1         | 1.0         | 0.0                      | 0.9         | 0.8         |
| Number                                 | 77                | 555         | 632         | 93                       | 719         | 811         |

## 17.3 VITAMIN AND CALCIUM DEFICIENCY

### 17.3.1 Vitamin and Calcium Deficiency among Mothers

Serum retinol is commonly used as an indicator of vitamin A status. Retinol is transported in a one-to-one complex with retinol-binding protein (RBP). Studies have shown a high correlation between concentrations of RBP and concentrations of retinol. Marginal vitamin A status is assumed when retinol or RBP concentrations are below 1.05  $\mu\text{mol/L}$ , and vitamin A deficiency is assumed when retinol or RBP concentrations are below 0.70  $\mu\text{mol/L}$ .

Table 17.8 shows that 9 percent of mothers were classified as having marginal vitamin A status, while 3 percent had vitamin A deficiency. The prevalence of vitamin B12 deficiency (<150 pmol/L) and calcium deficiency (<1.15 mmol/L) was low, with approximately 1 percent of women affected by each deficiency. In contrast, almost 1 in 5 women had folic acid (also known as vitamin B9) deficiency. Folic acid deficiency in pregnancy is linked to neural tube defects and cleft palate. The prevalence of vitamin D deficiency was also high among women, depending on the cutoff used. Overall, 31 percent and 60 percent of women had vitamin D levels less than 50 nmol/L and 70 nmol/L, respectively.

**Table 17.8 Blood level of vitamins A, B12, B9, and D and calcium in mothers**

Among mothers age 15-49 who have at least one child born since 2009, percentage with deficiencies of vitamin A, vitamin B12, vitamin B9, vitamin D, and calcium, according to residence, Cambodia 2014

|  | Urban | Rural | Total |
|--|-------|-------|-------|
| <b>Vitamin A deficiency</b>              |       |       |       |
| Deficient (RBP <0.70 $\mu\text{mol/L}$ ) | 4.6   | 3.0   | 3.2   |
| Marginal (RBP <1.05 $\mu\text{mol/L}$ )  | 9.8   | 8.6   | 8.7   |
| <b>Vitamin B12 deficiency</b>            |       |       |       |
| Deficient (<150 pmol/L)                  | 1.7   | 1.0   | 1.1   |
| <b>Vitamin B9 deficiency</b>             |       |       |       |
| Deficient (<10 nmol/L)                   | 19.1  | 19.2  | 19.2  |
| <b>Vitamin D deficiency</b>              |       |       |       |
| <50 nmol/L                               | 26.6  | 31.6  | 30.9  |
| <70 nmol/L                               | 51.5  | 61.1  | 59.9  |
| <b>Calcium deficiency</b>                |       |       |       |
| <1.15 mmol/L                             | 0.3   | 0.9   | 0.8   |
| <0.90 mmol/L                             | 0.0   | 0.2   | 0.2   |
| Number of mothers                        | 96    | 643   | 739   |

Note: Blood level of RBP is measured in micromoles per liter ( $\mu\text{mol/L}$ ), vitamin B12 in picomoles per liter (pmol/L), vitamin B9 and vitamin D in nanomoles per liter (nmol/L), and calcium in millimoles per liter (mmol/L).

### 17.3.2 Vitamin and Calcium Deficiency among Children

Among children, the overall prevalence of vitamin A deficiency (RBP <0.70  $\mu\text{mol/L}$ ) is 9 percent, just below the threshold for a major public health problem (Table 17.9.1). Moreover, the high prevalence of children with marginal vitamin A status (29 percent) is a significant public health concern. Similar to

mothers, the prevalence of vitamin B12 and calcium deficiency was low (2 percent and 1 percent, respectively). In contrast, 8 percent of children suffer from folic acid (vitamin B9) deficiency. The prevalence of folic acid deficiency among children is higher in urban areas (18 percent) than rural areas (7 percent). The prevalence of vitamin D deficiency is also high, with 15 percent of children having a vitamin D level below 50 nmol/L and 33 percent having a level below 70 nmol/L.

**Table 17.9.1 Blood level of vitamins A, B12, B9, and D and calcium in children**

Among children born since January 2009, percentage with deficiencies of vitamin A, vitamin B12, vitamin B9, vitamin D, and calcium, according to residence, Cambodia 2014

|                               | Urban | Rural | Total |
|-------------------------------|-------|-------|-------|
| <b>Vitamin A deficiency</b>   |       |       |       |
| Deficient (RBP <0.70 µmol/L)  | 13.7  | 8.7   | 9.2   |
| Marginal (RBP <1.05 µmol/L)   | 39.9  | 27.9  | 29.2  |
| <b>Vitamin B12 deficiency</b> |       |       |       |
| Deficient (<150 pmol/L)       | 0.8   | 1.8   | 1.7   |
| <b>Vitamin B9 deficiency</b>  |       |       |       |
| Deficient (<10 nmol/L)        | 17.5  | 6.8   | 8.0   |
| <b>Vitamin D deficiency</b>   |       |       |       |
| <50 nmol/L                    | 17.9  | 15.0  | 15.3  |
| <70 nmol/L                    | 36.7  | 32.7  | 33.1  |
| <b>Calcium deficiency</b>     |       |       |       |
| <1.15 mmol/L                  | 0.4   | 0.6   | 0.6   |
| <0.90 mmol/L                  | 0.4   | 0.5   | 0.5   |
| Number of children            | 87    | 688   | 775   |

Note: Blood level of vitamin A is measured in micromoles per liter (µmol/L), vitamin B12 in picomoles per liter (pmol/L), vitamin B9 and vitamin D in nanomoles per liter (nmol/L), and calcium in millimoles per liter (mmol/L).

Table 17.9.2 presents levels of deficiency for different vitamins among children by age. The prevalence of vitamin B12 deficiency and calcium deficiency is substantially higher among children age 6-11 months than among children age 12 months and older. In contrast, the proportion of children with vitamin D deficiency increases with age (Table 17.9.2). The proportions of children who suffer from vitamin A and folic acid deficiency vary only slightly by age.

**Table 17.9.2 Blood level of vitamins A, B12, B9, and D and calcium in children by age**

Among children born since January 2009, percentage with deficiencies of vitamin A, vitamin B12, vitamin B9, vitamin D, and calcium, according to age group, Cambodia 2014

|                               | 6-11 months | 12-23 months | 24-59 months | 60+ months | Total |
|-------------------------------|-------------|--------------|--------------|------------|-------|
| <b>Vitamin A deficiency</b>   |             |              |              |            |       |
| Deficient (RBP <0.70 µmol/L)  | 11.1        | 8.8          | 9.3          | 8.7        | 9.2   |
| Marginal (RBP <1.05 µmol/L)   | 33.8        | 26.1         | 27.7         | 35.5       | 29.2  |
| <b>Vitamin B12 deficiency</b> |             |              |              |            |       |
| Deficient (<150 pmol/L)       | 11.4        | 1.0          | 1.3          | 0.3        | 1.7   |
| <b>Vitamin B9 deficiency</b>  |             |              |              |            |       |
| Deficient (<10 nmol/L)        | 8.4         | 4.3          | 7.8          | 11.3       | 8.0   |
| <b>Vitamin D deficiency</b>   |             |              |              |            |       |
| <50 nmol/L                    | 9.1         | 12.9         | 14.8         | 21.2       | 15.3  |
| <70 nmol/L                    | 9.1         | 27.4         | 34.9         | 39.5       | 33.1  |
| <b>Calcium deficiency</b>     |             |              |              |            |       |
| <1.15 mmol/L                  | 4.2         | 1.1          | 0.3          | 0.0        | 0.6   |
| <0.90 mmol/L                  | 4.2         | 0.4          | 0.3          | 0.0        | 0.5   |
| Number of children            | 46          | 105          | 486          | 138        | 775   |

Note: Blood level of vitamin A is measured in micromoles per liter (µmol/L), vitamin B12 in picomoles per liter (pmol/L), vitamin B9 and vitamin D in nanomoles per liter (nmol/L), and calcium in millimoles per liter (mmol/L).

## 17.4 URINE IODINE CONCENTRATION

Urinary iodine concentration (UIC) is the prime indicator of nutritional iodine status and is used to evaluate population-based iodine supplementation. A UIC of less than 100 µg/L indicates insufficient iodine in urine, and a value below 50 µg/L indicates a severe insufficiency. A UIC of more than 300 µg/L is considered excessive. The data show high levels of insufficiency among both mothers and children, with 78 percent of mothers and 66 percent of children having a urinary iodine concentration below 100 µg/L (Table 17.10). Severely insufficient iodine concentrations (<50 µg/L) are more prevalent among children and mothers who live in rural areas than among those who live in urban areas.

Excess iodine concentrations were found in 4 percent of children and 1 percent of mothers.

**Table 17.10 Urinary iodine excretion in mothers and children by residence**

Percent distribution of mothers age 15-49 and children born since January 2009 by urinary iodine concentration, according to residence, Cambodia 2014

| Urinary iodine <sup>1</sup> | Mothers age 15-49 |       |       | Children born since January 2009 |       |       |
|-----------------------------|-------------------|-------|-------|----------------------------------|-------|-------|
|                             | Urban             | Rural | Total | Urban                            | Rural | Total |
| <50 µg/L                    | 27.8              | 44.8  | 42.7  | 19.2                             | 40.8  | 38.2  |
| 50-99 µg/L                  | 36.7              | 35.2  | 35.3  | 24.8                             | 28.4  | 28.0  |
| 100-299 µg/L                | 34.7              | 18.6  | 20.5  | 51.2                             | 27.0  | 29.9  |
| ≥300 µg/L                   | 0.9               | 1.5   | 1.4   | 4.7                              | 3.9   | 4.0   |
| Total                       | 100.0             | 100.0 | 100.0 | 100.0                            | 100.0 | 100.0 |
| Number                      | 90                | 648   | 737   | 114                              | 840   | 953   |

<sup>1</sup> Iodine status was assessed via UIC as recommended by WHO. Targets differ according to age (WHO-VMNIS, 2013).





## Key Findings

- Knowledge of HIV/AIDS in Cambodia is universal; almost all women and men age 15-49 have heard of AIDS.
- Overall, 39 percent of women and 48 percent of men age 15-49 have comprehensive knowledge about HIV/AIDS.
- Women are more aware than men that HIV can be transmitted through breastfeeding and that this risk can be reduced by taking special drugs (60 percent versus 51 percent).
- Women age 15-49 are less likely to have multiple sexual partners than their male counterparts (less than 1 percent versus 3 percent).
- Eighteen percent of women and 5 percent of men age 18-24 reported having sexual intercourse before age 18.
- Among never-married youth age 15-24, only 1 percent of young women and 7 percent of young men reported that they had sexual intercourse in the past 12 months.
- Only two-thirds (66 percent) of young men age 15-24 who had sexual intercourse in the past 12 months reported using a condom during their last sexual encounter.

This chapter presents current levels of HIV/AIDS knowledge, attitudes, and related behaviors for the general adult population. The chapter then focuses on HIV/AIDS knowledge and patterns of sexual activity among young people. The findings in this chapter will assist the AIDS control program in Cambodia to identify particular groups of people most in need of information and services and most vulnerable to the risk of HIV infection.

## 18.1 KNOWLEDGE OF HIV/AIDS AND OF TRANSMISSION AND PREVENTION METHODS

### 18.1.1 Awareness of AIDS

Ninety-eight percent of women and men age 15-49 have heard of AIDS (Table 18.1), almost identical to the 99 percent found in 2010. Knowledge of AIDS exceeds 95 percent among women and men in all age groups, in all marital status categories, and by urban and rural residence. However, only 94 percent of women and 93 percent of men with no schooling have heard of AIDS. Women in Mondul Kiri/Ratanak Kiri (75 percent) and men in Preah Vihear/Stung Treng (83 percent) are least likely to be aware of AIDS.

Table 18.1 Knowledge of AIDS

Percentage of women and men age 15-49 who have heard of AIDS, by background characteristics, Cambodia 2014

| Background characteristic      | Women             |                       | Men               |                       |
|--------------------------------|-------------------|-----------------------|-------------------|-----------------------|
|                                | Has heard of AIDS | Number of respondents | Has heard of AIDS | Number of respondents |
| <b>Age</b>                     |                   |                       |                   |                       |
| 15-24                          | 97.9              | 5,910                 | 96.8              | 1,760                 |
| 15-19                          | 97.0              | 2,893                 | 95.2              | 926                   |
| 20-24                          | 98.8              | 3,017                 | 98.5              | 835                   |
| 25-29                          | 98.5              | 2,836                 | 99.0              | 815                   |
| 30-39                          | 98.6              | 4,886                 | 98.6              | 1,463                 |
| 40-49                          | 97.5              | 3,947                 | 98.8              | 1,152                 |
| <b>Marital status</b>          |                   |                       |                   |                       |
| Never married                  | 97.8              | 4,428                 | 96.8              | 1,663                 |
| Ever had sex                   | 99.1              | 56                    | 99.6              | 303                   |
| Never had sex                  | 97.7              | 4,372                 | 96.2              | 1,360                 |
| Married/living together        | 98.2              | 11,898                | 98.7              | 3,405                 |
| Divorced/separated/<br>widowed | 97.9              | 1,252                 | 99.1              | 122                   |
| <b>Residence</b>               |                   |                       |                   |                       |
| Urban                          | 99.6              | 3,251                 | 99.4              | 869                   |
| Rural                          | 97.7              | 14,327                | 97.8              | 4,321                 |
| <b>Province</b>                |                   |                       |                   |                       |
| Banteay Meanchey               | 99.5              | 689                   | 100.0             | 192                   |
| Kampong Cham                   | 95.6              | 2,021                 | 97.9              | 663                   |
| Kampong Chhnang                | 100.0             | 662                   | 100.0             | 182                   |
| Kampong Speu                   | 99.9              | 1,196                 | 99.6              | 323                   |
| Kampong Thom                   | 100.0             | 851                   | 100.0             | 232                   |
| Kandal                         | 99.0              | 1,330                 | 96.9              | 413                   |
| Kratie                         | 99.3              | 488                   | 97.0              | 143                   |
| Phnom Penh                     | 99.9              | 1,994                 | 99.8              | 550                   |
| Prey Veng                      | 99.7              | 1,188                 | 98.6              | 342                   |
| Pursat                         | 99.7              | 631                   | 99.5              | 184                   |
| Siem Reap                      | 97.6              | 1,137                 | 98.3              | 337                   |
| Svay Rieng                     | 99.4              | 654                   | 100.0             | 183                   |
| Takeo                          | 98.9              | 1,082                 | 98.0              | 334                   |
| Otdar Meanchey                 | 89.0              | 294                   | 99.4              | 99                    |
| Battambang/Pailin              | 99.2              | 1,333                 | 99.6              | 405                   |
| Kampot/Kep                     | 99.8              | 770                   | 97.4              | 241                   |
| Preah Sihanouk/<br>Koh Kong    | 99.2              | 422                   | 100.0             | 120                   |
| Preah Vihear/<br>Stung Treng   | 92.7              | 462                   | 83.3              | 112                   |
| Mondul Kiri/<br>Ratanak Kiri   | 74.7              | 372                   | 85.3              | 134                   |
| <b>Education</b>               |                   |                       |                   |                       |
| No education                   | 93.7              | 2,250                 | 92.5              | 324                   |
| Primary                        | 98.1              | 8,281                 | 97.1              | 2,167                 |
| Secondary and higher           | 99.5              | 7,047                 | 99.6              | 2,699                 |
| <b>Wealth quintile</b>         |                   |                       |                   |                       |
| Lowest                         | 95.8              | 3,143                 | 93.7              | 901                   |
| Second                         | 96.6              | 3,314                 | 97.7              | 954                   |
| Middle                         | 98.6              | 3,381                 | 98.9              | 1,040                 |
| Fourth                         | 99.2              | 3,612                 | 99.5              | 1,124                 |
| Highest                        | 99.6              | 4,128                 | 99.7              | 1,171                 |
| Total                          | 98.1              | 17,578                | 98.1              | 5,190                 |

### 18.1.2 HIV Prevention Methods

HIV/AIDS prevention programs focus their messages and efforts on two important aspects of behavior: limiting the number of sexual partners or staying faithful to one partner and use of condoms. To ascertain whether programs have effectively communicated these messages, the 2014 CDHS prompted respondents with specific questions about HIV/AIDS prevention methods (limiting sexual intercourse to one uninfected faithful sexual partner and using condoms).

Table 18.2 presents knowledge of these HIV/AIDS prevention methods among women and men age 15-49, by background characteristics. Eighty-five percent of women and 93 percent of men are aware that the chances of contracting the AIDS virus can be reduced by limiting sex to one uninfected partner who has no other partners; women (84 percent) and men (90 percent) are somewhat less likely to know that using condoms can prevent transmission of the AIDS virus. Overall, 77 percent of women and 87 percent of men have knowledge of both HIV prevention methods. These levels are slightly higher than those found in the 2010 CDHS (75 percent of women and 80 percent of men).

**Table 18.2 Knowledge of HIV prevention methods**

Percentage of women and men age 15-49 who, in response to prompted questions, say that people can reduce the risk of getting the AIDS virus by using condoms every time they have sexual intercourse and by having one sex partner who is not infected and has no other partners, by background characteristics, Cambodia 2014

| Background characteristic  | Women                      |  |  |                 | Men                        |  |  |               |
|----------------------------|----------------------------|--|--|-----------------|----------------------------|--|--|---------------|
|                            | Using condoms <sup>1</sup> | Limiting sexual intercourse to one uninfected partner <sup>2</sup> | Using condoms and limiting sexual intercourse to one uninfected partner <sup>1,2</sup> | Number of women | Using condoms <sup>1</sup> | Limiting sexual intercourse to one uninfected partner <sup>2</sup> | Using condoms and limiting sexual intercourse to one uninfected partner <sup>1,2</sup> | Number of men |
| <b>Age</b>                 |                            |  |  |                 |                            |  |  |               |
| 15-24                      | 83.2                       | 84.5   | 76.2   | 5,910           | 88.1                       | 90.6   | 84.1   | 1,760         |
| 15-19                      | 80.1                       | 81.0   | 72.4   | 2,893           | 86.0                       | 88.0   | 82.0   | 926           |
| 20-24                      | 86.2                       | 87.9   | 79.9   | 3,017           | 90.3                       | 93.5   | 86.5   | 835           |
| 25-29                      | 86.6                       | 87.5   | 80.4   | 2,836           | 93.2                       | 96.8   | 91.4   | 815           |
| 30-39                      | 85.2                       | 86.4   | 78.6   | 4,886           | 90.9                       | 94.3   | 88.0   | 1,463         |
| 40-49                      | 80.6                       | 82.5   | 73.7   | 3,947           | 88.9                       | 94.3   | 86.3   | 1,152         |
| <b>Marital status</b>      |                            |  |  |                 |                            |  |  |               |
| Never married              | 81.9                       | 83.1   | 75.6   | 4,428           | 88.9                       | 90.7   | 85.0   | 1,663         |
| Ever had sex               | 87.2                       | 85.7   | 80.8   | 56              | 94.9                       | 95.0   | 90.6   | 303           |
| Never had sex              | 81.8                       | 83.1   | 75.6   | 4,372           | 87.6                       | 89.8   | 83.8   | 1,360         |
| Married/living together    | 84.7                       | 85.9   | 77.8   | 11,898          | 90.2                       | 94.8   | 87.7   | 3,405         |
| Divorced/separated/widowed | 81.3                       | 84.3   | 74.0   | 1,252           | 92.8                       | 93.4   | 89.6   | 122           |
| <b>Residence</b>           |                            |  |  |                 |                            |  |  |               |
| Urban                      | 90.4                       | 91.1   | 85.7   | 3,251           | 96.8                       | 97.4   | 95.2   | 869           |
| Rural                      | 82.2                       | 83.7   | 75.0   | 14,327          | 88.5                       | 92.6   | 85.2   | 4,321         |
| <b>Province</b>            |                            |  |  |                 |                            |  |  |               |
| Banteay Meanchey           | 56.9                       | 40.1   | 33.3   | 689             | 85.7                       | 87.7   | 79.2   | 192           |
| Kampong Cham               | 74.5                       | 77.9   | 66.4   | 2,021           | 93.7                       | 89.6   | 87.6   | 663           |
| Kampong Chhnang            | 88.8                       | 99.0   | 88.6   | 662             | 93.6                       | 98.4   | 92.5   | 182           |
| Kampong Speu               | 80.6                       | 85.9   | 73.3   | 1,196           | 86.7                       | 90.7   | 80.2   | 323           |
| Kampong Thom               | 96.3                       | 93.7   | 90.5   | 851             | 96.7                       | 99.6   | 96.5   | 232           |
| Kandal                     | 92.1                       | 93.3   | 87.3   | 1,330           | 83.2                       | 95.6   | 82.8   | 413           |
| Kratie                     | 84.4                       | 87.1   | 76.9   | 488             | 75.4                       | 83.7   | 68.3   | 143           |
| Phnom Penh                 | 95.7                       | 97.0   | 93.7   | 1,994           | 98.7                       | 99.0   | 98.4   | 550           |
| Prey Veng                  | 84.4                       | 91.6   | 81.5   | 1,188           | 94.9                       | 97.3   | 93.7   | 342           |
| Pursat                     | 73.7                       | 71.4   | 62.0   | 631             | 87.6                       | 96.9   | 87.6   | 184           |
| Siem Reap                  | 79.8                       | 80.6   | 70.0   | 1,137           | 68.9                       | 89.5   | 63.8   | 337           |
| Svay Rieng                 | 81.0                       | 90.8   | 76.5   | 654             | 87.2                       | 93.0   | 84.0   | 183           |
| Takeo                      | 84.9                       | 91.0   | 81.6   | 1,082           | 93.1                       | 89.3   | 85.8   | 334           |
| Otdar Meanchey             | 69.7                       | 70.3   | 62.4   | 294             | 97.5                       | 98.9   | 96.9   | 99            |
| Battambang/Pailin          | 91.2                       | 87.8   | 83.5   | 1,333           | 97.5                       | 99.6   | 97.5   | 405           |
| Kampot/Kep                 | 93.4                       | 90.5   | 86.9   | 770             | 90.1                       | 94.3   | 88.3   | 241           |
| Preah Sihanouk/Koh Kong    | 86.1                       | 83.6   | 77.2   | 422             | 98.2                       | 97.1   | 95.4   | 120           |
| Preah Vihear/Stung Treng   | 74.8                       | 68.1   | 61.1   | 462             | 81.1                       | 79.9   | 77.7   | 112           |
| Mondul Kiri/Ratanak Kiri   | 61.7                       | 66.5   | 57.4   | 372             | 76.6                       | 80.8   | 74.1   | 134           |
| <b>Education</b>           |                            |  |  |                 |                            |  |  |               |
| No education               | 70.9                       | 74.6   | 63.1   | 2,250           | 70.1                       | 84.8   | 66.6   | 324           |
| Primary                    | 82.7                       | 83.0   | 74.8   | 8,281           | 87.1                       | 90.3   | 82.6   | 2,167         |
| Secondary and higher       | 89.1                       | 90.8   | 84.0   | 7,047           | 94.5                       | 97.0   | 92.7   | 2,699         |
| <b>Wealth quintile</b>     |                            |  |  |                 |                            |  |  |               |
| Lowest                     | 76.8                       | 78.2   | 68.4   | 3,143           | 78.2                       | 87.6   | 74.8   | 901           |
| Second                     | 79.5                       | 82.2   | 72.3   | 3,314           | 86.6                       | 90.7   | 82.2   | 954           |
| Middle                     | 82.2                       | 83.6   | 74.5   | 3,381           | 93.3                       | 94.4   | 89.7   | 1,040         |
| Fourth                     | 86.3                       | 86.5   | 79.3   | 3,612           | 93.0                       | 94.8   | 89.7   | 1,124         |
| Highest                    | 91.3                       | 92.5   | 87.4   | 4,128           | 95.5                       | 98.0   | 94.6   | 1,171         |
| <b>Total</b>               | <b>83.7</b>                | <b>85.1</b>  | <b>77.0</b>  | <b>17,578</b>   | <b>89.9</b>                | <b>93.4</b>  | <b>86.9</b>  | <b>5,190</b>  |

<sup>1</sup> Using condoms every time they have sexual intercourse

<sup>2</sup> Partner who has no other partners

Knowledge of both HIV prevention methods is higher among women age 20-29 (80 percent) than among younger or older women. Men age 25-29 are somewhat more likely to have knowledge about prevention of HIV/AIDS than men in other age groups. There is little variation in knowledge of the two HIV prevention methods by marital status, although knowledge is slightly higher among women and men who have never been married but have had sex (81 percent and 91 percent, respectively) and among formerly married men (90 percent).

Knowledge of HIV prevention methods is higher among respondents in urban than rural areas, and there is considerable variability across provinces. Among women, knowledge of the two HIV prevention methods is highest in Phnom Penh (94 percent) and lowest in Banteay Meanchey (33 percent). Among men, knowledge of the two methods is highest in Kampong Thom, Phnom Penh, Otdar Meanchey, Battambang/Pailin, and Preah Sihanouk/Koh Kong (95 percent or higher) and lowest in Siem Reap (64 percent).

Level of educational attainment strongly relates to a respondent's knowledge of HIV prevention methods. Women and men with higher levels of schooling are more likely than those with less schooling to be aware of various preventive methods. The data also show that men and women in the higher wealth quintiles are more likely than those in the lower quintiles to be aware of ways to prevent transmission of the HIV virus.

### **18.1.3 Knowledge about Transmission**

The 2014 CDHS included questions on common misconceptions about AIDS and HIV transmission. Respondents were asked whether they think it is possible for a healthy-looking person to have the AIDS virus and whether a person can contract AIDS from mosquito bites, by supernatural means, or by sharing food with a person who has AIDS.

The results in Tables 18.3.1 and 18.3.2 indicate that many Cambodian adults lack accurate knowledge about the ways in which the AIDS virus can and cannot be transmitted. Particularly critical is the fact that only 62 percent of women and 66 percent of men know that a healthy-looking person can have (and thus transmit) the virus that causes AIDS. Many women and men also erroneously believe that AIDS can be transmitted by mosquito bites; only 70 percent of women and 73 percent of men reject this common misconception. Larger proportions of women and men are aware that the AIDS virus cannot be transmitted by supernatural means (89 percent and 93 percent, respectively) or by sharing food with a person who has AIDS (88 percent and 90 percent, respectively). Overall, only about half of women (46 percent) and men (51 percent) are able to reject two of the more common misconceptions about AIDS—that AIDS can be transmitted by mosquito bites and that a person can become infected with the AIDS virus by sharing food with someone who is infected—and know that a healthy-looking person can have the AIDS virus.

Table 18.3.1 Comprehensive knowledge about AIDS: Women

Percentage of women age 15-49 who say that a healthy-looking person can have the AIDS virus and who, in response to prompted questions, correctly reject local misconceptions about transmission or prevention of the AIDS virus, and the percentage with comprehensive knowledge about AIDS, by background characteristics, Cambodia 2014

| Background characteristic  | Percentage of respondents who say that:          |  |  |  | Percentage who say that a healthy-looking person can have the AIDS virus and who reject the two most common local misconceptions <sup>1</sup> | Percentage with comprehensive knowledge about AIDS <sup>2</sup> | Number of women |
|----------------------------|--|--|--|--|---|---|-----------------|
|                            | A healthy-looking person can have the AIDS virus | The AIDS virus cannot be transmitted by mosquito bites | The AIDS virus cannot be transmitted by supernatural means | A person cannot become infected by sharing food with a person who has AIDS |   |   |                 |
| <b>Age</b>                 |  |  |  |  |   |   |                 |
| 15-24                      | 61.6   | 69.0   | 89.0   | 84.1   | 44.1  | 37.6  | 5,910           |
| 15-19                      | 57.0   | 66.1   | 86.0   | 80.3   | 39.6  | 32.7  | 2,893           |
| 20-24                      | 66.0   | 71.8   | 91.8   | 87.7   | 48.4  | 42.4  | 3,017           |
| 25-29                      | 65.3   | 77.5   | 91.0   | 92.0   | 53.2  | 45.9  | 2,836           |
| 30-39                      | 64.4   | 71.7   | 91.2   | 91.3   | 48.6  | 41.7  | 4,886           |
| 40-49                      | 58.4   | 62.7   | 86.1   | 85.3   | 39.6  | 33.0  | 3,947           |
| <b>Marital status</b>      |  |  |  |  |   |   |                 |
| Never married              | 62.0   | 72.0   | 89.4   | 85.1   | 46.9  | 40.0  | 4,428           |
| Ever had sex               | 65.7   | 70.5   | 89.0   | 85.9   | 47.2  | 42.5  | 56              |
| Never had sex              | 61.9   | 72.1   | 89.5   | 85.1   | 46.9  | 40.0  | 4,372           |
| Married/living together    | 62.4   | 69.0   | 89.5   | 88.7   | 45.5  | 38.8  | 11,898          |
| Divorced/separated/widowed | 61.7   | 67.8   | 86.4   | 86.9   | 45.1  | 38.0  | 1,252           |
| <b>Residence</b>           |  |  |  |  |   |   |                 |
| Urban                      | 79.0   | 83.1   | 95.1   | 93.4   | 66.2  | 59.2  | 3,251           |
| Rural                      | 58.4   | 66.7   | 88.0   | 86.3   | 41.2  | 34.5  | 14,327          |
| <b>Province</b>            |  |  |  |  |   |   |                 |
| Banteay Meanchey           | 52.1   | 64.4   | 86.7   | 87.5   | 36.4  | 8.9   | 689             |
| Kampong Cham               | 58.3   | 61.9   | 89.1   | 85.1   | 39.2  | 26.9  | 2,021           |
| Kampong Chhnang            | 49.3   | 96.9   | 98.8   | 99.0   | 46.7  | 44.7  | 662             |
| Kampong Speu               | 46.2   | 63.5   | 85.1   | 85.4   | 30.0  | 25.5  | 1,196           |
| Kampong Thom               | 71.5   | 91.9   | 98.8   | 97.1   | 64.8  | 59.3  | 851             |
| Kandal                     | 54.3   | 70.8   | 93.0   | 87.7   | 38.7  | 36.4  | 1,330           |
| Kratie                     | 73.5   | 56.0   | 82.4   | 81.6   | 44.1  | 39.3  | 488             |
| Phnom Penh                 | 90.6   | 83.0   | 96.3   | 92.3   | 74.5  | 71.2  | 1,994           |
| Prey Veng                  | 48.3   | 70.1   | 91.2   | 88.3   | 34.1  | 29.0  | 1,188           |
| Pursat                     | 57.1   | 77.9   | 90.8   | 93.1   | 44.3  | 29.7  | 631             |
| Siem Reap                  | 51.9   | 61.5   | 85.9   | 87.4   | 36.7  | 29.8  | 1,137           |
| Svay Rieng                 | 45.7   | 61.3   | 90.2   | 87.0   | 25.5  | 21.4  | 654             |
| Takeo                      | 79.2   | 75.9   | 92.4   | 90.8   | 63.1  | 54.5  | 1,082           |
| Otdar Meanchey             | 33.3   | 64.2   | 69.1   | 73.2   | 28.6  | 24.8  | 294             |
| Battambang/Pailin          | 81.2   | 69.2   | 87.7   | 89.4   | 58.1  | 52.9  | 1,333           |
| Kampot/Kep                 | 72.0   | 60.3   | 91.9   | 89.6   | 44.1  | 40.9  | 770             |
| Preah Sihanouk/Koh Kong    | 53.2   | 71.1   | 93.4   | 91.3   | 42.3  | 36.2  | 422             |
| Preah Vihear/Stung Treng   | 46.0   | 42.5   | 64.1   | 62.0   | 25.0  | 20.7  | 462             |
| Mondul Kiri/Ratanak Kiri   | 47.1   | 51.0   | 61.9   | 59.8   | 35.4  | 32.1  | 372             |
| <b>Education</b>           |  |  |  |  |   |   |                 |
| No education               | 47.3   | 49.8   | 75.3   | 74.8   | 27.3  | 21.6  | 2,250           |
| Primary                    | 59.0   | 64.3   | 87.9   | 86.2   | 39.7  | 32.9  | 8,281           |
| Secondary and higher       | 70.9   | 82.4   | 95.4   | 93.4   | 58.8  | 51.9  | 7,047           |
| <b>Wealth quintile</b>     |  |  |  |  |   |   |                 |
| Lowest                     | 51.3   | 56.3   | 79.7   | 79.3   | 32.1  | 25.8  | 3,143           |
| Second                     | 54.8   | 62.1   | 86.2   | 84.6   | 35.5  | 28.1  | 3,314           |
| Middle                     | 57.5   | 67.1   | 89.4   | 86.8   | 39.9  | 32.5  | 3,381           |
| Fourth                     | 65.3   | 75.8   | 93.1   | 92.0   | 50.7  | 43.7  | 3,612           |
| Highest                    | 77.8   | 82.8   | 95.5   | 93.3   | 65.1  | 59.3  | 4,128           |
| <b>Total</b>               | 62.2   | 69.7   | 89.3   | 87.6   | 45.8  | 39.1  | 17,578          |

<sup>1</sup> Two most common local misconceptions: the AIDS virus can be transmitted by mosquito bites and a person can become infected by sharing food with a person who has AIDS.

<sup>2</sup> Comprehensive knowledge means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting the AIDS virus, knowing that a healthy-looking person can have the AIDS virus, and rejecting the two most common local misconceptions about AIDS transmission or prevention.

Table 18.3.2 Comprehensive knowledge about AIDS: Men

Percentage of men age 15-49 who say that a healthy-looking person can have the AIDS virus and who, in response to prompted questions, correctly reject local misconceptions about transmission or prevention of the AIDS virus, and the percentage with comprehensive knowledge about AIDS, by background characteristics, Cambodia 2014

| Background characteristic  | Percentage of respondents who say that:          |  |  |  | Percentage who say that a healthy-looking person can have the AIDS virus and who reject the two most common local misconceptions <sup>1</sup> | Percentage with comprehensive knowledge about AIDS <sup>2</sup> | Number of men |
|----------------------------|--|--|--|--|---|---|---------------|
|                            | A healthy-looking person can have the AIDS virus | The AIDS virus cannot be transmitted by mosquito bites | The AIDS virus cannot be transmitted by supernatural means | A person cannot become infected by sharing food with a person who has AIDS |   |   |               |
| <b>Age</b>                 |  |  |  |  |   |   |               |
| 15-24                      | 63.2   | 72.0   | 90.7   | 85.7   | 48.8  | 45.9  | 1,760         |
| 15-19                      | 59.1   | 70.2   | 87.4   | 81.9   | 45.2  | 42.4  | 926           |
| 20-24                      | 67.7   | 74.1   | 94.4   | 90.0   | 52.9  | 49.9  | 835           |
| 25-29                      | 70.0   | 80.4   | 95.3   | 94.1   | 57.5  | 55.4  | 815           |
| 30-39                      | 67.0   | 74.3   | 93.7   | 92.6   | 52.5  | 50.2  | 1,463         |
| 40-49                      | 65.9   | 67.4   | 91.7   | 89.6   | 47.9  | 44.9  | 1,152         |
| <b>Marital status</b>      |  |  |  |  |   |   |               |
| Never married              | 64.4   | 74.4   | 91.3   | 86.5   | 51.7  | 49.2  | 1,663         |
| Ever had sex               | 79.2   | 79.4   | 96.3   | 90.2   | 66.8  | 64.5  | 303           |
| Never had sex              | 61.1   | 73.3   | 90.1   | 85.7   | 48.4  | 45.8  | 1,360         |
| Married/living together    | 66.3   | 72.4   | 93.0   | 91.6   | 50.6  | 47.9  | 3,405         |
| Divorced/separated/widowed | 76.5   | 70.4   | 95.5   | 86.4   | 54.8  | 52.7  | 122           |
| <b>Residence</b>           |  |  |  |  |   |   |               |
| Urban                      | 80.6   | 87.9   | 97.0   | 93.9   | 72.3  | 70.2  | 869           |
| Rural                      | 63.0   | 70.0   | 91.6   | 89.0   | 46.8  | 44.0  | 4,321         |
| <b>Province</b>            |  |  |  |  |   |   |               |
| Banteay Meanchey           | 66.3   | 60.9   | 92.9   | 83.1   | 41.3  | 36.8  | 192           |
| Kampong Cham               | 74.0   | 58.8   | 89.6   | 87.8   | 48.2  | 47.2  | 663           |
| Kampong Chhnang            | 81.3   | 68.1   | 97.3   | 83.9   | 55.2  | 52.3  | 182           |
| Kampong Speu               | 66.7   | 69.8   | 86.4   | 87.1   | 47.7  | 43.7  | 323           |
| Kampong Thom               | 85.0   | 97.9   | 98.0   | 99.3   | 83.4  | 81.4  | 232           |
| Kandal                     | 6.7  | 67.6   | 90.9   | 85.7   | 4.0   | 3.2   | 413           |
| Kratie                     | 48.6   | 63.8   | 82.1   | 84.2   | 33.4  | 29.3  | 143           |
| Phnom Penh                 | 91.2   | 90.0   | 98.0   | 95.0   | 82.0  | 81.3  | 550           |
| Prey Veng                  | 93.1   | 69.8   | 97.3   | 95.4   | 67.6  | 66.6  | 342           |
| Pursat                     | 80.9   | 80.1   | 96.0   | 91.9   | 61.7  | 54.6  | 184           |
| Siem Reap                  | 63.7   | 55.8   | 91.8   | 85.6   | 38.4  | 27.9  | 337           |
| Svay Rieng                 | 64.2   | 61.0   | 89.0   | 88.7   | 47.7  | 45.2  | 183           |
| Takeo                      | 72.2   | 76.0   | 92.1   | 90.3   | 57.2  | 54.6  | 334           |
| Otdar Meanchey             | 3.5  | 80.3   | 95.6   | 96.2   | 3.2   | 2.5   | 99            |
| Battambang/Pailin          | 73.7   | 88.5   | 99.3   | 96.7   | 67.3  | 66.4  | 405           |
| Kampot/Kep                 | 50.4   | 84.7   | 94.2   | 96.2   | 44.4  | 39.6  | 241           |
| Preah Sihanouk/Koh Kong    | 76.3   | 82.8   | 98.3   | 96.1   | 64.3  | 63.2  | 120           |
| Preah Vihear/Stung Treng   | 22.7   | 70.2   | 74.4   | 73.1   | 18.6  | 18.3  | 112           |
| Mondul Kiri/Ratanak Kiri   | 47.4   | 58.1   | 73.5   | 71.1   | 39.7  | 38.0  | 134           |
| <b>Education</b>           |  |  |  |  |   |   |               |
| No education               | 50.4   | 40.9   | 74.8   | 75.5   | 24.2  | 21.9  | 324           |
| Primary                    | 58.9   | 62.4   | 88.8   | 85.2   | 39.3  | 36.7  | 2,167         |
| Secondary and higher       | 73.4   | 85.3   | 97.6   | 95.3   | 63.7  | 61.0  | 2,699         |
| <b>Wealth quintile</b>     |  |  |  |  |   |   |               |
| Lowest                     | 53.0   | 56.8   | 84.2   | 81.3   | 33.7  | 30.4  | 901           |
| Second                     | 63.5   | 66.8   | 90.3   | 86.2   | 45.7  | 42.4  | 954           |
| Middle                     | 64.5   | 70.8   | 93.9   | 89.7   | 47.4  | 45.6  | 1,040         |
| Fourth                     | 67.4   | 77.3   | 94.4   | 93.6   | 53.6  | 50.5  | 1,124         |
| Highest                    | 77.8   | 88.2   | 97.7   | 95.8   | 69.4  | 67.6  | 1,171         |
| Total                      | 65.9   | 73.0   | 92.5   | 89.8   | 51.0  | 48.4  | 5,190         |

<sup>1</sup> Two most common local misconceptions: the AIDS virus can be transmitted by mosquito bites and a person can become infected by sharing food with a person who has AIDS.

<sup>2</sup> Comprehensive knowledge means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting the AIDS virus, knowing that a healthy-looking person can have the AIDS virus, and rejecting the two most common local misconceptions about AIDS transmission or prevention.

Tables 18.3.1 and 18.3.2 also provide an assessment of the level of comprehensive knowledge of HIV/AIDS prevention and transmission. People are considered to have comprehensive knowledge about AIDS when they know that both condom use and limiting sex partners to one uninfected person are HIV/AIDS prevention methods, they are aware that a healthy-looking person can have HIV, and they reject the two most common local misconceptions. In Cambodia, 39 percent of women and 48 percent of men have comprehensive knowledge of HIV/AIDS prevention and transmission, very close to the figures reported in 2010 (41 percent and 44 percent, respectively).

Tables 18.3.1 and 18.3.2 show that there is considerable variation in HIV/AIDS knowledge by background characteristics. Sexually active, never-married respondents tend to be slightly more knowledgeable than those in other marital status categories. For all indicators, the proportion of women and men with correct knowledge about HIV/AIDS prevention and transmission is much higher in urban than rural areas and among women and men with higher levels of schooling. Similarly, men and women in the higher wealth quintiles are more likely than those in the lower quintiles to have comprehensive knowledge about HIV/AIDS. Variations in knowledge levels by province are marked among both women and men, with the highest levels of comprehensive knowledge about AIDS observed among women and men from Kampong Thom (59 percent and 81 percent, respectively) and Phnom Penh (71 percent and 81 percent, respectively).

#### **18.1.4 Knowledge of Mother-to-Child Transmission**

Educating people about the ways in which HIV can be transmitted from mother to child during pregnancy, delivery, and breastfeeding is critical to reducing mother-to-child transmission (MTCT) of HIV. To obtain information on these issues, respondents were asked whether the virus that causes AIDS can be transmitted from a mother to a child during pregnancy, delivery, or breastfeeding and whether a mother who is infected with HIV can reduce the risk of transmission of the virus to the baby by taking certain drugs (antiretrovirals) during pregnancy (see Table 18.4).

Although 86 percent of women and 84 percent of men know that HIV can be transmitted by breastfeeding, only 62 percent of women and 54 percent of men know that the risk of MTCT can be reduced through the use of certain drugs during pregnancy. Sixty percent of women and 51 percent of men are aware of both aspects of MTCT. This represents an increase from the figures reported in the 2010 CDHS.

MTCT knowledge is slightly higher among women and men age 25-29 and those who are currently in a union. There is considerable variation by education and wealth among both women and men, with MTCT knowledge increasing as education and wealth increase. Among women, MTCT knowledge does not differ markedly by pregnancy status or by urban-rural residence. However, male urban residents have higher levels of knowledge about mother-to-child transmission than their rural counterparts. Most respondents know that HIV can be transmitted by breastfeeding; lack of knowledge about antiretrovirals accounts for most of the variation by background characteristics. More than 4 of 5 women living in Kampong Thom and Prey Veng have comprehensive knowledge of MTCT. Kampong Thom also has the highest percentage of men with comprehensive MTCT knowledge (91 percent).

Particularly notable is the comparatively low level of knowledge among pregnant women; just 3 in 5 pregnant women are aware that HIV can be transmitted from mother to child during breastfeeding and that mother-to-child transmission can be reduced by taking certain drugs during pregnancy. This indicates incomplete coverage of MTCT counseling during prenatal care visits in Cambodia.



Table 18.4 Knowledge of prevention of mother-to-child transmission of HIV

Percentage of women and men age 15-49 who know that HIV can be transmitted from mother to child by breastfeeding and that the risk of mother-to-child transmission (MTCT) of HIV can be reduced by the mother taking special drugs during pregnancy, by background characteristics, Cambodia 2014

| Background characteristic  | Women                                   |   |   |                 | Men                                     |   |   |               |
|----------------------------|---|---|---|-----------------|---|---|---|---------------|
|                            | HIV can be transmitted by breastfeeding | Risk of MTCT can be reduced by mother taking special drugs during pregnancy | HIV can be transmitted by breastfeeding and risk of MTCT can be reduced by mother taking special drugs during pregnancy | Number of women | HIV can be transmitted by breastfeeding | Risk of MTCT can be reduced by mother taking special drugs during pregnancy | HIV can be transmitted by breastfeeding and risk of MTCT can be reduced by mother taking special drugs during pregnancy | Number of men |
| <b>Age</b>                 |   |   |   |                 |   |   |   |               |
| 15-24                      | 83.3                                    | 56.9  | 53.5  | 5,910           | 80.2                                    | 51.7  | 47.9  | 1,760         |
| 15-19                      | 81.0                                    | 51.1  | 47.4  | 2,893           | 78.0                                    | 48.8  | 45.7  | 926           |
| 20-24                      | 85.5                                    | 62.5  | 59.3  | 3,017           | 82.7                                    | 55.0  | 50.5  | 835           |
| 25-29                      | 87.0                                    | 67.1  | 64.1  | 2,836           | 84.1                                    | 58.3  | 54.1  | 815           |
| 30-39                      | 88.2                                    | 65.7  | 63.4  | 4,886           | 86.4                                    | 55.2  | 51.8  | 1,463         |
| 40-49                      | 86.2                                    | 63.2  | 60.6  | 3,947           | 86.3                                    | 54.4  | 51.6  | 1,152         |
| <b>Marital status</b>      |   |   |   |                 |   |   |   |               |
| Never married              | 81.5                                    | 54.5  | 50.5  | 4,428           | 81.4                                    | 52.2  | 48.5  | 1,663         |
| Ever had sex               | 82.2                                    | 56.3  | 50.6  | 56              | 84.3                                    | 52.5  | 47.4  | 303           |
| Never had sex              | 81.5                                    | 54.5  | 50.5  | 4,372           | 80.7                                    | 52.1  | 48.7  | 1,360         |
| Married/living together    | 87.6                                    | 65.4  | 62.9  | 11,898          | 85.3                                    | 55.6  | 52.2  | 3,405         |
| Divorced/separated/widowed | 85.3                                    | 61.6  | 59.7  | 1,252           | 79.0                                    | 49.7  | 44.2  | 122           |
| <b>Currently pregnant</b>  |   |   |   |                 |   |   |   |               |
| Pregnant                   | 85.3                                    | 63.9  | 60.4  | 934             | na                                      | na  | na  | na            |
| Not pregnant or not sure   | 86.0                                    | 62.3  | 59.5  | 16,644          | na                                      | na  | na  | na            |
| <b>Residence</b>           |   |   |   |                 |   |   |   |               |
| Urban                      | 85.7                                    | 64.8  | 60.2  | 3,251           | 87.8                                    | 61.0  | 58.3  | 869           |
| Rural                      | 86.0                                    | 61.8  | 59.4  | 14,327          | 83.2                                    | 53.0  | 49.3  | 4,321         |
| <b>Province</b>            |   |   |   |                 |   |   |   |               |
| Banteay Meanchey           | 88.5                                    | 63.1  | 61.1  | 689             | 84.8                                    | 46.2  | 43.9  | 192           |
| Kampong Cham               | 86.0                                    | 54.9  | 52.7  | 2,021           | 82.1                                    | 62.4  | 56.3  | 663           |
| Kampong Chhnang            | 95.7                                    | 77.8  | 76.2  | 662             | 93.1                                    | 65.5  | 65.0  | 182           |
| Kampong Speu               | 90.9                                    | 58.9  | 56.4  | 1,196           | 77.3                                    | 29.2  | 25.1  | 323           |
| Kampong Thom               | 97.8                                    | 87.4  | 87.2  | 851             | 99.0                                    | 91.2  | 90.7  | 232           |
| Kandal                     | 84.1                                    | 63.5  | 59.8  | 1,330           | 66.3                                    | 45.6  | 40.1  | 413           |
| Kratie                     | 93.8                                    | 53.1  | 51.1  | 488             | 72.7                                    | 20.5  | 18.4  | 143           |
| Phnom Penh                 | 84.1                                    | 61.5  | 55.8  | 1,994           | 91.4                                    | 62.6  | 61.0  | 550           |
| Prey Veng                  | 93.1                                    | 85.3  | 84.7  | 1,188           | 91.3                                    | 61.9  | 58.4  | 342           |
| Pursat                     | 89.6                                    | 62.3  | 60.8  | 631             | 91.8                                    | 32.3  | 31.5  | 184           |
| Siem Reap                  | 86.9                                    | 57.5  | 53.8  | 1,137           | 74.2                                    | 47.1  | 42.7  | 337           |
| Svay Rieng                 | 91.2                                    | 70.5  | 69.0  | 654             | 83.8                                    | 24.5  | 21.6  | 183           |
| Takeo                      | 74.6                                    | 62.6  | 61.2  | 1,082           | 81.6                                    | 40.7  | 35.8  | 334           |
| Otdar Meanchey             | 76.5                                    | 50.8  | 49.0  | 294             | 97.5                                    | 74.9  | 74.1  | 99            |
| Battambang/Pailin          | 81.6                                    | 55.6  | 49.8  | 1,333           | 89.4                                    | 64.8  | 61.7  | 405           |
| Kampot/Kep                 | 87.7                                    | 65.4  | 61.7  | 770             | 93.7                                    | 78.2  | 76.5  | 241           |
| Preah Sihanouk/Koh Kong    | 83.2                                    | 58.7  | 55.8  | 422             | 85.3                                    | 46.8  | 42.4  | 120           |
| Preah Vihear/Stung Treng   | 71.7                                    | 33.6  | 30.9  | 462             | 62.7                                    | 67.4  | 52.7  | 112           |
| Mondul Kiri/Ratanak Kiri   | 57.1                                    | 35.3  | 34.0  | 372             | 78.2                                    | 47.3  | 47.3  | 134           |
| <b>Education</b>           |   |   |   |                 |   |   |   |               |
| No education               | 80.6                                    | 53.8  | 52.8  | 2,250           | 79.2                                    | 46.4  | 45.0  | 324           |
| Primary                    | 87.0                                    | 62.1  | 59.9  | 8,281           | 80.9                                    | 49.9  | 46.5  | 2,167         |
| Secondary and higher       | 86.3                                    | 65.4  | 61.3  | 7,047           | 86.9                                    | 58.9  | 55.0  | 2,699         |
| <b>Wealth quintile</b>     |   |   |   |                 |   |   |   |               |
| Lowest                     | 85.4                                    | 56.1  | 54.5  | 3,143           | 79.1                                    | 47.1  | 43.9  | 901           |
| Second                     | 85.1                                    | 61.2  | 59.2  | 3,314           | 85.2                                    | 50.1  | 48.4  | 954           |
| Middle                     | 86.7                                    | 61.8  | 59.5  | 3,381           | 86.5                                    | 54.1  | 49.8  | 1,040         |
| Fourth                     | 86.6                                    | 64.8  | 61.6  | 3,612           | 79.9                                    | 55.2  | 49.8  | 1,124         |
| Highest                    | 85.8                                    | 66.6  | 61.9  | 4,128           | 88.2                                    | 62.8  | 60.0  | 1,171         |
| Total                      | 85.9                                    | 62.4  | 59.6  | 17,578          | 83.9                                    | 54.3  | 50.8  | 5,190         |

na = Not applicable

## 18.2 STIGMA ASSOCIATED WITH AIDS AND ATTITUDES RELATED TO HIV/AIDS

Knowledge and beliefs about HIV infection affect how people treat those they know to be living with HIV or AIDS. In the 2014 CDHS, a number of questions were posed to respondents to measure their attitudes towards HIV-infected people, including questions about their willingness to buy vegetables from an infected shopkeeper, to let others know the HIV status of family members, and to take care of relatives who have the AIDS virus in their own household. They were also asked whether an HIV-positive female teacher who is not sick should be allowed to continue teaching. Tables 18.5.1 and 18.5.2 show the percentages of women and men who have heard of HIV/AIDS and who express positive attitudes towards people with HIV, by background characteristics.

**Table 18.5.1 Accepting attitudes toward those living with HIV/AIDS: Women**

Among women age 15-49 who have heard of AIDS, percentage expressing specific accepting attitudes toward people with HIV/AIDS, by background characteristics, Cambodia 2014

| Background characteristic    | Percentage of respondents who:   |   |   |   | Percentage expressing accepting attitudes on all four indicators | Number of respondents who have heard of AIDS |
|------------------------------|--|---|---|---|--|--|
|                              | Are willing to care for a family member with AIDS in the respondent's home | Would buy fresh vegetables from a shopkeeper who has the AIDS virus | Say that a female teacher who has the AIDS virus but is not sick should be allowed to continue teaching | Would not want to keep secret that a family member got infected with the AIDS virus |  |  |
| <b>Age</b>                   |  |   |   |   |  |  |
| 15-24                        | 89.1   | 76.5  | 88.7  | 40.9  | 25.8   | 5,786  |
| 15-19                        | 87.2   | 70.7  | 85.7  | 38.7  | 22.1   | 2,806  |
| 20-24                        | 90.9   | 82.0  | 91.4  | 42.9  | 29.4   | 2,979  |
| 25-29                        | 91.0   | 88.0  | 94.3  | 44.4  | 33.0   | 2,794  |
| 30-39                        | 89.4   | 82.7  | 91.8  | 47.6  | 33.6   | 4,816  |
| 40-49                        | 86.8   | 71.5  | 85.8  | 51.8  | 28.5   | 3,847  |
| <b>Marital status</b>        |  |   |   |   |  |  |
| Never married                | 88.9   | 77.3  | 89.7  | 39.1  | 24.9   | 4,328  |
| Ever had sex                 | 90.0   | 83.9  | 94.3  | 42.8  | 32.1   | 55   |
| Never had sex                | 88.9   | 77.2  | 89.7  | 39.1  | 24.8   | 4,273  |
| Married/living together      | 89.1   | 79.7  | 90.1  | 48.1  | 31.6   | 11,689                                       |
| Divorced/separated/widowed   | 87.8   | 77.9  | 87.5  | 46.9  | 28.8   | 1,226  |
| <b>Residence</b>             |  |   |   |   |  |  |
| Urban                        | 93.1   | 88.9  | 95.0  | 37.4  | 29.8   | 3,238  |
| Rural                        | 88.0   | 76.7  | 88.6  | 47.7  | 29.7   | 14,005                                       |
| <b>Province</b>              |  |   |   |   |  |  |
| Banteay Meanchey             | 72.4   | 76.8  | 82.4  | 36.7  | 16.7   | 686  |
| Kampong Cham                 | 90.6   | 72.1  | 91.3  | 54.2  | 35.3   | 1,933  |
| Kampong Chhnang              | 88.6   | 95.1  | 98.3  | 36.4  | 26.7   | 662  |
| Kampong Speu                 | 95.2   | 80.0  | 92.2  | 44.2  | 32.5   | 1,194  |
| Kampong Thom                 | 98.8   | 83.6  | 93.9  | 31.3  | 20.1   | 851  |
| Kandal                       | 92.5   | 74.2  | 89.7  | 50.4  | 35.9   | 1,317  |
| Kratie                       | 82.9   | 62.2  | 76.3  | 51.8  | 27.4   | 485  |
| Phnom Penh                   | 94.4   | 89.0  | 95.1  | 32.4  | 26.7   | 1,992  |
| Prey Veng                    | 64.0   | 82.2  | 93.6  | 67.6  | 27.7   | 1,184  |
| Pursat                       | 89.6   | 86.8  | 92.5  | 30.5  | 20.1   | 629  |
| Siem Reap                    | 80.1   | 68.6  | 87.0  | 61.4  | 32.3   | 1,110  |
| Svay Rieng                   | 97.6   | 69.0  | 88.1  | 26.7  | 13.2   | 651  |
| Takeo                        | 93.1   | 86.7  | 90.4  | 38.8  | 30.8   | 1,070  |
| Otdar Meanchey               | 90.2   | 69.5  | 77.0  | 29.8  | 13.3   | 262  |
| Battambang/Pailin            | 97.8   | 86.5  | 93.0  | 57.2  | 48.0   | 1,323  |
| Kampot/Kep                   | 86.5   | 77.1  | 87.1  | 66.1  | 46.8   | 768  |
| Preah Sihanouk/<br>Koh Kong  | 96.5   | 91.7  | 96.0  | 38.9  | 33.0   | 419  |
| Preah Vihear/<br>Stung Treng | 77.2   | 41.1  | 56.7  | 45.1  | 11.6   | 428  |
| Mondul Kiri/<br>Ratanak Kiri | 92.9   | 77.9  | 76.8  | 12.8  | 5.6  | 278  |
| <b>Education</b>             |  |   |   |   |  |  |
| No education                 | 84.4   | 64.6  | 80.5  | 48.1  | 23.6   | 2,108  |
| Primary                      | 88.2   | 76.0  | 87.8  | 48.1  | 29.4   | 8,122  |
| Secondary and higher         | 91.3   | 86.9  | 94.9  | 42.4  | 32.0   | 7,013  |
| <b>Wealth quintile</b>       |  |   |   |   |  |  |
| Lowest                       | 85.2   | 66.0  | 82.3  | 46.6  | 22.4   | 3,010  |
| Second                       | 86.7   | 73.9  | 87.9  | 47.0  | 27.5   | 3,202  |
| Middle                       | 88.0   | 78.3  | 89.9  | 49.7  | 31.9   | 3,334  |
| Fourth                       | 90.8   | 83.2  | 92.3  | 47.9  | 34.2   | 3,585  |
| Highest                      | 92.8   | 89.4  | 94.5  | 39.1  | 31.2   | 4,112  |
| <b>Total</b>                 | 89.0   | 79.0  | 89.8  | 45.8  | 29.8   | 17,243                                       |

The large majority of women and men age 15-49 (90 percent each) say that an HIV-positive female teacher should be allowed to continue teaching. Comparatively fewer (79 percent of women and 82 percent of men) would buy fresh food from a shopkeeper with the AIDS virus. Although 89 percent of women and 95 percent of men say they would be willing to care for a family member with the AIDS virus in their home, only 46 percent of women and 49 percent of men would not want to keep secret that a family member has HIV. Overall, 3 in 10 women (30 percent) and nearly 4 in 10 men (37 percent) express accepting attitudes on all four indicators, approximately the same figures reported in 2010 (34 percent of women and 35 percent of men).

**Table 18.5.2 Accepting attitudes toward those living with HIV/AIDS: Men**

Among men age 15-49 who have heard of HIV/AIDS, percentage expressing specific accepting attitudes toward people with HIV/AIDS, by background characteristics, Cambodia 2014

| Background characteristic  | Percentage of respondents who:   |   |   |   | Percentage expressing accepting attitudes on all four indicators | Number of respondents who have heard of AIDS |
|----------------------------|--|---|---|---|--|--|
|                            | Are willing to care for a family member with AIDS in the respondent's home | Would buy fresh vegetables from a shopkeeper who has the AIDS virus | Say that a female teacher who has the AIDS virus but is not sick should be allowed to continue teaching | Would not want to keep secret that a family member got infected with the AIDS virus |  |  |
| <b>Age</b>                 |  |   |   |   |  |  |
| 15-24                      | 94.6   | 78.1  | 88.9  | 40.6  | 28.9   | 1,703  |
| 15-19                      | 92.4   | 73.8  | 86.6  | 42.0  | 27.3   | 881  |
| 20-24                      | 96.9   | 82.7  | 91.2  | 39.2  | 30.7   | 822  |
| 25-29                      | 95.4   | 90.3  | 94.2  | 46.0  | 39.2   | 806  |
| 30-39                      | 94.8   | 86.0  | 92.2  | 54.6  | 44.4   | 1,444  |
| 40-49                      | 94.4   | 76.4  | 87.7  | 56.1  | 38.5   | 1,138  |
| <b>Marital status</b>      |  |   |   |   |  |  |
| Never married              | 94.6   | 80.0  | 90.1  | 40.8  | 30.9   | 1,610  |
| Ever had sex               | 94.8   | 88.9  | 93.1  | 39.7  | 33.2   | 302  |
| Never had sex              | 94.5   | 78.0  | 89.3  | 41.1  | 30.3   | 1,309  |
| Married/living together    | 94.8   | 82.8  | 90.5  | 52.6  | 40.0   | 3,360  |
| Divorced/separated/widowed | 94.2   | 81.9  | 90.4  | 53.5  | 37.4   | 121  |
| <b>Residence</b>           |  |   |   |   |  |  |
| Urban                      | 95.3   | 93.0  | 94.5  | 42.1  | 34.9   | 864  |
| Rural                      | 94.6   | 79.6  | 89.6  | 50.3  | 37.5   | 4,227  |
| <b>Province</b>            |  |   |   |   |  |  |
| Banteay Meanchey           | 88.6   | 77.0  | 88.1  | 39.3  | 29.4   | 192  |
| Kampong Cham               | 97.8   | 65.9  | 93.2  | 51.1  | 32.2   | 649  |
| Kampong Chhnang            | 100.0  | 81.6  | 84.9  | 56.0  | 45.9   | 182  |
| Kampong Speu               | 94.4   | 73.2  | 83.8  | 52.2  | 35.9   | 322  |
| Kampong Thom               | 99.4   | 98.4  | 99.8  | 61.3  | 59.5   | 232  |
| Kandal                     | 80.0   | 84.4  | 85.6  | 51.9  | 31.9   | 400  |
| Kratie                     | 86.7   | 51.2  | 71.3  | 35.6  | 10.5   | 139  |
| Phnom Penh                 | 96.1   | 95.3  | 96.1  | 37.6  | 32.0   | 548  |
| Prey Veng                  | 99.4   | 76.4  | 86.9  | 44.9  | 36.1   | 337  |
| Pursat                     | 97.5   | 85.5  | 93.1  | 48.7  | 38.8   | 183  |
| Siem Reap                  | 87.6   | 85.0  | 89.6  | 61.3  | 40.6   | 331  |
| Svay Rieng                 | 98.5   | 71.4  | 76.6  | 44.4  | 33.3   | 183  |
| Takeo                      | 98.5   | 88.5  | 87.9  | 38.5  | 32.5   | 327  |
| Otdar Meanchey             | 100.0  | 88.4  | 95.4  | 48.4  | 40.0   | 99   |
| Battambang/Pailin          | 94.8   | 94.8  | 100.0   | 71.0  | 65.7   | 403  |
| Kampot/Kep                 | 97.9   | 81.3  | 94.0  | 43.2  | 31.9   | 235  |
| Preah Sihanouk/Koh Kong    | 95.4   | 90.5  | 91.8  | 38.4  | 31.5   | 120  |
| Preah Vihear/Stung Treng   | 94.4   | 86.3  | 86.0  | 67.6  | 52.8   | 93   |
| Mondul Kiri/Ratanak Kiri   | 100.0  | 73.5  | 92.8  | 9.3   | 5.9  | 114  |
| <b>Education</b>           |  |   |   |   |  |  |
| No education               | 90.1   | 65.9  | 80.0  | 51.1  | 27.0   | 300  |
| Primary                    | 93.9   | 76.2  | 87.3  | 49.3  | 34.5   | 2,104  |
| Secondary and higher       | 95.9   | 88.1  | 93.9  | 48.4  | 40.2   | 2,687  |
| <b>Wealth quintile</b>     |  |   |   |   |  |  |
| Lowest                     | 94.2   | 69.5  | 84.8  | 49.3  | 30.4   | 844  |
| Second                     | 95.5   | 80.7  | 89.4  | 51.5  | 38.8   | 932  |
| Middle                     | 94.5   | 76.7  | 89.5  | 48.6  | 35.7   | 1,029  |
| Fourth                     | 93.7   | 84.0  | 91.5  | 51.5  | 40.3   | 1,118  |
| Highest                    | 95.7   | 94.3  | 94.9  | 44.4  | 38.6   | 1,168  |
| <b>Total</b>               | 94.7   | 81.9  | 90.4  | 48.9  | 37.1   | 5,091  |

In general, urban residents are more willing to buy fresh vegetables from a shopkeeper who has the AIDS virus than their rural counterparts. However, they are less likely to say that they would not want to keep secret that a family member is HIV positive. Overall, better educated respondents are more likely to express accepting attitudes on all four measures. There is no significant variation in accepting attitudes on all four measures by urban-rural residence, and there is no linear relationship with wealth.

Tables 18.5.1 and 18.5.2 document considerable variation in accepting attitudes by province. Forty-eight percent of women in Battambang/Pailin and 47 percent in Kampot/Kep express accepting attitudes on all four measures, as compared with only 6 percent in Mondul Kiri/Ratanak Kiri. Among men, 66 percent in Battambang/Pailin and 60 percent in Kampong Thom express accepting attitudes on all four measures, compared with only 6 percent in Mondul Kiri/Ratanak Kiri.

### **18.3 ATTITUDES TOWARDS NEGOTIATING SAFER SEX**

Knowledge about HIV transmission and ways to prevent it is useless if people feel powerless to negotiate safer sex practices with their partners. To gauge attitudes towards safer sex, respondents in the 2014 CDHS were asked whether they think a woman is justified in refusing to have sex with her husband if she knows he has sex with other women. They were also asked whether they think that a woman is justified in asking her husband to use a condom if she knows that he has a sexually transmitted infection (STI). The results from these questions are shown in Table 18.6.

Seventy-two percent of women and 70 percent of men believe that a woman is justified in refusing to have sex with her husband if she knows he has sex with other women, and 95 percent of women and 98 percent of men believe that a woman is justified in asking her husband to use a condom if he has an STI.

Although a large majority of respondents in all groups support a woman's right to refuse to have sex with her husband if she knows he has sex with other women, some differences by background characteristics stand out. For example, among both women and men, the percentage who agree with a woman's right to refuse to have sex with her husband is lower in urban areas than in rural areas; this percentage is also lower among those with a secondary education or higher than among those with a primary education or less. The percentage of women who support a woman's right to refuse to have sex with her husband if she knows he has sex with other women ranges from a low of 52 percent in Preah Sihanouk/Koh Kong to a high of 90 percent in Prey Veng. Among men, support for a woman's right to refuse sex when her husband has sex with other women is lowest in Preah Vihear/Stung Treng (6 percent) and highest in Mondul Kiri/Ratanak Kiri (97 percent).

There are only small differences by background characteristics in support for a woman's right to propose using a condom if she knows that her husband has an STI. For example, the percentage of women and men supporting this is somewhat lower in the 15-19 age group than in the other age groups. Also, the higher a respondent's educational attainment and wealth quintile, the more likely he or she is to say that a woman can propose using a condom.

Table 18.6 Attitudes toward negotiating safer sexual relations with husband

Percentage of women and men age 15-49 who believe that a woman is justified in refusing to have sexual intercourse with her husband if she knows that he has sexual intercourse with other women, and percentage who believe that a woman is justified in asking that they use a condom if she knows that her husband has a sexually transmitted infection (STI), by background characteristics, Cambodia 2014

| Background characteristic      | Women   |  |                 | Men   |  |               |
|--------------------------------|---|--|-----------------|---|--|---------------|
|                                | Refusing to have sexual intercourse with her husband if she knows he has sex with other women | Asking that they use a condom if she knows that her husband has an STI | Number of women | Refusing to have sexual intercourse with her husband if she knows he has sex with other women | Asking that they use a condom if she knows that her husband has an STI | Number of men |
| <b>Age</b>                     |   |  |                 |   |  |               |
| 15-24                          | 68.2  | 91.3   | 5,910           | 68.2  | 96.1   | 1,760         |
| 15-19                          | 65.7  | 86.3   | 2,893           | 69.6  | 94.5   | 926           |
| 20-24                          | 70.7  | 96.1   | 3,017           | 66.7  | 97.8   | 835           |
| 25-29                          | 73.6  | 96.9   | 2,836           | 68.5  | 98.1   | 815           |
| 30-39                          | 75.8  | 97.0   | 4,886           | 72.0  | 98.6   | 1,463         |
| 40-49                          | 73.6  | 94.5   | 3,947           | 71.0  | 98.5   | 1,152         |
| <b>Marital status</b>          |   |  |                 |   |  |               |
| Never married                  | 63.9  | 87.9   | 4,428           | 66.4  | 96.0   | 1,663         |
| Ever had sex                   | 65.2  | 92.2   | 56              | 55.0  | 98.4   | 303           |
| Never had sex                  | 63.9  | 87.9   | 4,372           | 69.0  | 95.5   | 1,360         |
| Married/living together        | 75.2  | 97.1   | 11,898          | 71.8  | 98.5   | 3,405         |
| Divorced/separated/<br>widowed | 75.9  | 93.6   | 1,252           | 66.1  | 96.7   | 122           |
| <b>Residence</b>               |   |  |                 |   |  |               |
| Urban                          | 64.7  | 97.6   | 3,251           | 57.1  | 98.7   | 869           |
| Rural                          | 74.1  | 93.8   | 14,327          | 72.5  | 97.4   | 4,321         |
| <b>Province</b>                |   |  |                 |   |  |               |
| Banteay Meanchey               | 54.9  | 95.3   | 689             | 77.8  | 99.3   | 192           |
| Kampong Cham                   | 72.3  | 93.9   | 2,021           | 67.2  | 97.3   | 663           |
| Kampong Chhnang                | 86.8  | 99.1   | 662             | 61.6  | 99.0   | 182           |
| Kampong Speu                   | 75.8  | 93.8   | 1,196           | 66.5  | 92.8   | 323           |
| Kampong Thom                   | 79.9  | 97.1   | 851             | 93.4  | 93.0   | 232           |
| Kandal                         | 79.4  | 96.1   | 1,330           | 80.9  | 96.8   | 413           |
| Kratie                         | 76.4  | 97.0   | 488             | 56.4  | 92.0   | 143           |
| Phnom Penh                     | 61.1  | 99.0   | 1,994           | 44.0  | 99.8   | 550           |
| Prey Veng                      | 89.5  | 96.4   | 1,188           | 52.4  | 99.7   | 342           |
| Pursat                         | 72.0  | 93.7   | 631             | 83.1  | 96.8   | 184           |
| Siem Reap                      | 66.3  | 94.3   | 1,137           | 88.8  | 97.3   | 337           |
| Svay Rieng                     | 72.2  | 96.8   | 654             | 60.7  | 98.5   | 183           |
| Takeo                          | 68.3  | 82.2   | 1,082           | 76.0  | 97.7   | 334           |
| Otdar Meanchey                 | 78.4  | 83.2   | 294             | 88.3  | 99.4   | 99            |
| Battambang/Pailin              | 71.1  | 97.3   | 1,333           | 91.6  | 100.0  | 405           |
| Kampot/Kep                     | 81.4  | 97.1   | 770             | 60.4  | 99.6   | 241           |
| Preah Sihanouk/<br>Koh Kong    | 52.1  | 92.7   | 422             | 81.2  | 99.2   | 120           |
| Preah Vihear/<br>Stung Treng   | 74.0  | 88.2   | 462             | 5.7   | 96.2   | 112           |
| Mondul Kiri/<br>Ratanak Kiri   | 61.5  | 82.8   | 372             | 96.7  | 98.1   | 134           |
| <b>Education</b>               |   |  |                 |   |  |               |
| No education                   | 72.2  | 90.3   | 2,250           | 73.4  | 95.6   | 324           |
| Primary                        | 74.4  | 95.0   | 8,281           | 73.8  | 96.8   | 2,167         |
| Secondary and higher           | 70.1  | 95.3   | 7,047           | 66.4  | 98.5   | 2,699         |
| <b>Wealth quintile</b>         |   |  |                 |   |  |               |
| Lowest                         | 75.1  | 91.5   | 3,143           | 69.4  | 94.3   | 901           |
| Second                         | 76.2  | 93.4   | 3,314           | 72.8  | 97.0   | 954           |
| Middle                         | 73.6  | 94.0   | 3,381           | 72.9  | 98.1   | 1,040         |
| Fourth                         | 72.6  | 95.0   | 3,612           | 74.4  | 98.8   | 1,124         |
| Highest                        | 66.1  | 97.7   | 4,128           | 61.2  | 99.2   | 1,171         |
| Total                          | 72.4  | 94.5   | 17,578          | 69.9  | 97.6   | 5,190         |

## 18.4 MULTIPLE SEXUAL PARTNERSHIPS

Given that most HIV infections in Cambodia are contracted through heterosexual contact, information on sexual behavior is important when designing and monitoring intervention programs to control the spread of the epidemic. In the context of HIV/AIDS prevention, limiting the number of sexual partners and encouraging protected sex are crucial to combating the epidemic. The 2014 CDHS included questions on respondents' lifetime sexual partners as well as the partners respondents had in the 12 months preceding the survey. Male respondents were also asked whether they had paid for sex in the 12 months preceding the interview. Information on use of condoms during the last sexual encounter with each of these types of partners was collected from both women and men. Given that questions about sexual activity are

sensitive, it is important to remember that respondents' answers are likely subject to at least some reporting bias when interpreting the results in this section.

Tables 18.7.1 and 18.7.2 show the percentages of women and men age 15-49 who had engaged in sexual intercourse with more than one partner in the past 12 months along with their mean number of lifetime sexual partners. Table 18.7.2 also shows the percentage of men who used a condom during their most recent intercourse (among those with more than one partner in the past 12 months). Because the number of women reporting more than one partner in the past 12 months is very small, condom use among these women is not presented.

**Table 18.7.1 Multiple sexual partners: Women**

Among all women age 15-49, the percentage who had sexual intercourse with more than one sexual partner in the past 12 months and the mean number of sexual partners during their lifetime for women who ever had sexual intercourse, by background characteristics, Cambodia 2014

| Background characteristic  | Among all women:                                     |                 | Among women who ever had sexual intercourse <sup>1</sup> : |                 |
|----------------------------|--|-----------------|--|-----------------|
|                            | Percentage who had 2+ partners in the past 12 months | Number of women | Mean number of sexual partners in lifetime                 | Number of women |
| <b>Age</b>                 |  |                 |  |                 |
| 15-24                      | 0.1  | 5,910           | 1.2  | 2,443           |
| 15-19                      | 0.0  | 2,893           | 1.0  | 490             |
| 20-24                      | 0.3  | 3,017           | 1.2  | 1,953           |
| 25-29                      | 0.1  | 2,836           | 1.1  | 2,411           |
| 30-39                      | 0.0  | 4,886           | 1.1  | 4,561           |
| 40-49                      | 0.0  | 3,947           | 1.2  | 3,762           |
| <b>Marital status</b>      |  |                 |  |                 |
| Never married              | 0.0  | 4,428           | 1.4  | 48              |
| Married/living together    | 0.0  | 11,898          | 1.1  | 11,883          |
| Divorced/separated/widowed | 0.4  | 1,252           | 1.4  | 1,246           |
| <b>Residence</b>           |  |                 |  |                 |
| Urban                      | 0.2  | 3,251           | 1.3  | 2,095           |
| Rural                      | 0.0  | 14,327          | 1.1  | 11,082          |
| <b>Province</b>            |  |                 |  |                 |
| Banteay Meanchey           | 0.0  | 689             | 1.1  | 541             |
| Kampong Cham               | 0.0  | 2,021           | 1.1  | 1,624           |
| Kampong Chhnang            | 0.0  | 662             | 1.1  | 453             |
| Kampong Speu               | 0.2  | 1,196           | 1.1  | 933             |
| Kampong Thom               | 0.2  | 851             | 1.1  | 638             |
| Kandal                     | 0.0  | 1,330           | 1.1  | 987             |
| Kratie                     | 0.0  | 488             | 1.1  | 383             |
| Phnom Penh                 | 0.3  | 1,994           | 1.5  | 1,248           |
| Prey Veng                  | 0.0  | 1,188           | 1.1  | 995             |
| Pursat                     | 0.0  | 631             | 1.1  | 454             |
| Siem Reap                  | 0.0  | 1,137           | 1.1  | 858             |
| Svay Rieng                 | 0.0  | 654             | 1.1  | 525             |
| Takeo                      | 0.0  | 1,082           | 1.2  | 781             |
| Otdar Meanchey             | 0.0  | 294             | 1.1  | 229             |
| Battambang/Pailin          | 0.0  | 1,333           | 1.1  | 960             |
| Kampot/Kep                 | 0.0  | 770             | 1.1  | 616             |
| Preah Sihanouk/Koh Kong    | 0.1  | 422             | 1.1  | 293             |
| Preah Vihear/Stung Treng   | 0.0  | 462             | 1.1  | 354             |
| Mondul Kiri/Ratanak Kiri   | 0.1  | 372             | 1.1  | 306             |
| <b>Education</b>           |  |                 |  |                 |
| No education               | 0.1  | 2,250           | 1.2  | 2,034           |
| Primary                    | 0.1  | 8,281           | 1.2  | 7,032           |
| Secondary and higher       | 0.0  | 7,047           | 1.1  | 4,111           |
| <b>Wealth quintile</b>     |  |                 |  |                 |
| Lowest                     | 0.0  | 3,143           | 1.1  | 2,555           |
| Second                     | 0.0  | 3,314           | 1.1  | 2,620           |
| Middle                     | 0.0  | 3,381           | 1.1  | 2,601           |
| Fourth                     | 0.0  | 3,612           | 1.1  | 2,645           |
| Highest                    | 0.2  | 4,128           | 1.3  | 2,756           |
| <b>Total</b>               | <b>0.1</b>   | <b>17,578</b>   | <b>1.1</b>   | <b>13,177</b>   |

<sup>1</sup> Means are calculated excluding respondents who gave non-numeric responses.

The data show that almost no women and less than 3 percent of men reportedly had two or more sexual partners during the 12 months preceding the survey. Among men, the proportion with multiple sexual partners increases as age increases, from less than 1 percent among those age 15-19 to 4 percent among those age 40-49. Men who are married and divorced, separated, or widowed and those living in urban areas and in households in the highest wealth quintiles are more likely than other respondents to have had multiple partners over the past year. There is no clear association between educational level and having multiple partners over the past year. The percentage of men who report having had two or more sexual partners in the past 12 months varies according to province. One in 10 men in Kratie and Phnom Penh reported having had multiple partners over the past year.

Among men with two or more partners in the past 12 months, 30 percent report having used a condom during their last encounter. Condom use is more pronounced among urban than rural men (48 percent and 16 percent, respectively).

On average, men report having 3.5 lifetime sexual partners, more than three times the average reported by women (1.1 partners). Among women, there is almost no variation according to background characteristics. Never-married men report 4.7 lifetime sexual partners, as compared with 3.4 among currently married men and 2.8 among formerly married men. The number of sexual partners is also higher among urban than rural men (8.0 versus 2.7). More educated and well-off men report a higher number of sexual partners. Men with no schooling report an average of 1.4 partners, as compared with 4.8 partners among men with a secondary education or higher, and the average number of lifetime partners ranges from 1.9 among men in the lowest wealth quintile to 7.0 in the highest quintile.



Table 18.7.2 Multiple sexual partners: Men

Among all men age 15-49, the percentage who had sexual intercourse with more than one sexual partner in the past 12 months; among those having more than one partner in the past 12 months, the percentage reporting that a condom was used at last intercourse; and the mean number of sexual partners during their lifetime for men who ever had sexual intercourse, by background characteristics, Cambodia 2014

| Background characteristic  | All men  |               | Among men who had 2+ partners in the past 12 months:                  |               | Among men who ever had sexual intercourse <sup>1</sup> : |               |
|----------------------------|--|---------------|---|---------------|--|---------------|
|                            | Percentage who had 2+ partners in the past 12 months | Number of men | Percentage who reported using a condom during last sexual intercourse | Number of men | Mean number of sexual partners in lifetime               | Number of men |
| <b>Age</b>                 |  |               |   |               |  |               |
| 15-24                      | 1.1  | 1,760         | (46.2)  | 19            | 2.1  | 524           |
| 15-19                      | 0.2  | 926           | *   | 2             | 1.4  | 69            |
| 20-24                      | 2.1  | 835           | (43.4)  | 18            | 2.2  | 455           |
| 25-29                      | 2.9  | 815           | *   | 24            | 3.0  | 715           |
| 30-39                      | 3.2  | 1,463         | (28.9)  | 47            | 3.6  | 1,438         |
| 40-49                      | 4.3  | 1,152         | (18.8)  | 50            | 4.4  | 1,144         |
| <b>Marital status</b>      |  |               |   |               |  |               |
| Never married              | 1.5  | 1,663         | (84.2)  | 25            | 4.7  | 302           |
| Married/living together    | 3.1  | 3,405         | 14.9  | 107           | 3.4  | 3,400         |
| Divorced/separated/widowed | 6.2  | 122           | *   | 8             | 2.8  | 120           |
| <b>Residence</b>           |  |               |   |               |  |               |
| Urban                      | 7.1  | 869           | 47.7  | 61            | 8.0  | 605           |
| Rural                      | 1.8  | 4,321         | 16.3  | 78            | 2.7  | 3,216         |
| <b>Province</b>            |  |               |   |               |  |               |
| Banteay Meanchey           | 1.9  | 192           | *   | 4             | 4.1  | 143           |
| Kampong Cham               | 2.0  | 663           | *   | 13            | 5.4  | 548           |
| Kampong Chhnang            | 3.6  | 182           | *   | 7             | 4.0  | 130           |
| Kampong Speu               | 1.5  | 323           | *   | 5             | 1.6  | 241           |
| Kampong Thom               | 0.0  | 232           | *   | 0             | 1.2  | 155           |
| Kandal                     | 1.0  | 413           | *   | 4             | 1.4  | 317           |
| Kratie                     | 10.5   | 143           | (24.7)  | 15            | 2.0  | 107           |
| Phnom Penh                 | 10.0   | 550           | (47.5)  | 55            | 9.9  | 376           |
| Prey Veng                  | 4.2  | 342           | *   | 14            | 2.6  | 263           |
| Pursat                     | 0.7  | 184           | *   | 1             | 3.2  | 121           |
| Siem Reap                  | 1.4  | 337           | *   | 5             | 1.1  | 243           |
| Svay Rieng                 | 1.6  | 183           | *   | 3             | 3.0  | 143           |
| Takeo                      | 1.3  | 334           | *   | 4             | 2.3  | 244           |
| Otdar Meanchey             | 0.0  | 99            | *   | 0             | 1.4  | 69            |
| Battambang/Pailin          | 0.2  | 405           | *   | 1             | 2.9  | 275           |
| Kampot/Kep                 | 1.7  | 241           | *   | 4             | 2.2  | 187           |
| Preah Sihanouk/Koh Kong    | 4.5  | 120           | *   | 5             | 6.9  | 90            |
| Preah Vihear/Stung Treng   | 0.0  | 112           | *   | 0             | 1.2  | 78            |
| Mondul Kiri/Ratanak Kiri   | 0.0  | 134           | *   | 0             | 1.9  | 91            |
| <b>Education</b>           |  |               |   |               |  |               |
| No education               | 2.7  | 324           | *   | 9             | 1.4  | 284           |
| Primary                    | 1.9  | 2,167         | (14.4)  | 41            | 2.5  | 1,747         |
| Secondary and higher       | 3.3  | 2,699         | 36.1  | 90            | 4.8  | 1,790         |
| <b>Wealth quintile</b>     |  |               |   |               |  |               |
| Lowest                     | 1.6  | 901           | *   | 14            | 1.9  | 663           |
| Second                     | 0.9  | 954           | *   | 9             | 2.3  | 716           |
| Middle                     | 2.0  | 1,040         | *   | 20            | 2.7  | 778           |
| Fourth                     | 2.4  | 1,124         | *   | 26            | 3.1  | 827           |
| Highest                    | 6.0  | 1,171         | 41.5  | 70            | 7.0  | 837           |
| <b>Total</b>               | <b>2.7</b>   | <b>5,190</b>  | <b>30.1</b>   | <b>140</b>    | <b>3.5</b>   | <b>3,821</b>  |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

<sup>1</sup> Means are calculated excluding respondents who gave non-numeric responses.

Male respondents in the 2014 CDHS who had had sex in the past 12 months were asked whether they had paid anyone in exchange for sex in the past 12 months or ever in their lifetime and whether any of their last three partners in the past 12 months was a commercial sex worker.

The results in Table 18.8 show that 10 percent of men have ever paid for sexual intercourse and that 3 percent had done so in the 12 months before the survey. Men age 25-29 (15 percent); men who are divorced, separated, or widowed (18 percent); men living in urban areas (14 percent); and men living in Preah Sihanouk/Koh Kong and Svay Rieng (36 percent and 22 percent, respectively) are most likely to have ever paid for sexual intercourse.



Table 18.8 Payment for sexual intercourse and condom use at last paid sexual intercourse

Percentage of men age 15-49 who ever paid for sexual intercourse and percentage reporting payment for sexual intercourse in the past 12 months, and among them, the percentage reporting that a condom was used the last time they paid for sexual intercourse, by background characteristics, Cambodia 2014

| Background characteristic  | Among all men:                                  |  |               | Among men who paid for sex in the past 12 months:               |               |
|----------------------------|---|--|---------------|---|---------------|
|                            | Percentage who ever paid for sexual intercourse | Percentage who paid for sexual intercourse in the past 12 months | Number of men | Percentage reporting condom use at last paid sexual intercourse | Number of men |
| <b>Age</b>                 |   |  |               |   |               |
| 15-24                      | 4.3   | 2.0  | 1,760         | 91.1  | 36            |
| 15-19                      | 1.7   | 1.0  | 926           | *   | 9             |
| 20-24                      | 7.1   | 3.2  | 835           | (93.6)  | 27            |
| 25-29                      | 14.9  | 3.4  | 815           | (67.8)  | 28            |
| 30-39                      | 11.8  | 3.2  | 1,463         | 90.1  | 46            |
| 40-49                      | 12.9  | 4.3  | 1,152         | 75.2  | 50            |
| <b>Marital status</b>      |   |  |               |   |               |
| Never married              | 6.4   | 2.9  | 1,663         | 93.4  | 49            |
| Married/living together    | 11.4  | 2.8  | 3,405         | 75.5  | 94            |
| Divorced/separated/widowed | 18.1  | 12.9   | 122           | (83.4)  | 16            |
| <b>Residence</b>           |   |  |               |   |               |
| Urban                      | 14.3  | 6.6  | 869           | 84.5  | 57            |
| Rural                      | 9.1   | 2.4  | 4,321         | 80.3  | 102           |
| <b>Province</b>            |   |  |               |   |               |
| Banteay Meanchey           | 18.6  | 2.1  | 192           | *   | 4             |
| Kampong Cham               | 19.8  | 2.5  | 663           | *   | 16            |
| Kampong Chhnang            | 4.3   | 4.2  | 182           | *   | 8             |
| Kampong Speu               | 1.5   | 1.2  | 323           | *   | 4             |
| Kampong Thom               | 0.6   | 0.0  | 232           | *   | 0             |
| Kandal                     | 1.8   | 1.3  | 413           | *   | 5             |
| Kratie                     | 15.4  | 15.3   | 143           | 84.6  | 22            |
| Phnom Penh                 | 9.7   | 7.6  | 550           | (88.2)  | 42            |
| Prey Veng                  | 10.3  | 3.6  | 342           | *   | 12            |
| Pursat                     | 17.5  | 2.2  | 184           | *   | 4             |
| Siem Reap                  | 4.5   | 3.8  | 337           | *   | 13            |
| Svay Rieng                 | 21.6  | 1.8  | 183           | *   | 3             |
| Takeo                      | 17.2  | 2.9  | 334           | *   | 10            |
| Otdar Meanchey             | 2.4   | 0.0  | 99            | *   | 0             |
| Battambang/Pailin          | 2.3   | 0.4  | 405           | *   | 2             |
| Kampot/Kep                 | 2.4   | 2.4  | 241           | *   | 6             |
| Preah Sihanouk/Koh Kong    | 35.7  | 4.3  | 120           | *   | 5             |
| Preah Vihear/Stung Treng   | 1.8   | 1.8  | 112           | *   | 2             |
| Mondul Kiri/Ratanak Kiri   | 9.2   | 0.7  | 134           | *   | 1             |
| <b>Education</b>           |   |  |               |   |               |
| No education               | 4.4   | 1.9  | 324           | *   | 6             |
| Primary                    | 8.8   | 2.6  | 2,167         | 76.6  | 57            |
| Secondary and higher       | 11.6  | 3.6  | 2,699         | 83.8  | 96            |
| <b>Wealth quintile</b>     |   |  |               |   |               |
| Lowest                     | 4.3   | 2.1  | 901           | *   | 19            |
| Second                     | 7.2   | 1.8  | 954           | *   | 17            |
| Middle                     | 9.9   | 2.6  | 1,040         | *   | 27            |
| Fourth                     | 12.7  | 3.0  | 1,124         | (93.4)  | 34            |
| Highest                    | 14.1  | 5.3  | 1,171         | 79.0  | 62            |
| Total 15-54                | 10.0  | 3.1  | 5,190         | 81.8  | 159           |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Men in Kratie (15 percent) are most likely to report having engaged in paid sex in the past 12 months. Men who are divorced, separated, or widowed are more likely than those in other marital status categories to report having recently paid money for sex, with 13 percent having engaged in such a transaction in the past year. Urban men (7 percent), men with a secondary education or higher (4 percent), and the wealthiest men (5 percent) are more likely than their counterparts to report having paid for sex in the past year. Eighty-two percent of men who paid for sex in the past year reported using a condom during their most recent paid sex; due to the small number of cases, differentials between subgroups should be interpreted with caution.

## 18.5 TESTING FOR HIV

Knowledge of HIV status helps HIV-negative individuals make specific decisions to reduce risk and increase safer sex practices so they can remain disease free. For those who are HIV infected, knowledge of their status allows them to take action to protect their sexual partners, to access treatment, and to plan for the future. Testing of pregnant women is especially important so that action can be taken to prevent mother-to-child transmission.

To obtain information on the prevalence of HIV testing, all respondents were asked whether they had ever been tested for HIV. If they said that they had, they were asked whether they had received the results of their last test. Women giving birth in the two-year period before the survey were asked additional questions regarding testing that may have occurred as part of any antenatal care they received prior to the birth.

Tables 18.9.1 and 18.9.2 show that, among the adult population age 15-49, 42 percent of women and 36 percent of men have been tested for HIV at some time. These figures are substantially higher than those reported in 2010, when only 25 percent of both women and men had ever been tested. Forty-one percent of women and 35 percent of men were tested indicated that they had received the results of their test. Ten percent of women and 9 percent of men said that they been tested and received results during the 12 months prior to the survey.

The proportions of both women and men ever tested were higher among those age 20 and older than among those younger than age 20. Testing levels were highest among currently married women (54 percent), whereas levels were approximately the same among never-married men who had ever had sex (47 percent), currently married men (46 percent), and widowed, divorced, and separated men (48 percent). Unmarried women and men who had never had sex were least likely to have ever been tested for HIV (11 percent and 9 percent, respectively). Urban residents, those with a secondary education or higher, and those in the highest wealth quintile had higher testing levels than their counterparts. Women and men residing in Preah Vihear/Stung Treng and Mondul Kiri/Ratanak Kiri are least likely to have ever been tested for HIV.

Table 18.9.1 Coverage of prior HIV testing: Women

Percentage of women age 15-49 who know where to get an HIV test, percent distribution of women age 15-49 by testing status and by whether they received the results of the last test, the percentage of women ever tested, and the percentage of women age 15-49 who were tested in the past 12 months and received the results of the last test, according to background characteristics, Cambodia 2014

| Background characteristic  | Percentage who know where to get an HIV test | Percent distribution of women by testing status and by whether they received the results of the last test |                                      |                           | Total        | Percentage ever tested | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of women |
|----------------------------|--|---|--------------------------------------|---------------------------|--------------|------------------------|---|-----------------|
|                            |  | Ever tested and received results  | Ever tested, did not receive results | Never tested <sup>1</sup> |              |                        |   |                 |
| <b>Age</b>                 |  |   |                                      |                           |              |                        |   |                 |
| 15-24                      | 76.4   | 32.4  | 1.9                                  | 65.7                      | 100.0        | 34.3                   | 12.1  | 5,910           |
| 15-19                      | 67.2   | 13.6  | 1.0                                  | 85.3                      | 100.0        | 14.7                   | 6.7   | 2,893           |
| 20-24                      | 85.2   | 50.5  | 2.7                                  | 46.8                      | 100.0        | 53.2                   | 17.3  | 3,017           |
| 25-29                      | 87.7   | 63.2  | 1.9                                  | 34.9                      | 100.0        | 65.1                   | 14.8  | 2,836           |
| 30-39                      | 81.0   | 50.3  | 2.0                                  | 47.6                      | 100.0        | 52.4                   | 8.2   | 4,886           |
| 40-49                      | 70.0   | 24.0  | 0.6                                  | 75.4                      | 100.0        | 24.6                   | 3.2   | 3,947           |
| <b>Marital status</b>      |  |   |                                      |                           |              |                        |   |                 |
| Never married              | 70.2   | 10.8  | 0.8                                  | 88.4                      | 100.0        | 11.6                   | 3.8   | 4,428           |
| Ever had sex               | 81.8   | 41.8  | 0.0                                  | 58.2                      | 100.0        | 41.8                   | 24.6  | 56              |
| Never had sex              | 70.0   | 10.4  | 0.8                                  | 88.8                      | 100.0        | 11.2                   | 3.6   | 4,372           |
| Married/living together    | 81.5   | 51.6  | 2.0                                  | 46.4                      | 100.0        | 53.6                   | 11.9  | 11,898          |
| Divorced/separated/widowed | 73.7   | 39.7  | 1.0                                  | 59.3                      | 100.0        | 40.7                   | 6.6   | 1,252           |
| <b>Residence</b>           |  |   |                                      |                           |              |                        |   |                 |
| Urban                      | 90.3   | 51.4  | 1.2                                  | 47.4                      | 100.0        | 52.6                   | 12.8  | 3,251           |
| Rural                      | 75.3   | 38.0  | 1.7                                  | 60.3                      | 100.0        | 39.7                   | 8.7   | 14,327          |
| <b>Province</b>            |  |   |                                      |                           |              |                        |   |                 |
| Banteay Meanchey           | 80.0   | 44.9  | 1.0                                  | 54.1                      | 100.0        | 45.9                   | 12.1  | 689             |
| Kampong Cham               | 75.5   | 37.1  | 1.2                                  | 61.7                      | 100.0        | 38.3                   | 8.7   | 2,021           |
| Kampong Chhnang            | 99.6   | 42.6  | 1.9                                  | 55.5                      | 100.0        | 44.5                   | 13.5  | 662             |
| Kampong Speu               | 71.1   | 39.7  | 3.3                                  | 56.9                      | 100.0        | 43.1                   | 8.3   | 1,196           |
| Kampong Thom               | 78.3   | 42.3  | 0.3                                  | 57.4                      | 100.0        | 42.6                   | 8.9   | 851             |
| Kandal                     | 74.8   | 34.7  | 2.4                                  | 62.9                      | 100.0        | 37.1                   | 7.7   | 1,330           |
| Kratie                     | 61.5   | 24.1  | 1.8                                  | 74.0                      | 100.0        | 26.0                   | 3.5   | 488             |
| Phnom Penh                 | 92.3   | 51.7  | 1.1                                  | 47.1                      | 100.0        | 52.9                   | 13.6  | 1,994           |
| Prey Veng                  | 80.4   | 34.6  | 0.2                                  | 65.2                      | 100.0        | 34.8                   | 4.4   | 1,188           |
| Pursat                     | 75.3   | 43.0  | 1.2                                  | 55.8                      | 100.0        | 44.2                   | 9.4   | 631             |
| Siem Reap                  | 77.4   | 46.4  | 3.2                                  | 50.4                      | 100.0        | 49.6                   | 10.6  | 1,137           |
| Svay Rieng                 | 87.6   | 40.0  | 4.5                                  | 55.4                      | 100.0        | 44.6                   | 11.3  | 654             |
| Takeo                      | 72.3   | 41.3  | 1.6                                  | 57.1                      | 100.0        | 42.9                   | 9.2   | 1,082           |
| Otdar Meanchey             | 60.5   | 31.3  | 1.2                                  | 67.5                      | 100.0        | 32.5                   | 9.1   | 294             |
| Battambang/Pailin          | 89.7   | 54.0  | 0.8                                  | 45.2                      | 100.0        | 54.8                   | 12.0  | 1,333           |
| Kampot/Kep                 | 72.4   | 33.5  | 1.7                                  | 64.8                      | 100.0        | 35.2                   | 6.6   | 770             |
| Preah Sihanouk/Koh Kong    | 88.8   | 50.2  | 1.9                                  | 47.9                      | 100.0        | 52.1                   | 16.3  | 422             |
| Preah Vihear/Stung Treng   | 48.2   | 16.6  | 1.4                                  | 82.0                      | 100.0        | 18.0                   | 4.9   | 462             |
| Mondul Kiri/Ratanak Kiri   | 37.3   | 14.1  | 0.4                                  | 85.6                      | 100.0        | 14.4                   | 4.1   | 372             |
| <b>Education</b>           |  |   |                                      |                           |              |                        |   |                 |
| No education               | 59.1   | 29.8  | 1.6                                  | 68.6                      | 100.0        | 31.4                   | 6.3   | 2,250           |
| Primary                    | 76.8   | 40.6  | 1.8                                  | 57.5                      | 100.0        | 42.5                   | 8.5   | 8,281           |
| Secondary and higher       | 85.6   | 43.7  | 1.4                                  | 54.8                      | 100.0        | 45.2                   | 11.6  | 7,047           |
| <b>Wealth quintile</b>     |  |   |                                      |                           |              |                        |   |                 |
| Lowest                     | 65.0   | 32.9  | 1.5                                  | 65.5                      | 100.0        | 34.5                   | 7.0   | 3,143           |
| Second                     | 72.0   | 34.5  | 2.0                                  | 63.5                      | 100.0        | 36.5                   | 9.0   | 3,314           |
| Middle                     | 77.3   | 38.1  | 1.9                                  | 60.0                      | 100.0        | 40.0                   | 8.2   | 3,381           |
| Fourth                     | 80.8   | 40.6  | 1.8                                  | 57.6                      | 100.0        | 42.4                   | 9.5   | 3,612           |
| Highest                    | 91.2   | 52.9  | 1.1                                  | 46.0                      | 100.0        | 54.0                   | 12.7  | 4,128           |
| <b>Total</b>               | <b>78.1</b>                                  | <b>40.5</b>   | <b>1.6</b>                           | <b>57.9</b>               | <b>100.0</b> | <b>42.1</b>            | <b>9.5</b>  | <b>17,578</b>   |

<sup>1</sup> Includes "don't know/missing"

Table 18.9.2 Coverage of prior HIV testing: Men

Percentage of men age 15-49 who know where to get an HIV test, percent distribution of men age 15-49 by testing status and by whether they received the results of the last test, the percentage of men ever tested, and the percentage of men age 15-49 who were tested in the past 12 months and received the results of the last test, according to background characteristics, Cambodia 2014

| Background characteristic  | Percentage who know where to get an HIV test | Percent distribution of men by testing status and by whether they received the results of the last test |                                      |                           | Total        | Percentage ever tested | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of men |
|----------------------------|--|---|--------------------------------------|---------------------------|--------------|------------------------|---|---------------|
|                            |  | Ever tested and received results  | Ever tested, did not receive results | Never tested <sup>1</sup> |              |                        |   |               |
| <b>Age</b>                 |  |   |                                      |                           |              |                        |   |               |
| 15-24                      | 70.8   | 18.1  | 0.8                                  | 81.1                      | 100.0        | 18.9                   | 6.6   | 1,760         |
| 15-19                      | 62.4   | 6.7   | 0.8                                  | 92.5                      | 100.0        | 7.5                    | 2.9   | 926           |
| 20-24                      | 80.0   | 30.8  | 0.8                                  | 68.5                      | 100.0        | 31.5                   | 10.7  | 835           |
| 25-29                      | 86.7   | 56.9  | 0.4                                  | 42.6                      | 100.0        | 57.4                   | 17.3  | 815           |
| 30-39                      | 80.5   | 48.5  | 1.6                                  | 49.9                      | 100.0        | 50.1                   | 8.2   | 1,463         |
| 40-49                      | 73.1   | 29.9  | 1.0                                  | 69.1                      | 100.0        | 30.9                   | 6.4   | 1,152         |
| <b>Marital status</b>      |  |   |                                      |                           |              |                        |   |               |
| Never married              | 70.4   | 15.0  | 1.0                                  | 84.0                      | 100.0        | 16.0                   | 5.4   | 1,663         |
| Ever had sex               | 88.2   | 45.0  | 2.2                                  | 52.8                      | 100.0        | 47.2                   | 17.7  | 303           |
| Never had sex              | 66.4   | 8.4   | 0.7                                  | 90.9                      | 100.0        | 9.1                    | 2.6   | 1,360         |
| Married/living together    | 79.3   | 44.9  | 1.1                                  | 54.0                      | 100.0        | 46.0                   | 10.2  | 3,405         |
| Divorced/separated/widowed | 82.3   | 47.8  | 0.0                                  | 52.2                      | 100.0        | 47.8                   | 12.4  | 122           |
| <b>Residence</b>           |  |   |                                      |                           |              |                        |   |               |
| Urban                      | 90.8   | 52.7  | 1.0                                  | 46.3                      | 100.0        | 53.7                   | 12.4  | 869           |
| Rural                      | 73.7   | 31.9  | 1.0                                  | 67.1                      | 100.0        | 32.9                   | 7.9   | 4,321         |
| <b>Province</b>            |  |   |                                      |                           |              |                        |   |               |
| Banteay Meanchey           | 78.6   | 39.4  | 0.0                                  | 60.6                      | 100.0        | 39.4                   | 5.2   | 192           |
| Kampong Cham               | 57.9   | 31.8  | 2.1                                  | 66.1                      | 100.0        | 33.9                   | 13.0  | 663           |
| Kampong Chhnang            | 97.5   | 41.6  | 1.7                                  | 56.8                      | 100.0        | 43.2                   | 12.1  | 182           |
| Kampong Speu               | 59.5   | 33.3  | 1.5                                  | 65.2                      | 100.0        | 34.8                   | 6.8   | 323           |
| Kampong Thom               | 70.8   | 36.9  | 0.0                                  | 63.1                      | 100.0        | 36.9                   | 1.8   | 232           |
| Kandal                     | 89.8   | 36.5  | 0.3                                  | 63.2                      | 100.0        | 36.8                   | 12.3  | 413           |
| Kratie                     | 67.4   | 28.7  | 0.4                                  | 70.8                      | 100.0        | 29.2                   | 6.4   | 143           |
| Phnom Penh                 | 92.4   | 55.6  | 0.9                                  | 43.5                      | 100.0        | 56.5                   | 11.7  | 550           |
| Prey Veng                  | 80.2   | 28.8  | 0.9                                  | 70.3                      | 100.0        | 29.7                   | 9.0   | 342           |
| Pursat                     | 75.5   | 33.7  | 0.9                                  | 65.4                      | 100.0        | 34.6                   | 5.6   | 184           |
| Siem Reap                  | 85.2   | 27.4  | 1.0                                  | 71.6                      | 100.0        | 28.4                   | 5.1   | 337           |
| Svay Rieng                 | 73.3   | 38.3  | 0.0                                  | 61.7                      | 100.0        | 38.3                   | 9.7   | 183           |
| Takeo                      | 79.6   | 34.0  | 2.2                                  | 63.8                      | 100.0        | 36.2                   | 10.5  | 334           |
| Otdar Meanchey             | 58.0   | 32.0  | 0.6                                  | 67.4                      | 100.0        | 32.6                   | 5.3   | 99            |
| Battambang/Pailin          | 88.9   | 40.0  | 1.2                                  | 58.8                      | 100.0        | 41.2                   | 8.8   | 405           |
| Kampot/Kep                 | 64.0   | 22.3  | 0.0                                  | 77.7                      | 100.0        | 22.3                   | 3.3   | 241           |
| Preah Sihanouk/Koh Kong    | 84.8   | 40.7  | 2.9                                  | 56.4                      | 100.0        | 43.6                   | 13.9  | 120           |
| Preah Vihear/Stung Treng   | 71.2   | 18.8  | 0.3                                  | 80.9                      | 100.0        | 19.1                   | 1.5   | 112           |
| Mondul Kiri/Ratanak Kiri   | 55.3   | 22.0  | 0.0                                  | 78.0                      | 100.0        | 22.0                   | 2.5   | 134           |
| <b>Education</b>           |  |   |                                      |                           |              |                        |   |               |
| No education               | 53.0   | 17.1  | 0.2                                  | 82.7                      | 100.0        | 17.3                   | 3.1   | 324           |
| Primary                    | 68.4   | 29.9  | 1.1                                  | 68.9                      | 100.0        | 31.1                   | 6.9   | 2,167         |
| Secondary and higher       | 85.9   | 42.0  | 1.0                                  | 57.0                      | 100.0        | 43.0                   | 10.8  | 2,699         |
| <b>Wealth quintile</b>     |  |   |                                      |                           |              |                        |   |               |
| Lowest                     | 59.8   | 22.4  | 1.1                                  | 76.5                      | 100.0        | 23.5                   | 5.4   | 901           |
| Second                     | 68.6   | 26.4  | 1.0                                  | 72.6                      | 100.0        | 27.4                   | 4.9   | 954           |
| Middle                     | 73.2   | 29.2  | 0.6                                  | 70.2                      | 100.0        | 29.8                   | 7.2   | 1,040         |
| Fourth                     | 83.7   | 39.8  | 1.2                                  | 59.0                      | 100.0        | 41.0                   | 10.3  | 1,124         |
| Highest                    | 92.0   | 54.0  | 1.2                                  | 44.9                      | 100.0        | 55.1                   | 14.1  | 1,171         |
| <b>Total</b>               | <b>76.5</b>                                  | <b>35.4</b>   | <b>1.0</b>                           | <b>63.6</b>               | <b>100.0</b> | <b>36.4</b>            | <b>8.7</b>  | <b>5,190</b>  |

<sup>1</sup> Includes "don't know/missing"

More than three-quarters of women and men in Cambodia know where to get an HIV test. Knowledge about where to get an HIV test is more common among women and men in urban areas than rural areas. It is also higher among educated women and men and among those living in richer households.

Table 18.10 presents data on HIV/AIDS information and counseling during antenatal care. Among women who had given birth in the two years before the survey, 57 percent received information and counseling about HIV/AIDS during antenatal care for their most recent birth. Sixty-two percent of women who had given birth in the past two years reported that they were tested for HIV during antenatal care and

received the test results and post-test counseling; 8 percent were tested and received the test results but not post-test counseling; and 3 percent were tested but received neither the results nor post-test counseling. Taking these elements into account, the 2014 CDHS results indicate that 51 percent of women giving birth during the two-year period prior to the survey were counseled about HIV, were tested for HIV, and received the test results.

Table 18.10 Pregnant women counseled and tested for HIV

Among all women age 15-49 who gave birth in the two years preceding the survey, the percentage who received HIV pretest counseling, the percentage who received an HIV test during antenatal care for their most recent birth by whether they received their results and post-test counseling, and the percentage who received an HIV test during ANC or labor for their most recent birth by whether they received their test results, according to background characteristics, Cambodia 2014

| Background characteristic  | Percentage who received counseling on HIV during antenatal care <sup>1</sup> | Percentage who were tested for HIV during antenatal care and who: |   |                         | Percentage who received counseling on HIV and an HIV test during ANC, and the results | Percentage who had an HIV test during ANC or labor and who: <sup>2</sup> |                         | Number of women who gave birth in the past two years <sup>3</sup> |
|----------------------------|--|---|---|-------------------------|---|--|-------------------------|---|
|                            |  | Received results and received post-test counseling                | Received results and did not receive post-test counseling | Did not receive results |   | Received results   | Did not receive results |   |
| <b>Age</b>                 |  |   |   |                         |   |  |                         |   |
| 15-24                      | 54.1   | 60.7  | 9.7   | 3.3                     | 47.7  | 72.0   | 3.9                     | 1,099   |
| 15-19                      | 53.4   | 50.1  | 9.4   | 4.2                     | 43.0  | 61.8   | 4.2                     | 180   |
| 20-24                      | 54.3   | 62.7  | 9.7   | 3.1                     | 48.6  | 74.0   | 3.8                     | 919   |
| 25-29                      | 63.8   | 67.5  | 6.3   | 2.5                     | 57.1  | 75.9   | 2.8                     | 885   |
| 30-39                      | 54.8   | 60.7  | 7.6   | 3.3                     | 48.4  | 70.9   | 3.4                     | 879   |
| 40-49                      | 48.5   | 50.7  | 4.3   | 1.2                     | 41.6  | 56.3   | 1.7                     | 82  |
| <b>Marital status</b>      |  |   |   |                         |   |  |                         |   |
| Married/living together    | 56.7   | 62.4  | 8.0   | 3.1                     | 50.1  | 72.4   | 3.4                     | 2,831   |
| Divorced/separated/widowed | 67.0   | 63.6  | 5.1   | 0.8                     | 61.1  | 71.1   | 2.5                     | 114   |
| <b>Residence</b>           |  |   |   |                         |   |  |                         |   |
| Urban                      | 61.4   | 70.7  | 8.8   | 1.5                     | 56.3  | 83.0   | 3.3                     | 414   |
| Rural                      | 56.4   | 61.1  | 7.7   | 3.2                     | 49.6  | 70.7   | 3.3                     | 2,531   |
| <b>Province</b>            |  |   |   |                         |   |  |                         |   |
| Banteay Meanchey           | 62.7   | 62.1  | 20.7  | 4.1                     | 56.5  | 82.8   | 4.1                     | 120   |
| Kampong Cham               | 45.6   | 53.6  | 7.7   | 3.1                     | 40.8  | 64.5   | 3.1                     | 418   |
| Kampong Chhnang            | 90.8   | 93.0  | 0.0   | 0.8                     | 87.3  | 93.0   | 2.0                     | 111   |
| Kampong Speu               | 49.2   | 54.2  | 15.4  | 5.6                     | 43.7  | 73.0   | 5.8                     | 182   |
| Kampong Thom               | 89.2   | 87.4  | 0.4   | 0.0                     | 85.4  | 89.4   | 0.0                     | 141   |
| Kandal                     | 56.3   | 54.8  | 3.8   | 3.7                     | 43.5  | 60.7   | 3.7                     | 193   |
| Kratie                     | 37.6   | 35.2  | 2.2   | 3.7                     | 28.8  | 38.7   | 4.4                     | 107   |
| Phnom Penh                 | 58.3   | 66.2  | 7.0   | 1.4                     | 51.6  | 79.4   | 3.6                     | 257   |
| Prey Veng                  | 74.6   | 67.0  | 0.0   | 0.9                     | 59.5  | 69.1   | 0.9                     | 194   |
| Pursat                     | 82.8   | 79.4  | 1.3   | 3.3                     | 73.7  | 82.1   | 3.3                     | 122   |
| Siem Reap                  | 57.6   | 76.6  | 9.9   | 8.2                     | 52.5  | 86.6   | 8.2                     | 182   |
| Svay Rieng                 | 67.3   | 70.7  | 5.5   | 8.9                     | 58.5  | 77.1   | 8.9                     | 108   |
| Takeo                      | 72.8   | 74.9  | 2.5   | 2.6                     | 68.4  | 78.5   | 2.6                     | 164   |
| Otdar Meanchey             | 61.7   | 63.7  | 1.1   | 3.0                     | 53.5  | 66.2   | 3.0                     | 54  |
| Battambang/Pailin          | 34.9   | 58.3  | 28.0  | 1.2                     | 33.4  | 88.9   | 1.2                     | 247   |
| Kampot/Kep                 | 43.4   | 64.8  | 9.0   | 0.8                     | 38.9  | 74.7   | 2.5                     | 116   |
| Preah Sihanouk/Koh Kong    | 70.0   | 75.7  | 6.5   | 3.7                     | 65.6  | 83.3   | 4.2                     | 61  |
| Preah Vihear/Stung Treng   | 27.6   | 27.9  | 2.3   | 1.2                     | 23.6  | 30.1   | 1.2                     | 92  |
| Mondul Kiri/Ratanak Kiri   | 25.3   | 13.3  | 3.5   | 0.8                     | 14.4  | 17.1   | 1.5                     | 75  |
| <b>Education</b>           |  |   |   |                         |   |  |                         |   |
| No education               | 42.6   | 47.6  | 7.2   | 3.2                     | 37.2  | 55.7   | 3.2                     | 366   |
| Primary                    | 56.5   | 60.2  | 7.2   | 3.2                     | 48.8  | 69.1   | 3.5                     | 1,491   |
| Secondary and higher       | 62.8   | 70.5  | 9.1   | 2.6                     | 57.5  | 82.5   | 3.2                     | 1,088   |
| <b>Wealth quintile</b>     |  |   |   |                         |   |  |                         |   |
| Lowest                     | 52.7   | 55.8  | 6.1   | 3.5                     | 46.0  | 62.8   | 3.6                     | 694   |
| Second                     | 60.0   | 61.9  | 6.6   | 4.0                     | 51.6  | 69.9   | 4.5                     | 589   |
| Middle                     | 59.2   | 64.0  | 8.4   | 2.9                     | 53.5  | 74.5   | 3.0                     | 565   |
| Fourth                     | 56.9   | 63.8  | 10.9  | 2.6                     | 51.6  | 76.2   | 3.1                     | 536   |
| Highest                    | 57.5   | 68.3  | 7.9   | 1.7                     | 51.0  | 81.1   | 2.5                     | 560   |
| Total                      | 57.1   | 62.4  | 7.9   | 3.0                     | 50.5  | 72.4   | 3.3                     | 2,944   |

<sup>1</sup> In this context, "pretest counseling" means that someone talked with the respondent about all three of the following topics: (1) babies getting the AIDS virus from their mother, (2) preventing the virus, and (3) getting tested for the virus.

<sup>2</sup> Women were asked whether they received an HIV test during labor only if they were not tested for HIV during ANC.

<sup>3</sup> The denominator for percentages includes women who did not receive antenatal care for their last birth in the past two years.

Women living in urban areas were more likely than those living in rural areas to have received counseling, testing, and results during antenatal care. According to province, pregnant women living in Mondul Kiri/Ratanak Kiri (14 percent) and Preah Vihear/Stung Treng (24 percent) were least likely to have received HIV/AIDS counseling and testing services. Women with a secondary education or higher are more likely than those with no education to receive full counseling and testing services during antenatal care.

Some women are tested for HIV after labor starts. Including such women, 72 percent were tested for HIV and received results at some time during pregnancy.

## **18.6 REPORTS OF RECENT SEXUALLY TRANSMITTED INFECTIONS**

Information about the incidence of sexually transmitted infections is useful not only as a marker of unprotected sexual intercourse but also as a cofactor for HIV transmission. The 2014 CDHS asked respondents who had ever had sex whether they had had an STI in the past 12 months. They were also asked whether, in the past year, they had experienced a genital sore or ulcer and whether they had any genital discharge. These symptoms have been shown useful in identifying STIs in men. They are less easily interpreted in women because women are likely to experience more non-STI conditions of the reproductive tract that produce a discharge.

Table 18.11 shows the self-reported prevalence of STIs and STI symptoms among women and men age 15-49 who have ever had sexual intercourse. Six percent of women and less than 1 percent of men who have ever had sex reported having had an STI in the 12 months before the survey. A higher proportion of women (10 percent) than men (1 percent) reported having had an abnormal genital discharge. Furthermore, 4 percent of women and 1 percent of men reported having had a genital sore or ulcer in the past 12 months. Overall, 12 percent of women and 2 percent of men had either an STI or symptoms of an STI in the 12 months preceding the survey.

The results presented in Table 18.11 indicate that the proportion of respondents who reported having had an STI or an STI symptom varied considerably across provinces. Among women, the self-reported prevalence of STIs and STI symptoms ranged from a low of 5 percent in Kampong Thom and Otdar Meanchey to a high of 22 percent in Preah Vihear/Stung Treng and 20 percent in Battambang/Pailin and Preah Sihanouk/Koh Kong. Among men, the prevalence of reported STIs or symptoms of STIs is highest in Svay Rieng (4 percent) and Kandal (5 percent). Differences in the prevalence of STIs or their symptoms by other background characteristics are not large.

Table 18.11 Self-reported prevalence of sexually transmitted infections (STIs) and STI symptoms

Among women and men age 15-49 who ever had sexual intercourse, the percentage reporting having an STI and/or symptoms of an STI in the past 12 months, by background characteristics, Cambodia 2014

| Background characteristic   | Percentage of women who reported having in the past 12 months: |  |                    |                                      |   | Percentage of men who reported having in the past 12 months: |   |                    |   |   |
|-----------------------------|--|--|--------------------|--------------------------------------|---|--|---|--------------------|---|---|
|                             | STI  | Bad smelling/ abnormal genital discharge | Genital sore/ulcer | STI/genital discharge/ sore or ulcer | Number of women who ever had sexual intercourse | STI  | Bad smelling/ abnormal discharge from penis | Genital sore/ulcer | STI/ abnormal discharge from penis/ sore or ulcer | Number of men who ever had sexual intercourse |
| <b>Age</b>                  |  |  |                    |                                      |   |  |   |                    |   |   |
| 15-24                       | 4.4  | 10.3                                     | 2.8                | 11.8                                 | 2,452   | 0.6  | 2.1   | 1.3                | 2.7   | 525   |
| 15-19                       | 2.2  | 8.7                                      | 2.4                | 10.1                                 | 496   | 0.0  | 2.6   | 2.6                | 2.6   | 69  |
| 20-24                       | 5.0  | 10.7                                     | 2.9                | 12.2                                 | 1,956   | 0.6  | 2.0   | 1.1                | 2.7   | 455   |
| 25-29                       | 6.6  | 11.3                                     | 4.5                | 13.6                                 | 2,417   | 0.6  | 1.1   | 0.5                | 1.2   | 716   |
| 30-39                       | 6.4  | 10.1                                     | 3.5                | 12.0                                 | 4,566   | 0.4  | 0.5   | 0.8                | 1.1   | 1,440   |
| 40-49                       | 4.8  | 8.1                                      | 3.7                | 9.8                                  | 3,768   | 0.7  | 0.5   | 1.3                | 1.8   | 1,147   |
| <b>Marital status</b>       |  |  |                    |                                      |   |  |   |                    |   |   |
| Never married               | 5.0  | 5.0                                      | 10.0               | 10.6                                 | 56  | 0.5  | 1.8   | 1.2                | 1.8   | 303   |
| Ever had sex                | 5.0  | 5.0                                      | 10.0               | 10.6                                 | 56  | 0.5  | 1.8   | 1.2                | 1.8   | 303   |
| Married/living together     | 5.6  | 9.8                                      | 3.6                | 11.7                                 | 11,897  | 0.5  | 0.7   | 1.0                | 1.5   | 3,405   |
| Divorced/separated/ widowed | 5.6  | 9.6                                      | 3.3                | 10.7                                 | 1,250   | 1.8  | 0.0   | 0.0                | 1.8   | 120   |
| <b>Residence</b>            |  |  |                    |                                      |   |  |   |                    |   |   |
| Urban                       | 4.5  | 8.6                                      | 4.4                | 10.8                                 | 2,098   | 1.4  | 0.9   | 1.1                | 1.9   | 606   |
| Rural                       | 5.8  | 10.0                                     | 3.5                | 11.8                                 | 11,105  | 0.4  | 0.8   | 0.9                | 1.5   | 3,221   |
| <b>Province</b>             |  |  |                    |                                      |   |  |   |                    |   |   |
| Banteay Meanchey            | 4.0  | 6.5                                      | 1.9                | 8.7                                  | 542   | 1.5  | 0.6   | 1.2                | 1.8   | 143   |
| Kampong Cham                | 8.7  | 15.8                                     | 1.1                | 17.9                                 | 1,624   | 0.7  | 1.2   | 1.2                | 1.8   | 548   |
| Kampong Chhnang             | 3.5  | 7.8                                      | 3.4                | 8.1                                  | 453   | 0.0  | 0.2   | 1.0                | 1.0   | 131   |
| Kampong Speu                | 13.0   | 10.8                                     | 1.7                | 15.5                                 | 936   | 0.6  | 0.2   | 0.6                | 0.7   | 241   |
| Kampong Thom                | 3.7  | 3.6                                      | 0.9                | 4.5                                  | 639   | 0.0  | 0.0   | 0.0                | 0.0   | 155   |
| Kandal                      | 2.5  | 5.5                                      | 3.4                | 6.6                                  | 991   | 0.8  | 2.9   | 2.5                | 4.5   | 317   |
| Kratie                      | 0.6  | 8.5                                      | 1.4                | 8.7                                  | 383   | 0.9  | 0.0   | 0.5                | 0.9   | 108   |
| Phnom Penh                  | 3.5  | 8.7                                      | 4.5                | 11.0                                 | 1,249   | 1.8  | 0.8   | 1.4                | 2.4   | 376   |
| Prey Veng                   | 6.4  | 7.8                                      | 2.5                | 8.2                                  | 995   | 0.0  | 0.0   | 0.0                | 0.0   | 265   |
| Pursat                      | 2.4  | 6.7                                      | 2.1                | 6.8                                  | 455   | 0.5  | 0.0   | 0.5                | 0.5   | 122   |
| Siem Reap                   | 4.4  | 9.5                                      | 3.9                | 10.0                                 | 861   | 0.0  | 0.0   | 0.0                | 0.0   | 243   |
| Svay Rieng                  | 3.7  | 12.6                                     | 6.4                | 13.0                                 | 525   | 0.8  | 2.1   | 2.3                | 4.3   | 143   |
| Takeo                       | 5.5  | 7.1                                      | 3.8                | 8.9                                  | 786   | 0.0  | 1.3   | 2.5                | 3.0   | 244   |
| Otdar Meanchey              | 1.2  | 4.8                                      | 2.6                | 4.9                                  | 230   | 0.2  | 0.0   | 0.0                | 0.2   | 69  |
| Battambang/Pailin           | 8.9  | 17.5                                     | 8.3                | 20.4                                 | 960   | 0.3  | 0.9   | 0.3                | 0.9   | 275   |
| Kampot/Kep                  | 3.9  | 1.5                                      | 1.1                | 5.7                                  | 618   | 0.5  | 0.5   | 0.0                | 0.5   | 187   |
| Preah Sihanouk/ Koh Kong    | 8.5  | 17.6                                     | 13.1               | 19.9                                 | 296   | 0.4  | 0.7   | 1.5                | 1.9   | 90  |
| Preah Vihear/ Stung Treng   | 1.2  | 17.3                                     | 14.5               | 22.0                                 | 354   | 0.0  | 0.0   | 0.0                | 0.0   | 78  |
| Mondul Kiri/ Ratanak Kiri   | 9.3  | 10.5                                     | 0.5                | 11.4                                 | 307   | 0.0  | 0.0   | 0.0                | 0.0   | 91  |
| <b>Education</b>            |  |  |                    |                                      |   |  |   |                    |   |   |
| No education                | 6.9  | 11.7                                     | 4.3                | 13.6                                 | 2,038   | 0.0  | 0.2   | 0.2                | 0.2   | 286   |
| Primary                     | 5.9  | 10.1                                     | 3.8                | 11.8                                 | 7,042   | 0.7  | 1.2   | 1.4                | 2.3   | 1,750   |
| Secondary and higher        | 4.5  | 8.3                                      | 3.0                | 10.3                                 | 4,124   | 0.5  | 0.5   | 0.7                | 1.1   | 1,791   |
| <b>Wealth quintile</b>      |  |  |                    |                                      |   |  |   |                    |   |   |
| Lowest                      | 5.9  | 11.8                                     | 3.9                | 13.4                                 | 2,555   | 0.0  | 0.6   | 1.6                | 1.8   | 663   |
| Second                      | 6.2  | 11.1                                     | 4.1                | 12.7                                 | 2,625   | 0.8  | 1.4   | 0.3                | 1.6   | 718   |
| Middle                      | 5.4  | 9.2                                      | 2.7                | 11.2                                 | 2,605   | 0.4  | 0.6   | 0.6                | 0.8   | 778   |
| Fourth                      | 5.8  | 8.6                                      | 3.7                | 10.7                                 | 2,654   | 0.4  | 0.9   | 0.9                | 1.7   | 830   |
| Highest                     | 4.9  | 8.5                                      | 3.6                | 10.2                                 | 2,764   | 1.1  | 0.6   | 1.3                | 1.8   | 839   |
| <b>Total</b>                | 5.6  | 9.8                                      | 3.6                | 11.6                                 | 13,204  | 0.6  | 0.8   | 1.0                | 1.6   | 3,828   |

## 18.7 INJECTIONS

Injection overuse in a health care setting can contribute to the transmission of blood-borne pathogens to the extent that it encourages unsafe practices such as reuse of injection equipment. The proportion of injections given with reused injection equipment is an important prevention indicator in initiatives designed to control the spread of HIV/AIDS.

Table 18.12 presents data on the prevalence of injections among respondents. Respondents were asked whether they had had any injections given by a health worker in the 12 months preceding the survey and, if so, the number of injections they had received and whether their last injection was given with a syringe from a new, unopened package. It should be noted that medical injections can be self-administered (e.g., insulin for diabetes). These injections were not included in the calculations.

Women were more likely than men to report having received at least one injection from a health provider in the previous 12 months (37 percent and 27 percent, respectively). On average, women had received two injections, and men had received one injection.

The largest variations in injection prevalence were across provinces. Among women, for example, the percentage reporting that they had received at least one injection from a health worker during the 12 months prior to the survey varied from a low of 15 percent in Mondul Kiri/Ratanak Kiri to a high of 45 percent in Phnom Penh. Among men, the likelihood of having received an injection was also lowest in Mondul Kiri/Ratanak Kiri (15 percent), and it was highest in Kampong Chhnang (43 percent). There is practically no difference between urban and rural residents in terms of receiving at least one injection from a health provider. The associations between receiving at least one injection from a health provider and other background characteristics such as education and wealth were not consistent.

The majority of recent injections (99 percent among both women and men) were administered with a needle and syringe taken from a newly opened package.



Table 18.12 Prevalence of medical injections

Percentage of women and men age 15-49 who received at least one medical injection in the last 12 months, the average number of medical injections per person in the last 12 months, and among those who received a medical injection, the percentage of last medical injections for which the syringe and needle were taken from a new, unopened package, by background characteristics, Cambodia 2014

| Background characteristic  | Women   |   |                       |   |  | Men   |   |                       |   |  |
|----------------------------|---|---|-----------------------|---|--|---|---|-----------------------|---|--|
|                            | Percentage who received a medical injection in the last 12 months | Average number of medical injections per person in the last 12 months | Number of respondents | For last injection, syringe and needle taken from a new, unopened package | Number of respondents receiving medical injections in the last 12 months | Percentage who received a medical injection in the last 12 months | Average number of medical injections per person in the last 12 months | Number of respondents | For last injection, syringe and needle taken from a new, unopened package | Number of respondents receiving medical injections in the last 12 months |
| <b>Age</b>                 |   |   |                       |   |  |   |   |                       |   |  |
| 15-24                      | 38.0  | 1.7   | 5,910                 | 98.2  | 2,245  | 27.9  | 0.8   | 1,760                 | 99.3  | 491  |
| 15-19                      | 32.6  | 1.2   | 2,893                 | 98.2  | 943  | 28.7  | 0.8   | 926                   | 100.0   | 266  |
| 20-24                      | 43.2  | 2.2   | 3,017                 | 98.2  | 1,302  | 26.9  | 0.9   | 835                   | 98.5  | 225  |
| 25-29                      | 41.5  | 2.6   | 2,836                 | 98.6  | 1,176  | 28.0  | 1.2   | 815                   | 99.3  | 228  |
| 30-39                      | 37.2  | 2.4   | 4,886                 | 99.2  | 1,817  | 25.6  | 1.1   | 1,463                 | 99.5  | 374  |
| 40-49                      | 33.6  | 2.0   | 3,947                 | 98.1  | 1,325  | 27.6  | 1.6   | 1,152                 | 98.3  | 318  |
| <b>Marital status</b>      |   |   |                       |   |  |   |   |                       |   |  |
| Never married              | 31.0  | 1.2   | 4,428                 | 98.3  | 1,374  | 28.1  | 0.9   | 1,663                 | 99.6  | 468  |
| Ever had sex               | 25.4  | 0.6   | 56                    | *   | 14   | 33.0  | 1.1   | 303                   | 98.0  | 100  |
| Never had sex              | 31.1  | 1.2   | 4,372                 | 98.4  | 1,360  | 27.1  | 0.8   | 1,360                 | 100.0   | 368  |
| Married/living together    | 40.3  | 2.4   | 11,898                | 98.6  | 4,798  | 26.7  | 1.2   | 3,405                 | 99.2  | 909  |
| Divorced/separated/widowed | 31.2  | 2.1   | 1,252                 | 98.8  | 391  | 27.0  | 0.9   | 122                   | (91.2)  | 33   |
| <b>Residence</b>           |   |   |                       |   |  |   |   |                       |   |  |
| Urban                      | 37.1  | 2.1   | 3,251                 | 97.7  | 1,206  | 26.1  | 1.0   | 869                   | 99.1  | 227  |
| Rural                      | 37.4  | 2.1   | 14,327                | 98.7  | 5,357  | 27.4  | 1.1   | 4,321                 | 99.1  | 1,183  |
| <b>Province</b>            |   |   |                       |   |  |   |   |                       |   |  |
| Banteay Meanchey           | 39.7  | 2.0   | 689                   | 97.2  | 273  | 17.3  | 0.4   | 192                   | (100.0)   | 33   |
| Kampong Cham               | 39.3  | 2.0   | 2,021                 | 99.5  | 794  | 29.3  | 1.0   | 663                   | 99.6  | 194  |
| Kampong Chhnang            | 41.1  | 3.8   | 662                   | 99.5  | 272  | 43.0  | 2.4   | 182                   | 100.0   | 79   |
| Kampong Speu               | 43.9  | 2.2   | 1,196                 | 96.8  | 525  | 29.3  | 1.2   | 323                   | 97.0  | 95   |
| Kampong Thom               | 23.5  | 1.5   | 851                   | 98.5  | 200  | 19.7  | 0.6   | 232                   | 100.0   | 46   |
| Kandal                     | 41.6  | 2.2   | 1,330                 | 99.6  | 553  | 32.3  | 1.4   | 413                   | 98.8  | 134  |
| Kratie                     | 39.3  | 2.0   | 488                   | 97.5  | 192  | 42.1  | 1.3   | 143                   | 100.0   | 60   |
| Phnom Penh                 | 44.8  | 2.7   | 1,994                 | 98.3  | 893  | 29.7  | 1.1   | 550                   | 99.5  | 163  |
| Prey Veng                  | 37.5  | 3.2   | 1,188                 | 100.0   | 445  | 17.5  | 1.6   | 342                   | (100.0)   | 60   |
| Pursat                     | 32.5  | 1.7   | 631                   | 97.4  | 205  | 21.7  | 0.6   | 184                   | 100.0   | 40   |
| Siem Reap                  | 38.4  | 1.2   | 1,137                 | 100.0   | 436  | 16.2  | 0.5   | 337                   | 97.5  | 55   |
| Svay Rieng                 | 43.5  | 2.0   | 654                   | 99.2  | 285  | 40.3  | 1.2   | 183                   | 98.5  | 74   |
| Takeo                      | 29.5  | 2.3   | 1,082                 | 99.6  | 320  | 33.2  | 1.0   | 334                   | 96.9  | 111  |
| Oddar Meanchey             | 24.3  | 1.5   | 294                   | 99.6  | 72   | 26.2  | 1.2   | 99                    | 98.8  | 26   |
| Battambang/Pailin          | 30.2  | 1.6   | 1,333                 | 99.1  | 403  | 29.1  | 1.7   | 405                   | 100.0   | 118  |
| Kampot/Kep                 | 38.2  | 2.0   | 770                   | 93.0  | 294  | 20.6  | 0.7   | 241                   | 100.0   | 50   |
| Preah Sihanouk/Koh Kong    | 34.8  | 1.6   | 422                   | 95.6  | 147  | 23.9  | 1.8   | 120                   | 100.0   | 29   |
| Preah Vihear/Stung Treng   | 43.1  | 1.7   | 462                   | 99.7  | 199  | 22.9  | 0.5   | 112                   | 100.0   | 26   |
| Mondul Kiri/Ratanak Kiri   | 14.6  | 0.6   | 372                   | 98.8  | 54   | 15.2  | 0.3   | 134                   | 100.0   | 20   |
| <b>Education</b>           |   |   |                       |   |  |   |   |                       |   |  |
| No education               | 32.5  | 1.9   | 2,250                 | 98.8  | 731  | 21.2  | 0.8   | 324                   | 100.0   | 69   |
| Primary                    | 38.6  | 2.2   | 8,281                 | 98.5  | 3,197  | 25.8  | 1.1   | 2,167                 | 99.2  | 560  |
| Secondary and higher       | 37.4  | 2.1   | 7,047                 | 98.5  | 2,636  | 29.0  | 1.2   | 2,699                 | 99.0  | 782  |
| <b>Wealth quintile</b>     |   |   |                       |   |  |   |   |                       |   |  |
| Lowest                     | 36.7  | 1.9   | 3,143                 | 98.7  | 1,155  | 22.9  | 0.8   | 901                   | 99.3  | 206  |
| Second                     | 35.8  | 1.8   | 3,314                 | 98.7  | 1,185  | 27.2  | 1.2   | 954                   | 99.4  | 259  |
| Middle                     | 38.1  | 2.4   | 3,381                 | 98.3  | 1,289  | 30.5  | 1.3   | 1,040                 | 99.5  | 317  |
| Fourth                     | 38.9  | 2.2   | 3,612                 | 98.5  | 1,404  | 26.1  | 1.0   | 1,124                 | 97.6  | 294  |
| Highest                    | 37.1  | 2.1   | 4,128                 | 98.6  | 1,531  | 28.5  | 1.2   | 1,171                 | 99.8  | 333  |
| Total                      | 37.3  | 2.1   | 17,578                | 98.5  | 6,563  | 27.2  | 1.1   | 5,190                 | 99.1  | 1,410  |

Note: Medical injections are those given by a doctor, nurse, pharmacist, dentist, or other health worker. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

## 18.8 HIV/AIDS-RELATED KNOWLEDGE AND BEHAVIOR AMONG YOUTH

Knowledge of HIV/AIDS issues and related sexual behavior among youth age 15-24 is of particular interest because the period between sexual initiation and marriage is, for many young people, a time of sexual experimentation that may involve high-risk behaviors. This section considers a number of issues that relate to both transmission and prevention of HIV/AIDS among youth, including the extent to which youth have comprehensive knowledge of HIV/AIDS transmission and prevention modes and knowledge of a source where they can obtain condoms. Issues such as abstinence, age at sexual debut, and condom use are also covered in this section.

### 18.8.1 Knowledge about HIV/AIDS and Source for Condoms

Knowledge of how HIV is transmitted is crucial in enabling young people to avoid AIDS. Young people are often at greater risk because they may have shorter relationships with more partners or engage in other risky behaviors. As discussed earlier, comprehensive knowledge is defined as knowing that people can reduce their chances of getting the AIDS virus by having sex with only one uninfected faithful partner and by using condoms consistently, that a healthy-looking person can have the AIDS virus, and that HIV cannot be transmitted by mosquito bites or by sharing food with a person who has AIDS.

Table 18.13 shows that only 38 percent of young women and 46 percent of young men age 15-24 know all of these facts about HIV/AIDS. The level of comprehensive knowledge about HIV/AIDS slightly increases with age in the youth population. Young women and men who have never been married but have had sex (49 percent and 54 percent, respectively) are more likely than never-married (39 percent and 46 percent, respectively) and ever-married (36 percent and 44 percent, respectively) young adults to have comprehensive knowledge about HIV/AIDS.

As expected, comprehensive HIV/AIDS knowledge is much more common among urban than rural youth. Young adults with a secondary education or higher are about three times as likely as those with no schooling to have comprehensive knowledge of HIV/AIDS.

Because condoms play an important role in combating the transmission of HIV, young women were asked whether they knew where condoms could be obtained. Only “formal” sources of condoms were counted; friends and family and other similar sources were not included.

As shown in Table 18.13, 65 percent of young women know where to obtain a condom. Knowledge of a condom source tends to increase with age. Ever-married young women are more likely to know about a source for condoms than those who have never been married. Women in urban areas are more likely than those in rural areas to know of a condom source. Knowledge of a condom source among women is lowest in Kampong Speu (38 percent) and Kratie (42 percent) and highest in Kampong Chhnang (100 percent). Consistent with the patterns observed for other indicators, young women who are better educated and live in wealthier households are more likely than their counterparts to know a source of condoms.

Table 18.13 Comprehensive knowledge about AIDS and of a source of condoms among youth

Percentage of young women and young men age 15-24 with comprehensive knowledge about AIDS and percentage of young women with knowledge of a source of condoms, by background characteristics, Cambodia 2014

| Background characteristic    | Women  |  |                       | Men  |                       |
|------------------------------|--|--|-----------------------|--|-----------------------|
|                              | Percentage with comprehensive knowledge of AIDS <sup>1</sup> | Percentage who know a condom source <sup>2</sup> | Number of respondents | Percentage with comprehensive knowledge of AIDS <sup>1</sup> | Number of respondents |
| <b>Age</b>                   |  |  |                       |  |                       |
| 15-19                        | 32.7   | 56.7   | 2,893                 | 42.4   | 926                   |
| 15-17                        | 31.7   | 53.2   | 1,774                 | 42.0   | 581                   |
| 18-19                        | 34.2   | 62.3   | 1,119                 | 43.0   | 345                   |
| 20-24                        | 42.4   | 73.7   | 3,017                 | 49.9   | 835                   |
| 20-22                        | 38.6   | 71.6   | 1,811                 | 50.3   | 545                   |
| 23-24                        | 48.0   | 76.8   | 1,206                 | 49.2   | 289                   |
| <b>Marital status</b>        |  |  |                       |  |                       |
| Never married                | 38.5   | 59.5   | 3,495                 | 46.4   | 1,392                 |
| Ever had sex                 | (48.5)   | (86.0)   | 37                    | 53.5   | 158                   |
| Never had sex                | 38.4   | 59.2   | 3,458                 | 45.5   | 1,234                 |
| Ever married                 | 36.4   | 73.9   | 2,415                 | 44.2   | 368                   |
| <b>Residence</b>             |  |  |                       |  |                       |
| Urban                        | 55.0   | 79.8   | 1,171                 | 63.9   | 324                   |
| Rural                        | 33.3   | 61.9   | 4,739                 | 41.9   | 1,436                 |
| <b>Province</b>              |  |  |                       |  |                       |
| Banteay Meanchey             | 10.1   | 56.4   | 233                   | 39.7   | 64                    |
| Kampong Cham                 | 26.7   | 61.5   | 628                   | 47.3   | 193                   |
| Kampong Chhnang              | 43.1   | 100.0  | 238                   | 49.2   | 66                    |
| Kampong Speu                 | 23.6   | 37.9   | 413                   | 39.2   | 114                   |
| Kampong Thom                 | 59.2   | 79.0   | 271                   | 75.4   | 86                    |
| Kandal                       | 34.9   | 68.1   | 426                   | 0.2  | 120                   |
| Kratie                       | 38.3   | 41.6   | 175                   | 22.8   | 53                    |
| Phnom Penh                   | 65.4   | 85.3   | 744                   | 75.3   | 217                   |
| Prey Veng                    | 26.4   | 75.0   | 310                   | 67.3   | 85                    |
| Pursat                       | 28.0   | 58.1   | 227                   | 59.3   | 71                    |
| Siem Reap                    | 27.9   | 70.7   | 391                   | 27.9   | 120                   |
| Svay Rieng                   | 15.9   | 49.0   | 176                   | 40.2   | 61                    |
| Takeo                        | 49.3   | 52.8   | 367                   | 45.4   | 109                   |
| Otdar Meanchey               | 29.0   | 53.0   | 99                    | 0.3  | 37                    |
| Battambang/Pailin            | 49.7   | 63.9   | 486                   | 58.6   | 149                   |
| Kampot/Kep                   | 38.6   | 66.5   | 236                   | 46.9   | 78                    |
| Preah Sihanouk/<br>Koh Kong  | 36.4   | 71.5   | 161                   | 50.9   | 36                    |
| Preah Vihear/<br>Stung Treng | 20.2   | 52.9   | 183                   | 18.9   | 47                    |
| Mondul Kiri/<br>Ratanak Kiri | 33.9   | 60.1   | 145                   | 30.6   | 55                    |
| <b>Education</b>             |  |  |                       |  |                       |
| No education                 | 16.3   | 46.1   | 243                   | 17.8   | 57                    |
| Primary                      | 24.7   | 58.2   | 1,955                 | 28.8   | 572                   |
| Secondary and higher         | 45.8   | 70.5   | 3,712                 | 56.0   | 1,131                 |
| <b>Wealth quintile</b>       |  |  |                       |  |                       |
| Lowest                       | 26.6   | 56.8   | 956                   | 28.2   | 323                   |
| Second                       | 27.7   | 59.0   | 1,057                 | 40.0   | 304                   |
| Middle                       | 28.5   | 61.4   | 1,139                 | 44.1   | 354                   |
| Fourth                       | 42.1   | 61.1   | 1,262                 | 50.0   | 384                   |
| Highest                      | 54.9   | 82.1   | 1,496                 | 62.7   | 396                   |
| Total                        | 37.6   | 65.4   | 5,910                 | 45.9   | 1,760                 |

Note: Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Comprehensive knowledge means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting the AIDS virus, knowing that a healthy-looking person can have the AIDS virus, and rejecting the two most common local misconceptions about AIDS transmission or prevention of the AIDS virus. The components of comprehensive knowledge are presented in Tables 18.2, 18.3.1, and 18.3.2.

<sup>2</sup> For this table, the following responses are not considered a source for condoms: friends, family members, and home.

## 18.8.2 Age at First Sex and Condom Use at First Sexual Intercourse

Information from the 2014 CDHS can be used to look at several important issues related to the initiation of sexual activity among youth, such as age at first sex and condom use at first sexual intercourse.

Table 18.14 shows the proportion of women and men in the 15-24 age cohort who had sex before age 15 and before age 18. Approximately 2 percent of young women and less than 1 percent of young men had sex by age 15, whereas 18 percent of young women and 5 percent of young men had sex by age 18.

**Table 18.14 Age at first sexual intercourse among young people**

Percentage of young women and young men age 15-24 who had sexual intercourse before age 15 and percentage of young women and young men age 18-24 who had sexual intercourse before age 18, by background characteristics, Cambodia 2014

| Background characteristic              | Women   |                               |   |                               | Men   |                               |   |                               |
|--|---|-------------------------------|---|-------------------------------|---|-------------------------------|---|-------------------------------|
|  | Percentage who had sexual intercourse before age 15 | Number of respondents (15-24) | Percentage who had sexual intercourse before age 18 | Number of respondents (18-24) | Percentage who had sexual intercourse before age 15 | Number of respondents (15-24) | Percentage who had sexual intercourse before age 18 | Number of respondents (18-24) |
| <b>Age</b>                             |   |                               |   |                               |   |                               |   |                               |
| 15-19                                  | 1.4   | 2,893                         | na  | na                            | 0.3   | 926                           | na  | na                            |
| 15-17                                  | 0.7   | 1,774                         | na  | na                            | 0.5   | 581                           | na  | na                            |
| 18-19                                  | 2.4   | 1,119                         | 20.6  | 1,119                         | 0.0   | 345                           | 4.9   | 345                           |
| 20-24                                  | 1.6   | 3,017                         | 17.4  | 3,017                         | 0.4   | 835                           | 4.4   | 835                           |
| 20-22                                  | 1.6   | 1,811                         | 17.6  | 1,811                         | 0.6   | 545                           | 5.2   | 545                           |
| 23-24                                  | 1.7   | 1,206                         | 17.0  | 1,206                         | 0.0   | 289                           | 3.1   | 289                           |
| <b>Marital status</b>                  |   |                               |   |                               |   |                               |   |                               |
| Never married                          | 0.0   | 3,495                         | 0.5   | 1,837                         | 0.4   | 1,392                         | 2.4   | 819                           |
| Ever married                           | 3.7   | 2,415                         | 32.4  | 2,299                         | 0.0   | 368                           | 9.4   | 361                           |
| <b>Knows condom source<sup>1</sup></b> |   |                               |   |                               |   |                               |   |                               |
| Yes                                    | 1.5   | 3,865                         | 19.0  | 2,921                         | na  | na                            | na  | na                            |
| No                                     | 1.6   | 2,045                         | 16.5  | 1,215                         | na  | na                            | na  | na                            |
| <b>Residence</b>                       |   |                               |   |                               |   |                               |   |                               |
| Urban                                  | 0.9   | 1,171                         | 8.5   | 873                           | 0.0   | 324                           | 3.0   | 237                           |
| Rural                                  | 1.6   | 4,739                         | 20.8  | 3,263                         | 0.4   | 1,436                         | 5.0   | 942                           |
| <b>Province</b>                        |   |                               |   |                               |   |                               |   |                               |
| Banteay Meanchey                       | 0.4   | 233                           | 13.6  | 168                           | 0.0   | 64                            | (10.0)  | 43                            |
| Kampong Cham                           | 2.0   | 628                           | 29.2  | 423                           | 3.1   | 193                           | 12.2  | 132                           |
| Kampong Chhnang                        | 0.4   | 238                           | 13.3  | 155                           | 0.0   | 66                            | 4.0   | 44                            |
| Kampong Speu                           | 1.6   | 413                           | 18.5  | 292                           | 0.0   | 114                           | 0.0   | 77                            |
| Kampong Thom                           | 0.0   | 271                           | 20.5  | 155                           | 0.0   | 86                            | 0.0   | 44                            |
| Kandal                                 | 3.0   | 426                           | 16.8  | 285                           | 0.0   | 120                           | 0.9   | 81                            |
| Kratie                                 | 3.1   | 175                           | 29.4  | 128                           | 0.0   | 53                            | 5.4   | 36                            |
| Phnom Penh                             | 0.9   | 744                           | 6.2   | 577                           | 0.0   | 217                           | 1.5   | 163                           |
| Prey Veng                              | 0.5   | 310                           | 26.1  | 207                           | 0.0   | 85                            | (0.0)   | 48                            |
| Pursat                                 | 1.2   | 227                           | 11.8  | 168                           | 0.0   | 71                            | 3.9   | 48                            |
| Siem Reap                              | 0.1   | 391                           | 24.3  | 285                           | 0.0   | 120                           | 8.3   | 84                            |
| Svay Rieng                             | 0.7   | 176                           | 15.6  | 130                           | 0.0   | 61                            | (2.2)   | 37                            |
| Takeo                                  | 1.3   | 367                           | 12.1  | 239                           | 0.0   | 109                           | 3.6   | 77                            |
| Otdar Meanchey                         | 1.7   | 99                            | 20.7  | 69                            | 0.0   | 37                            | 2.4   | 23                            |
| Battambang/Pailin                      | 0.6   | 486                           | 14.8  | 349                           | 0.0   | 149                           | 5.9   | 94                            |
| Kampot/Kep                             | 2.9   | 236                           | 22.9  | 161                           | 0.0   | 78                            | 5.1   | 52                            |
| Preah Sihanouk/<br>Koh Kong            | 1.1   | 161                           | 14.2  | 117                           | 0.0   | 36                            | 4.9   | 24                            |
| Preah Vihear/<br>Stung Treng           | 3.8   | 183                           | 25.9  | 123                           | 0.0   | 47                            | 5.5   | 30                            |
| Mondul Kiri/<br>Ratanak Kiri           | 8.7   | 145                           | 35.2  | 104                           | 0.0   | 55                            | 6.5   | 43                            |
| <b>Education</b>                       |   |                               |   |                               |   |                               |   |                               |
| No education                           | 5.2   | 243                           | 38.0  | 201                           | 0.0   | 57                            | 9.0   | 50                            |
| Primary                                | 2.3   | 1,955                         | 26.4  | 1,468                         | 0.5   | 572                           | 6.3   | 372                           |
| Secondary and higher                   | 0.9   | 3,712                         | 11.8  | 2,467                         | 0.3   | 1,131                         | 3.4   | 758                           |
| <b>Wealth quintile</b>                 |   |                               |   |                               |   |                               |   |                               |
| Lowest                                 | 2.1   | 956                           | 29.3  | 662                           | 0.0   | 323                           | 7.3   | 210                           |
| Second                                 | 1.9   | 1,057                         | 21.9  | 717                           | 1.0   | 304                           | 6.3   | 200                           |
| Middle                                 | 1.7   | 1,139                         | 17.8  | 769                           | 0.8   | 354                           | 5.8   | 228                           |
| Fourth                                 | 1.2   | 1,262                         | 15.7  | 891                           | 0.0   | 384                           | 2.5   | 250                           |
| Highest                                | 1.0   | 1,496                         | 11.5  | 1,098                         | 0.0   | 396                           | 2.2   | 292                           |
| <b>Total</b>                           | 1.5   | 5,910                         | 18.2  | 4,136                         | 0.3   | 1,760                         | 4.6   | 1,180                         |

Note: Figures in parentheses are based on 25-49 unweighted cases.

na = Not applicable

<sup>1</sup> For this table, the following responses are not considered a source for condoms: friends, family members, and home.

In Cambodia, it is rare for women to have sex prior to marriage; therefore, given that the median age at first marriage among Cambodian women is 21 years, very few women report that they have had sex before age 15. Young women who live in Mondul Kiri/Ratanak Kiri, perhaps by virtue of having a comparatively younger median age at first marriage of 19 years, are most likely to report having had sexual intercourse before age 15 (9 percent).

Among young women in the 18-24 age group, those in urban areas were less likely to have had sex by age 18 than those in rural areas (9 percent versus 21 percent). The proportion of women age 18-24 who reported having had sex before age 18 ranged from 6 percent in Phnom Penh to 35 percent in Mondul Kiri/Ratanak Kiri. Education and wealth showed a negative association with early initiation of sexual activity: as education and wealth increased, the proportion of women reporting sex before age 18 decreased.

Differentials in these indicators among young men tend to be more muted than those among young women. This is in part because the proportions of men initiating sexual activity before age 18 were not large in most subgroups. As was the case with young women, education and wealth were related to initiation of sexual activity before age 18 among young men. For example, young men with no education were more likely to have had sex by age 18 than young men with a secondary education or higher (9 percent versus 3 percent).

### **18.8.3 Recent Sexual Activity**

The period between first sex and marriage is often a time of sexual experimentation. Unfortunately, in the era of HIV/AIDS, it can also be a risky time. Table 18.15 presents data on the percentage of never-married young women and men age 15-24 who have never had sexual intercourse, the percentage who had sex in the 12 months preceding the survey, and, among men who have had sexual intercourse, the percentage who used a condom during their most recent sexual intercourse.

The majority of never-married young women (99 percent) and men (89 percent) reported that they had never had sex, and as a result the proportions reporting recent sexual activity (i.e., within the 12-month period before the survey) are low (less than 1 percent among young women and 7 percent among young men).

Given the comparatively small proportion of never-married young women reporting premarital sexual intercourse, differentials in this indicator are for the most part minimal. Among never-married young men, the proportion reporting premarital sexual activity generally increases with age and wealth and is higher among urban than rural residents. Phnom Penh and Kampong Cham (16 percent each) have the highest proportion of never-married young men reporting premarital sex in the past 12 months. Among men reporting premarital sex, only two-thirds (66 percent) used a condom during their last sexual intercourse.

Table 18.15 Premarital sexual intercourse and condom use during premarital sexual intercourse among youth

Among never-married women and men age 15-24, the percentage who have never had sexual intercourse, the percentage who had sexual intercourse in the past 12 months, and, among men who had premarital sexual intercourse in the past 12 months, the percentage who used a condom at the last sexual intercourse, by background characteristics, Cambodia 2014

| Background characteristic              | Women  |   |                                     | Men  |   |                                     |   |                       |
|--|--|---|-------------------------------------|--|---|-------------------------------------|---|-----------------------|
|  | Percentage who have never had sexual intercourse | Percentage who had sexual intercourse in the past 12 months | Number of never-married respondents | Percentage who have never had sexual intercourse | Percentage who had sexual intercourse in the past 12 months | Number of never-married respondents | Percentage who used a condom at last sexual intercourse | Number of respondents |
| <b>Age</b>                             |  |   |                                     |  |   |                                     |   |                       |
| 15-19                                  | 99.3   | 0.3   | 2,414                               | 95.6   | 3.5   | 896                                 | (50.6)  | 31                    |
| 15-17                                  | 99.8   | 0.1   | 1,658                               | 97.7   | 1.7   | 574                                 | *   | 10                    |
| 18-19                                  | 98.2   | 0.6   | 756                                 | 91.7   | 6.6   | 323                                 | *   | 21                    |
| 20-24                                  | 98.1   | 1.6   | 1,081                               | 76.2   | 14.0  | 496                                 | 72.8  | 69                    |
| 20-22                                  | 98.0   | 1.9   | 762                                 | 79.4   | 11.9  | 378                                 | 64.4  | 45                    |
| 23-24                                  | 98.5   | 1.0   | 319                                 | 65.9   | 20.6  | 118                                 | (88.3)  | 24                    |
| <b>Knows condom source<sup>1</sup></b> |  |   |                                     |  |   |                                     |   |                       |
| Yes                                    | 98.5   | 1.1   | 2,081                               | na   | na  | na                                  | na  | na                    |
| No                                     | 99.6   | 0.1   | 1,414                               | na   | na  | na                                  | na  | na                    |
| <b>Residence</b>                       |  |   |                                     |  |   |                                     |   |                       |
| Urban                                  | 97.4   | 2.4   | 870                                 | 79.2   | 13.8  | 294                                 | 85.3  | 41                    |
| Rural                                  | 99.4   | 0.1   | 2,625                               | 91.2   | 5.4   | 1,099                               | (52.8)  | 60                    |
| <b>Province</b>                        |  |   |                                     |  |   |                                     |   |                       |
| Banteay Meanchey                       | 100.0  | 0.0   | 122                                 | 91.4   | 4.6   | 50                                  | *   | 2                     |
| Kampong Cham                           | 99.3   | 0.0   | 322                                 | 74.4   | 15.6  | 141                                 | *   | 22                    |
| Kampong Chhnang                        | 100.0  | 0.0   | 158                                 | 89.0   | 5.0   | 49                                  | *   | 2                     |
| Kampong Speu                           | 99.4   | 0.0   | 230                                 | 94.7   | 5.3   | 81                                  | *   | 4                     |
| Kampong Thom                           | 100.0  | 0.0   | 172                                 | 98.1   | 0.9   | 73                                  | *   | 1                     |
| Kandal                                 | 97.0   | 0.6   | 258                                 | 87.8   | 7.3   | 102                                 | *   | 7                     |
| Kratie                                 | 100.0  | 0.0   | 84                                  | 85.4   | 10.2  | 38                                  | *   | 4                     |
| Phnom Penh                             | 97.2   | 2.7   | 550                                 | 78.1   | 15.9  | 200                                 | (78.3)  | 32                    |
| Prey Veng                              | 100.0  | 0.0   | 153                                 | 94.8   | 0.0   | 69                                  | *   | 0                     |
| Pursat                                 | 100.0  | 0.0   | 136                                 | 91.6   | 7.2   | 59                                  | *   | 4                     |
| Siem Reap                              | 96.6   | 2.9   | 225                                 | 95.1   | 2.4   | 93                                  | *   | 2                     |
| Svay Rieng                             | 100.0  | 0.0   | 94                                  | 88.1   | 7.1   | 46                                  | *   | 3                     |
| Takeo                                  | 99.4   | 0.0   | 242                                 | 85.6   | 6.4   | 92                                  | *   | 6                     |
| Otdar Meanchey                         | 99.1   | 0.9   | 56                                  | 98.8   | 1.2   | 28                                  | *   | 0                     |
| Battambang/Pailin                      | 100.0  | 0.0   | 308                                 | 98.3   | 1.0   | 114                                 | *   | 1                     |
| Kampot/Kep                             | 100.0  | 0.0   | 125                                 | 90.9   | 7.4   | 55                                  | *   | 4                     |
| Preah Sihanouk/<br>Koh Kong            | 99.4   | 0.3   | 107                                 | 87.7   | 10.1  | 30                                  | *   | 3                     |
| Preah Vihear/<br>Stung Treng           | 99.6   | 0.4   | 95                                  | 100.0  | 0.0   | 32                                  | *   | 0                     |
| Mondul Kiri/<br>Ratanak Kiri           | 99.8   | 0.2   | 58                                  | 94.9   | 3.5   | 42                                  | *   | 1                     |
| <b>Education</b>                       |  |   |                                     |  |   |                                     |   |                       |
| No education                           | 99.4   | 0.6   | 77                                  | (89.4)   | (10.6)  | 35                                  | *   | 4                     |
| Primary                                | 99.1   | 0.5   | 886                                 | 89.4   | 6.5   | 415                                 | (68.2)  | 27                    |
| Secondary and higher                   | 98.9   | 0.7   | 2,532                               | 88.3   | 7.4   | 943                                 | 68.6  | 70                    |
| <b>Wealth quintile</b>                 |  |   |                                     |  |   |                                     |   |                       |
| Lowest                                 | 100.0  | 0.0   | 470                                 | 93.7   | 5.3   | 234                                 | *   | 12                    |
| Second                                 | 99.8   | 0.0   | 574                                 | 91.7   | 3.5   | 234                                 | *   | 8                     |
| Middle                                 | 99.4   | 0.2   | 631                                 | 87.7   | 6.8   | 274                                 | *   | 19                    |
| Fourth                                 | 98.4   | 0.6   | 776                                 | 88.7   | 8.3   | 298                                 | *   | 25                    |
| Highest                                | 98.2   | 1.7   | 1,044                               | 84.0   | 10.3  | 353                                 | 80.9  | 36                    |
| <b>Total</b>                           | 98.9   | 0.7   | 3,495                               | 88.7   | 7.2   | 1,392                               | 66.0  | 100                   |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

na = Not applicable

<sup>1</sup> For this table, the following responses are not considered a source for condoms: friends, family members, and home.

## 18.8.4 Multiple Sexual Partnerships

The most common mode of HIV transmission in Cambodia is through unprotected sex with an infected person. To prevent HIV/AIDS transmission, it is important for young people to be faithful to one uninfected partner. Table 18.16 shows the percentage of all young women and men age 15-24 who had sexual intercourse with more than one partner in the 12 months before the survey, by background characteristics.

Table 18.16 Multiple sexual partners in the past 12 months among youth

Among all young women and men age 15-24, the percentage who had sexual intercourse with more than one sexual partner in the past 12 months, and among those having more than one partner in the past 12 months, the percentage reporting that a condom was used at last intercourse, by background characteristics, Cambodia 2014

| Background characteristic              | Women age 15-24                                      |                 | Men age 15-24  |               |
|--|--|-----------------|--|---------------|
|  | Percentage who had 2+ partners in the past 12 months | Number of women | Percentage who had 2+ partners in the past 12 months | Number of men |
| <b>Age</b>                             |  |                 |  |               |
| 15-19                                  | 0.0  | 2,893           | 0.2  | 926           |
| 15-17                                  | 0.0  | 1,774           | 0.0  | 581           |
| 18-19                                  | 0.0  | 1,119           | 0.5  | 345           |
| 20-24                                  | 0.3  | 3,017           | 2.1  | 835           |
| 20-22                                  | 0.3  | 1,811           | 2.1  | 545           |
| 23-24                                  | 0.2  | 1,206           | 2.2  | 289           |
| <b>Marital status</b>                  |  |                 |  |               |
| Never married                          | 0.0  | 3,495           | 0.7  | 1,392         |
| Ever married                           | 0.3  | 2,415           | 2.4  | 368           |
| <b>Knows condom source<sup>1</sup></b> |  |                 |  |               |
| No                                     | 0.2  | 3,865           | na   | na            |
| Yes                                    | 0.0  | 2,045           | na   | na            |
| <b>Residence</b>                       |  |                 |  |               |
| Urban                                  | 0.3  | 1,171           | 3.5  | 324           |
| Rural                                  | 0.1  | 4,739           | 0.6  | 1,436         |
| <b>Education</b>                       |  |                 |  |               |
| No education                           | 0.6  | 243             | 0.0  | 57            |
| Primary                                | 0.3  | 1,955           | 0.9  | 572           |
| Secondary and higher                   | 0.0  | 3,712           | 1.3  | 1,131         |
| Total                                  | 0.1  | 5,910           | 1.1  | 1,760         |

na = Not available

<sup>1</sup> For this table, the following responses are not considered a source for condoms: friends, family members, and home.

Overall, less than 1 percent of young women and 1 percent of young men reported having had two or more sexual partners in the past 12 months. Given the comparatively small proportions of young women and men having had multiple sexual partners in the past 12 months, differentials in this indicator are generally not significant.

### 18.8.5 HIV Testing

Young people may believe there are barriers to accessing and using many health services and facilities, and this is particularly true for sensitive concerns relating to sexual health, such as HIV/AIDS and other STIs. Table 18.17 presents data on the percentage of sexually active youth who had been tested and received their results within the past year. Young women who had had sexual intercourse in the 12 months before the survey were more likely than young men to have been tested for HIV (25 percent and 18 percent, respectively). In the case of young women, testing levels were higher among those living in urban areas, those with a secondary education or higher, those in the highest wealth quintile, and those living in Kampong Chhnang. Among young men, testing rates were higher among those with a secondary education or higher. There was no clear association among young men between HIV testing and other background characteristics.

Table 18.17 Recent HIV tests among youth

Among young women and young men age 15-24 who have had sexual intercourse in the past 12 months, the percentage who were tested for HIV in the past 12 months and received the results of the last test, by background characteristics, Cambodia 2014

| Background characteristic              | Women age 15-24 who have had sexual intercourse in the past 12 months:                                  |                 | Men age 15-24 who have had sexual intercourse in the past 12 months:                                    |               |
|--|---|-----------------|---|---------------|
|  | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of women | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of men |
| <b>Age</b>                             |   |                 |   |               |
| 15-19                                  | 29.0  | 468             | 19.7  | 60            |
| 15-17                                  | 36.2  | 116             | *   | 17            |
| 18-19                                  | 26.7  | 353             | (27.3)  | 44            |
| 20-24                                  | 24.1  | 1,859           | 17.6  | 388           |
| 20-22                                  | 27.5  | 1,016           | 19.0  | 202           |
| 23-24                                  | 20.1  | 843             | 16.1  | 186           |
| <b>Marital status</b>                  |   |                 |   |               |
| Never married                          | (39.3)  | 24              | 16.2  | 100           |
| Ever married                           | 25.0  | 2,303           | 18.4  | 348           |
| <b>Knows condom source<sup>1</sup></b> |   |                 |   |               |
| Yes                                    | 27.1  | 1,726           | na  | na            |
| No                                     | 19.6  | 601             | na  | na            |
| <b>Residence</b>                       |   |                 |   |               |
| Urban                                  | 36.8  | 305             | 17.6  | 70            |
| Rural                                  | 23.4  | 2,022           | 18.0  | 378           |
| <b>Province</b>                        |   |                 |   |               |
| Banteay Meanchey                       | 35.7  | 102             | *   | 17            |
| Kampong Cham                           | 22.7  | 293             | (22.8)  | 74            |
| Kampong Chhnang                        | 45.0  | 72              | *   | 18            |
| Kampong Speu                           | 22.7  | 181             | (20.4)  | 35            |
| Kampong Thom                           | 29.5  | 98              | *   | 14            |
| Kandal                                 | 23.6  | 159             | *   | 26            |
| Kratie                                 | 4.3   | 87              | (7.0)   | 18            |
| Phnom Penh                             | 35.6  | 199             | (16.8)  | 48            |
| Prey Veng                              | 11.1  | 150             | *   | 12            |
| Pursat                                 | 26.5  | 88              | *   | 16            |
| Siem Reap                              | 28.6  | 168             | *   | 30            |
| Svay Rieng                             | 34.5  | 78              | *   | 17            |
| Takeo                                  | 27.8  | 115             | *   | 22            |
| Otdar Meanchey                         | 21.6  | 42              | (20.8)  | 9             |
| Battambang/Pailin                      | 34.6  | 172             | *   | 29            |
| Kampot/Kep                             | 20.0  | 106             | (5.8)   | 26            |
| Preah Sihanouk/<br>Koh Kong            | 37.0  | 52              | *   | 8             |
| Preah Vihear/<br>Stung Treng           | 8.4   | 83              | (0.0)   | 15            |
| Mondul Kiri/<br>Ratanak Kiri           | 5.2   | 82              | (0.0)   | 15            |
| <b>Education</b>                       |   |                 |   |               |
| No education                           | 21.0  | 154             | (0.0)   | 25            |
| Primary                                | 21.7  | 1,022           | 13.4  | 179           |
| Secondary and higher                   | 28.7  | 1,151           | 23.0  | 245           |
| <b>Wealth quintile</b>                 |   |                 |   |               |
| Lowest                                 | 18.6  | 466             | 8.3   | 99            |
| Second                                 | 25.1  | 469             | 19.2  | 75            |
| Middle                                 | 22.8  | 479             | 22.5  | 98            |
| Fourth                                 | 26.7  | 471             | 20.2  | 100           |
| Highest                                | 32.9  | 442             | 20.3  | 77            |
| <b>Total</b>                           | <b>25.1</b>   | <b>2,327</b>    | <b>17.9</b>   | <b>448</b>    |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

na = Not available

<sup>1</sup> For this table, the following responses are not considered a source for condoms: friends, family members, and home.





## Key Findings

- Seventy-four percent of currently married employed women who earn cash make independent decisions about how to spend their earnings.
- About 4 in 10 women own a house and/or land, mostly jointly with their husband.
- A large majority of currently married women (86 percent) participate in three specified decisions pertaining to their own health care, major household purchases, and visits to their family or relatives.
- Fifty percent of women believe that wife beating is justified for at least one of six specified reasons.

The 2014 CDHS collected information on the general background characteristics of respondents (age, education, wealth quintile, and employment status) but also information specific to women's empowerment, such as receipt of cash earnings, the magnitude of a woman's earnings relative to those of her husband, and control over the use of her own earnings and those of her spouse.<sup>1</sup>

In addition, the 2014 CDHS collected information on women's participation in household decision making and their attitude, as well as that of their husband, towards wife beating. This report uses the two DHS-developed indices of women's empowerment to measure women's and men's responses to the questions. The first index is based on the number of household decisions in which the woman participates, and the second is based on the respondent's opinion regarding the number of reasons that justify wife beating. The ranking of women on these two indices is then related to selected demographic and health outcomes, including use of contraception, ideal family size, and the use of reproductive health care services during pregnancy, childbirth, and the postnatal period.

## 19.1 EMPLOYMENT AND FORMS OF EARNINGS

Employment can be a source of empowerment for both women and men. It is particularly so for women if it puts them in control of the household income. In the 2014 CDHS, respondents were asked whether they were employed at the time of the survey and, if not, whether they were employed in the 12 months preceding the survey.

Table 19.1 shows that 81 percent of currently married women age 15-49 were employed at the time of the survey or within the 12 months preceding the survey, as compared with practically all men. Younger married women (age 15-24) were less likely to be employed than older respondents.

Among currently married respondents who had been employed in the past 12 months, 92 percent of women and 95 percent of men received earnings in cash or cash and in-kind. About 3 percent of women and 2 percent of men employed in the past 12 months were not paid. The proportion not paid was highest among young respondents.

<sup>1</sup> The questions were phrased in terms of "husband/partner" (for women) and "wife/partner" (for men), referring to marital partners; however, in this report, the word "partner" has been dropped to simplify the text and tables.

Table 19.1 Employment and cash earnings of currently married women and men

Percentage of currently married women and men age 15-49 who were employed at any time in the past 12 months and the percent distribution of currently married women and men employed in the past 12 months by type of earnings, according to age, Cambodia 2014

| Age   | Among currently married respondents:  |                       | Percent distribution of currently married respondents employed in the past 12 months, by type of earnings |                  |              |          |                    |       | Number of women |
|-------|---------------------------------------|-----------------------|---|------------------|--------------|----------|--------------------|-------|-----------------|
|       | Percentage employed in past 12 months | Number of respondents | Cash only   | Cash and in-kind | In-kind only | Not paid | Missing/don't know | Total |                 |
| WOMEN |                                       |                       |   |                  |              |          |                    |       |                 |
| 15-19 | 70.6                                  | 450                   | 86.6  | 3.8              | 3.1          | 6.5      | 0.0                | 100.0 | 318             |
| 20-24 | 73.8                                  | 1,833                 | 84.5  | 7.7              | 2.3          | 5.4      | 0.0                | 100.0 | 1,352           |
| 25-29 | 77.8                                  | 2,249                 | 85.5  | 7.5              | 4.0          | 3.0      | 0.0                | 100.0 | 1,750           |
| 30-34 | 82.5                                  | 2,625                 | 87.1  | 7.7              | 3.2          | 2.0      | 0.0                | 100.0 | 2,166           |
| 35-39 | 85.9                                  | 1,573                 | 82.5  | 8.7              | 5.8          | 3.0      | 0.0                | 100.0 | 1,351           |
| 40-44 | 87.8                                  | 1,673                 | 79.9  | 10.2             | 6.8          | 3.1      | 0.0                | 100.0 | 1,469           |
| 45-49 | 85.2                                  | 1,495                 | 78.3  | 11.4             | 7.1          | 3.3      | 0.0                | 100.0 | 1,273           |
| Total | 81.3                                  | 11,898                | 83.6  | 8.5              | 4.6          | 3.3      | 0.0                | 100.0 | 9,679           |
| MEN   |                                       |                       |   |                  |              |          |                    |       |                 |
| 15-19 | *                                     | 27                    | *   | *                | *            | *        | *                  | *     | 25              |
| 20-24 | 100.0                                 | 308                   | 81.5  | 13.5             | 0.2          | 4.9      | 0.0                | 100.0 | 308             |
| 25-29 | 99.3                                  | 591                   | 88.7  | 7.3              | 2.1          | 1.8      | 0.0                | 100.0 | 587             |
| 30-34 | 99.9                                  | 832                   | 88.4  | 8.5              | 1.7          | 1.5      | 0.0                | 100.0 | 831             |
| 35-39 | 100.0                                 | 529                   | 80.2  | 12.8             | 5.7          | 1.4      | 0.0                | 100.0 | 529             |
| 40-44 | 99.4                                  | 572                   | 84.0  | 12.0             | 1.5          | 2.5      | 0.0                | 100.0 | 569             |
| 45-49 | 99.4                                  | 545                   | 77.3  | 18.7             | 2.5          | 1.5      | 0.0                | 100.0 | 542             |
| Total | 99.6                                  | 3,405                 | 83.9  | 11.5             | 2.4          | 2.1      | 0.0                | 100.0 | 3,391           |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

## 19.2 CONTROL OVER WOMEN'S AND MEN'S EARNINGS

Currently married women who were employed and received cash for their work were asked to identify the main decision maker in the family regarding use of their earnings. They were also asked the relative magnitude of their earnings in comparison with those of their husband. Women whose husbands were employed for cash were asked who usually decides how his earnings are used. Men were also asked who mainly decides how their earnings are used. These pieces of information provide insight into women's level of empowerment in the family and the extent of their control over decision making regarding the use of household income. It is expected that employment and cash earnings are more likely to empower women if they control their own earnings and perceive their earnings as important relative to those of their husband and important to the welfare of the household.

Table 19.2.1 shows the results on women's control over their cash earnings and the relative magnitude of their earnings relative to those of their husband for currently married women who had cash earnings in the 12 months preceding the survey. Seventy-four percent of married women who are employed say that they mainly control their cash earnings; 25 percent say that decisions regarding how their earnings are used are made jointly with their husband, and only 2 percent say that their husband mainly controls their cash earnings.

Women's control over their cash earnings is highest among those in Kampot/Kep (92 percent), Kampong Thom (90 percent), and Svay Rieng (90 percent) and lowest among those in Mondul Kiri/Ratanak Kiri (24 percent) and Banteay Meanchey (36 percent). Younger women and women with no education are less likely than other women to control their cash earnings. There is little variation in control of cash income by other background characteristics.

Nearly one in two (48 percent) currently married, employed women in Cambodia say they earn less than their husband; 35 percent say they earn about the same amount, and 17 percent say either that they earn more than their husband or that their husband has no earnings. Thus, half of currently married, employed women earn at least as much as their husband. Employed women in urban areas are more likely than employed women in rural areas to earn more than their husbands, as are better educated women and those in higher wealth quintiles.

Table 19.2.1 Control over women's cash earnings and relative magnitude of women's cash earnings

Percent distribution of currently married women age 15-49 who received cash earnings for employment in the 12 months preceding the survey by person who decides how wife's cash earnings are used and by whether she earned more or less than her husband, according to background characteristics, Cambodia 2014

| Background characteristic        | Person who decides how the wife's cash earnings are used: |                          |                |       |         | Wife's cash earnings compared with husband's cash earnings: |      |      |                |                         |                    | Total | Number of women |
|----------------------------------|---|--------------------------|----------------|-------|---------|---|------|------|----------------|-------------------------|--------------------|-------|-----------------|
|                                  | Mainly wife   | Wife and husband jointly | Mainly husband | Other | Missing | Total   | More | Less | About the same | Husband has no earnings | Don't know/missing |       |                 |
| <b>Age</b>                       |   |                          |                |       |         |   |      |      |                |                         |                    |       |                 |
| 15-19                            | 63.7  | 33.6                     | 2.1            | 0.7   | 0.0     | 100.0   | 9.8  | 64.0 | 26.2           | 0.0                     | 0.0                | 100.0 | 287             |
| 20-24                            | 71.1  | 27.0                     | 1.0            | 0.9   | 0.0     | 100.0   | 14.6 | 55.2 | 29.8           | 0.4                     | 0.0                | 100.0 | 1,247           |
| 25-29                            | 71.0  | 27.5                     | 1.4            | 0.1   | 0.0     | 100.0   | 15.9 | 49.0 | 34.4           | 0.6                     | 0.2                | 100.0 | 1,628           |
| 30-34                            | 74.2  | 23.7                     | 1.9            | 0.2   | 0.0     | 100.0   | 16.2 | 49.9 | 33.2           | 0.5                     | 0.2                | 100.0 | 2,054           |
| 35-39                            | 75.1  | 23.5                     | 1.3            | 0.0   | 0.0     | 100.0   | 18.9 | 45.4 | 35.0           | 0.7                     | 0.0                | 100.0 | 1,232           |
| 40-44                            | 77.1  | 20.9                     | 1.8            | 0.0   | 0.2     | 100.0   | 17.4 | 42.7 | 38.8           | 0.7                     | 0.4                | 100.0 | 1,324           |
| 45-49                            | 75.4  | 23.4                     | 1.2            | 0.0   | 0.0     | 100.0   | 13.7 | 41.2 | 42.6           | 2.2                     | 0.3                | 100.0 | 1,141           |
| <b>Number of living children</b> |   |                          |                |       |         |   |      |      |                |                         |                    |       |                 |
| 0                                | 71.0  | 26.5                     | 1.6            | 0.9   | 0.0     | 100.0   | 18.1 | 50.8 | 30.6           | 0.5                     | 0.0                | 100.0 | 849             |
| 1-2                              | 73.1  | 25.4                     | 1.2            | 0.2   | 0.1     | 100.0   | 16.5 | 49.2 | 33.5           | 0.6                     | 0.2                | 100.0 | 4,403           |
| 3-4                              | 74.8  | 23.2                     | 1.9            | 0.1   | 0.0     | 100.0   | 15.5 | 45.7 | 37.8           | 0.8                     | 0.2                | 100.0 | 2,716           |
| 5+                               | 74.1  | 24.1                     | 1.7            | 0.0   | 0.0     | 100.0   | 12.6 | 48.0 | 37.8           | 1.5                     | 0.1                | 100.0 | 945             |
| <b>Residence</b>                 |   |                          |                |       |         |   |      |      |                |                         |                    |       |                 |
| Urban                            | 71.7  | 27.1                     | 1.1            | 0.2   | 0.0     | 100.0   | 20.2 | 41.7 | 36.8           | 1.2                     | 0.1                | 100.0 | 1,414           |
| Rural                            | 73.9  | 24.3                     | 1.6            | 0.2   | 0.1     | 100.0   | 15.1 | 49.3 | 34.7           | 0.7                     | 0.2                | 100.0 | 7,499           |
| <b>Province</b>                  |   |                          |                |       |         |   |      |      |                |                         |                    |       |                 |
| Banteay Meanchey                 | 35.8  | 62.7                     | 1.0            | 0.0   | 0.5     | 100.0   | 6.8  | 67.5 | 25.1           | 0.0                     | 0.6                | 100.0 | 412             |
| Kampong Cham                     | 87.6  | 10.8                     | 1.6            | 0.0   | 0.0     | 100.0   | 11.0 | 46.1 | 42.4           | 0.6                     | 0.0                | 100.0 | 1,065           |
| Kampong Chhnang                  | 43.5  | 54.6                     | 1.9            | 0.0   | 0.0     | 100.0   | 13.8 | 48.4 | 37.8           | 0.0                     | 0.0                | 100.0 | 381             |
| Kampong Speu                     | 77.5  | 20.7                     | 0.9            | 0.9   | 0.0     | 100.0   | 22.4 | 37.4 | 39.0           | 0.6                     | 0.6                | 100.0 | 765             |
| Kampong Thom                     | 90.3  | 9.2                      | 0.2            | 0.2   | 0.0     | 100.0   | 11.5 | 47.4 | 40.4           | 0.6                     | 0.0                | 100.0 | 477             |
| Kandal                           | 77.6  | 22.1                     | 0.2            | 0.0   | 0.0     | 100.0   | 27.1 | 46.7 | 26.1           | 0.1                     | 0.0                | 100.0 | 708             |
| Kratie                           | 80.6  | 16.8                     | 2.0            | 0.0   | 0.6     | 100.0   | 9.7  | 68.1 | 20.3           | 1.2                     | 0.7                | 100.0 | 200             |
| Phnom Penh                       | 70.7  | 28.0                     | 0.8            | 0.4   | 0.0     | 100.0   | 20.0 | 45.4 | 33.2           | 1.5                     | 0.0                | 100.0 | 862             |
| Prey Veng                        | 78.9  | 20.7                     | 0.3            | 0.0   | 0.0     | 100.0   | 12.2 | 53.3 | 33.7           | 0.8                     | 0.0                | 100.0 | 732             |
| Pursat                           | 80.4  | 18.7                     | 0.8            | 0.0   | 0.0     | 100.0   | 12.9 | 58.8 | 28.0           | 0.3                     | 0.0                | 100.0 | 300             |
| Siem Reap                        | 66.5  | 31.5                     | 1.7            | 0.3   | 0.0     | 100.0   | 24.8 | 39.7 | 35.0           | 0.6                     | 0.0                | 100.0 | 460             |
| Svay Rieng                       | 89.7  | 7.7                      | 1.4            | 1.2   | 0.0     | 100.0   | 12.6 | 41.0 | 44.6           | 1.8                     | 0.0                | 100.0 | 421             |
| Takeo                            | 70.8  | 18.4                     | 10.4           | 0.4   | 0.0     | 100.0   | 27.0 | 47.2 | 24.7           | 1.1                     | 0.0                | 100.0 | 395             |
| Otdar Meanchey                   | 66.7  | 31.5                     | 1.6            | 0.0   | 0.2     | 100.0   | 6.5  | 44.1 | 48.4           | 0.9                     | 0.2                | 100.0 | 175             |
| Battambang/Pailin                | 79.4  | 18.8                     | 1.8            | 0.0   | 0.0     | 100.0   | 15.8 | 43.0 | 39.7           | 0.4                     | 1.0                | 100.0 | 490             |
| Kampot/Kep                       | 91.5  | 7.8                      | 0.7            | 0.0   | 0.0     | 100.0   | 12.7 | 64.0 | 20.6           | 2.4                     | 0.3                | 100.0 | 451             |
| Preah Sihanouk/<br>Koh Kong      | 53.1  | 46.3                     | 0.5            | 0.0   | 0.0     | 100.0   | 16.7 | 44.2 | 38.5           | 0.6                     | 0.0                | 100.0 | 187             |
| Preah Vihear/<br>Stung Treng     | 55.8  | 44.0                     | 0.0            | 0.0   | 0.1     | 100.0   | 11.3 | 57.4 | 30.4           | 0.0                     | 0.9                | 100.0 | 193             |
| Mondul Kiri/<br>Ratanak Kiri     | 24.0  | 72.3                     | 3.6            | 0.0   | 0.1     | 100.0   | 5.4  | 36.6 | 57.9           | 0.0                     | 0.2                | 100.0 | 239             |
| <b>Education</b>                 |   |                          |                |       |         |   |      |      |                |                         |                    |       |                 |
| No education                     | 69.7  | 27.8                     | 2.5            | 0.0   | 0.0     | 100.0   | 12.2 | 45.6 | 40.3           | 1.6                     | 0.3                | 100.0 | 1,261           |
| Primary                          | 75.2  | 23.2                     | 1.3            | 0.2   | 0.1     | 100.0   | 15.6 | 48.8 | 34.7           | 0.7                     | 0.3                | 100.0 | 4,763           |
| Secondary and higher             | 72.5  | 25.9                     | 1.3            | 0.3   | 0.0     | 100.0   | 18.1 | 48.2 | 33.1           | 0.5                     | 0.0                | 100.0 | 2,889           |
| <b>Wealth quintile</b>           |   |                          |                |       |         |   |      |      |                |                         |                    |       |                 |
| Lowest                           | 73.0  | 25.2                     | 1.6            | 0.3   | 0.0     | 100.0   | 11.0 | 53.1 | 34.4           | 1.2                     | 0.3                | 100.0 | 1,653           |
| Second                           | 75.7  | 22.9                     | 1.2            | 0.1   | 0.1     | 100.0   | 13.8 | 51.5 | 33.9           | 0.7                     | 0.2                | 100.0 | 1,777           |
| Middle                           | 75.5  | 23.2                     | 0.9            | 0.3   | 0.1     | 100.0   | 15.3 | 51.1 | 32.8           | 0.6                     | 0.2                | 100.0 | 1,681           |
| Fourth                           | 72.6  | 24.4                     | 2.7            | 0.3   | 0.0     | 100.0   | 18.7 | 44.5 | 36.2           | 0.4                     | 0.1                | 100.0 | 1,872           |
| Highest                          | 71.2  | 27.6                     | 1.1            | 0.1   | 0.0     | 100.0   | 20.0 | 41.7 | 37.2           | 0.9                     | 0.2                | 100.0 | 1,930           |
| <b>Total</b>                     | 73.5  | 24.7                     | 1.5            | 0.2   | 0.0     | 100.0   | 15.9 | 48.1 | 35.0           | 0.7                     | 0.2                | 100.0 | 8,913           |

Currently married men age 15-49 who receive cash earnings and currently married women age 15-49 whose husbands receive cash earnings were asked who decides how the husband's cash earnings are spent. Table 19.2.2 shows that 50 percent of men and 61 percent of women say that the wife mainly decides how the husband's earnings are used. Forty-one percent of men and 35 percent of women say the husband and wife decide jointly how the man's cash earnings are used.

Table 19.2.2 Control over men's cash earnings

Percent distributions of currently married men age 15-49 who receive cash earnings and of currently married women age 15-49 whose husbands receive cash earnings, by person who decides how husband's cash earnings are used, according to background characteristics, Cambodia 2014

| Background characteristic        | Men         |                          |                |       |         |       |        | Women       |                          |                |       |         |       |        |
|----------------------------------|-------------|--------------------------|----------------|-------|---------|-------|--------|-------------|--------------------------|----------------|-------|---------|-------|--------|
|                                  | Mainly wife | Husband and wife jointly | Mainly husband | Other | Missing | Total | Number | Mainly wife | Husband and wife jointly | Mainly husband | Other | Missing | Total | Number |
| <b>Age</b>                       |             |                          |                |       |         |       |        |             |                          |                |       |         |       |        |
| 15-19                            | *           | *                        | *              | *     | *       | 100.0 | 20     | 54.5        | 39.6                     | 5.3            | 0.5   | 0.1     | 100.0 | 449    |
| 20-24                            | 49.4        | 44.1                     | 6.0            | 0.4   | 0.1     | 100.0 | 292    | 59.2        | 37.8                     | 2.7            | 0.3   | 0.0     | 100.0 | 1,828  |
| 25-29                            | 48.5        | 41.6                     | 9.7            | 0.2   | 0.0     | 100.0 | 564    | 61.7        | 35.5                     | 2.8            | 0.1   | 0.0     | 100.0 | 2,240  |
| 30-34                            | 50.3        | 42.1                     | 7.6            | 0.1   | 0.0     | 100.0 | 805    | 60.8        | 34.8                     | 4.4            | 0.0   | 0.0     | 100.0 | 2,614  |
| 35-39                            | 46.9        | 42.6                     | 10.4           | 0.0   | 0.1     | 100.0 | 492    | 60.7        | 35.6                     | 3.7            | 0.0   | 0.0     | 100.0 | 1,563  |
| 40-44                            | 53.2        | 38.0                     | 8.8            | 0.0   | 0.0     | 100.0 | 546    | 63.9        | 31.7                     | 4.3            | 0.1   | 0.0     | 100.0 | 1,660  |
| 45-49                            | 50.9        | 40.6                     | 8.4            | 0.0   | 0.1     | 100.0 | 520    | 63.2        | 32.6                     | 4.2            | 0.0   | 0.0     | 100.0 | 1,463  |
| <b>Number of living children</b> |             |                          |                |       |         |       |        |             |                          |                |       |         |       |        |
| 0                                | 46.1        | 45.3                     | 8.1            | 0.5   | 0.0     | 100.0 | 307    | 56.3        | 40.1                     | 3.1            | 0.4   | 0.0     | 100.0 | 1,122  |
| 1-2                              | 50.8        | 41.0                     | 8.1            | 0.1   | 0.1     | 100.0 | 1,593  | 61.5        | 34.6                     | 3.8            | 0.1   | 0.0     | 100.0 | 5,911  |
| 3-4                              | 50.0        | 40.4                     | 9.6            | 0.0   | 0.0     | 100.0 | 1,004  | 62.1        | 34.1                     | 3.7            | 0.0   | 0.0     | 100.0 | 3,546  |
| 5+                               | 49.4        | 42.9                     | 7.6            | 0.0   | 0.1     | 100.0 | 334    | 61.5        | 34.4                     | 4.1            | 0.1   | 0.0     | 100.0 | 1,239  |
| <b>Residence</b>                 |             |                          |                |       |         |       |        |             |                          |                |       |         |       |        |
| Urban                            | 39.4        | 50.5                     | 10.0           | 0.0   | 0.1     | 100.0 | 462    | 53.5        | 39.8                     | 6.6            | 0.1   | 0.0     | 100.0 | 1,799  |
| Rural                            | 51.7        | 39.9                     | 8.3            | 0.1   | 0.0     | 100.0 | 2,776  | 62.6        | 34.1                     | 3.2            | 0.1   | 0.0     | 100.0 | 10,019 |
| <b>Province</b>                  |             |                          |                |       |         |       |        |             |                          |                |       |         |       |        |
| Banteay Meanchey                 | 93.7        | 4.5                      | 1.8            | 0.0   | 0.0     | 100.0 | 127    | 23.9        | 74.9                     | 1.1            | 0.0   | 0.0     | 100.0 | 503    |
| Kampong Cham                     | 43.2        | 42.9                     | 13.9           | 0.0   | 0.0     | 100.0 | 437    | 60.2        | 36.2                     | 3.6            | 0.0   | 0.0     | 100.0 | 1,484  |
| Kampong Chhnang                  | 13.5        | 73.6                     | 12.4           | 0.0   | 0.4     | 100.0 | 115    | 27.4        | 68.8                     | 3.7            | 0.0   | 0.0     | 100.0 | 396    |
| Kampong Speu                     | 41.7        | 50.9                     | 7.4            | 0.0   | 0.0     | 100.0 | 221    | 53.2        | 43.7                     | 2.7            | 0.5   | 0.0     | 100.0 | 837    |
| Kampong Thom                     | 91.2        | 6.9                      | 1.9            | 0.0   | 0.0     | 100.0 | 145    | 84.7        | 14.2                     | 1.1            | 0.0   | 0.0     | 100.0 | 569    |
| Kandal                           | 72.7        | 8.6                      | 18.6           | 0.0   | 0.0     | 100.0 | 288    | 76.0        | 21.8                     | 2.1            | 0.0   | 0.0     | 100.0 | 869    |
| Kratie                           | 35.3        | 45.0                     | 18.2           | 0.6   | 1.0     | 100.0 | 86     | 71.4        | 27.5                     | 0.7            | 0.2   | 0.2     | 100.0 | 356    |
| Phnom Penh                       | 30.8        | 60.4                     | 8.8            | 0.0   | 0.0     | 100.0 | 278    | 49.8        | 41.3                     | 8.8            | 0.1   | 0.0     | 100.0 | 1,070  |
| Prey Veng                        | 66.4        | 25.2                     | 7.9            | 0.4   | 0.0     | 100.0 | 246    | 73.6        | 25.9                     | 0.5            | 0.0   | 0.0     | 100.0 | 883    |
| Pursat                           | 53.8        | 36.7                     | 9.4            | 0.0   | 0.0     | 100.0 | 102    | 71.2        | 26.7                     | 1.9            | 0.2   | 0.0     | 100.0 | 424    |
| Siem Reap                        | 1.4         | 98.6                     | 0.0            | 0.0   | 0.0     | 100.0 | 188    | 53.7        | 41.8                     | 4.3            | 0.2   | 0.0     | 100.0 | 754    |
| Svay Rieng                       | 9.0         | 86.1                     | 4.0            | 0.9   | 0.0     | 100.0 | 124    | 80.0        | 17.4                     | 2.6            | 0.0   | 0.0     | 100.0 | 474    |
| Takeo                            | 62.0        | 23.9                     | 14.1           | 0.0   | 0.0     | 100.0 | 180    | 62.3        | 21.9                     | 15.5           | 0.3   | 0.0     | 100.0 | 673    |
| Otdar Meanchey                   | 0.0         | 100.0                    | 0.0            | 0.0   | 0.0     | 100.0 | 58     | 53.9        | 45.9                     | 0.2            | 0.0   | 0.0     | 100.0 | 216    |
| Battambang/Pailin                | 81.5        | 17.4                     | 1.1            | 0.0   | 0.0     | 100.0 | 242    | 77.0        | 19.5                     | 3.3            | 0.2   | 0.0     | 100.0 | 886    |
| Kampot/Kep                       | 64.0        | 30.5                     | 5.5            | 0.0   | 0.0     | 100.0 | 173    | 90.4        | 7.6                      | 2.0            | 0.0   | 0.0     | 100.0 | 563    |
| Preah Sihanouk/<br>Koh Kong      | 66.7        | 21.8                     | 11.5           | 0.0   | 0.0     | 100.0 | 74     | 43.0        | 56.1                     | 0.9            | 0.0   | 0.0     | 100.0 | 264    |
| Preah Vihear/<br>Stung Treng     | 44.7        | 51.5                     | 3.8            | 0.0   | 0.0     | 100.0 | 72     | 30.9        | 67.8                     | 1.3            | 0.0   | 0.0     | 100.0 | 314    |
| Mondul Kiri/<br>Ratanak Kiri     | 13.0        | 84.0                     | 3.0            | 0.0   | 0.0     | 100.0 | 82     | 22.1        | 73.4                     | 4.3            | 0.0   | 0.2     | 100.0 | 281    |
| <b>Education</b>                 |             |                          |                |       |         |       |        |             |                          |                |       |         |       |        |
| No education                     | 50.0        | 45.3                     | 4.7            | 0.0   | 0.0     | 100.0 | 240    | 58.0        | 36.5                     | 5.5            | 0.0   | 0.0     | 100.0 | 1,746  |
| Primary                          | 53.1        | 38.1                     | 8.7            | 0.0   | 0.1     | 100.0 | 1,528  | 62.9        | 33.7                     | 3.3            | 0.2   | 0.0     | 100.0 | 6,363  |
| Secondary and higher             | 46.6        | 44.3                     | 8.9            | 0.2   | 0.0     | 100.0 | 1,470  | 59.8        | 36.5                     | 3.7            | 0.0   | 0.0     | 100.0 | 3,709  |
| <b>Wealth quintile</b>           |             |                          |                |       |         |       |        |             |                          |                |       |         |       |        |
| Lowest                           | 53.4        | 39.3                     | 7.1            | 0.0   | 0.1     | 100.0 | 572    | 60.7        | 36.0                     | 3.1            | 0.1   | 0.0     | 100.0 | 2,270  |
| Second                           | 49.4        | 41.6                     | 8.9            | 0.2   | 0.0     | 100.0 | 615    | 64.7        | 32.8                     | 2.4            | 0.1   | 0.0     | 100.0 | 2,390  |
| Middle                           | 52.9        | 37.1                     | 9.7            | 0.2   | 0.1     | 100.0 | 664    | 62.7        | 33.8                     | 3.3            | 0.1   | 0.0     | 100.0 | 2,352  |
| Fourth                           | 51.1        | 41.5                     | 7.5            | 0.0   | 0.0     | 100.0 | 720    | 61.2        | 34.1                     | 4.6            | 0.1   | 0.0     | 100.0 | 2,381  |
| Highest                          | 43.3        | 47.4                     | 9.3            | 0.0   | 0.0     | 100.0 | 667    | 56.8        | 38.1                     | 5.1            | 0.1   | 0.0     | 100.0 | 2,424  |
| <b>Total</b>                     | 49.9        | 41.4                     | 8.5            | 0.1   | 0.0     | 100.0 | 3,238  | 61.2        | 35.0                     | 3.7            | 0.1   | 0.0     | 100.0 | 11,818 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Men in Kandal and Kratie (19 percent and 18 percent, respectively) are more likely to make decisions themselves on how to use their cash earnings than their counterparts in other provinces. More women in Takeo (16 percent) whose husbands receive cash earnings report that their husbands usually have sole authority over the use of their earnings than in other provinces. All of the married, working men interviewed in Otdar Meanchey reported that decisions on how to use their earnings were made jointly with their wives.

Table 19.3 shows the percent distribution of currently married women age 15-49 who received cash earnings in the past 12 months by the person who decides how their cash earnings are used and the percent distribution of currently married women age 15-49 whose husbands received cash earnings in the

past 12 months by the person who decides how the husband's cash earnings are used, according to the relative magnitude of the earnings of the woman and her husband.

Women who earn more than their husbands are more likely to decide how their cash earnings are used (79 percent) than women whose cash earnings are the same as those of their husband (69 percent). Women who say they earn about the same amount as their husband are more likely to make joint decisions with their husband about how their cash earnings and those of their husbands are used (30 percent and 42 percent, respectively).

**Table 19.3 Women's control over their own earnings and over those of their husbands**

Percent distribution of currently married women age 15-49 with cash earnings in the last 12 months by person who decides how the wife's cash earnings are used and percent distribution of currently married women age 15-49 whose husbands have cash earnings by person who decides how the husband's cash earnings are used, according to the relation between wife's and husband's cash earnings, Cambodia 2014

| Women's earnings relative to husband's earnings | Person who decides how the wife's cash earnings are used: |                          |                |       |         |       | Number | Person who decides how the husband's cash earnings are used: |                          |                |       |         |       | Number of women |
|---|---|--------------------------|----------------|-------|---------|-------|--------|--|--------------------------|----------------|-------|---------|-------|-----------------|
|   | Mainly wife   | Wife and husband jointly | Mainly husband | Other | Missing | Total |        | Mainly wife  | Wife and husband jointly | Mainly husband | Other | Missing | Total |                 |
| More than husband                               | 78.7  | 19.4                     | 1.8            | 0.1   | 0.0     | 100.0 | 1,422  | 67.9   | 27.2                     | 4.9            | 0.0   | 0.0     | 100.0 | 1,422           |
| Less than husband                               | 75.1  | 23.1                     | 1.6            | 0.2   | 0.0     | 100.0 | 4,290  | 60.4   | 36.0                     | 3.5            | 0.0   | 0.0     | 100.0 | 4,290           |
| Same as husband                                 | 68.8  | 29.7                     | 1.3            | 0.3   | 0.0     | 100.0 | 3,119  | 55.6   | 42.1                     | 2.1            | 0.2   | 0.0     | 100.0 | 3,119           |
| Husband has no cash earnings or did not work    | 86.3  | 13.7                     | 0.0            | 0.0   | 0.0     | 100.0 | 67     | na   | na                       | na             | na    | na      | na    | 0               |
| Woman worked but has no cash earnings           | na  | na                       | na             | na    | na      | na    | 0      | 64.3   | 33.1                     | 2.6            | 0.0   | 0.0     | 100.0 | 760             |
| Woman did not work                              | na  | na                       | na             | na    | na      | na    | 0      | 65.6   | 28.6                     | 5.6            | 0.2   | 0.0     | 100.0 | 2,211           |
| Total   | 73.5  | 24.7                     | 1.5            | 0.2   | 0.0     | 100.0 | 8,913  | 61.2   | 35.0                     | 3.7            | 0.1   | 0.0     | 100.0 | 11,818          |

Note: Total includes 17 cases where a woman does not know whether she earned more or less than her husband.

na = Not applicable

## 19.3 PARTICIPATION IN HOUSEHOLD DECISION MAKING

The ability to make decisions about their own life is important to women's empowerment. In addition to information on women's control over cash earnings, the 2014 CDHS collected information from both women and men on other measures of women's empowerment. Respondents were asked about women's role in household decision making and acceptance of wife beating. Such information provides insight into women's control over their environment and their attitudes towards gender roles, both of which are relevant to understanding women's ability to make independent decisions about their own health care and that of their children.

To assess women's decision-making autonomy, information was collected on their participation in three types of household decisions: their own health care, making large household purchases, and visiting their family or relatives. Having a final say in the decision-making process represents the highest degree of autonomy. Women are considered to participate in a decision if they usually make that decision alone or jointly with their husband. Table 19.4 shows the percent distribution of currently married women age 15-49 by the person in the household who usually makes decisions concerning these matters.

Cambodian women are usually involved in all three specific decisions, although the extent of their involvement depends on the issue being decided. Forty-six percent of women say they alone make decisions about their own health care. However, decisions about major household purchases and visits to the wife's family or relatives are usually made jointly by the husband and wife.

Married men are somewhat less likely than women to mainly make decisions about their own health care (29 percent versus 46 percent). However, 73 percent of men say they make decisions about major household purchases jointly with their wives, about the same proportion as among women (76 percent).

**Table 19.4 Participation in decision making**

Percent distribution of currently married women and currently married men age 15-49 by person who usually makes decisions about various issues, Cambodia 2014

| Decision                          | Mainly wife | Wife and husband jointly | Mainly husband | Someone else | Other | Missing | Total | Number |
|-----------------------------------|-------------|--------------------------|----------------|--------------|-------|---------|-------|--------|
| WOMEN                             |             |                          |                |              |       |         |       |        |
| Own health care                   | 46.4        | 45.1                     | 8.0            | 0.5          | 0.1   | 0.0     | 100.0 | 11,898 |
| Major household purchases         | 17.2        | 76.3                     | 5.5            | 0.9          | 0.1   | 0.0     | 100.0 | 11,898 |
| Visits to her family or relatives | 22.8        | 73.6                     | 3.4            | 0.2          | 0.0   | 0.0     | 100.0 | 11,898 |
| MEN                               |             |                          |                |              |       |         |       |        |
| Own health care                   | 24.9        | 46.0                     | 28.9           | 0.1          | 0.0   | 0.0     | 100.0 | 3,405  |
| Major household purchases         | 17.6        | 73.2                     | 8.9            | 0.3          | 0.0   | 0.0     | 100.0 | 3,405  |

Table 19.5.1 shows the percentage of married women who participate in the three decisions specified for female respondents, according to background characteristics. As noted above, a woman is considered to participate in a decision if she says she usually makes the decision alone or jointly with her husband.

Ninety-two percent of currently married women age 15-49 say they make decisions about their own health care either by themselves or jointly with their husbands, and 94 percent say they participate in decisions about major household purchases. Ninety-six percent say they participate in decisions about visits to their family or relatives. Overall, 86 percent of currently married women participate in all three decisions, and less than 2 percent do not participate in any of the three decisions.

Younger women are less likely than older women to participate in all three kinds of decisions. In addition, women employed for cash are more likely to participate in all three decisions (88 percent) than women who are employed but not for cash (79 percent). Women with children are more likely to participate in all three decisions (86-88 percent) than women with no children (80 percent).

Women in Phnom Penh and Kratie are less likely to participate in all three decisions. Almost one in five women in Takeo say they do not participate in any of the three types of decisions. Women in rural areas are more likely than those in urban areas to participate in all three decisions. Women's participation in decision making varies slightly by education and wealth quintile.

Table 19.5.1 Women's participation in decision making by background characteristics

Percentage of currently married women age 15-49 who usually make specific decisions either by themselves or jointly with their husband, by background characteristics, Cambodia 2014

| Background characteristic          | Specific decisions      |                                  |                                   | All three decisions | None of the three decisions | Number of women |
|------------------------------------|-------------------------|----------------------------------|-----------------------------------|---------------------|-----------------------------|-----------------|
|                                    | Woman's own health care | Making major household purchases | Visits to her family or relatives |                     |                             |                 |
| <b>Age</b>                         |                         |                                  |                                   |                     |                             |                 |
| 15-19                              | 89.2                    | 86.7                             | 95.3                              | 77.3                | 1.3                         | 450             |
| 20-24                              | 90.7                    | 92.0                             | 95.7                              | 82.9                | 1.2                         | 1,833           |
| 25-29                              | 92.1                    | 94.2                             | 97.4                              | 87.8                | 1.0                         | 2,249           |
| 30-34                              | 90.4                    | 93.6                             | 96.0                              | 86.0                | 1.9                         | 2,625           |
| 35-39                              | 92.5                    | 94.7                             | 96.8                              | 87.5                | 1.0                         | 1,573           |
| 40-44                              | 92.0                    | 93.5                             | 95.6                              | 87.4                | 1.7                         | 1,673           |
| 45-49                              | 92.3                    | 94.9                             | 97.3                              | 89.1                | 1.6                         | 1,495           |
| <b>Employment (last 12 months)</b> |                         |                                  |                                   |                     |                             |                 |
| Not employed                       | 88.8                    | 90.0                             | 92.7                              | 81.5                | 3.3                         | 2,218           |
| Employed for cash                  | 92.6                    | 94.5                             | 97.2                              | 88.2                | 1.1                         | 8,913           |
| Employed not for cash              | 86.4                    | 92.3                             | 98.0                              | 78.8                | 0.3                         | 766             |
| <b>Number of living children</b>   |                         |                                  |                                   |                     |                             |                 |
| 0                                  | 88.7                    | 90.4                             | 95.9                              | 80.3                | 1.0                         | 1,128           |
| 1-2                                | 91.3                    | 93.5                             | 96.4                              | 86.0                | 1.5                         | 5,942           |
| 3-4                                | 92.5                    | 94.5                             | 96.5                              | 88.2                | 1.4                         | 3,572           |
| 5+                                 | 91.8                    | 93.6                             | 96.9                              | 88.1                | 1.7                         | 1,257           |
| <b>Residence</b>                   |                         |                                  |                                   |                     |                             |                 |
| Urban                              | 84.5                    | 92.8                             | 96.4                              | 79.4                | 1.0                         | 1,818           |
| Rural                              | 92.7                    | 93.6                             | 96.4                              | 87.6                | 1.5                         | 10,080          |
| <b>Province</b>                    |                         |                                  |                                   |                     |                             |                 |
| Banteay Meanchey                   | 99.5                    | 99.1                             | 99.9                              | 98.6                | 0.0                         | 503             |
| Kampong Cham                       | 98.4                    | 98.2                             | 99.9                              | 97.0                | 0.0                         | 1,490           |
| Kampong Chhnang                    | 98.0                    | 97.1                             | 96.8                              | 94.7                | 0.4                         | 396             |
| Kampong Speu                       | 94.3                    | 96.0                             | 98.2                              | 91.3                | 0.7                         | 843             |
| Kampong Thom                       | 98.9                    | 98.7                             | 99.4                              | 97.9                | 0.3                         | 572             |
| Kandal                             | 98.9                    | 95.3                             | 97.1                              | 92.9                | 0.3                         | 870             |
| Kratie                             | 69.2                    | 94.0                             | 96.6                              | 63.7                | 0.9                         | 359             |
| Phnom Penh                         | 70.8                    | 90.5                             | 95.6                              | 65.0                | 1.0                         | 1,084           |
| Prey Veng                          | 99.5                    | 98.7                             | 99.8                              | 98.1                | 0.0                         | 889             |
| Pursat                             | 93.0                    | 93.0                             | 97.8                              | 86.6                | 0.4                         | 425             |
| Siem Reap                          | 89.3                    | 90.6                             | 94.6                              | 77.8                | 0.0                         | 765             |
| Svay Rieng                         | 89.8                    | 90.4                             | 97.7                              | 80.6                | 0.2                         | 483             |
| Takeo                              | 80.1                    | 80.6                             | 79.8                              | 76.1                | 17.0                        | 677             |
| Otdar Meanchey                     | 98.2                    | 90.2                             | 99.6                              | 89.5                | 0.2                         | 218             |
| Battambang/Pailin                  | 89.9                    | 88.4                             | 92.4                              | 79.0                | 1.3                         | 890             |
| Kampot/Kep                         | 95.8                    | 89.1                             | 97.8                              | 85.9                | 0.6                         | 574             |
| Preah Sihanouk/<br>Koh Kong        | 99.4                    | 99.3                             | 99.6                              | 98.8                | 0.0                         | 266             |
| Preah Vihear/<br>Stung Treng       | 81.0                    | 89.8                             | 96.0                              | 75.1                | 1.6                         | 314             |
| Mondul Kiri/<br>Ratanak Kiri       | 95.7                    | 95.0                             | 95.3                              | 91.5                | 1.7                         | 281             |
| <b>Education</b>                   |                         |                                  |                                   |                     |                             |                 |
| No education                       | 91.5                    | 92.2                             | 94.8                              | 86.1                | 2.7                         | 1,774           |
| Primary                            | 92.3                    | 94.2                             | 96.6                              | 87.2                | 1.1                         | 6,399           |
| Secondary and higher               | 90.0                    | 92.9                             | 96.9                              | 85.0                | 1.4                         | 3,726           |
| <b>Wealth quintile</b>             |                         |                                  |                                   |                     |                             |                 |
| Lowest                             | 92.6                    | 94.1                             | 96.7                              | 86.9                | 0.8                         | 2,294           |
| Second                             | 92.3                    | 93.7                             | 96.6                              | 87.3                | 1.4                         | 2,404           |
| Middle                             | 93.8                    | 93.4                             | 95.9                              | 88.7                | 1.8                         | 2,365           |
| Fourth                             | 92.5                    | 92.9                             | 96.1                              | 87.7                | 2.4                         | 2,393           |
| Highest                            | 86.3                    | 93.4                             | 96.8                              | 81.3                | 0.7                         | 2,443           |
| <b>Total</b>                       | <b>91.5</b>             | <b>93.5</b>                      | <b>96.4</b>                       | <b>86.3</b>         | <b>1.4</b>                  | <b>11,898</b>   |

Note: Total includes 1 missing case for employment.

Table 19.5.2 presents similar data on men's participation in decisions about their own health care and about major household purchases by background characteristics. Seventy-five percent of men participate in decisions about their own health care, and 82 percent participate in decisions about major household purchases; only 8 percent do not make decisions on either of the two issues.

Participation in both decisions does not have a clear association with age. Men who are employed for cash are less likely than those who are not employed for cash to participate in both decisions. Men who



live in urban areas and have a secondary education or higher are more likely than other men to participate in both decisions. There is no clear pattern in decision making by level of wealth. Only 16 percent of men from Banteay Meanchey participate in making decisions on both issues, while more than 90 percent of men from Kampong Chhnang, Kampong Thom, Pursat, Siem Reap, and Otdar Meanchey say they make decisions on both issues.

**Table 19.5.2 Men's participation in decision making by background characteristics**

Percentage of currently married men age 15-49 who usually make specific decisions either alone or jointly with their wife, by background characteristics, Cambodia 2014

| Background characteristic          | Specific decisions |                                  |                | Neither of the two decisions | Number of men |
|------------------------------------|--------------------|----------------------------------|----------------|------------------------------|---------------|
|                                    | Man's own health   | Making major household purchases | Both decisions |                              |               |
| <b>Age</b>                         |                    |                                  |                |                              |               |
| 15-19                              | *                  | *                                | *              | *                            | 27            |
| 20-24                              | 75.0               | 83.8                             | 66.0           | 7.3                          | 308           |
| 25-29                              | 74.4               | 80.8                             | 62.7           | 7.6                          | 591           |
| 30-34                              | 76.1               | 83.1                             | 65.6           | 6.3                          | 832           |
| 35-39                              | 78.3               | 78.5                             | 66.1           | 9.3                          | 529           |
| 40-44                              | 72.6               | 84.0                             | 64.7           | 8.1                          | 572           |
| 45-49                              | 73.2               | 83.1                             | 65.7           | 9.3                          | 545           |
| <b>Employment (last 12 months)</b> |                    |                                  |                |                              |               |
| Not employed                       | *                  | *                                | *              | *                            | 14            |
| Employed for cash                  | 74.3               | 81.9                             | 64.2           | 8.1                          | 3,238         |
| Employed not for cash              | 88.4               | 84.6                             | 76.6           | 3.6                          | 153           |
| <b>Number of living children</b>   |                    |                                  |                |                              |               |
| 0                                  | 70.3               | 81.5                             | 60.3           | 8.4                          | 333           |
| 1-2                                | 75.8               | 83.5                             | 66.2           | 6.9                          | 1,670         |
| 3-4                                | 74.6               | 79.6                             | 63.3           | 9.2                          | 1,046         |
| 5+                                 | 76.4               | 83.5                             | 67.8           | 7.9                          | 357           |
| <b>Residence</b>                   |                    |                                  |                |                              |               |
| Urban                              | 77.9               | 86.4                             | 69.3           | 5.0                          | 465           |
| Rural                              | 74.5               | 81.4                             | 64.2           | 8.3                          | 2,940         |
| <b>Province</b>                    |                    |                                  |                |                              |               |
| Banteay Meanchey                   | 15.6               | 94.0                             | 15.6           | 6.0                          | 131           |
| Kampong Cham                       | 86.5               | 75.8                             | 70.8           | 8.5                          | 474           |
| Kampong Chhnang                    | 98.9               | 96.9                             | 96.0           | 0.2                          | 115           |
| Kampong Speu                       | 89.0               | 70.8                             | 63.0           | 3.2                          | 221           |
| Kampong Thom                       | 97.1               | 99.0                             | 97.0           | 0.8                          | 146           |
| Kandal                             | 47.7               | 58.0                             | 32.3           | 26.6                         | 288           |
| Kratie                             | 70.1               | 94.8                             | 68.6           | 3.7                          | 95            |
| Phnom Penh                         | 83.0               | 87.5                             | 73.0           | 2.5                          | 279           |
| Prey Veng                          | 37.9               | 82.8                             | 37.4           | 16.8                         | 248           |
| Pursat                             | 98.2               | 94.7                             | 93.6           | 0.7                          | 109           |
| Siem Reap                          | 99.7               | 98.9                             | 98.9           | 0.3                          | 229           |
| Svay Rieng                         | 95.9               | 89.2                             | 86.5           | 1.5                          | 130           |
| Takeo                              | 66.4               | 69.0                             | 48.1           | 12.6                         | 214           |
| Otdar Meanchey                     | 99.5               | 93.6                             | 93.1           | 0.0                          | 67            |
| Battambang/Pailin                  | 46.8               | 79.4                             | 42.3           | 16.0                         | 247           |
| Kampot/Kep                         | 85.9               | 96.9                             | 84.0           | 1.1                          | 173           |
| Preah Sihanouk/Koh Kong            | 93.6               | 65.2                             | 63.3           | 4.4                          | 75            |
| Preah Vihear/Stung Treng           | 66.8               | 80.6                             | 55.0           | 7.6                          | 77            |
| Mondul Kiri/Ratanak Kiri           | 98.4               | 71.8                             | 70.9           | 0.7                          | 87            |
| <b>Education</b>                   |                    |                                  |                |                              |               |
| No education                       | 74.7               | 77.6                             | 62.3           | 10.0                         | 273           |
| Primary                            | 71.8               | 81.6                             | 61.8           | 8.5                          | 1,618         |
| Secondary and higher               | 78.4               | 83.4                             | 68.7           | 6.8                          | 1,513         |
| <b>Wealth quintile</b>             |                    |                                  |                |                              |               |
| Lowest                             | 77.6               | 81.0                             | 67.4           | 8.8                          | 618           |
| Second                             | 76.3               | 84.6                             | 67.3           | 6.4                          | 665           |
| Middle                             | 69.8               | 81.0                             | 61.1           | 10.3                         | 709           |
| Fourth                             | 72.7               | 77.9                             | 59.1           | 8.5                          | 735           |
| Highest                            | 79.1               | 86.3                             | 70.5           | 5.1                          | 677           |
| <b>Total</b>                       | <b>75.0</b>        | <b>82.1</b>                      | <b>64.9</b>    | <b>7.8</b>                   | <b>3,405</b>  |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

## 19.4 OWNERSHIP OF ASSETS

Ownership and control of assets by women and men influence their individual participation in development processes at all levels. Lack of assets makes women vulnerable to various forms of violence and lessens their decision-making power in the household. Tradition and low economic status limit women's ownership of productive assets such as land and housing. Ownership of assets confers additional economic value, status, and bargaining power.

Table 19.6.1 shows the percent distribution of women age 15-49 by ownership of a house and land, according to background characteristics. Owning a house is more common among women than owning land. Overall, 62 percent of women own a house and 54 percent own land. The majority of women who do own assets own them jointly; 43 percent of women own a house jointly, and 35 percent own land jointly.

There are variations in ownership of a house and land by age, residence, region, education, and wealth. Ownership of houses and land increases with age. Eighty percent of young women age 15-19 do not own a house, and 82 percent do not own land. Ownership of a house or land is more common in rural than in urban areas: 58 percent and 34 percent of urban and rural women, respectively, do not own a house, and 65 percent and 41 percent, respectively, do not own land.

Fifteen percent of women in Kandal own a house alone and 15 percent own land alone, among the highest percentages in the country. Women in Phnom Penh are most likely not to own a house (65 percent), and women in Preah Sihanouk/Koh Kong are most likely not to own land (80 percent). The likelihood of owning either a house or land decreases with increasing education. The percentage of women with a secondary education or higher who do not own a house (54 percent) is more than double that of women with no education (21 percent). Fifty-three percent of women in the highest wealth quintile do not own a house, as compared with 29 percent of women in the lowest quintile. In addition, 60 percent of women in the highest quintile do not own land, compared with 39 percent in the lowest quintile.

The results indicate that tradition is likely to play a larger role in asset ownership than women's socioeconomic status. These findings might be explained by the fact that in general respondents who live in urban areas are more educated and wealthier than their rural counterparts, and they are probably also more likely to rent a place to live and to not own any land.

The pattern of ownership of land among men is similar to that among women with the exception that slightly fewer men than women own a house and land (Table 19.6.2). Overall, 49 percent of men age 15-49 do not own a house (compared with 39 percent of women) and 49 percent do not own land (compared with 46 percent of women). As is true for women, ownership of both housing and land increases with age among men. A larger proportion of men in rural areas own a house and land than their counterparts in urban areas. Men in Phnom Penh are most likely not to own a house (72 percent) or land (64 percent). Men in Banteay Meanchey are least likely not to own a house (34 percent), and men in Kampong Speu are least likely not to own land (32 percent). Similar to women, education and wealth are negatively associated with land and house ownership among men.

Table 19.6.1 Ownership of assets: Women

Percent distribution of women age 15-49 by ownership of housing and land, according to background characteristics, Cambodia 2014

| Background characteristic    | Percentage who own a house: |         |                   |                                    |         |       | Percentage who own land: |         |                   |                                 |         |       | Number |
|------------------------------|-----------------------------|---------|-------------------|------------------------------------|---------|-------|--------------------------|---------|-------------------|---------------------------------|---------|-------|--------|
|                              | Alone                       | Jointly | Alone and jointly | Percent-age who do not own a house | Missing | Total | Alone                    | Jointly | Alone and jointly | Percent-age who do not own land | Missing | Total |        |
| <b>Age</b>                   |                             |         |                   |                                    |         |       |                          |         |                   |                                 |         |       |        |
| 15-19                        | 1.9                         | 13.8    | 4.1               | 80.2                               | 0.0     | 100.0 | 3.0                      | 11.2    | 3.8               | 82.0                            | 0.0     | 100.0 | 2,893  |
| 20-24                        | 4.2                         | 25.3    | 7.2               | 63.3                               | 0.0     | 100.0 | 7.8                      | 22.6    | 5.9               | 63.8                            | 0.0     | 100.0 | 3,017  |
| 25-29                        | 5.8                         | 43.2    | 9.8               | 41.2                               | 0.0     | 100.0 | 10.1                     | 35.3    | 7.4               | 47.3                            | 0.0     | 100.0 | 2,836  |
| 30-34                        | 7.2                         | 55.5    | 13.1              | 24.2                               | 0.0     | 100.0 | 10.2                     | 44.6    | 11.3              | 33.9                            | 0.0     | 100.0 | 3,046  |
| 35-39                        | 12.4                        | 61.8    | 12.5              | 13.3                               | 0.0     | 100.0 | 12.8                     | 49.3    | 10.2              | 27.6                            | 0.0     | 100.0 | 1,839  |
| 40-44                        | 13.8                        | 61.5    | 13.8              | 10.9                               | 0.0     | 100.0 | 15.0                     | 50.0    | 11.5              | 23.6                            | 0.0     | 100.0 | 2,030  |
| 45-49                        | 16.7                        | 59.9    | 15.0              | 8.3                                | 0.1     | 100.0 | 17.8                     | 48.7    | 13.1              | 20.2                            | 0.2     | 100.0 | 1,916  |
| <b>Residence</b>             |                             |         |                   |                                    |         |       |                          |         |                   |                                 |         |       |        |
| Urban                        | 6.2                         | 30.0    | 5.7               | 58.1                               | 0.0     | 100.0 | 7.1                      | 24.2    | 3.6               | 65.1                            | 0.0     | 100.0 | 3,251  |
| Rural                        | 8.3                         | 46.3    | 11.3              | 34.0                               | 0.0     | 100.0 | 10.9                     | 37.9    | 9.7               | 41.4                            | 0.0     | 100.0 | 14,327 |
| <b>Province</b>              |                             |         |                   |                                    |         |       |                          |         |                   |                                 |         |       |        |
| Banteay Meanchey             | 7.1                         | 52.7    | 7.9               | 32.3                               | 0.0     | 100.0 | 8.4                      | 48.1    | 7.9               | 35.6                            | 0.0     | 100.0 | 689    |
| Kampong Cham                 | 8.8                         | 43.9    | 3.4               | 43.8                               | 0.0     | 100.0 | 9.2                      | 36.5    | 3.1               | 51.0                            | 0.1     | 100.0 | 2,021  |
| Kampong Chhnang              | 5.3                         | 43.5    | 19.7              | 31.6                               | 0.0     | 100.0 | 3.9                      | 28.8    | 18.9              | 48.4                            | 0.0     | 100.0 | 662    |
| Kampong Speu                 | 8.7                         | 70.9    | 7.2               | 13.1                               | 0.0     | 100.0 | 16.3                     | 62.1    | 6.0               | 15.5                            | 0.0     | 100.0 | 1,196  |
| Kampong Thom                 | 7.1                         | 53.9    | 3.7               | 35.3                               | 0.0     | 100.0 | 6.4                      | 48.2    | 1.7               | 43.8                            | 0.0     | 100.0 | 851    |
| Kandal                       | 15.1                        | 47.0    | 15.9              | 22.0                               | 0.0     | 100.0 | 15.3                     | 27.3    | 10.4              | 46.9                            | 0.0     | 100.0 | 1,330  |
| Kratie                       | 3.4                         | 41.7    | 22.2              | 32.8                               | 0.0     | 100.0 | 6.1                      | 37.8    | 21.3              | 34.9                            | 0.0     | 100.0 | 488    |
| Phnom Penh                   | 6.5                         | 25.7    | 3.0               | 64.8                               | 0.0     | 100.0 | 7.8                      | 22.5    | 1.5               | 68.3                            | 0.0     | 100.0 | 1,994  |
| Prey Veng                    | 8.1                         | 14.8    | 39.4              | 37.7                               | 0.0     | 100.0 | 7.8                      | 15.0    | 38.5              | 38.6                            | 0.0     | 100.0 | 1,188  |
| Pursat                       | 8.4                         | 36.4    | 12.7              | 42.5                               | 0.0     | 100.0 | 16.8                     | 28.1    | 10.6              | 44.5                            | 0.0     | 100.0 | 631    |
| Siem Reap                    | 8.3                         | 45.7    | 15.6              | 30.3                               | 0.1     | 100.0 | 12.5                     | 19.2    | 11.7              | 56.4                            | 0.1     | 100.0 | 1,137  |
| Svay Rieng                   | 6.2                         | 59.8    | 7.2               | 26.9                               | 0.0     | 100.0 | 19.4                     | 49.6    | 5.2               | 25.8                            | 0.0     | 100.0 | 654    |
| Takeo                        | 7.7                         | 47.2    | 7.1               | 38.1                               | 0.0     | 100.0 | 9.0                      | 45.5    | 6.4               | 39.1                            | 0.0     | 100.0 | 1,082  |
| Otdar Meanchey               | 6.8                         | 54.1    | 12.5              | 26.6                               | 0.0     | 100.0 | 5.9                      | 45.9    | 10.7              | 37.5                            | 0.0     | 100.0 | 294    |
| Battambang/Pailin            | 7.6                         | 42.1    | 1.2               | 49.1                               | 0.0     | 100.0 | 11.8                     | 36.0    | 0.9               | 51.2                            | 0.0     | 100.0 | 1,333  |
| Kampot/Kep                   | 7.5                         | 47.7    | 10.6              | 34.3                               | 0.0     | 100.0 | 9.3                      | 44.9    | 8.9               | 36.9                            | 0.0     | 100.0 | 770    |
| Preah Sihanouk/<br>Koh Kong  | 4.5                         | 22.4    | 14.3              | 58.8                               | 0.0     | 100.0 | 3.9                      | 9.8     | 6.7               | 79.6                            | 0.0     | 100.0 | 422    |
| Preah Vihear/<br>Stung Treng | 8.2                         | 48.6    | 1.7               | 41.5                               | 0.0     | 100.0 | 10.1                     | 48.5    | 1.1               | 40.4                            | 0.0     | 100.0 | 462    |
| Mondul Kiri/<br>Ratanak Kiri | 3.5                         | 51.7    | 2.1               | 42.7                               | 0.0     | 100.0 | 4.0                      | 51.5    | 1.8               | 42.7                            | 0.0     | 100.0 | 372    |
| <b>Education</b>             |                             |         |                   |                                    |         |       |                          |         |                   |                                 |         |       |        |
| No education                 | 11.0                        | 55.0    | 12.5              | 21.3                               | 0.1     | 100.0 | 10.7                     | 41.4    | 10.8              | 37.0                            | 0.1     | 100.0 | 2,250  |
| Primary                      | 8.7                         | 49.4    | 12.1              | 29.8                               | 0.0     | 100.0 | 11.3                     | 40.6    | 10.2              | 37.9                            | 0.0     | 100.0 | 8,281  |
| Secondary and higher         | 6.0                         | 32.3    | 7.5               | 54.2                               | 0.0     | 100.0 | 8.8                      | 27.3    | 6.1               | 57.8                            | 0.0     | 100.0 | 7,047  |
| <b>Wealth quintile</b>       |                             |         |                   |                                    |         |       |                          |         |                   |                                 |         |       |        |
| Lowest                       | 9.8                         | 50.5    | 10.9              | 28.8                               | 0.0     | 100.0 | 11.3                     | 40.1    | 9.6               | 39.0                            | 0.0     | 100.0 | 3,143  |
| Second                       | 8.5                         | 47.5    | 11.8              | 32.2                               | 0.0     | 100.0 | 10.5                     | 39.1    | 10.0              | 40.4                            | 0.1     | 100.0 | 3,314  |
| Middle                       | 7.3                         | 44.7    | 11.6              | 36.3                               | 0.0     | 100.0 | 11.1                     | 36.6    | 10.5              | 41.8                            | 0.0     | 100.0 | 3,381  |
| Fourth                       | 8.3                         | 42.8    | 11.1              | 37.8                               | 0.0     | 100.0 | 11.2                     | 35.0    | 9.4               | 44.3                            | 0.0     | 100.0 | 3,612  |
| Highest                      | 6.1                         | 33.8    | 6.9               | 53.2                               | 0.0     | 100.0 | 7.6                      | 28.2    | 4.6               | 59.7                            | 0.0     | 100.0 | 4,128  |
| <b>Total</b>                 | 7.9                         | 43.3    | 10.3              | 38.5                               | 0.0     | 100.0 | 10.2                     | 35.4    | 8.6               | 45.8                            | 0.0     | 100.0 | 17,578 |

Table 19.6.2 Ownership of assets: Men

Percent distribution of men age 15-49 by ownership of housing and land, according to background characteristics, Cambodia 2014

| Background characteristic    | Percentage who own a house: |         |                   |                                    |       | Percentage who own land: |         |                   |                                 |         | Total | Number |
|------------------------------|-----------------------------|---------|-------------------|------------------------------------|-------|--------------------------|---------|-------------------|---------------------------------|---------|-------|--------|
|                              | Alone                       | Jointly | Alone and jointly | Percent-age who do not own a house | Total | Alone                    | Jointly | Alone and jointly | Percent-age who do not own land | Missing |       |        |
| <b>Age</b>                   |                             |         |                   |                                    |       |                          |         |                   |                                 |         |       |        |
| 15-19                        | 0.1                         | 2.8     | 1.6               | 95.5                               | 100.0 | 2.9                      | 2.4     | 1.9               | 92.8                            | 0.0     | 100.0 | 926    |
| 20-24                        | 2.2                         | 11.1    | 2.0               | 84.7                               | 100.0 | 7.9                      | 11.2    | 4.0               | 76.9                            | 0.0     | 100.0 | 835    |
| 25-29                        | 2.1                         | 32.0    | 6.7               | 59.2                               | 100.0 | 9.9                      | 30.5    | 5.5               | 54.1                            | 0.0     | 100.0 | 815    |
| 30-34                        | 5.4                         | 47.6    | 15.0              | 32.0                               | 100.0 | 11.1                     | 42.1    | 14.4              | 32.3                            | 0.0     | 100.0 | 907    |
| 35-39                        | 5.0                         | 63.7    | 16.6              | 14.8                               | 100.0 | 8.3                      | 54.6    | 14.8              | 22.3                            | 0.0     | 100.0 | 556    |
| 40-44                        | 8.5                         | 63.7    | 19.0              | 8.8                                | 100.0 | 8.9                      | 60.3    | 14.8              | 15.5                            | 0.4     | 100.0 | 595    |
| 45-49                        | 5.3                         | 68.6    | 21.4              | 4.7                                | 100.0 | 12.2                     | 58.5    | 15.8              | 13.5                            | 0.0     | 100.0 | 556    |
| <b>Residence</b>             |                             |         |                   |                                    |       |                          |         |                   |                                 |         |       |        |
| Urban                        | 1.9                         | 15.5    | 15.1              | 67.5                               | 100.0 | 5.3                      | 14.6    | 16.5              | 63.6                            | 0.0     | 100.0 | 869    |
| Rural                        | 4.1                         | 41.4    | 9.6               | 44.9                               | 100.0 | 9.1                      | 37.2    | 7.9               | 45.7                            | 0.0     | 100.0 | 4,321  |
| <b>Province</b>              |                             |         |                   |                                    |       |                          |         |                   |                                 |         |       |        |
| Banteay Meanchey             | 0.4                         | 45.0    | 20.4              | 34.2                               | 100.0 | 1.5                      | 42.7    | 20.8              | 34.9                            | 0.0     | 100.0 | 192    |
| Kampong Cham                 | 11.0                        | 40.3    | 4.2               | 44.5                               | 100.0 | 15.6                     | 27.6    | 0.9               | 55.6                            | 0.3     | 100.0 | 663    |
| Kampong Chhnang              | 3.8                         | 35.4    | 14.4              | 46.4                               | 100.0 | 7.2                      | 35.9    | 13.0              | 43.9                            | 0.0     | 100.0 | 182    |
| Kampong Speu                 | 3.9                         | 42.5    | 12.2              | 41.4                               | 100.0 | 35.1                     | 19.3    | 13.9              | 31.6                            | 0.0     | 100.0 | 323    |
| Kampong Thom                 | 1.1                         | 46.6    | 5.6               | 46.7                               | 100.0 | 1.1                      | 44.4    | 5.2               | 49.2                            | 0.0     | 100.0 | 232    |
| Kandal                       | 9.3                         | 37.8    | 10.9              | 42.0                               | 100.0 | 8.3                      | 36.0    | 7.7               | 48.0                            | 0.0     | 100.0 | 413    |
| Kratie                       | 3.3                         | 28.9    | 15.3              | 52.5                               | 100.0 | 4.8                      | 31.3    | 9.4               | 54.5                            | 0.0     | 100.0 | 143    |
| Phnom Penh                   | 1.3                         | 3.8     | 22.5              | 72.4                               | 100.0 | 5.3                      | 5.3     | 25.6              | 63.8                            | 0.0     | 100.0 | 550    |
| Prey Veng                    | 4.1                         | 10.6    | 45.3              | 40.0                               | 100.0 | 18.7                     | 9.7     | 33.4              | 38.3                            | 0.0     | 100.0 | 342    |
| Pursat                       | 4.8                         | 39.1    | 4.2               | 51.8                               | 100.0 | 7.7                      | 37.0    | 2.1               | 53.3                            | 0.0     | 100.0 | 184    |
| Siem Reap                    | 1.0                         | 41.6    | 7.0               | 50.3                               | 100.0 | 1.8                      | 40.2    | 6.1               | 51.9                            | 0.0     | 100.0 | 337    |
| Svay Rieng                   | 0.0                         | 54.8    | 1.1               | 44.1                               | 100.0 | 1.2                      | 65.8    | 0.1               | 32.9                            | 0.0     | 100.0 | 183    |
| Takeo                        | 3.1                         | 51.5    | 0.4               | 45.0                               | 100.0 | 9.6                      | 40.9    | 4.8               | 44.7                            | 0.0     | 100.0 | 334    |
| Otdar Meanchey               | 0.3                         | 52.8    | 0.3               | 46.6                               | 100.0 | 0.3                      | 50.4    | 0.6               | 48.7                            | 0.0     | 100.0 | 99     |
| Battambang/Pailin            | 0.9                         | 42.1    | 0.0               | 57.0                               | 100.0 | 2.4                      | 43.2    | 0.0               | 54.4                            | 0.0     | 100.0 | 405    |
| Kampot/Kep                   | 0.5                         | 60.5    | 1.4               | 37.6                               | 100.0 | 0.5                      | 59.0    | 1.8               | 38.7                            | 0.0     | 100.0 | 241    |
| Preah Sihanouk/<br>Koh Kong  | 1.9                         | 28.8    | 9.4               | 60.0                               | 100.0 | 2.0                      | 27.9    | 8.4               | 61.7                            | 0.0     | 100.0 | 120    |
| Preah Vihear/<br>Stung Treng | 1.6                         | 51.5    | 2.9               | 44.0                               | 100.0 | 1.6                      | 51.9    | 2.6               | 43.9                            | 0.0     | 100.0 | 112    |
| Mondul Kiri/<br>Ratanak Kiri | 0.8                         | 46.6    | 1.4               | 51.2                               | 100.0 | 0.5                      | 47.4    | 0.9               | 51.2                            | 0.0     | 100.0 | 134    |
| <b>Education</b>             |                             |         |                   |                                    |       |                          |         |                   |                                 |         |       |        |
| No education                 | 3.8                         | 53.3    | 12.4              | 30.5                               | 100.0 | 6.3                      | 45.3    | 11.4              | 37.0                            | 0.0     | 100.0 | 324    |
| Primary                      | 5.0                         | 45.7    | 10.1              | 39.3                               | 100.0 | 9.2                      | 40.5    | 8.8               | 41.4                            | 0.1     | 100.0 | 2,167  |
| Secondary and higher         | 2.7                         | 28.3    | 10.6              | 58.3                               | 100.0 | 8.2                      | 26.3    | 9.6               | 55.9                            | 0.0     | 100.0 | 2,699  |
| <b>Wealth quintile</b>       |                             |         |                   |                                    |       |                          |         |                   |                                 |         |       |        |
| Lowest                       | 6.1                         | 45.3    | 8.5               | 40.2                               | 100.0 | 8.7                      | 39.2    | 7.4               | 44.4                            | 0.2     | 100.0 | 901    |
| Second                       | 5.1                         | 45.9    | 9.1               | 39.9                               | 100.0 | 8.5                      | 40.9    | 6.6               | 44.0                            | 0.0     | 100.0 | 954    |
| Middle                       | 2.2                         | 39.7    | 10.0              | 48.0                               | 100.0 | 12.2                     | 34.7    | 8.5               | 44.6                            | 0.0     | 100.0 | 1,040  |
| Fourth                       | 3.3                         | 37.3    | 9.6               | 49.8                               | 100.0 | 8.6                      | 34.2    | 7.7               | 49.5                            | 0.0     | 100.0 | 1,124  |
| Highest                      | 2.6                         | 21.1    | 14.7              | 61.6                               | 100.0 | 4.9                      | 20.9    | 15.6              | 58.6                            | 0.0     | 100.0 | 1,171  |
| Total                        | 3.7                         | 37.1    | 10.5              | 48.6                               | 100.0 | 8.5                      | 33.4    | 9.4               | 48.7                            | 0.0     | 100.0 | 5,190  |

## 19.5 ATTITUDES TOWARDS WIFE BEATING

Another measure of women's empowerment derives from the idea that gender equity is essential to empowerment. Attitudes that view the beating of wives by husbands as justified are indicative of women's lower status. They signify acceptance of norms that give men the right to use force against women, which is a violation of women's human rights. Violence against women has serious consequences for their mental and physical well-being, including their reproductive and sexual health (Heise et al., 1999).

The 2014 CDHS gathered information on women's and men's attitudes toward wife beating, a proxy for women's status. Respondents who believe that a husband is justified in hitting or beating his wife for any of the specified reasons may believe that women are low in status both absolutely and relative to men. Such a perception could act as a barrier for women in accessing health care for themselves and their children; moreover, it could affect women's attitudes towards contraceptive use and affect their general well-being. Respondents were asked whether a husband is justified in beating his wife under a series of circumstances: if the wife burns the food, if she argues with him, if she goes out without telling him, if she

neglects the children, if she refuses to have sex with him, and if she asks him to use a condom. Table 19.7.1 summarizes women's attitudes towards wife beating in these six specific circumstances. Table 19.7.2 summarizes men's attitudes.

**Table 19.7.1 Attitude toward wife beating: Women**

Percentage of all women age 15-49 who agree that a husband is justified in hitting or beating his wife for specific reasons, by background characteristics, Cambodia 2014

| Background characteristic          | Husband is justified in hitting or beating his wife if she: |                 |                              |                       |   |                          | Percentage who agree with at least one specified reason | Number |
|------------------------------------|---|-----------------|------------------------------|-----------------------|---|--------------------------|---|--------|
|                                    | Burns the food  | Argues with him | Goes out without telling him | Neglects the children | Refuses to have sexual intercourse with him | Asks him to use a condom |   |        |
| <b>Age</b>                         |   |                 |                              |                       |   |                          |   |        |
| 15-19                              | 10.3  | 21.6            | 24.8                         | 38.9                  | 9.5   | 1.9                      | 45.9  | 2,893  |
| 20-24                              | 8.6   | 18.8            | 25.8                         | 39.1                  | 8.3   | 1.7                      | 44.8  | 3,017  |
| 25-29                              | 8.6   | 20.2            | 28.0                         | 40.2                  | 9.6   | 1.9                      | 46.4  | 2,836  |
| 30-34                              | 11.6  | 23.2            | 32.5                         | 46.6                  | 12.2  | 1.9                      | 51.9  | 3,046  |
| 35-39                              | 13.3  | 26.8            | 36.6                         | 47.0                  | 15.9  | 1.9                      | 54.4  | 1,839  |
| 40-44                              | 15.7  | 30.7            | 38.7                         | 50.2                  | 18.9  | 2.1                      | 57.9  | 2,030  |
| 45-49                              | 18.3  | 32.0            | 40.0                         | 48.8                  | 21.0  | 1.1                      | 57.4  | 1,916  |
| <b>Employment (last 12 months)</b> |   |                 |                              |                       |   |                          |   |        |
| Not employed                       | 11.4  | 21.5            | 28.0                         | 41.7                  | 10.8  | 1.6                      | 48.0  | 3,599  |
| Employed for cash                  | 11.8  | 24.4            | 32.1                         | 43.5                  | 13.1  | 1.6                      | 50.2  | 12,702 |
| Employed not for cash              | 11.9  | 24.9            | 33.3                         | 51.2                  | 15.6  | 4.3                      | 59.1  | 1,273  |
| <b>Number of living children</b>   |   |                 |                              |                       |   |                          |   |        |
| 0                                  | 9.8   | 19.3            | 23.5                         | 36.4                  | 9.2   | 1.6                      | 43.0  | 5,698  |
| 1-2                                | 10.4  | 22.8            | 31.4                         | 44.3                  | 11.9  | 1.9                      | 50.4  | 6,622  |
| 3-4                                | 14.0  | 28.0            | 38.6                         | 50.3                  | 16.2  | 1.9                      | 57.1  | 3,893  |
| 5+                                 | 19.7  | 36.1            | 42.8                         | 52.5                  | 22.5  | 2.3                      | 62.1  | 1,365  |
| <b>Marital status</b>              |   |                 |                              |                       |   |                          |   |        |
| Never married                      | 9.3   | 18.0            | 21.7                         | 34.9                  | 8.3   | 1.5                      | 41.1  | 4,428  |
| Married or living together         | 12.4  | 26.0            | 35.1                         | 47.2                  | 14.1  | 2.0                      | 53.9  | 11,898 |
| Divorced/separated/widowed         | 13.9  | 24.9            | 29.7                         | 42.1                  | 16.0  | 1.5                      | 50.1  | 1,252  |
| <b>Residence</b>                   |   |                 |                              |                       |   |                          |   |        |
| Urban                              | 6.5   | 14.4            | 21.5                         | 32.7                  | 6.3   | 0.3                      | 37.2  | 3,251  |
| Rural                              | 12.9  | 26.0            | 33.5                         | 46.2                  | 14.2  | 2.2                      | 53.4  | 14,327 |
| <b>Province</b>                    |   |                 |                              |                       |   |                          |   |        |
| Banteay Meanchey                   | 29.3  | 47.1            | 59.9                         | 76.2                  | 40.4  | 2.4                      | 82.1  | 689    |
| Kampong Cham                       | 12.2  | 28.4            | 33.5                         | 49.6                  | 13.0  | 3.9                      | 59.4  | 2,021  |
| Kampong Chhnang                    | 4.5   | 12.6            | 24.8                         | 30.8                  | 6.3   | 3.2                      | 36.8  | 662    |
| Kampong Speu                       | 15.6  | 29.8            | 36.8                         | 45.3                  | 18.6  | 1.8                      | 54.6  | 1,196  |
| Kampong Thom                       | 10.1  | 13.0            | 20.0                         | 20.4                  | 8.7   | 0.0                      | 22.9  | 851    |
| Kandal                             | 8.7   | 28.2            | 35.5                         | 45.8                  | 14.9  | 1.1                      | 52.2  | 1,330  |
| Kratie                             | 15.6  | 27.9            | 45.1                         | 61.0                  | 12.5  | 9.6                      | 71.8  | 488    |
| Phnom Penh                         | 5.1   | 9.5             | 16.8                         | 27.6                  | 4.0   | 0.0                      | 32.2  | 1,994  |
| Prey Veng                          | 1.2   | 22.5            | 27.3                         | 28.3                  | 2.8   | 0.9                      | 30.0  | 1,188  |
| Pursat                             | 26.5  | 38.1            | 46.7                         | 60.1                  | 26.0  | 2.2                      | 68.0  | 631    |
| Siem Reap                          | 4.8   | 10.9            | 11.9                         | 39.5                  | 10.4  | 2.9                      | 47.5  | 1,137  |
| Svay Rieng                         | 21.4  | 38.8            | 50.8                         | 62.0                  | 21.3  | 6.5                      | 67.3  | 654    |
| Takeo                              | 7.4   | 19.5            | 35.6                         | 41.8                  | 10.6  | 1.7                      | 47.9  | 1,082  |
| Otdar Meanchey                     | 8.0   | 37.2            | 22.0                         | 33.9                  | 10.4  | 0.1                      | 50.3  | 294    |
| Battambang/Pailin                  | 11.8  | 19.5            | 24.6                         | 50.7                  | 9.6   | 0.0                      | 56.8  | 1,333  |
| Kampot/Kep                         | 18.7  | 26.6            | 32.9                         | 49.0                  | 14.6  | 0.0                      | 56.5  | 770    |
| Preah Sihanouk/Koh Kong            | 11.8  | 21.6            | 34.9                         | 44.9                  | 10.5  | 0.5                      | 50.0  | 422    |
| Preah Vihear/Stung Treng           | 23.9  | 33.5            | 41.9                         | 55.8                  | 28.3  | 0.3                      | 65.9  | 462    |
| Mondul Kiri/Ratanak Kiri           | 21.1  | 35.5            | 41.1                         | 42.0                  | 3.2   | 0.0                      | 46.0  | 372    |
| <b>Education</b>                   |   |                 |                              |                       |   |                          |   |        |
| No education                       | 17.6  | 31.5            | 38.0                         | 50.3                  | 20.1  | 2.1                      | 58.4  | 2,250  |
| Primary                            | 14.4  | 27.7            | 36.6                         | 49.4                  | 15.5  | 2.1                      | 56.6  | 8,281  |
| Secondary and higher               | 6.8   | 17.0            | 22.9                         | 34.9                  | 7.2   | 1.5                      | 40.5  | 7,047  |
| <b>Wealth quintile</b>             |   |                 |                              |                       |   |                          |   |        |
| Lowest                             | 17.5  | 30.3            | 37.3                         | 50.1                  | 17.3  | 3.3                      | 57.6  | 3,143  |
| Second                             | 14.3  | 28.8            | 34.1                         | 47.9                  | 15.5  | 2.1                      | 54.9  | 3,314  |
| Middle                             | 12.4  | 26.0            | 33.2                         | 46.0                  | 13.9  | 2.4                      | 54.1  | 3,381  |
| Fourth                             | 10.3  | 22.9            | 33.8                         | 44.8                  | 12.5  | 1.2                      | 51.5  | 3,612  |
| Highest                            | 6.1   | 14.2            | 20.8                         | 32.6                  | 6.5   | 0.6                      | 37.3  | 4,128  |
| <b>Total</b>                       | 11.7  | 23.9            | 31.3                         | 43.7                  | 12.8  | 1.8                      | 50.4  | 17,578 |

Note: Total includes 4 missing cases on employment.

Half of women believe that a husband is justified in beating his wife for at least one of the six specified reasons. The proportions of women who believe that wife beating is justified if the wife argues with her husband, goes out without telling him, or neglects the children are 24 percent, 31 percent, and 44 percent, respectively. Slightly more than 1 in 10 women say wife beating is justified if the wife burns the food (12 percent) and refuses to have sexual intercourse with her husband (13 percent). Very few women (2 percent) believe that wife beating is justified if the wife asks her husband to use a condom.

Overall, women in rural areas, those with no schooling or a primary school education, and those in the lower wealth quintiles are more likely than other women to agree with at least one reason for wife beating. In addition, women who are employed but not paid in cash and those with five or more children are more likely than other women to agree with at least one of the reasons for wife beating. Women living in Banteay Meanchey and Kratie (82 percent and 72 percent, respectively) are most likely to agree with at least one specified reason for wife beating, and those living in Kampong Thom and Prey Veng (23 percent and 30 percent, respectively) are least likely.

Table 19.7.2 shows that men are about half as likely as women to believe that a husband is justified in beating his wife for any of the specified reasons (27 percent versus 50 percent). Only 19 percent of men age 15-49 believe that a husband is justified in beating his wife if she neglects the children, as compared with 44 percent of women. Four percent of men agree that wife beating is justified if the wife refuses to have sex with her husband, and only 2 percent believe that a husband is justified in beating his wife if she burns the food or asks him to use a condom. Eleven percent and 13 percent of men, respectively, say that a husband is justified in beating his wife if she argues with him or goes out without telling him.

There are differences among men in the percentage who believe wife beating is justified for any of the specified reasons. Formerly married men, men with five or more children, men with no schooling, men in rural areas, and men in the lowest household wealth quintile are more likely to agree with at least one of the reasons for wife beating than other men. Men who reside in Banteay Meanchey are most likely to agree with at least one of the reasons for wife beating.

Table 19.7.2 Attitude toward wife beating: Men

Percentage of all men age 15-49 who agree that a husband is justified in hitting or beating his wife for specific reasons, by background characteristics, Cambodia 2014

| Background characteristic          | Husband is justified in hitting or beating his wife if she: |                 |                              |                       |   |                          | Percentage who agree with at least one specified reason | Number |
|------------------------------------|---|-----------------|------------------------------|-----------------------|---|--------------------------|---|--------|
|                                    | Burns the food  | Argues with him | Goes out without telling him | Neglects the children | Refuses to have sexual intercourse with him | Asks him to use a condom |   |        |
| <b>Age</b>                         |   |                 |                              |                       |   |                          |   |        |
| 15-19                              | 2.2   | 11.3            | 10.8                         | 18.5                  | 4.8   | 3.4                      | 26.4  | 926    |
| 20-24                              | 2.0   | 9.9             | 10.1                         | 15.9                  | 2.3   | 2.0                      | 24.8  | 835    |
| 25-29                              | 0.6   | 7.0             | 8.9                          | 15.4                  | 1.7   | 1.5                      | 20.8  | 815    |
| 30-34                              | 1.4   | 10.6            | 14.2                         | 20.7                  | 2.9   | 2.0                      | 27.4  | 907    |
| 35-39                              | 2.1   | 16.3            | 14.9                         | 19.9                  | 5.5   | 1.5                      | 29.0  | 556    |
| 40-44                              | 2.7   | 13.1            | 14.8                         | 22.7                  | 5.1   | 3.1                      | 30.9  | 595    |
| 45-49                              | 2.5   | 12.9            | 16.6                         | 23.2                  | 6.6   | 1.3                      | 29.2  | 556    |
| <b>Employment (last 12 months)</b> |   |                 |                              |                       |   |                          |   |        |
| Not employed                       | 2.1   | 5.9             | 5.7                          | 12.1                  | 3.0   | 2.9                      | 17.2  | 372    |
| Employed for cash                  | 1.8   | 11.8            | 12.9                         | 19.4                  | 3.8   | 2.1                      | 27.2  | 4,395  |
| Employed not for cash              | 1.9   | 9.3             | 13.9                         | 22.8                  | 5.4   | 1.7                      | 27.9  | 423    |
| <b>Number of living children</b>   |   |                 |                              |                       |   |                          |   |        |
| 0                                  | 1.9   | 9.5             | 9.6                          | 16.3                  | 3.6   | 2.4                      | 24.0  | 2,043  |
| 1-2                                | 1.7   | 10.1            | 12.2                         | 18.2                  | 3.3   | 1.8                      | 24.8  | 1,725  |
| 3-4                                | 1.5   | 14.5            | 15.4                         | 24.3                  | 4.2   | 2.0                      | 31.0  | 1,058  |
| 5+                                 | 3.4   | 15.9            | 21.7                         | 24.7                  | 7.3   | 3.0                      | 35.3  | 364    |
| <b>Marital status</b>              |   |                 |                              |                       |   |                          |   |        |
| Never married                      | 2.0   | 10.3            | 9.9                          | 16.5                  | 4.0   | 2.8                      | 24.4  | 1,663  |
| Married or living together         | 1.7   | 11.5            | 13.8                         | 20.3                  | 3.7   | 1.9                      | 27.4  | 3,405  |
| Divorced/separated/widowed         | 4.0   | 15.6            | 12.2                         | 22.8                  | 7.2   | 1.8                      | 29.7  | 122    |
| <b>Residence</b>                   |   |                 |                              |                       |   |                          |   |        |
| Urban                              | 1.0   | 4.3             | 5.6                          | 8.3                   | 1.6   | 0.5                      | 12.9  | 869    |
| Rural                              | 2.0   | 12.6            | 13.9                         | 21.3                  | 4.3   | 2.5                      | 29.3  | 4,321  |
| <b>Province</b>                    |   |                 |                              |                       |   |                          |   |        |
| Banteay Meanchey                   | 6.5   | 41.6            | 23.6                         | 49.6                  | 19.6  | 4.0                      | 64.2  | 192    |
| Kampong Cham                       | 3.1   | 14.2            | 14.0                         | 20.9                  | 5.4   | 4.4                      | 35.1  | 663    |
| Kampong Chhnang                    | 3.2   | 19.3            | 14.5                         | 26.2                  | 3.5   | 2.0                      | 31.3  | 182    |
| Kampong Speu                       | 3.0   | 11.9            | 14.9                         | 21.0                  | 5.9   | 2.3                      | 28.6  | 323    |
| Kampong Thom                       | 0.0   | 1.4             | 3.8                          | 1.0                   | 0.0   | 0.0                      | 5.7   | 232    |
| Kandal                             | 1.0   | 16.2            | 24.6                         | 28.1                  | 4.0   | 2.3                      | 30.3  | 413    |
| Kratie                             | 0.0   | 3.7             | 11.2                         | 6.4                   | 5.2   | 10.0                     | 25.9  | 143    |
| Phnom Penh                         | 0.7   | 1.4             | 2.9                          | 3.9                   | 0.8   | 0.3                      | 6.5   | 550    |
| Prey Veng                          | 1.0   | 10.4            | 22.9                         | 29.6                  | 1.2   | 1.0                      | 36.1  | 342    |
| Pursat                             | 3.2   | 20.6            | 22.7                         | 39.3                  | 3.2   | 1.3                      | 46.7  | 184    |
| Siem Reap                          | 0.0   | 8.8             | 8.6                          | 5.8                   | 2.0   | 2.9                      | 18.8  | 337    |
| Svay Rieng                         | 1.5   | 18.1            | 11.7                         | 21.3                  | 4.5   | 5.9                      | 31.8  | 183    |
| Takeo                              | 5.2   | 16.3            | 13.0                         | 41.0                  | 11.1  | 2.9                      | 49.4  | 334    |
| Otdar Meanchey                     | 0.1   | 1.9             | 0.8                          | 1.6                   | 0.8   | 0.1                      | 1.9   | 99     |
| Battambang/Pailin                  | 1.2   | 4.7             | 5.6                          | 9.7                   | 0.9   | 0.3                      | 11.7  | 405    |
| Kampot/Kep                         | 0.4   | 7.5             | 11.1                         | 21.1                  | 0.9   | 0.0                      | 26.7  | 241    |
| Preah Sihanouk/Koh Kong            | 2.7   | 11.0            | 16.5                         | 20.9                  | 3.8   | 0.8                      | 27.3  | 120    |
| Preah Vihear/Stung Treng           | 0.9   | 1.4             | 0.4                          | 2.7                   | 0.8   | 0.4                      | 4.6   | 112    |
| Mondul Kiri/Ratanak Kiri           | 0.3   | 3.5             | 6.9                          | 4.1                   | 0.0   | 0.0                      | 8.8   | 134    |
| <b>Education</b>                   |   |                 |                              |                       |   |                          |   |        |
| No education                       | 0.7   | 16.1            | 20.3                         | 25.0                  | 2.7   | 2.1                      | 35.8  | 324    |
| Primary                            | 2.2   | 14.6            | 15.6                         | 22.9                  | 5.6   | 2.5                      | 32.6  | 2,167  |
| Secondary and higher               | 1.7   | 7.9             | 9.1                          | 15.4                  | 2.7   | 1.9                      | 20.5  | 2,699  |
| <b>Wealth quintile</b>             |   |                 |                              |                       |   |                          |   |        |
| Lowest                             | 1.3   | 15.9            | 14.8                         | 23.2                  | 4.4   | 3.4                      | 34.7  | 901    |
| Second                             | 1.8   | 13.4            | 12.4                         | 21.3                  | 3.2   | 2.3                      | 29.5  | 954    |
| Middle                             | 2.2   | 12.2            | 16.2                         | 24.4                  | 5.3   | 2.3                      | 31.7  | 1,040  |
| Fourth                             | 3.1   | 11.9            | 14.8                         | 21.2                  | 5.2   | 2.6                      | 28.2  | 1,124  |
| Highest                            | 0.8   | 4.1             | 5.4                          | 7.5                   | 1.6   | 0.5                      | 11.6  | 1,171  |
| <b>Total</b>                       | 1.9   | 11.2            | 12.5                         | 19.1                  | 3.9   | 2.2                      | 26.5  | 5,190  |

## 19.6 WOMEN'S EMPOWERMENT INDICATORS

Responses from women as to their participation in making household decisions and their attitude towards wife beating can be summarized into two separate indices.

The first index is the number of decisions in which women participate alone or jointly with their husband (see Table 19.5.1 for the list of decisions). This index ranges in value from 0 to 3 and is positively related to women's empowerment. It reflects the degree of decision-making control that women are able to exercise in areas that affect their lives and environments.



The second index is the number of reasons for which the respondent believes that a husband is justified in beating his wife (see Table 19.7.1 for the list of reasons). This index ranges in value from 0 to 6. A lower score on this indicator is interpreted as reflecting a greater sense of entitlement and self-esteem and higher status.

Table 19.8 presents these two indicators of women's empowerment and how they relate to each other. It shows the percentage of married women age 15-49 who participate in all decision making and the percentage of women who disagree with all of the specified reasons justifying wife beating, by the value on each of the indicators. In general, the expectation is that women who participate in making household decisions are more likely to have gender-egalitarian beliefs.

The findings on women's empowerment are mixed. Looking at the top panel of Table 19.8, one would expect the proportion of women who disagree with all reasons justifying wife beating to increase with the number of decisions in which women participate. However, the percentage is highest among the small number of women who do not participate in any decisions. The second indicator (shown in the bottom panel) shows the expected pattern; women who do not support wife beating for any reason are most likely to participate in all of the decision making in the household (87 percent).

**Table 19.8 Indicators of women's empowerment**

Percentage of currently married women age 15-49 who participate in all decision making and the percentage who disagree with all of the reasons justifying wife beating, by value on each of the indicators of women's empowerment, Cambodia 2014

| Empowerment indicator  | Percentage who participate in all decision making | Percentage who disagree with all of the reasons justifying wife beating | Number of women |
|--|---|---|-----------------|
| <b>Number of decisions in which women participate<sup>1</sup></b>        |   |   |                 |
| 0  | na  | 70.5  | 169             |
| 1-2  | na  | 40.5  | 1,456           |
| 3  | na  | 47.1  | 10,273          |
| <b>Number of reasons for which wife beating is justified<sup>2</sup></b> |   |   |                 |
| 0  | 87.2  | na  | 5,543           |
| 1-2  | 85.3  | na  | 3,360           |
| 3-4  | 86.5  | na  | 2,228           |
| 5-6  | 84.0  | na  | 767             |
| Total  | 86.3  | 46.6  | 11,898          |

na = Not applicable

<sup>1</sup> See Table 19.5.1 for the list of decisions.

<sup>2</sup> See Table 19.7.1 for the list of reasons.

## 19.7 CURRENT USE OF CONTRACEPTION BY WOMEN'S STATUS

A woman's desire and ability to control her fertility and her choice of contraceptive method are in part affected by her status in the household and her own sense of empowerment. A woman who feels that she is unable to control her life may be less likely to feel she can make and carry out decisions about her fertility. She may also feel the need to choose methods that are less obvious or do not depend on her husband's cooperation. Table 19.9 shows the distribution of currently married women by contraceptive method used, according to the two empowerment indicators.

The findings indicate that there is a positive relationship between use of contraception and participation in household decision making. For example, current use of any contraceptive method increases from 54 percent among women who do not participate in any of the household decisions to 57 percent among women who participate in all three household decisions. Women who believe that wife beating is justified for five or six specified reasons are slightly less likely to use any method of contraception than other women.



Table 19.9 Current use of contraception by women's empowerment

Percent distribution of currently married women age 15-49 by current contraceptive method, according to selected indicators of women's status, Cambodia 2014

| Empowerment indicator  | Modern methods |                   |                      |                    |  |             |                        | Not currently using | Total | Number of women |
|--|----------------|-------------------|----------------------|--------------------|--|-------------|------------------------|---------------------|-------|-----------------|
|  | Any method     | Any modern method | Female sterilization | Male sterilization | Temporary modern female methods <sup>1</sup> | Male condom | Any traditional method |                     |       |                 |
| <b>Number of decisions in which women participate<sup>2</sup></b>        |                |                   |                      |                    |  |             |                        |                     |       |                 |
| 0  | 53.7           | 43.6              | 4.8                  | 0.0                | 35.6   | 3.1         | 10.2                   | 46.3                | 100.0 | 169             |
| 1-2  | 54.7           | 34.4              | 2.7                  | 0.1                | 29.8   | 1.9         | 20.3                   | 45.3                | 100.0 | 1,456           |
| 3  | 56.6           | 39.4              | 3.1                  | 0.1                | 34.1   | 2.1         | 17.2                   | 43.4                | 100.0 | 10,273          |
| <b>Number of reasons for which wife beating is justified<sup>3</sup></b> |                |                   |                      |                    |  |             |                        |                     |       |                 |
| 0  | 55.9           | 37.8              | 2.9                  | 0.1                | 32.5   | 2.4         | 18.1                   | 44.1                | 100.0 | 5,543           |
| 1-2  | 57.2           | 39.6              | 3.8                  | 0.0                | 33.5   | 2.3         | 17.6                   | 42.8                | 100.0 | 3,360           |
| 3-4  | 57.1           | 39.6              | 2.4                  | 0.3                | 35.4   | 1.4         | 17.5                   | 42.9                | 100.0 | 2,228           |
| 5-6  | 53.4           | 40.7              | 2.7                  | 0.1                | 36.7   | 1.2         | 12.8                   | 46.6                | 100.0 | 767             |
| Total  | 56.3           | 38.8              | 3.0                  | 0.1                | 33.6   | 2.1         | 17.5                   | 43.7                | 100.0 | 11,898          |

Note: If more than one method is used, only the most effective method is considered in this tabulation.

<sup>1</sup> Pill, IUD, injectables, implants, female condom, diaphragm, foam/jelly, and lactational amenorrhea method<sup>2</sup> See Table 19.5.1 for the list of decisions.<sup>3</sup> See Table 19.7.1 for the list of reasons.

## 19.8 IDEAL FAMILY SIZE AND UNMET NEED BY WOMEN'S STATUS

The ability of women to make household decisions has important implications for their fertility preferences and the practice of family planning. Increases in women's status and empowerment are recognized as important in efforts to reduce fertility.

Table 19.10 shows how women's ideal family size and unmet need for family planning are related to the two indicators of women's status. The findings indicate that there is little variation in ideal family size and decision making; however, mean ideal family size increases slightly as number of reasons justifying wife beating increases. With respect to the relationship between unmet need and women's empowerment indicators, the findings show that unmet need is higher among women who participate in at least one of the household decisions than among women who do not participate in any. Women who believe that wife beating is justified for five or six specified reasons are more likely to have an unmet need for family planning than other women.

Table 19.10 Ideal number of children and unmet need for family planning by women's empowerment

Mean ideal number of children for women age 15-49 and the percentage of currently married women age 15-49 with an unmet need for family planning, by indicators of women's empowerment, Cambodia 2014

| Empowerment indicator  | Mean ideal number of children <sup>1</sup> | Number of women | Percentage of currently married women with an unmet need for family planning <sup>2</sup> |              |       | Number of women |
|--|--|-----------------|---|--------------|-------|-----------------|
|  |  |                 | For spacing   | For limiting | Total |                 |
| <b>Number of decisions in which women participate<sup>3</sup></b>        |  |                 |   |              |       |                 |
| 0  | 3.1  | 169             | 3.9   | 5.6          | 9.5   | 169             |
| 1-2  | 3.2  | 1,445           | 6.7   | 6.9          | 13.5  | 1,456           |
| 3  | 3.3  | 10,186          | 5.3   | 7.1          | 12.4  | 10,273          |
| <b>Number of reasons for which wife beating is justified<sup>4</sup></b> |  |                 |   |              |       |                 |
| 0  | 2.9  | 8,601           | 5.9   | 6.3          | 12.2  | 5,543           |
| 1-2  | 3.1  | 4,765           | 5.6   | 6.6          | 12.2  | 3,360           |
| 3-4  | 3.2  | 2,931           | 4.2   | 8.0          | 12.3  | 2,228           |
| 5-6  | 3.3  | 998             | 4.5   | 11.6         | 16.0  | 767             |
| Total  | 3.1  | 17,295          | 5.4   | 7.0          | 12.5  | 11,898          |

<sup>1</sup> Mean excludes respondents who gave non-numeric responses.<sup>2</sup> See Table 10.3 for the definition of unmet need for family planning.<sup>3</sup> Restricted to currently married women. See Table 19.5.1 for the list of decisions.<sup>4</sup> See Table 19.7.1 for the list of reasons.

## 19.9 REPRODUCTIVE HEALTH CARE AND WOMEN'S EMPOWERMENT STATUS

Table 19.11 examines whether women's use of antenatal, delivery, and postnatal care services from health professionals varies by their status as measured on the two indicators of women's empowerment. In societies where health care is widespread, women's empowerment may not affect their access to reproductive health services; in other societies, however, increased empowerment is likely to enhance women's ability to seek out and use health services to better meet their own reproductive health goals, including the goal of safe motherhood.

Table 19.11 shows that use of reproductive health services is not clearly related to the number of decisions in which women participate. However, mothers who agree with none of the reasons justifying wife beating are more likely to have received antenatal care from health personnel (97 percent) and assistance at delivery (93 percent) than women who agree with at least one reason. Similarly, the proportion of women who received postnatal care from a skilled provider soon after delivery is highest among those who do not justify wife beating for any reason (91 percent) and lowest among those who feel wife beating is justified for five or six reasons (83 percent).

**Table 19.11 Reproductive health care by women's empowerment**

Percentage of women age 15-49 with a live birth in the five years preceding the survey who received antenatal care, delivery assistance, and postnatal care from health personnel for the most recent birth, by indicators of women's empowerment, Cambodia 2014

| Empowerment indicator  | Percentage receiving antenatal care from a skilled provider <sup>1</sup> | Percentage receiving delivery care from a skilled provider <sup>1</sup> | Received postnatal care from health personnel within the first two days since delivery <sup>2</sup> | Number of women with a child born in the last five years |
|--|--|---|---|--|
| <b>Number of decisions in which women participate<sup>3</sup></b>        |  |   |   |  |
| 0  | 97.9   | 96.4  | 94.4  | 75   |
| 1-2  | 94.7   | 89.4  | 88.0  | 722  |
| 3  | 95.5   | 90.4  | 88.6  | 4,881  |
| <b>Number of reasons for which wife beating is justified<sup>4</sup></b> |  |   |   |  |
| 0  | 97.3   | 92.7  | 90.5  | 2,874  |
| 1-2  | 94.5   | 90.5  | 88.9  | 1,712  |
| 3-4  | 92.7   | 86.4  | 85.2  | 1,080  |
| 5-6  | 90.6   | 82.4  | 82.6  | 306  |
| Total  | 95.3   | 90.4  | 88.7  | 5,973  |

<sup>1</sup> "Skilled provider" includes doctor, nurse, midwife, or auxiliary nurse/midwife.

<sup>2</sup> Includes women who received a postnatal checkup from a doctor, nurse, midwife, community health worker, or traditional birth attendant in the first two days after the birth. Includes women who gave birth in a health facility and those who did not give birth in a health facility.

<sup>3</sup> Restricted to currently married women. See Table 19.5.1 for the list of decisions.

<sup>4</sup> See Table 19.7.1 for the list of reasons.



**Key Findings**

- One in five women age 15-49 have experienced physical violence at least once since age 15, and 9 percent experienced physical violence within the 12 months prior to the survey.
- Six percent of women age 15-49 report having experienced sexual violence at least once in their lifetime.
- Overall, 18 percent of ever-married women age 15-49 report having experienced physical or sexual violence from a spouse.
- Among ever-married women who have experienced spousal violence (physical or sexual), 48 percent reported experiencing physical injuries.
- About two in five women have sought assistance to stop the violence they have experienced.

**G**ender-based violence is defined as any act that results in, or is likely to result in, physical, sexual, or psychological harm or suffering among women, including threats of such acts and coercion or arbitrary deprivations of liberty, whether occurring in public or in private life (United Nations, 1993; United Nations, 1995). Domestic violence has negative health consequences for victims, especially with respect to the reproductive health of women and the physical, emotional, and mental health of their children. The 2014 CDHS included a domestic violence module for women to assess the problem of domestic violence in Cambodia.

## 20.1 MEASUREMENT OF VIOLENCE

Collecting valid, reliable, and ethical data on domestic violence poses particular challenges because what constitutes violence or abuse varies across cultures and among individuals. In addition, a culture of silence usually surrounds domestic violence and can affect reporting. The sensitivity of the topic is another issue. Assuring the safety of respondents and interviewers when asking about domestic violence in a familial setting, protecting women who disclose violence, and reducing the risk of double victimization of respondents as they relive their experiences are all specific ethical concerns. The responses to these challenges in the 2014 CDHS are described in the sections that follow.

### 20.1.1 Use of Valid Measures of Violence

In the 2014 CDHS, information was obtained from ever-married women on violence committed by their current and former husbands and by others. Information was collected from never-married women on violence committed by anyone. Since international research shows that intimate partner violence is one of the most common forms of violence, especially against women, information on spousal violence was measured in more detail than violence committed by other perpetrators. These measurements were made using a shortened, modified version of the Conflict Tactics Scale (Strauss, 1990). Specifically, violence by the current husband/partner for currently married women and by the most recent husband/partner for formerly married women was measured by asking all ever-married women the following set of questions:

Does (did) your (last) husband/partner ever:

- (a) Push you, shake you, or throw something at you?
- (b) Slap you?
- (c) Twist your arm or pull your hair?
- (d) Punch you with his/her fist or with something that could hurt you?
- (e) Kick you, drag you, or beat you up?
- (f) Try to choke you or burn you on purpose?
- (g) Threaten or attack you with a knife, gun, or any other weapon?
- (h) Physically force you to have sexual intercourse with him/her even when you did not want to?
- (i) Physically force you to perform any other sexual acts you did not want to?
- (j) Force you with threats or in any other way to perform sexual acts you did not want to?

For every question that a woman answered “yes,” she was asked about the frequency of the act in the 12 months preceding the survey (often, sometimes, not at all). A yes answer to one or more of items (a) to (g) above constitutes evidence of physical violence, and a yes answer to item (h), (i), or (j) constitutes evidence of sexual violence.

Similarly, emotional violence among ever-married women was measured with the following questions:

Does (did) your (last) husband/partner ever:

- (a) Say or do something to humiliate you in front of others?
- (b) Threaten to hurt or harm you or someone close to you?
- (c) Insult you or make you feel bad about yourself?

This approach of asking about specific acts to measure different forms of violence has the advantage of not being affected by different understandings of what constitutes a summary term such as “violence.” By including a wide range of acts, this approach has the additional advantage of giving the respondent multiple opportunities to disclose any experience of violence.

In addition to these questions asked only of ever-married respondents, all women were asked about physical and sexual violence from persons other than the current or most recent husband/partner. Respondents who answered yes to this question were asked who committed violence against them and the frequency of such violence during the 12 months preceding the survey. Respondents who reported experiencing different forms of violence were asked for the perpetrators of the violence.

Although this approach to questioning is generally considered to be optimal, the possibility of underreporting of violence, particularly sexual violence, cannot be entirely ruled out in any survey, and this survey is no exception.

### **20.1.2 Ethical Considerations in the 2014 CDHS**

In recognition of the challenges in collecting data on violence, the interviewers in the 2014 CDHS were given special training. The training focused on how to ask sensitive questions, ensure privacy, and

build rapport between interviewer and respondent. Rapport with the interviewer, confidentiality, and privacy are all keys to building respondents' confidence so that they can safely share their experiences with the interviewer. Also, placement of questions about violence at the end of the questionnaire provides time for the interviewer to develop a certain degree of intimacy that should further encourage respondents to share their experiences of violence, if any. In addition, the following protections were built into the survey in keeping with the World Health Organization's ethical and safety recommendations for research on domestic violence (WHO, 2001):

1. To maintain confidentiality, only one woman per household was administered the questions on violence. The random selection of one woman was done through a simple selection procedure based on the Kish grid, which was built into the Household Questionnaire (Kish, 1965).
2. As a means of obtaining additional consent beyond the initial consent provided at the start of the interview, the respondent was informed that the questions could be sensitive and was reassured regarding the confidentiality of her responses.
3. The violence module was implemented only if privacy could be obtained. The interviewers were instructed to skip the module, thank the respondent, and end the interview if they could not maintain privacy.
4. A brochure that included information on domestic violence and contact information for service centers across the country was provided to all eligible respondents after the interview was completed, irrespective of whether or not they were selected for the module. This was done to safeguard against identifying the woman selected for the module and to provide information to all respondents so that they could access the services and be informed about what to do in the event of domestic violence.

### **20.1.3 Subsample for the Violence Module**

The domestic violence module was implemented only in the subsample of households selected for the men's survey. Furthermore, in keeping with ethical requirements, only one woman per household was selected for the module, as mentioned above. As a result of these restrictions, a total of 4,307 women age 15-49 (3,245 ever-married women) completed the domestic violence module. Specially constructed weights were used to adjust for the selection of only one woman per household and to ensure that the domestic violence subsample was nationally representative. In total, only 28 women, or 0.6 percent of the subsample selected for the domestic violence module, could not be interviewed because privacy was not possible.

## **20.2 EXPERIENCE OF PHYSICAL VIOLENCE**

Table 20.1 shows the percentages of women who have ever experienced physical violence since age 15 and the percentages who experienced violence during the 12 months preceding the survey, by background characteristics. Twenty-one percent of women have experienced physical violence since age 15, and 9 percent experienced physical violence in the 12 months prior to the survey. Overall, 2 percent of women reported that they had experienced physical violence often in the past 12 months and 7 percent said they had experienced physical violence sometimes during the same period.

Table 20.1 Experience of physical violence

Percentage of women age 15-49 who have ever experienced physical violence since age 15 and percentage who have experienced violence during the 12 months preceding the survey, by background characteristics, Cambodia 2014

| Background characteristic        | Percentage who have ever experienced physical violence since age 15 <sup>1</sup> | Percentage who have experienced physical violence in the past 12 months |           |                                 | Number of women |
|----------------------------------|--|---|-----------|---------------------------------|-----------------|
|                                  |  | Often   | Sometimes | Often or sometimes <sup>2</sup> |                 |
| <b>Age</b>                       |  |   |           |                                 |                 |
| 15-19                            | 6.8  | 0.9   | 2.3       | 3.2                             | 729             |
| 20-24                            | 16.9   | 0.7   | 5.6       | 6.3                             | 687             |
| 25-29                            | 15.8   | 0.8   | 5.9       | 6.7                             | 647             |
| 30-39                            | 28.8   | 2.7   | 10.5      | 13.1                            | 1,260           |
| 40-49                            | 28.3   | 3.2   | 7.4       | 10.6                            | 985             |
| <b>Religion</b>                  |  |   |           |                                 |                 |
| Buddhist                         | 21.1   | 1.9   | 6.8       | 8.7                             | 4,117           |
| Moslem                           | 22.0   | 0.0   | 12.9      | 12.9                            | 96              |
| Christian                        | (19.4)   | (0.0)   | (3.5)     | (3.5)                           | 47              |
| Other/missing                    | 23.0   | 3.9   | 12.0      | 15.8                            | 46              |
| <b>Residence</b>                 |  |   |           |                                 |                 |
| Urban                            | 18.9   | 1.1   | 2.8       | 3.9                             | 740             |
| Rural                            | 21.6   | 2.1   | 7.8       | 9.8                             | 3,567           |
| <b>Province</b>                  |  |   |           |                                 |                 |
| Banteay Meanchey                 | 13.4   | 1.1   | 11.6      | 12.8                            | 166             |
| Kampong Cham                     | 34.0   | 3.0   | 14.9      | 17.9                            | 527             |
| Kampong Chhnang                  | 11.9   | 0.5   | 3.7       | 4.2                             | 173             |
| Kampong Speu                     | 21.3   | 2.2   | 4.7       | 6.9                             | 285             |
| Kampong Thom                     | 15.5   | 2.2   | 4.5       | 6.7                             | 196             |
| Kandal                           | 23.2   | 2.3   | 8.4       | 10.7                            | 325             |
| Kratie                           | 25.2   | 7.0   | 5.2       | 12.2                            | 119             |
| Phnom Penh                       | 19.2   | 1.2   | 1.5       | 2.7                             | 453             |
| Prey Veng                        | 12.1   | 0.0   | 5.0       | 5.0                             | 304             |
| Pursat                           | 19.0   | 0.8   | 5.0       | 5.7                             | 144             |
| Siem Reap                        | 24.8   | 2.2   | 11.4      | 13.6                            | 280             |
| Svay Rieng                       | 11.1   | 0.4   | 3.2       | 3.7                             | 159             |
| Takeo                            | 19.1   | 4.1   | 4.4       | 8.5                             | 267             |
| Otdar Meanchey                   | 19.3   | 3.8   | 10.3      | 14.1                            | 73              |
| Battambang/Pailin                | 22.4   | 0.7   | 4.8       | 5.5                             | 336             |
| Kampot/Kep                       | 19.7   | 0.6   | 7.0       | 7.7                             | 200             |
| Preah Sihanouk/<br>Koh Kong      | 22.9   | 0.8   | 6.9       | 7.8                             | 105             |
| Preah Vihear/<br>Stung Treng     | 35.4   | 3.4   | 10.7      | 14.1                            | 103             |
| Mondul Kiri/<br>Ratanak Kiri     | 14.1   | 1.5   | 5.4       | 6.8                             | 92              |
| <b>Marital status</b>            |  |   |           |                                 |                 |
| Never married                    | 6.6  | 0.1   | 1.7       | 1.8                             | 1,062           |
| Married or living together       | 24.6   | 2.1   | 9.0       | 11.0                            | 2,977           |
| Divorced/separated/<br>widowed   | 40.1   | 7.0   | 5.2       | 12.2                            | 268             |
| <b>Number of living children</b> |  |   |           |                                 |                 |
| 0                                | 9.1  | 0.5   | 2.4       | 2.8                             | 1,377           |
| 1-2                              | 22.6   | 1.9   | 8.4       | 10.3                            | 1,593           |
| 3-4                              | 29.0   | 2.6   | 9.3       | 11.9                            | 968             |
| 5+                               | 38.7   | 5.2   | 11.7      | 16.9                            | 370             |
| <b>Employment</b>                |  |   |           |                                 |                 |
| Employed for cash                | 20.8   | 2.3   | 7.0       | 9.3                             | 3,068           |
| Employed not for cash            | 29.9   | 2.2   | 8.2       | 10.4                            | 342             |
| Not employed                     | 19.0   | 0.3   | 6.1       | 6.5                             | 897             |
| <b>Education</b>                 |  |   |           |                                 |                 |
| No education                     | 31.1   | 3.2   | 13.2      | 16.4                            | 561             |
| Primary                          | 26.1   | 2.6   | 8.7       | 11.3                            | 1,991           |
| Secondary and higher             | 12.3   | 0.6   | 3.0       | 3.6                             | 1,755           |
| <b>Wealth quintile</b>           |  |   |           |                                 |                 |
| Lowest                           | 29.7   | 3.5   | 13.2      | 16.7                            | 755             |
| Second                           | 23.8   | 3.1   | 7.5       | 10.6                            | 823             |
| Middle                           | 19.8   | 1.3   | 7.9       | 9.2                             | 851             |
| Fourth                           | 17.8   | 1.2   | 4.9       | 6.0                             | 898             |
| Highest                          | 16.6   | 0.8   | 2.7       | 3.4                             | 980             |
| Total                            | 21.1   | 1.9   | 6.9       | 8.8                             | 4,307           |

Note: Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Includes violence in the past 12 months. For women who were married before age 15 and who reported physical violence by a spouse, the violence could have occurred before age 15.

<sup>2</sup> Includes women for whom frequency in the past 12 months is not known

The experience of physical violence differs by background characteristics. The percentage of women who have experienced physical violence since age 15 does not vary greatly by urban-rural residence or religion. However, it increases by age from 7 percent among those age 15-19 to 29 percent and 28 percent among those age 30-39 and 40-49, respectively. The percentage is higher among women who have five or more children (39 percent) and those who have no education (31 percent) than among other women. Women who are employed but not for cash are more likely than women who are employed for cash and those who are not employed to have experienced physical violence. Forty percent of women who are divorced, separated, or widowed and 25 percent of currently married women have experienced physical violence since age 15, as compared with 7 percent of never-married women. The percentage of women who have experienced physical violence since age 15 ranges from 17 percent among those in the highest wealth quintile to 30 percent among those in the lowest quintile. Women from Svay Rieng are least likely to have experienced physical violence since age 15 (11 percent), and women from Kampong Cham and Preah Vihear/Stung Treng are most likely to have experienced violence (34 percent and 35 percent, respectively).

The percentage of women who experienced physical violence in the past 12 months (often or sometimes) follows a similar pattern by background characteristics as that for physical violence since age 15. It increases as age increases and decreases with increasing education and wealth. Recent physical violence is substantially higher among women who work but not for cash, those who have five or more children, and those who are formerly or currently in a union. However, unlike physical violence since age 15, recent physical violence is considerably higher among women who live in rural areas than those who live in urban areas.

## 20.3 PERPETRATORS OF PHYSICAL VIOLENCE

Table 20.2 shows perpetrators of physical violence, according to women's marital status, among those who have experienced physical violence since age 15. Among ever-married women, the most commonly reported perpetrator of physical violence is their current husband or partner (59 percent), followed by their mother/stepmother (22 percent) and former husband/partner (19 percent). These findings indicate a high proportion of spousal violence.

**Table 20.2 Persons committing physical violence**

Among women age 15-49 who have experienced physical violence since age 15, percentage who report specific persons who committed the violence, according to the respondent's current marital status, Cambodia 2014

| Person   | Marital status |               | Total |
|--|----------------|---------------|-------|
|  | Ever married   | Never married |       |
| Current husband/partner  | 59.1           | na            | 54.5  |
| Former husband/partner   | 19.3           | na            | 17.8  |
| Current boyfriend  | 0.4            | 3.1           | 0.6   |
| Former boyfriend   | 0.2            | 0.4           | 0.2   |
| Father/stepfather  | 13.5           | 37.0          | 15.3  |
| Mother/stepmother  | 21.5           | 26.2          | 21.9  |
| Sister/brother   | 6.1            | 30.5          | 8.0   |
| Daughter/son   | 0.3            | 0.0           | 0.3   |
| Other relative   | 5.1            | 8.7           | 5.4   |
| Mother-in-law  | 0.1            | na            | 0.1   |
| Other in-law   | 1.1            | na            | 1.5   |
| Teacher  | 1.3            | 3.6           | 1.5   |
| Employer/someone at work   | 0.3            | 0.0           | 0.3   |
| Police/soldier   | 0.0            | 0.2           | 0.0   |
| Other  | 1.0            | 0.9           | 1.0   |
| Number women who have experienced physical violence since age 15 | 840            | 70            | 910   |
| na = Not applicable  |                |               |       |



Among never-married women who have experienced physical violence since age 15, the most common perpetrators of violence are their father/stepfather (37 percent), sister/brother (31 percent), and mother/stepmother (26 percent).

## 20.4 EXPERIENCE OF SEXUAL VIOLENCE

Table 20.3 shows the percentage of women who have experienced sexual violence ever and in the past 12 months, according to background characteristics.

The results show that 6 percent of women age 15-49 have ever experienced sexual violence, and 3 percent experienced sexual violence in the past 12 months. There are notable variations in the experience of sexual violence by age. Younger women (age 15-19) are less likely to report sexual violence ever (1 percent) and in the past 12 months (less than 1 percent) than older women. Women who have no education are more likely than other women to have experienced sexual violence ever and in the past year. The percentage of women who have ever experienced sexual violence ranges from 1 percent among those in Kampot/Kep to 13 percent among those in Kandal. Women in Kandal are more likely to have experienced recent sexual violence (10 percent) than women in other provinces.

Experience of sexual violence ever and in the past 12 months is lowest among never-married women (2 percent and less than 1 percent, respectively), women with no living children (3 percent and 1 percent, respectively), and those with a secondary education or higher (5 percent and 2 percent, respectively). There is no clear relationship between sexual violence and wealth.

## 20.5 PERPETRATORS OF SEXUAL VIOLENCE

Table 20.4 shows perpetrators of sexual violence among those who have ever experienced such violence, according to women's marital status.

Among ever-married women, current husbands/partners are the most commonly reported perpetrators of sexual violence (64 percent), followed by former husbands/partners (27 percent) and current/former boyfriends (17 percent).

The number of never-married women who have experienced sexual violence is too small to provide any meaningful analysis.

Table 20.3 Experience of sexual violence

Percentage of women age 15-49 who have ever experienced sexual violence and percentage who have experienced sexual violence in the 12 months preceding the survey, by background characteristics, Cambodia 2014

| Background characteristic        | Percentage who have experienced sexual violence: |                       | Number of women |
|----------------------------------|--|-----------------------|-----------------|
|                                  | Ever <sup>1</sup>                                | In the past 12 months |                 |
| <b>Age</b>                       |  |                       |                 |
| 15-19                            | 1.0  | 0.2                   | 729             |
| 20-24                            | 6.2  | 2.6                   | 687             |
| 25-29                            | 5.7  | 3.2                   | 647             |
| 30-39                            | 6.9  | 4.1                   | 1,260           |
| 40-49                            | 9.0  | 4.0                   | 985             |
| <b>Religion</b>                  |  |                       |                 |
| Buddhist                         | 6.2  | 3.2                   | 4,117           |
| Moslem                           | 1.1  | 0.0                   | 96              |
| Christian                        | (11.9)   | (1.5)                 | 47              |
| Other/missing                    | 3.4  | 2.4                   | 46              |
| <b>Residence</b>                 |  |                       |                 |
| Urban                            | 5.6  | 2.4                   | 740             |
| Rural                            | 6.2  | 3.2                   | 3,567           |
| <b>Province</b>                  |  |                       |                 |
| Banteay Meanchey                 | 5.8  | 3.8                   | 166             |
| Kampong Cham                     | 5.5  | 4.0                   | 527             |
| Kampong Chhnang                  | 3.8  | 1.9                   | 173             |
| Kampong Speu                     | 3.8  | 1.6                   | 285             |
| Kampong Thom                     | 2.6  | 1.2                   | 196             |
| Kandal                           | 13.2   | 9.8                   | 325             |
| Kratie                           | 8.2  | 4.4                   | 119             |
| Phnom Penh                       | 7.3  | 2.9                   | 453             |
| Prey Veng                        | 1.5  | 1.1                   | 304             |
| Pursat                           | 5.2  | 0.4                   | 144             |
| Siem Reap                        | 9.1  | 5.4                   | 280             |
| Svay Rieng                       | 0.4  | 0.4                   | 159             |
| Takeo                            | 5.7  | 2.0                   | 267             |
| Otdar Meanchey                   | 7.8  | 5.7                   | 73              |
| Battambang/Pailin                | 10.2   | 0.8                   | 336             |
| Kampot/Kep                       | 1.2  | 0.9                   | 200             |
| Preah Sihanouk/<br>Koh Kong      | 5.3  | 2.6                   | 105             |
| Preah Vihear/<br>Stung Treng     | 11.9   | 6.0                   | 103             |
| Mondul Kiri/<br>Ratanak Kiri     | 1.6  | 1.4                   | 92              |
| <b>Marital status</b>            |  |                       |                 |
| Never married                    | 2.0  | 0.4                   | 1,062           |
| Married or living together       | 6.8  | 3.9                   | 2,977           |
| Divorced/separated/<br>widowed   | 14.1   | 4.4                   | 268             |
| <b>Employment</b>                |  |                       |                 |
| Employed for cash                | 6.4  | 3.6                   | 3,068           |
| Employed not for cash            | 8.2  | 3.7                   | 342             |
| Not employed                     | 4.0  | 1.1                   | 897             |
| <b>Number of living children</b> |  |                       |                 |
| 0                                | 3.3  | 1.1                   | 1,377           |
| 1-2                              | 6.2  | 3.6                   | 1,593           |
| 3-4                              | 7.9  | 3.8                   | 968             |
| 5+                               | 11.2   | 6.1                   | 370             |
| <b>Education</b>                 |  |                       |                 |
| No education                     | 8.8  | 5.7                   | 561             |
| Primary                          | 6.3  | 3.2                   | 1,991           |
| Secondary and higher             | 5.0  | 2.1                   | 1,755           |
| <b>Wealth quintile</b>           |  |                       |                 |
| Lowest                           | 7.2  | 5.1                   | 755             |
| Second                           | 6.0  | 3.6                   | 823             |
| Middle                           | 5.6  | 2.2                   | 851             |
| Fourth                           | 6.4  | 2.3                   | 898             |
| Highest                          | 5.4  | 2.5                   | 980             |
| Total                            | 6.1  | 3.1                   | 4,307           |

Note: Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Includes violence in the past 12 months

**Table 20.4 Persons committing sexual violence**

Among women age 15-49 who have experienced sexual violence, percentage who report specific persons who committed the violence, according to the respondent's current marital status, Cambodia 2014

| Person   | Marital status |               | Total |
|--|----------------|---------------|-------|
|  | Ever married   | Never married |       |
| Current husband/partner                              | 63.8           | na            | 58.6  |
| Former husband/partner                               | 26.5           | na            | 24.4  |
| Current/former boyfriend                             | 16.7           | *             | 23.5  |
| Number of women who have experienced sexual violence | 241            | 21            | 262   |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. Women can report more than one person who committed the violence.  
na = Not applicable

## 20.6 AGE AT FIRST EXPERIENCE OF SEXUAL VIOLENCE

Table 20.5 shows the percent distribution of women age 15-49 who experienced sexual violence by specific exact ages, according to current age and current marital status. Overall, 94 percent of women have not experienced sexual violence.

Less than 1 percent of women experienced sexual violence before age 15. One percent of women experienced sexual violence by age 18, and 3 percent experienced sexual violence by age 22.

In general, higher percentages of ever-married women than never-married women experienced sexual violence by the specified ages.

**Table 20.5 Age at first experience of sexual violence**

Percentage of women age 15-49 who experienced sexual violence by specific exact ages, according to current age and current marital status, Cambodia 2014

| Background characteristic | Percentage who first experienced sexual violence by exact age: |     |     |     |     | Percentage who have not experienced sexual violence | Number of women |
|---------------------------|--|-----|-----|-----|-----|---|-----------------|
|                           | 10   | 12  | 15  | 18  | 22  |   |                 |
| <b>Age</b>                |  |     |     |     |     |   |                 |
| 15-19                     | 0.0  | 0.0 | 0.3 | na  | na  | 99.0  | 729             |
| 20-24                     | 0.4  | 0.4 | 0.6 | 1.7 | na  | 93.8  | 687             |
| 25-29                     | 0.0  | 0.4 | 0.5 | 1.4 | 2.5 | 94.3  | 647             |
| 30-39                     | 0.1  | 0.2 | 0.4 | 1.0 | 2.2 | 93.1  | 1,260           |
| 40-49                     | 0.0  | 0.0 | 0.2 | 1.0 | 3.4 | 91.0  | 985             |
| <b>Marital status</b>     |  |     |     |     |     |   |                 |
| Never married             | 0.0  | 0.0 | 0.4 | 0.7 | 1.0 | 98.0  | 1,062           |
| Ever married              | 0.1  | 0.2 | 0.4 | 1.3 | 3.4 | 92.6  | 3,245           |
| Total                     | 0.1  | 0.2 | 0.4 | 1.2 | 2.8 | 93.9  | 4,307           |

na = Not applicable

## 20.7 EXPERIENCE OF DIFFERENT FORMS OF VIOLENCE

Table 20.6 presents information on the experience of various forms of violence among women age 15-49.

Twenty-two percent of women reported that they have experienced either physical or sexual violence. Sixteen percent have experienced physical violence only, 1 percent have experienced sexual violence only, and 5 percent have experienced both physical and sexual violence. The percentage of women who have experienced physical or sexual violence generally increases with age.

**Table 20.6 Experience of different forms of violence**

Percentage of women age 15-49 who have ever experienced different forms of violence by current age, Cambodia 2014

| Age   | Physical violence only | Sexual violence only | Physical and sexual violence | Physical or sexual violence | Number of women |
|-------|------------------------|----------------------|------------------------------|-----------------------------|-----------------|
| 15-19 | 6.4                    | 0.6                  | 0.4                          | 7.5                         | 729             |
| 15-17 | 7.5                    | 0.0                  | 0.0                          | 7.5                         | 430             |
| 18-19 | 4.9                    | 1.5                  | 1.0                          | 7.4                         | 299             |
| 20-24 | 12.7                   | 2.0                  | 4.2                          | 18.9                        | 687             |
| 25-29 | 11.8                   | 1.8                  | 4.0                          | 17.6                        | 647             |
| 30-39 | 22.6                   | 0.7                  | 6.2                          | 29.5                        | 1,260           |
| 40-49 | 20.1                   | 0.7                  | 8.2                          | 29.0                        | 985             |
| Total | 16.1                   | 1.0                  | 5.0                          | 22.2                        | 4,307           |

## 20.8 VIOLENCE DURING PREGNANCY

Respondents who had ever been pregnant were asked specifically whether they had ever experienced physical violence while pregnant and, if yes, who the perpetrators of the violence were.

Table 20.7 shows that 4 percent of women experienced physical violence during pregnancy. This percentage is higher among women age 15-19 (5 percent) and those age 40-49 (6 percent). Rural women are twice as likely as their urban counterparts to have experienced physical violence while pregnant (4 percent versus 2 percent). Women who are divorced, separated, or widowed are more likely to report experiencing violence during pregnancy (10 percent) than women who are currently married (4 percent).

Women with five or more children (10 percent) are substantially more likely to report violence during pregnancy than women with fewer or no children. The experience of violence during pregnancy declines with increasing education, from 6 percent among women with no education to 3 percent among women with a secondary education or higher. Women in the two lowest wealth quintiles are more likely than those in the three higher quintiles to have experienced violence during pregnancy (6 percent versus 2-4 percent).

Table 20.7 Experience of violence during pregnancy

Among women age 15-49 who have ever been pregnant, percentage who have ever experienced physical violence during pregnancy, by background characteristics, Cambodia 2014

| Background characteristic        | Percentage who experienced violence during pregnancy | Number of women who have ever been pregnant |
|----------------------------------|--|---|
| <b>Age</b>                       |  |   |
| 15-19                            | 5.1  | 77  |
| 20-24                            | 4.1  | 415   |
| 25-29                            | 2.0  | 548   |
| 30-39                            | 3.2  | 1,138                                       |
| 40-49                            | 6.1  | 913   |
| <b>Religion</b>                  |  |   |
| Buddhist                         | 4.1  | 2,953                                       |
| Moslem                           | 0.0  | 71  |
| Christian                        | (0.6)  | 28  |
| Other/missing                    | 3.8  | 38  |
| <b>Residence</b>                 |  |   |
| Urban                            | 2.3  | 449   |
| Rural                            | 4.3  | 2,642                                       |
| <b>Province</b>                  |  |   |
| Banteay Meanchey                 | 2.8  | 118   |
| Kampong Cham                     | 4.0  | 423   |
| Kampong Chhnang                  | 2.2  | 103   |
| Kampong Speu                     | 8.9  | 226   |
| Kampong Thom                     | 4.3  | 149   |
| Kandal                           | 2.0  | 222   |
| Kratie                           | 6.5  | 90  |
| Phnom Penh                       | 1.4  | 277   |
| Prey Veng                        | 2.7  | 236   |
| Pursat                           | 5.2  | 97  |
| Siem Reap                        | 5.7  | 188   |
| Svay Rieng                       | 1.3  | 114   |
| Takeo                            | 3.8  | 190   |
| Otdar Meanchey                   | 6.2  | 61  |
| Battambang/Pailin                | 4.8  | 221   |
| Kampot/Kep                       | 3.7  | 149   |
| Preah Sihanouk/<br>Koh Kong      | 3.6  | 73  |
| Preah Vihear/<br>Stung Treng     | 7.4  | 83  |
| Mondul Kiri/<br>Ratanak Kiri     | 2.1  | 72  |
| <b>Marital status</b>            |  |   |
| Never married                    | *  | 4   |
| Married or living together       | 3.5  | 2,828                                       |
| Divorced/separated/<br>widowed   | 9.7  | 258   |
| <b>Number of living children</b> |  |   |
| 0                                | 0.0  | 160   |
| 1-2                              | 3.6  | 1,593                                       |
| 3-4                              | 3.3  | 968   |
| 5+                               | 9.5  | 370   |
| <b>Education</b>                 |  |   |
| No education                     | 5.9  | 478   |
| Primary                          | 4.3  | 1,673                                       |
| Secondary and higher             | 2.6  | 939   |
| <b>Wealth quintile</b>           |  |   |
| Lowest                           | 6.0  | 602   |
| Second                           | 5.7  | 591   |
| Middle                           | 2.9  | 649   |
| Fourth                           | 3.9  | 626   |
| Highest                          | 1.9  | 623   |
| Total                            | 4.0  | 3,090                                       |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

## 20.9 MARITAL CONTROL BY SPOUSE

Attempts by husbands to closely control and monitor their wives' behavior may be an important warning sign and correlate of violence in a relationship. A series of questions were included in the 2014 CDHS to elicit the degree of marital control exercised by husbands over their wives. Controlling behaviors most often manifest themselves in terms of extreme possessiveness, jealousy, and attempts to isolate the spouse from her family and friends. To determine degree of marital control, ever-married women were asked whether their current or former husband or partner exhibited each of the following controlling behaviors: (1) he is jealous or gets angry if she talks to other men, (2) he frequently accuses her of being unfaithful, (3) he does not permit meetings with female friends, (4) he tries to limit contact with her family, (5) he insists on knowing where she is at all times, (6) he does not give her money to cover household expenses, and (7) he does not trust her with money. Because the concentration of such behaviors is more significant than the display of any single behavior, the proportion of respondents whose husbands or partners display at least three of the specified behaviors is highlighted. Table 20.8 presents the percentage of ever-married women whose husbands or partners display each of the listed behaviors, by selected background characteristics.

The main controlling behaviors women experienced from their husbands or partners were jealousy or anger if they talked to other men (23 percent) and being accused of being unfaithful (12 percent). About 1 in 20 women experienced each of the other remaining controlling behaviors (4-5 percent each).

Seven percent of ever-married women say that their husbands or partners display three or more of these controlling behaviors. Women living in Preah Sihanouk/Koh Kong (31 percent), those in urban areas (10 percent), and those who have been previously married (18 percent) are more likely than other women to report that their husbands or partners display at least three of these controlling behaviors. Women with 0-2 living children (6 percent) and those who are not employed (5 percent) are least likely to have a husband or partner who displays three or more controlling behaviors. There is no clear pattern in the percentage of women whose husbands display at least three controlling behaviors according to education, wealth, or age. Women who say they are afraid of their husbands most of the time are much more likely to say their husbands display three or more controlling behaviors (31 percent) than women who are never afraid of their husbands (6 percent).

Table 20.8 Marital control exercised by husbands

Percentage of ever-married women age 15-49 whose husbands/partners have ever demonstrated specific types of controlling behaviors, by background characteristics, Cambodia 2014

| Background characteristic                   | Percentage of women whose husband/partner:    |  |  |  |  |                                |                                   |  |   | Number of ever-married women |
|---|---|--|--|--|--|--------------------------------|-----------------------------------|--|---|------------------------------|
|   | Is jealous or angry if she talks to other men | Frequently accuses her of being unfaithful | Does not permit her to meet her female friends | Tries to limit her contact with her family | Insists on knowing where she is at all times | Does not give her enough money | Does not trust her with any money | Displays 3 or more of the specific behaviors | Displays none of the specific behaviors |                              |
| <b>Age</b>                                  |   |  |  |  |  |                                |                                   |  |   |                              |
| 15-19                                       | 29.0  | 10.8                                       | 4.1  | 2.6  | 4.6  | 4.6                            | 4.6                               | 5.8  | 69.2                                    | 108                          |
| 20-24                                       | 29.4  | 11.8                                       | 9.3  | 3.0  | 4.1  | 5.7                            | 5.1                               | 7.3  | 64.6                                    | 461                          |
| 25-29                                       | 20.1  | 7.9  | 2.7  | 2.1  | 2.1  | 3.6                            | 3.9                               | 4.3  | 77.8                                    | 577                          |
| 30-39                                       | 23.8  | 13.7                                       | 4.8  | 4.1  | 4.1  | 4.8                            | 4.0                               | 7.2  | 71.4                                    | 1,161                        |
| 40-49                                       | 19.8  | 13.4                                       | 6.2  | 5.7  | 7.5  | 4.5                            | 5.3                               | 8.7  | 74.4                                    | 938                          |
| <b>Religion</b>                             |   |  |  |  |  |                                |                                   |  |   |                              |
| Buddhist                                    | 23.0  | 12.5                                       | 5.4  | 4.1  | 4.8  | 4.6                            | 4.6                               | 7.2  | 72.4                                    | 3,095                        |
| Moslem                                      | 19.8  | 2.0  | 3.4  | 0.5  | 0.5  | 5.7                            | 3.4                               | 3.9  | 72.5                                    | 75                           |
| Christian                                   | (29.0)  | (8.4)                                      | (14.3)   | (0.0)                                      | (2.0)  | (0.0)                          | (0.0)                             | (2.9)  | (57.2)                                  | 32                           |
| Other/missing                               | 21.0  | 12.4                                       | 5.2  | 3.7  | 6.7  | 4.0                            | 6.0                               | 8.2  | 78.2                                    | 43                           |
| <b>Residence</b>                            |   |  |  |  |  |                                |                                   |  |   |                              |
| Urban                                       | 24.8  | 11.8                                       | 10.7   | 4.6  | 5.5  | 9.0                            | 7.8                               | 9.7  | 67.7                                    | 489                          |
| Rural                                       | 22.6  | 12.3                                       | 4.5  | 3.9  | 4.6  | 3.8                            | 3.9                               | 6.6  | 73.2                                    | 2,756                        |
| <b>Province</b>                             |   |  |  |  |  |                                |                                   |  |   |                              |
| Banteay Meanchey                            | 19.1  | 8.1  | 3.0  | 3.9  | 3.1  | 1.3                            | 1.7                               | 5.9  | 80.5                                    | 123                          |
| Kampong Cham                                | 23.6  | 11.1                                       | 2.6  | 3.6  | 4.1  | 5.3                            | 4.3                               | 4.2  | 70.2                                    | 441                          |
| Kampong Chhnang                             | 26.4  | 17.2                                       | 2.5  | 2.4  | 2.0  | 4.0                            | 3.6                               | 4.1  | 73.0                                    | 109                          |
| Kampong Speu                                | 23.4  | 10.4                                       | 4.5  | 4.1  | 7.2  | 2.0                            | 2.4                               | 6.8  | 74.4                                    | 238                          |
| Kampong Thom                                | 24.1  | 10.1                                       | 2.4  | 3.3  | 1.7  | 3.0                            | 3.0                               | 4.9  | 73.4                                    | 153                          |
| Kandal                                      | 25.9  | 8.6  | 4.7  | 3.0  | 4.5  | 4.8                            | 3.3                               | 4.7  | 69.9                                    | 237                          |
| Kratie                                      | 25.3  | 18.0                                       | 7.0  | 5.5  | 3.1  | 2.4                            | 2.2                               | 8.4  | 72.4                                    | 95                           |
| Phnom Penh                                  | 24.1  | 10.4                                       | 10.5   | 5.3  | 4.9  | 7.7                            | 6.2                               | 7.9  | 69.1                                    | 301                          |
| Prey Veng                                   | 15.0  | 6.2  | 2.4  | 1.3  | 1.4  | 2.1                            | 1.9                               | 3.0  | 82.6                                    | 250                          |
| Pursat                                      | 20.0  | 13.3                                       | 1.9  | 1.7  | 3.0  | 3.4                            | 4.3                               | 4.2  | 73.4                                    | 101                          |
| Siem Reap                                   | 27.7  | 21.8                                       | 6.0  | 7.8  | 9.0  | 2.8                            | 1.9                               | 12.2   | 66.1                                    | 196                          |
| Svay Rieng                                  | 21.9  | 15.5                                       | 3.7  | 1.9  | 7.2  | 3.8                            | 2.5                               | 7.9  | 75.1                                    | 118                          |
| Takeo                                       | 21.8  | 14.0                                       | 4.2  | 3.4  | 2.2  | 4.5                            | 5.2                               | 6.7  | 76.7                                    | 194                          |
| Otdar Meanchey                              | 12.9  | 11.4                                       | 6.1  | 4.9  | 5.7  | 3.7                            | 6.1                               | 8.2  | 84.9                                    | 63                           |
| Battambang/Pailin                           | 25.2  | 13.5                                       | 8.2  | 4.0  | 6.6  | 2.2                            | 5.7                               | 7.5  | 68.7                                    | 234                          |
| Kampot/Kep                                  | 23.3  | 11.0                                       | 3.8  | 3.7  | 4.0  | 3.2                            | 4.7                               | 7.2  | 73.6                                    | 154                          |
| Preah Sihanouk/Koh Kong                     | 21.9  | 15.8                                       | 28.0   | 8.3  | 6.0  | 27.8                           | 25.1                              | 30.7   | 50.0                                    | 75                           |
| Preah Vihear/Stung Treng                    | 29.2  | 20.9                                       | 9.2  | 5.0  | 10.4   | 7.4                            | 8.7                               | 13.7   | 63.6                                    | 87                           |
| Mondul Kiri/Ratanak Kiri                    | 17.7  | 8.9  | 6.0  | 6.6  | 7.2  | 8.7                            | 8.1                               | 7.8  | 79.6                                    | 77                           |
| <b>Marital status</b>                       |   |  |  |  |  |                                |                                   |  |   |                              |
| Married or living together                  | 21.8  | 10.8                                       | 5.1  | 3.5  | 4.1  | 3.8                            | 3.6                               | 6.1  | 74.0                                    | 2,977                        |
| Divorced/separated/<br>widowed              | 35.8  | 28.0                                       | 9.7  | 9.8  | 11.5   | 13.7                           | 14.2                              | 17.5   | 54.0                                    | 268                          |
| <b>Number of living children</b>            |   |  |  |  |  |                                |                                   |  |   |                              |
| 0   | 25.2  | 9.3  | 5.9  | 3.1  | 4.8  | 3.0                            | 3.6                               | 5.5  | 72.3                                    | 314                          |
| 1-2   | 22.8  | 10.5                                       | 4.8  | 2.7  | 3.5  | 5.3                            | 4.7                               | 6.0  | 72.5                                    | 1,593                        |
| 3-4   | 20.5  | 13.3                                       | 5.7  | 4.3  | 5.5  | 4.3                            | 3.9                               | 8.0  | 75.1                                    | 968                          |
| 5+  | 27.9  | 19.0                                       | 7.3  | 9.1  | 8.0  | 3.7                            | 6.1                               | 10.5   | 64.5                                    | 370                          |
| <b>Employment</b>                           |   |  |  |  |  |                                |                                   |  |   |                              |
| Employed for cash                           | 22.9  | 12.2                                       | 5.6  | 3.9  | 5.1  | 5.0                            | 4.5                               | 7.1  | 72.3                                    | 2,485                        |
| Employed not for cash                       | 28.5  | 19.5                                       | 7.2  | 7.3  | 5.5  | 3.2                            | 4.1                               | 10.9   | 67.8                                    | 238                          |
| Not employed                                | 20.7  | 8.8  | 3.9  | 2.9  | 2.7  | 3.4                            | 4.9                               | 5.4  | 75.0                                    | 522                          |
| <b>Education</b>                            |   |  |  |  |  |                                |                                   |  |   |                              |
| No education                                | 25.4  | 16.8                                       | 5.6  | 4.6  | 4.2  | 3.7                            | 4.6                               | 8.1  | 70.1                                    | 495                          |
| Primary                                     | 22.7  | 12.7                                       | 5.2  | 4.5  | 5.4  | 5.1                            | 4.3                               | 7.8  | 72.1                                    | 1,725                        |
| Secondary and higher                        | 22.2  | 9.1  | 5.7  | 2.8  | 3.8  | 4.1                            | 4.9                               | 5.3  | 73.8                                    | 1,025                        |
| <b>Wealth quintile</b>                      |   |  |  |  |  |                                |                                   |  |   |                              |
| Lowest                                      | 27.3  | 19.0                                       | 5.9  | 4.8  | 5.8  | 3.5                            | 4.7                               | 9.1  | 68.3                                    | 620                          |
| Second                                      | 26.7  | 16.2                                       | 5.0  | 4.0  | 4.7  | 4.2                            | 3.7                               | 7.4  | 69.2                                    | 621                          |
| Middle                                      | 18.0  | 10.2                                       | 3.9  | 3.9  | 4.4  | 4.2                            | 4.6                               | 6.3  | 78.3                                    | 676                          |
| Fourth                                      | 21.4  | 6.6  | 2.8  | 3.4  | 4.0  | 4.2                            | 3.7                               | 4.7  | 74.1                                    | 659                          |
| Highest                                     | 22.0  | 9.8  | 9.5  | 3.8  | 4.8  | 6.7                            | 5.9                               | 8.0  | 71.4                                    | 670                          |
| <b>Woman afraid of husband/<br/>partner</b> |   |  |  |  |  |                                |                                   |  |   |                              |
| Afraid most of the time                     | 49.5  | 39.6                                       | 14.9   | 17.8                                       | 20.7   | 19.5                           | 23.4                              | 31.4   | 40.5                                    | 106                          |
| Sometimes afraid                            | 25.4  | 13.8                                       | 5.7  | 4.0  | 4.0  | 4.3                            | 4.0                               | 7.0  | 69.5                                    | 1,637                        |
| Never afraid                                | 18.5  | 8.6  | 4.6  | 3.1  | 4.4  | 3.9                            | 3.8                               | 5.5  | 77.6                                    | 1,495                        |
| <b>Total</b>                                | 23.0  | 12.2                                       | 5.4  | 4.0  | 4.7  | 4.6                            | 4.5                               | 7.1  | 72.4                                    | 3,245                        |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. Total includes 7 women with missing information about fear of husband. Figures in parentheses are based on 25-49 unweighted cases. Figures in parentheses are based on 25-49 unweighted cases.

## 20.10 FORMS OF SPOUSAL VIOLENCE

Different types of violence are not mutually exclusive, and women may report multiple forms of violence. Research suggests that physical violence in intimate relationships is often accompanied by psychological abuse and, in one-third to more than one-half of cases, by sexual abuse (Krug et al., 2002). Table 20.9 shows the percentage of ever-married women age 15-49 who have experienced various forms of violence by their spouse over the course of the marriage and in the 12 months preceding the survey. Note that respondents who are currently married reported on violence by their current spouse, and respondents who are widowed, divorced, or separated reported on violence by their most recent spouse. The lower panel of the table provides information on violence by any husband/partner, as opposed to only the current or most recent husband/partner.

Table 20.9 Forms of spousal violence

Percentage of ever-married women age 15-49 who have experienced various forms of violence ever or in the 12 months preceding the survey committed by their husband/partner, Cambodia 2014

| Type of violence   | Ever  | In the past 12 months |           |                    |
|--|-------|-----------------------|-----------|--------------------|
|  |       | Often                 | Sometimes | Often or sometimes |
| SPOUSAL VIOLENCE COMMITTED BY CURRENT OR MOST RECENT HUSBAND/PARTNER                   |       |                       |           |                    |
| <b>Physical violence</b>   |       |                       |           |                    |
| Any physical violence  | 17.9  | 2.3                   | 8.3       | 10.6               |
| Pushed her, shook her, or threw something at her                                       | 10.7  | 1.6                   | 4.7       | 6.3                |
| Slapped her  | 11.9  | 0.9                   | 5.6       | 6.5                |
| Twisted her arm or pulled her hair   | 6.2   | 0.9                   | 2.6       | 3.5                |
| Punched her with his fist or with something that could hurt her                        | 4.7   | 0.6                   | 2.1       | 2.7                |
| Kicked her, dragged her, or beat her up  | 5.3   | 0.6                   | 2.4       | 3.0                |
| Tried to choke her or burn her on purpose  | 0.8   | 0.1                   | 0.4       | 0.5                |
| Threatened her or attacked her with a knife, gun, or other weapon                      | 3.7   | 0.6                   | 1.7       | 2.3                |
| <b>Sexual violence</b>   |       |                       |           |                    |
| Any sexual violence  | 5.5   | 0.7                   | 3.3       | 3.9                |
| Physically forced her to have sexual intercourse with him when she did not want to     | 4.6   | 0.6                   | 2.7       | 3.3                |
| Physically forced her to perform any other sexual acts she did not want to             | 2.7   | 0.2                   | 2.0       | 2.2                |
| Forced her with threats or in any other way to perform sexual acts she did not want to | 1.7   | 0.2                   | 1.1       | 1.3                |
| <b>Emotional violence</b>  |       |                       |           |                    |
| Any emotional violence   | 24.8  | 3.5                   | 13.8      | 17.3               |
| Said or did something to humiliate her in front of others                              | 13.1  | 1.5                   | 7.9       | 9.3                |
| Threatened to hurt or harm her or someone she cared about                              | 9.5   | 1.5                   | 4.7       | 6.2                |
| Insulted her or made her feel bad about herself  | 20.4  | 3.0                   | 10.8      | 13.8               |
| <b>Economic violence</b>   |       |                       |           |                    |
| Any economic violence  | 5.8   | na                    | na        | na                 |
| Does/did not give her money to cover household expenses                                | 4.6   | na                    | na        | na                 |
| Does/did not trust her with money  | 4.5   | na                    | na        | na                 |
| Any form of physical and/or sexual violence  | 18.2  | 2.3                   | 8.7       | 10.9               |
| Any form of emotional and/or physical and/or sexual violence                           | 28.7  | 4.5                   | 15.1      | 19.6               |
| Any form of emotional and/or physical and/or sexual violence and/or economic violence  | 30.8  | na                    | na        | na                 |
| SPOUSAL VIOLENCE COMMITTED BY ANY HUSBAND/PARTNER                                      |       |                       |           |                    |
| Physical violence  | 19.2  | na                    | na        | 10.6               |
| Sexual violence  | 5.8   | na                    | na        | 3.9                |
| Physical and/or sexual violence  | 19.6  | na                    | na        | 10.9               |
| Number of ever-married women   | 3,245 | 3,245                 | 3,245     | 3,245              |

na = Not applicable

Eighteen percent of ever-married women reported ever experiencing physical violence committed by their current or most recent husband or partner, 6 percent reported sexual violence, and 25 percent reported emotional violence. Eighteen percent of women have experienced physical and/or sexual violence, and 29 percent have experienced at least one of the three forms of spousal violence. Thirty-one percent of women have experienced at least one of the four forms of spousal violence (physical, sexual, emotional and economic).

The most common form of spousal violence reported by ever-married women is being insulted or made to feel bad about themselves (20 percent) and being humiliated in front of others (13 percent). Twelve percent of women report having been slapped, and 11 percent report having been pushed, been shaken, or had something thrown at them.

Eleven percent of ever-married women reported experiencing spousal physical violence in the past 12 months, with 8 percent having experienced violence sometimes and 2 percent having experienced it often. Four percent reported having experienced spousal sexual violence in the past 12 months (3 percent sometimes and 1 percent often), and 17 percent reported having experienced spousal emotional violence during that period (14 percent sometimes and 4 percent often). Overall, 20 percent of ever-married women experienced at least one of the three forms (physical, sexual and emotional) of violence by their current or most recent husband or partner in the past year.

Some women have been married or partnered more than once. When previous husbands or partners are included as perpetrators, the percentage of ever-married women who report having ever experienced physical and/or sexual violence by any husband or partner increases to 20 percent.

## **20.11 SPOUSAL VIOLENCE BY BACKGROUND CHARACTERISTICS**

Table 20.10 shows the percentages of ever-married women age 15-49 who have experienced spousal, emotional, economic, physical, or sexual violence from their current or most recent husband by selected background characteristics. Overall, 31 percent of ever-married women have experienced at least one forms of violence.

The percentage of women who have experienced at least one form of spousal violence tends to increase with age and number of living children. It is higher among women from Siem Reap (59 percent) and Preah Vihear/Stung Treng (54 percent); among rural women (31 percent); among women who are divorced, separated, or widowed (47 percent); and among women who are employed but not for cash (45 percent). Women with a secondary education or higher and those in the wealthiest quintile are least likely to have experienced at least one form of spousal violence.



Table 20.10 Spousal violence by background characteristics

Percentage of ever-married women age 15-49 who have ever experienced emotional, physical, sexual, or economic violence committed by their husband/partner, by background characteristics, Cambodia 2014

| Background characteristic        | Emotional violence | Physical violence | Sexual violence | Economic violence | Physical and sexual | Physical and sexual and emotional | Physical or sexual | Physical or sexual or emotional | Physical or sexual or emotional or economic | Number of ever-married women |
|----------------------------------|--------------------|-------------------|-----------------|-------------------|---------------------|-----------------------------------|--------------------|---------------------------------|---|------------------------------|
| <b>Age</b>                       |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| 15-19                            | 13.5               | 7.5               | 1.5             | 4.9               | 1.5                 | 1.5                               | 7.5                | 14.9                            | 15.2  | 108                          |
| 20-24                            | 15.2               | 13.0              | 4.7             | 6.3               | 3.3                 | 2.2                               | 14.4               | 19.2                            | 22.3  | 461                          |
| 25-29                            | 18.7               | 12.5              | 4.2             | 4.4               | 3.6                 | 2.4                               | 13.1               | 22.4                            | 24.3  | 577                          |
| 30-39                            | 27.7               | 20.4              | 5.7             | 6.2               | 5.6                 | 4.8                               | 20.5               | 32.2                            | 33.9  | 1,161                        |
| 40-49                            | 30.9               | 21.7              | 6.9             | 6.2               | 6.9                 | 5.6                               | 21.7               | 34.4                            | 36.7  | 938                          |
| <b>Religion</b>                  |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| Buddhist                         | 24.8               | 17.8              | 5.5             | 5.9               | 5.2                 | 4.1                               | 18.2               | 28.7                            | 30.8  | 3,095                        |
| Moslem                           | 27.1               | 19.3              | 1.4             | 5.7               | 1.4                 | 0.0                               | 19.3               | 28.9                            | 32.4  | 75                           |
| Christian                        | (15.2)             | (15.1)            | (13.6)          | (0.0)             | (13.6)              | (11.3)                            | (15.1)             | (17.7)                          | (17.7)                                      | 32                           |
| Other/missing                    | 23.2               | 22.2              | 3.7             | 6.0               | 3.7                 | 3.7                               | 22.2               | 32.8                            | 35.7  | 43                           |
| <b>Residence</b>                 |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| Urban                            | 18.2               | 13.4              | 3.9             | 9.7               | 3.9                 | 2.9                               | 13.4               | 23.2                            | 28.4  | 489                          |
| Rural                            | 25.9               | 18.7              | 5.8             | 5.1               | 5.4                 | 4.3                               | 19.1               | 29.7                            | 31.2  | 2,756                        |
| <b>Province</b>                  |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| Banteay Meanchey                 | 19.2               | 14.2              | 5.1             | 1.7               | 4.6                 | 4.6                               | 14.6               | 23.8                            | 24.3  | 123                          |
| Kampong Cham                     | 34.7               | 21.5              | 4.9             | 8.2               | 4.2                 | 4.2                               | 22.2               | 35.3                            | 36.7  | 441                          |
| Kampong Chhnang                  | 16.6               | 12.0              | 5.6             | 4.0               | 5.6                 | 1.9                               | 12.0               | 21.7                            | 25.4  | 109                          |
| Kampong Speu                     | 19.3               | 15.7              | 3.5             | 2.4               | 3.5                 | 3.5                               | 15.7               | 23.8                            | 23.8  | 238                          |
| Kampong Thom                     | 17.9               | 13.2              | 2.3             | 3.4               | 2.3                 | 1.8                               | 13.2               | 18.9                            | 19.6  | 153                          |
| Kandal                           | 22.7               | 20.7              | 16.8            | 4.8               | 14.0                | 8.4                               | 23.5               | 28.3                            | 29.2  | 237                          |
| Kratie                           | 25.5               | 20.8              | 7.8             | 2.6               | 7.5                 | 6.2                               | 21.1               | 31.7                            | 32.2  | 95                           |
| Phnom Penh                       | 15.5               | 12.7              | 3.8             | 8.1               | 3.8                 | 2.5                               | 12.7               | 22.1                            | 26.4  | 301                          |
| Prey Veng                        | 7.8                | 11.3              | 1.9             | 2.5               | 1.9                 | 1.9                               | 11.3               | 13.7                            | 14.3  | 250                          |
| Pursat                           | 24.3               | 11.2              | 1.8             | 7.7               | 1.8                 | 1.8                               | 11.2               | 26.2                            | 31.5  | 101                          |
| Siem Reap                        | 55.4               | 31.8              | 10.8            | 2.8               | 10.8                | 9.8                               | 31.8               | 58.0                            | 58.8  | 196                          |
| Svay Rieng                       | 13.9               | 8.4               | 0.6             | 4.3               | 0.6                 | 0.6                               | 8.4                | 17.1                            | 19.5  | 118                          |
| Takeo                            | 32.3               | 20.7              | 5.6             | 5.2               | 5.6                 | 4.3                               | 20.7               | 35.7                            | 37.3  | 194                          |
| Otdar Meanchey                   | 17.1               | 17.3              | 6.6             | 7.2               | 6.6                 | 5.4                               | 17.3               | 18.8                            | 19.9  | 63                           |
| Battambang/Pailin                | 22.3               | 17.3              | 5.4             | 6.1               | 5.4                 | 4.9                               | 17.3               | 26.3                            | 27.3  | 234                          |
| Kampot/Kep                       | 28.2               | 22.9              | 1.1             | 4.7               | 1.1                 | 1.1                               | 22.9               | 32.1                            | 32.1  | 154                          |
| Preah Sihanouk/<br>Koh Kong      | 26.5               | 21.0              | 4.9             | 28.7              | 4.9                 | 4.1                               | 21.0               | 31.1                            | 52.1  | 75                           |
| Preah Vihear/<br>Stung Treng     | 45.2               | 30.0              | 12.1            | 9.4               | 12.0                | 7.8                               | 30.2               | 51.2                            | 53.5  | 87                           |
| Mondul Kiri/<br>Ratanak Kiri     | 17.5               | 14.0              | 1.7             | 8.7               | 1.7                 | 1.7                               | 14.0               | 23.3                            | 29.9  | 77                           |
| <b>Marital status</b>            |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| Married or living together       | 23.9               | 16.6              | 4.8             | 4.8               | 4.5                 | 3.5                               | 16.9               | 27.6                            | 29.3  | 2,977                        |
| Divorced/separated/<br>widowed   | 34.2               | 32.5              | 12.6            | 16.9              | 12.6                | 11.2                              | 32.5               | 40.1                            | 46.7  | 268                          |
| <b>Number of living children</b> |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| 0                                | 9.8                | 8.2               | 3.9             | 3.6               | 2.8                 | 2.4                               | 9.3                | 12.7                            | 14.8  | 314                          |
| 1-2                              | 21.0               | 15.5              | 4.6             | 6.3               | 4.1                 | 3.1                               | 16.0               | 24.9                            | 27.5  | 1,593                        |
| 3-4                              | 30.3               | 21.0              | 6.8             | 5.4               | 6.8                 | 5.7                               | 21.1               | 34.4                            | 36.0  | 968                          |
| 5+                               | 39.0               | 28.1              | 7.3             | 6.7               | 7.3                 | 5.7                               | 28.1               | 43.5                            | 44.8  | 370                          |
| <b>Employment</b>                |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| Employed for cash                | 22.8               | 16.9              | 5.4             | 6.1               | 5.0                 | 3.9                               | 17.3               | 26.7                            | 29.0  | 2,485                        |
| Employed not for cash            | 41.8               | 27.6              | 8.8             | 4.1               | 8.7                 | 7.7                               | 27.7               | 44.9                            | 45.0  | 238                          |
| Not employed                     | 26.1               | 18.5              | 4.2             | 5.3               | 4.2                 | 3.2                               | 18.5               | 30.5                            | 32.7  | 522                          |
| <b>Education</b>                 |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| No education                     | 31.2               | 26.9              | 7.8             | 5.3               | 7.8                 | 5.9                               | 26.9               | 37.9                            | 39.9  | 495                          |
| Primary                          | 29.2               | 19.6              | 5.4             | 6.2               | 5.2                 | 4.3                               | 19.9               | 32.6                            | 34.4  | 1,725                        |
| Secondary and higher             | 14.2               | 10.6              | 4.5             | 5.4               | 3.8                 | 2.9                               | 11.3               | 17.7                            | 20.2  | 1,025                        |
| <b>Wealth quintile</b>           |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| Lowest                           | 31.8               | 25.8              | 7.3             | 5.9               | 7.3                 | 5.6                               | 25.9               | 37.1                            | 38.5  | 620                          |
| Second                           | 30.3               | 21.1              | 6.6             | 5.4               | 6.6                 | 6.1                               | 21.1               | 33.1                            | 33.8  | 621                          |
| Middle                           | 23.8               | 17.7              | 3.9             | 5.1               | 3.8                 | 2.9                               | 17.8               | 27.3                            | 29.1  | 676                          |
| Fourth                           | 23.2               | 14.7              | 5.3             | 5.4               | 4.8                 | 3.8                               | 15.2               | 26.2                            | 28.1  | 659                          |
| Highest                          | 15.6               | 11.0              | 4.5             | 7.3               | 3.6                 | 2.3                               | 12.0               | 20.6                            | 25.0  | 670                          |
| <b>Total</b>                     | 24.8               | 17.9              | 5.5             | 5.8               | 5.1                 | 4.1                               | 18.2               | 28.7                            | 30.8  | 3,245                        |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. Figures in parentheses are based on 25-49 unweighted cases.

## **20.12 VIOLENCE BY SPOUSAL CHARACTERISTICS AND WOMEN'S EMPOWERMENT INDICATORS**

Table 20.11 presents information on ever-married women age 15-49 who have experienced emotional, economic, physical, or sexual violence committed by their current or most recent husband according to the husband's characteristics and empowerment indicators. It is worth noting that about 8 percent of women have been married more than once.

Spousal violence is highest among women whose husbands have no education or only a primary education (42 percent and 36 percent, respectively), women whose husbands get drunk very often (61 percent), and women who are not educated and have husbands who are not educated (39 percent).

Spousal violence increases linearly with the number of controlling behaviors displayed by the husband. Among women whose husbands exhibit three or more types of controlling behaviors, at least three in four (89-91 percent) have experienced one or more forms of violence. In contrast, among women whose husbands display none of the seven controlling behaviors, about one-fifth (19 percent) have experienced any form of spousal violence. There is no clear association between women's experience of violence and the number of decisions in which they participate or the number of reasons they give for which wife beating is justified. Women whose father did not beat their mother are much less likely to experience any type of violence by their husband than women whose father beat their mother (26 percent versus 44 percent). Finally, women who are afraid of their husband/partner most of the time are much more likely to experience any type of violence than women who are never afraid (86 percent versus 24 percent).

Table 20.11 Spousal violence by husband's characteristics and empowerment indicators

Percentage of ever-married women age 15-49 who have ever experienced emotional, physical, or sexual violence committed by their husband/partner, by husband's characteristics and empowerment indicators, Cambodia 2014

| Background characteristic   | Emotional violence | Physical violence | Sexual violence | Economic violence | Physical and sexual | Physical and sexual and emotional | Physical or sexual | Physical or sexual or emotional | Physical or sexual or emotional or economic | Number of ever-married women |
|---|--------------------|-------------------|-----------------|-------------------|---------------------|-----------------------------------|--------------------|---------------------------------|---|------------------------------|
| <b>Husband's/partner's education</b>  |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| No education  | 33.4               | 26.7              | 11.8            | 5.3               | 11.8                | 9.1                               | 26.7               | 40.1                            | 42.0  | 327                          |
| Primary   | 29.5               | 22.1              | 5.8             | 6.0               | 5.7                 | 4.3                               | 22.2               | 34.3                            | 36.0  | 1,464                        |
| Secondary and higher  | 17.7               | 11.5              | 3.7             | 5.8               | 3.0                 | 2.7                               | 12.2               | 20.2                            | 22.7  | 1,435                        |
| <b>Husband's/partner's alcohol consumption</b>                                      |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| Does not drink  | 13.3               | 9.1               | 1.8             | 4.0               | 1.7                 | 1.3                               | 9.1                | 15.5                            | 17.7  | 490                          |
| Drinks/never gets drunk   | 11.1               | 10.1              | 2.1             | 2.6               | 2.1                 | 0.6                               | 10.1               | 14.4                            | 15.6  | 108                          |
| Gets drunk sometimes  | 20.6               | 13.8              | 3.7             | 4.6               | 3.6                 | 2.6                               | 13.9               | 24.4                            | 26.7  | 2,103                        |
| Gets drunk very often   | 53.9               | 43.5              | 16.2            | 12.9              | 14.9                | 13.3                              | 44.7               | 60.0                            | 61.3  | 543                          |
| <b>Spousal education difference</b>   |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| Husband better educated   | 24.4               | 18.1              | 4.8             | 6.2               | 4.5                 | 3.8                               | 18.3               | 28.5                            | 30.7  | 1,699                        |
| Wife better educated  | 22.5               | 16.1              | 4.8             | 4.4               | 4.8                 | 3.6                               | 16.1               | 26.5                            | 27.8  | 876                          |
| Both equally educated   | 27.1               | 18.5              | 7.7             | 6.7               | 6.4                 | 4.9                               | 19.9               | 30.3                            | 32.7  | 474                          |
| Neither educated  | 30.2               | 22.8              | 9.9             | 5.9               | 9.9                 | 7.2                               | 22.8               | 35.3                            | 38.5  | 170                          |
| Don't know/missing  | (41.7)             | (24.6)            | (5.8)           | (16.7)            | (5.8)               | (5.8)                             | (24.6)             | (41.7)                          | (47.6)                                      | 26                           |
| <b>Spousal age difference<sup>1</sup></b>   |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| Wife older  | 24.3               | 19.3              | 6.2             | 3.0               | 6.2                 | 4.3                               | 19.3               | 28.7                            | 29.4  | 540                          |
| Wife is same age  | 22.8               | 15.3              | 5.8             | 6.3               | 5.4                 | 4.5                               | 15.7               | 27.8                            | 28.4  | 253                          |
| Wife is 1-4 years younger   | 25.2               | 16.4              | 4.8             | 4.6               | 4.3                 | 3.6                               | 17.0               | 28.9                            | 31.1  | 1,219                        |
| Wife is 5-9 years younger   | 22.9               | 16.6              | 3.5             | 5.9               | 3.4                 | 2.4                               | 16.6               | 26.5                            | 28.3  | 699                          |
| Wife is 10+ years younger   | 20.5               | 12.6              | 4.7             | 5.9               | 3.5                 | 2.8                               | 13.8               | 22.1                            | 24.3  | 263                          |
| <b>Number of marital control behaviors displayed by husband/partner<sup>2</sup></b> |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| 0   | 15.5               | 9.4               | 2.1             | 0.9               | 2.1                 | 1.4                               | 9.4                | 18.6                            | 19.1  | 2,371                        |
| 1-2   | 42.6               | 34.1              | 10.3            | 11.3              | 8.8                 | 6.7                               | 35.6               | 49.3                            | 54.2  | 675                          |
| 3-4   | 70.5               | 59.4              | 23.1            | 37.2              | 23.1                | 21.8                              | 59.4               | 74.9                            | 89.4  | 147                          |
| 5-6   | 85.1               | 77.2              | 45.2            | 68.4              | 45.2                | 42.8                              | 77.2               | 87.6                            | 91.0  | 53                           |
| <b>Number of decisions in which women participate<sup>3</sup></b>                   |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| 0   | (30.1)             | (12.9)            | (0.0)           | (0.9)             | (0.0)               | (0.0)                             | (12.9)             | (30.1)                          | (30.1)                                      | 28                           |
| 1-2   | 25.4               | 18.7              | 6.2             | 8.4               | 6.2                 | 3.2                               | 18.7               | 32.0                            | 34.5  | 362                          |
| 3   | 23.6               | 16.3              | 4.7             | 4.4               | 4.3                 | 3.5                               | 16.7               | 27.0                            | 28.6  | 2,586                        |
| <b>Number of reasons for which wife beating is justified<sup>4</sup></b>            |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| 0   | 20.5               | 15.0              | 4.3             | 6.6               | 4.0                 | 3.5                               | 15.3               | 23.4                            | 26.2  | 1,482                        |
| 1-2   | 29.6               | 21.7              | 7.7             | 4.8               | 7.0                 | 5.5                               | 22.4               | 34.9                            | 36.3  | 934                          |
| 3-4   | 26.1               | 20.2              | 5.7             | 5.9               | 5.6                 | 3.8                               | 20.3               | 31.3                            | 32.9  | 662                          |
| 5-6   | 30.0               | 13.0              | 2.9             | 3.8               | 2.9                 | 2.7                               | 13.1               | 30.8                            | 31.2  | 166                          |
| <b>Woman's father beat her mother</b>   |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| Yes   | 35.6               | 28.3              | 7.3             | 6.9               | 7.3                 | 5.4                               | 28.3               | 41.6                            | 43.8  | 595                          |
| No  | 20.5               | 14.0              | 4.9             | 5.0               | 4.5                 | 3.6                               | 14.5               | 23.6                            | 25.8  | 2,426                        |
| Don't know/missing  | 42.2               | 32.1              | 6.8             | 11.9              | 6.8                 | 6.2                               | 32.1               | 49.1                            | 50.0  | 224                          |
| <b>Woman afraid of husband/ partner</b>   |                    |                   |                 |                   |                     |                                   |                    |                                 |   |                              |
| Afraid most of the time   | 74.9               | 77.7              | 30.4            | 23.8              | 30.4                | 28.8                              | 77.7               | 83.9                            | 86.1  | 106                          |
| Sometimes afraid  | 27.8               | 19.4              | 5.9             | 5.5               | 5.6                 | 4.4                               | 19.6               | 32.0                            | 33.8  | 1,637                        |
| Never afraid  | 18.0               | 12.2              | 3.3             | 4.9               | 2.9                 | 2.1                               | 12.6               | 21.3                            | 23.7  | 1,495                        |
| Total   | 24.8               | 17.9              | 5.5             | 5.8               | 5.1                 | 4.1                               | 18.2               | 28.7                            | 30.8  | 3,245                        |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. Total includes women with missing information on husband's/partner's education, husband's/partner's alcohol consumption, spousal age difference, and fear of husband who are not shown separately. Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Includes only women who have been married only once

<sup>2</sup> According to the wife's report. See Table 20.8 for list of behaviors.

<sup>3</sup> According to the wife's report. Includes only currently married women. See Table 19.5.1 for list of decisions.

<sup>4</sup> According to the wife's report. See Table 19.7.1 for list of reasons.

## 20.13 RECENT SPOUSAL VIOLENCE BY ANY HUSBAND OR PARTNER

Table 20.12 shows the percentage of ever-married women who have experienced physical or sexual violence by any husband or partner (current, most recent, or previous) in the past 12 months, by background characteristics.

Overall, 11 percent of women experienced physical or sexual violence by any husband or partner in the past 12 months. The percentage of women who have experienced recent physical or sexual violence by any spouse or partner is higher among those age 30-39 (13 percent), those from Kampong Cham (20 percent) and Siem Reap (19 percent), and those from rural areas (12 percent). The percentage is lowest among women who have no living children (6 percent), those who are not employed (9 percent), those with a secondary education or higher (6 percent), and those in the highest wealth quintile (5 percent). The experience of physical or sexual violence by any husband or partner in the past 12 months varies only minimally by marital status.

## 20.14 ONSET OF SPOUSAL VIOLENCE

To obtain information on the onset of marital violence, the 2014 CDHS asked ever-married women how long after marriage the onset of spousal violence occurred, if ever.

Table 20.13 shows that the majority of women (84 percent) have never experienced spousal physical or sexual violence. Four percent experienced violence in the first two years of marriage, 9 percent experienced it in the first five years, and 12 percent experienced it within the first 10 years of marriage. These data clearly suggest that, for a considerable percentage of women who have experienced spousal physical or sexual violence, the violence began relatively early in their marriage.

**Table 20.12 Physical or sexual violence in the past 12 months by any husband/partner**

Percentage of ever-married women who have experienced physical or sexual violence by any husband/partner in the past 12 months, by background characteristics, Cambodia 2014

| Background characteristic        | Physical or sexual violence in the past 12 months from any husband/partner | Number of ever-married women |
|----------------------------------|--|------------------------------|
| <b>Age</b>                       |  |                              |
| 15-19                            | 7.0  | 108                          |
| 20-24                            | 9.8  | 461                          |
| 25-29                            | 7.8  | 577                          |
| 30-39                            | 13.3   | 1,161                        |
| 40-49                            | 11.0   | 938                          |
| <b>Religion</b>                  |  |                              |
| Buddhist                         | 10.8   | 3,095                        |
| Moslem                           | 15.3   | 75                           |
| Christian                        | (2.3)  | 32                           |
| Other/missing                    | 17.1   | 43                           |
| <b>Residence</b>                 |  |                              |
| Urban                            | 5.5  | 489                          |
| Rural                            | 11.9   | 2,756                        |
| <b>Province</b>                  |  |                              |
| Banteay Meanchey                 | 14.6   | 123                          |
| Kampong Cham                     | 20.0   | 441                          |
| Kampong Chhnang                  | 5.5  | 109                          |
| Kampong Speu                     | 7.9  | 238                          |
| Kampong Thom                     | 8.5  | 153                          |
| Kandal                           | 16.0   | 237                          |
| Kratie                           | 13.7   | 95                           |
| Phnom Penh                       | 4.2  | 301                          |
| Prey Veng                        | 4.7  | 250                          |
| Pursat                           | 7.4  | 101                          |
| Siem Reap                        | 19.1   | 196                          |
| Svay Rieng                       | 4.9  | 118                          |
| Takeo                            | 9.3  | 194                          |
| Otdar Meanchey                   | 15.4   | 63                           |
| Battambang/Pailin                | 7.0  | 234                          |
| Kampot/Kep                       | 9.4  | 154                          |
| Preah Sihanouk/                  |  |                              |
| Koh Kong                         | 8.7  | 75                           |
| Preah Vihear/                    |  |                              |
| Stung Treng                      | 15.7   | 87                           |
| Mondul Kiri/                     |  |                              |
| Ratanak Kiri                     | 7.9  | 77                           |
| <b>Marital status</b>            |  |                              |
| Married or living together       | 10.8   | 2,977                        |
| Divorced/separated/widowed       | 12.0   | 268                          |
| <b>Number of living children</b> |  |                              |
| 0                                | 6.3  | 314                          |
| 1-2                              | 10.3   | 1,593                        |
| 3-4                              | 11.4   | 968                          |
| 5+                               | 16.6   | 370                          |
| <b>Employment</b>                |  |                              |
| Employed for cash                | 11.2   | 2,485                        |
| Employed not for cash            | 12.3   | 238                          |
| Not employed                     | 9.3  | 522                          |
| <b>Education</b>                 |  |                              |
| No education                     | 17.5   | 495                          |
| Primary                          | 12.1   | 1,725                        |
| Secondary and higher             | 5.8  | 1,025                        |
| <b>Wealth quintile</b>           |  |                              |
| Lowest                           | 18.2   | 620                          |
| Second                           | 13.0   | 621                          |
| Middle                           | 11.1   | 676                          |
| Fourth                           | 7.7  | 659                          |
| Highest                          | 5.4  | 670                          |
| Total                            | 10.9   | 3,245                        |

Note: Any husband/partner includes all current, most recent, and former husbands/partners. Total includes 7 women with missing information about fear of husband/partner. Figures in parentheses are based on 25-49 unweighted cases.

Table 20.13 Experience of spousal violence by duration of marriage

Among currently married women age 15-49 who have been married only once, the percentage who first experienced physical or sexual violence committed by their current husband/partner by specific exact years since marriage, according to marital duration, Cambodia 2014

| Duration of marriage        | Percentage who first experienced spousal physical or sexual violence by exact marital duration: |         |         |          | Percentage who have not experienced spousal sexual or physical violence | Number of currently married women who have been married only once |
|-----------------------------|---|---------|---------|----------|---|---|
|                             | Before marriage   | 2 years | 5 years | 10 years |   |   |
| <b>Years since marriage</b> |   |         |         |          |   |   |
| <2                          | 0.2   | na      | na      | na       | 95.5  | 297   |
| 2-4                         | 0.0   | 9.8     | na      | na       | 86.9  | 385   |
| 5-9                         | 0.7   | 3.4     | 8.7     | na       | 86.7  | 550   |
| 10+                         | 0.0   | 3.1     | 8.7     | 12.7     | 80.6  | 1,520   |
| Total                       | 0.2   | 4.2     | 8.8     | 11.9     | 84.3  | 2,752   |

na = Not applicable

## 20.15 PHYSICAL CONSEQUENCES OF SPOUSAL VIOLENCE

In the 2014 CDHS, ever-married women were asked whether they had sustained some form of injury as a result of physical or sexual violence inflicted by their spouse. About half of women (44 percent) who reported ever having experienced spousal physical or sexual violence suffered cuts, bruises, or aches; 22 percent had eye injuries, sprains, dislocations, or burns; and 5 percent had deep wounds, broken bones, broken teeth, or other serious injuries (Table 20.14). Overall, 48 percent of women who had ever experienced spousal physical or sexual violence suffered one or more of these injuries. The prevalence of all forms of injury is similar among women who had experienced violence in the past 12 months.

Table 20.14 Injuries to women due to spousal violence

Percentage of ever-married women age 15-49 who have experienced specific types of spousal violence by types of injuries resulting from the violence, according to the type of violence and whether they experienced the violence ever and in the 12 months preceding the survey, Cambodia 2014

| Type of violence   | Cuts, bruises, or aches | Eye injuries, sprains, dislocations, or burns | Deep wounds, broken bones, broken teeth, or any other serious injury | Any of these injuries | Number of ever-married women who have ever experienced any physical or sexual violence |
|--|-------------------------|---|--|-----------------------|--|
| <b>Experienced physical violence<sup>1</sup></b>           |                         |   |  |                       |  |
| Ever <sup>2</sup>  | 45.2                    | 22.2  | 4.6  | 49.0                  | 581  |
| In the past 12 months                                      | 48.2                    | 26.1  | 4.2  | 53.3                  | 343  |
| <b>Experienced sexual violence</b>                         |                         |   |  |                       |  |
| Ever <sup>2</sup>  | 47.9                    | 25.5  | 2.7  | 50.8                  | 178  |
| In the past 12 months                                      | 47.0                    | 29.2  | 2.4  | 50.6                  | 128  |
| <b>Experienced physical or sexual violence<sup>1</sup></b> |                         |   |  |                       |  |
| Ever <sup>2</sup>  | 44.4                    | 21.8  | 4.5  | 48.1                  | 592  |
| In the past 12 months                                      | 46.7                    | 25.3  | 4.0  | 51.6                  | 355  |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women.

<sup>1</sup> Excludes women who reported violence only in response to a direct question on violence during pregnancy

<sup>2</sup> Includes in the past 12 months

## 20.16 VIOLENCE BY WOMEN AGAINST THEIR HUSBAND

In cases of domestic violence, either person, the husband or the wife, can be the perpetrator of violence. In the 2014 CDHS, ever-married women were asked about instances when they were the instigator of spousal violence. Specifically, they were asked whether they had ever tried to initiate physical violence against their current or most recent husband or partner when he was not already hitting or beating them.

Table 20.15 shows the percentage of ever-married women age 15-49 who reported initiating physical violence against their husbands ever and in the 12 months prior to the survey, by background characteristics.

Overall, 9 percent of women reported that they had initiated physical violence against their husbands or partners, and 5 percent had done so in the past 12 months. Women who have been physically abused by their current or most recent husband or partner ever or in the past 12 months (29 percent each) are more likely to have initiated spousal physical abuse than women who have never been abused (5 percent). Women's use of violence against their husbands increases somewhat with age. It is higher among women in Preah Vihear/Stung Treng (19 percent) and Preah Sihanouk/Koh Kong (18 percent), formerly married women (11 percent), and women with three or more living children (10 percent). On the other hand, the proportion of women who have initiated physical violence against their husbands decreases with increasing education, from 11 percent among those with no education to 7 percent among those with a secondary education or higher. The percentage who report that they have initiated physical violence does not vary notably by residence or employment and does not have a linear relationship with wealth quintile. Patterns among women who reported initiating physical violence against their husbands in the past 12 months are similar in the case of some but not all background characteristics.

Table 20.15 Women's violence against their spouse

Percentage of ever-married women age 15-49 who have committed physical violence against their current or most recent husband/partner when he was not already beating or physically hurting them, ever and in the past 12 months, according to women's own experience of spousal violence and background characteristics, Cambodia 2014

| Background characteristic                              | Percentage who have committed physical violence against their husband/partner |                       | Number of ever-married women |
|--|---|-----------------------|------------------------------|
|  | Ever <sup>1</sup>   | In the past 12 months |                              |
| <b>Woman's experience of spousal physical violence</b> |   |                       |                              |
| Ever <sup>1</sup>                                      | 29.4  | 15.5                  | 581                          |
| In the past 12 months                                  | 29.3  | 21.2                  | 343                          |
| Never  | 4.5   | 2.7                   | 2,664                        |
| <b>Age</b>   |   |                       |                              |
| 15-19  | 5.2   | 4.8                   | 108                          |
| 20-24  | 5.9   | 4.7                   | 461                          |
| 25-29  | 9.0   | 6.3                   | 577                          |
| 30-39  | 9.9   | 5.5                   | 1,161                        |
| 40-49  | 9.6   | 3.9                   | 938                          |
| <b>Religion</b>  |   |                       |                              |
| Buddhist   | 8.6   | 4.6                   | 3,095                        |
| Moslem   | 14.1  | 12.7                  | 75                           |
| Christian  | (32.5)  | (31.8)                | 32                           |
| Other/missing  | 2.3   | 0.7                   | 43                           |
| <b>Residence</b>                                       |   |                       |                              |
| Urban  | 10.2  | 5.5                   | 489                          |
| Rural  | 8.7   | 4.9                   | 2,756                        |
| <b>Province</b>  |   |                       |                              |
| Banteay Meanchey                                       | 6.1   | 3.4                   | 123                          |
| Kampong Cham   | 13.1  | 11.1                  | 441                          |
| Kampong Chhnang  | 6.4   | 3.8                   | 109                          |
| Kampong Speu   | 5.9   | 3.6                   | 238                          |
| Kampong Thom   | 7.0   | 3.1                   | 153                          |
| Kandal   | 5.5   | 5.1                   | 237                          |
| Kratie   | 14.3  | 5.9                   | 95                           |
| Phnom Penh   | 12.1  | 4.5                   | 301                          |
| Prey Veng  | 6.7   | 3.7                   | 250                          |
| Pursat   | 9.5   | 3.9                   | 101                          |
| Siem Reap  | 7.4   | 2.2                   | 196                          |
| Svay Rieng   | 7.4   | 2.5                   | 118                          |
| Takeo  | 3.4   | 1.1                   | 194                          |
| Otdar Meanchey   | 11.2  | 9.4                   | 63                           |
| Battambang/Pailin                                      | 11.6  | 6.4                   | 234                          |
| Kampot/Kep   | 4.9   | 1.1                   | 154                          |
| Preah Sihanouk/Koh Kong                                | 18.0  | 10.6                  | 75                           |
| Preah Vihear/Stung Treng                               | 19.2  | 8.2                   | 87                           |
| Mondul Kiri/Ratanak Kiri                               | 1.9   | 1.3                   | 77                           |
| <b>Marital status</b>                                  |   |                       |                              |
| Married or living together                             | 8.8   | 5.2                   | 2,977                        |
| Divorced/separated/widowed                             | 10.6  | 2.8                   | 268                          |
| <b>Employment</b>                                      |   |                       |                              |
| Employed for cash                                      | 8.7   | 5.1                   | 2,485                        |
| Employed not for cash                                  | 10.4  | 3.7                   | 238                          |
| Not employed   | 9.1   | 5.1                   | 522                          |
| <b>Number of living children</b>                       |   |                       |                              |
| 0  | 8.4   | 6.6                   | 314                          |
| 1-2  | 7.9   | 5.0                   | 1,593                        |
| 3-4  | 10.4  | 4.6                   | 968                          |
| 5+   | 9.9   | 4.9                   | 370                          |
| <b>Education</b>                                       |   |                       |                              |
| No education   | 11.2  | 6.6                   | 495                          |
| Primary  | 9.6   | 5.3                   | 1,725                        |
| Secondary and higher                                   | 6.7   | 3.7                   | 1,025                        |
| <b>Wealth quintile</b>                                 |   |                       |                              |
| Lowest   | 13.6  | 8.0                   | 620                          |
| Second   | 7.3   | 3.0                   | 621                          |
| Middle   | 7.8   | 5.0                   | 676                          |
| Fourth   | 7.3   | 4.9                   | 659                          |
| Highest  | 8.8   | 4.2                   | 670                          |
| <b>Total</b>   | <b>8.9</b>  | <b>5.0</b>            | <b>3,245</b>                 |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. Figures in parentheses are based on 25-49 unweighted cases.

<sup>1</sup> Includes in the past 12 months

## 20.17 HELP-SEEKING BEHAVIOR BY WOMEN WHO EXPERIENCE VIOLENCE

Table 20.16 shows the percent distribution of women age 15-49 who have ever experienced physical or sexual violence committed by anyone, according to whether they ever sought help to stop the violence and, if not, whether or not they told anyone about the violence.

Table 20.16 Help seeking to stop violence

Percent distribution of women age 15-49 who have ever experienced physical or sexual violence by their help-seeking behavior, according to type of violence and background characteristics, Cambodia 2014

| Background characteristic           | Sought help to stop violence | Never sought help but told someone | Never sought help, never told anyone | Missing/don't know | Total | Number of women who have ever experienced any physical or sexual violence |
|-------------------------------------|------------------------------|------------------------------------|--------------------------------------|--------------------|-------|---|
| <b>Type of violence experienced</b> |                              |                                    |                                      |                    |       |   |
| Physical only                       | 40.6                         | 19.8                               | 39.0                                 | 0.6                | 100.0 | 693   |
| Sexual only                         | (49.1)                       | (8.0)                              | (42.9)                               | (0.0)              | 100.0 | 45  |
| Physical and sexual                 | 47.4                         | 17.7                               | 34.9                                 | 0.0                | 100.0 | 217   |
| <b>Age</b>                          |                              |                                    |                                      |                    |       |   |
| 15-19                               | (40.3)                       | (22.6)                             | (37.1)                               | (0.0)              | 100.0 | 54  |
| 20-24                               | 29.0                         | 24.6                               | 45.9                                 | 0.5                | 100.0 | 130   |
| 25-29                               | 34.2                         | 12.5                               | 53.3                                 | 0.0                | 100.0 | 114   |
| 30-39                               | 42.5                         | 22.2                               | 34.8                                 | 0.5                | 100.0 | 372   |
| 40-49                               | 52.5                         | 13.6                               | 33.4                                 | 0.5                | 100.0 | 286   |
| <b>Residence</b>                    |                              |                                    |                                      |                    |       |   |
| Urban                               | 32.3                         | 24.4                               | 43.0                                 | 0.4                | 100.0 | 152   |
| Rural                               | 44.5                         | 17.7                               | 37.3                                 | 0.4                | 100.0 | 803   |
| <b>Marital status</b>               |                              |                                    |                                      |                    |       |   |
| Never married                       | 40.3                         | 21.3                               | 36.4                                 | 2.0                | 100.0 | 89  |
| Married or living together          | 42.8                         | 18.5                               | 38.5                                 | 0.3                | 100.0 | 756   |
| Divorced/separated/widowed          | 42.9                         | 18.9                               | 38.1                                 | 0.1                | 100.0 | 110   |
| <b>Number of living children</b>    |                              |                                    |                                      |                    |       |   |
| 0                                   | 37.0                         | 22.4                               | 38.5                                 | 2.1                | 100.0 | 152   |
| 1-2                                 | 38.9                         | 18.8                               | 42.2                                 | 0.2                | 100.0 | 375   |
| 3-4                                 | 43.1                         | 22.0                               | 34.8                                 | 0.1                | 100.0 | 282   |
| 5+                                  | 56.4                         | 9.0                                | 34.5                                 | 0.0                | 100.0 | 146   |
| <b>Employment</b>                   |                              |                                    |                                      |                    |       |   |
| Employed for cash                   | 43.8                         | 17.7                               | 37.9                                 | 0.6                | 100.0 | 678   |
| Employed not for cash               | 42.9                         | 14.0                               | 43.1                                 | 0.0                | 100.0 | 105   |
| Not employed                        | 37.5                         | 26.0                               | 36.5                                 | 0.0                | 100.0 | 172   |
| <b>Education</b>                    |                              |                                    |                                      |                    |       |   |
| No education                        | 44.2                         | 17.8                               | 37.9                                 | 0.1                | 100.0 | 177   |
| Primary                             | 46.2                         | 19.6                               | 33.6                                 | 0.6                | 100.0 | 535   |
| Secondary and higher                | 33.4                         | 17.7                               | 48.6                                 | 0.3                | 100.0 | 244   |
| <b>Wealth quintile</b>              |                              |                                    |                                      |                    |       |   |
| Lowest                              | 44.4                         | 18.3                               | 37.2                                 | 0.1                | 100.0 | 225   |
| Second                              | 52.1                         | 9.7                                | 37.5                                 | 0.7                | 100.0 | 201   |
| Middle                              | 44.9                         | 21.1                               | 34.0                                 | 0.0                | 100.0 | 176   |
| Fourth                              | 35.8                         | 20.8                               | 42.3                                 | 1.0                | 100.0 | 179   |
| Highest                             | 33.6                         | 25.5                               | 40.5                                 | 0.3                | 100.0 | 174   |
| Total                               | 42.6                         | 18.8                               | 38.2                                 | 0.4                | 100.0 | 955   |

Note: Women can report more than one source from which they sought help. The distribution by provinces is not shown because there were less than 50 unweighted cases in most provinces. Figures in parentheses are based on 25-49 unweighted cases.

Overall, more than 4 in 10 women (43 percent) who have experienced any type of physical or sexual violence from anyone sought help to stop the violence. Thirty-eight percent of women never sought help and never told anyone, and 19 percent never sought help but told someone. Women who have experienced sexual violence (49 percent) or both physical and sexual violence (47 percent), women age 40-49 (53 percent), rural women (45 percent), and women who have five or more children (56 percent) are more likely than other women to seek help to stop violence. Women who are employed (for cash or not for cash) are more likely than those who are not employed to have ever sought help. Help seeking varies insignificantly by marital status and wealth quintile. It is interesting to note that highly educated women are less likely than women with a primary education or less to seek help from any source to stop the violence.

Table 20.17 shows the percentage of abused women who reported seeking help by the sources from which help was sought. The most common sources of help are the woman's own family (59 percent), neighbors (29 percent), and the police (12 percent). A relatively high percentage of women (11 percent) seek help from their husband's or partner's family.

**Table 20.17 Sources for help to stop the violence**

Percentage of women age 15-49 who have experienced physical or sexual violence and sought help by sources from which they sought help, according to the type of violence that women reported, Cambodia 2014

| Person  | Type of violence experienced |             |                     | Total |
|---|------------------------------|-------------|---------------------|-------|
|   | Physical only                | Sexual only | Physical and sexual |       |
| Own family  | 57.2                         | *           | 60.1                | 58.5  |
| Husband/partner's family                                      | 11.5                         | *           | 13.1                | 11.4  |
| Husband/partner   | 0.6                          | *           | 0.2                 | 0.5   |
| Boyfriend   | 0.0                          | *           | 0.0                 | 0.6   |
| Friend  | 7.1                          | *           | 6.1                 | 7.8   |
| Neighbor  | 30.4                         | *           | 32.2                | 29.2  |
| Religious leader  | 0.2                          | *           | 0.0                 | 0.8   |
| Doctor/medical personnel                                      | 0.9                          | *           | 0.0                 | 0.6   |
| Police  | 10.7                         | *           | 17.8                | 12.3  |
| Lawyer  | 0.6                          | *           | 1.3                 | 0.7   |
| Social work organization                                      | 0.0                          | *           | 1.6                 | 0.5   |
| Other   | 14.7                         | *           | 22.2                | 16.4  |
| Number of women who have experienced violence and sought help | 282                          | 22          | 103                 | 406   |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.





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## A.1 INTRODUCTION

The 2014 Cambodia Demographic and Health Survey is the fourth of its kind and follows similar surveys conducted in 2000, 2005, and 2010. The 2014 CDHS included a nationally representative sample of 15,825 households. All women age 15-49 who were usual members of a sampled household or who slept in the sampled household the night before the survey were eligible to be individually interviewed. The survey resulted in completed interviews with 17,578 de facto women. Similar to previous surveys, the 2014 CDHS was designed to provide information on fertility and childhood mortality, family planning, maternal and child health, and knowledge and behavior regarding AIDS and other sexually transmitted infections (STIs). The survey also collected data on domestic violence among women and micronutrients among mothers and children age 0-5. Survey estimates are reported for 19 study domains, of which 14 are individual provinces (Banteay Meanchey, Kampong Cham, Kampong Chhnang, Kampong Speu, Kampong Thom, Kandal, Kratie, Phnom Penh, Prey Veng, Pursat, Siem Reap, Svay Rieng, Takeo, and Otdar Meanchey) and 5 are groups of provinces:

- Group 1: Battambang and Pailin
- Group 2: Kampot and Kep
- Group 3: Preah Sihanouk and Koh Kong
- Group 4: Preah Vihear and Stung Treng
- Group 5: Mondul Kiri and Ratanak Kiri

In addition, a male survey was conducted at the same time in a subsample consisting of one-third of the households selected. All men age 15-49 who were usual members of a subsampled household or who slept in the household the night before the survey were eligible for the male survey. The male survey collected information on family planning and knowledge and behavior regarding HIV/AIDS and other STIs. Also in this subsample, one eligible woman per household was selected randomly from all of the eligible women in the household to complete a domestic violence survey. In the other two-thirds of households that were not selected for the male survey, all women age 15-49 and all children under age 5 were eligible for height and weight measurements and for anemia testing. Furthermore, in a subsample consisting of one in every six of the selected clusters, a micronutrient survey was implemented among all women age 15-49 who had children under age 5 as well as among the children themselves.

## A.2 SAMPLING FRAME

The sampling frame used for the 2014 CDHS was the complete list of all enumeration areas (EAs) created for the 2008 Cambodian General Population Census (GPC), provided by the National Institute of Statistics (NIS). The list had been updated in 2012 by NIS. The updated list consists of 28,696 EAs that encompass the entire country. An EA is either a village or part of a large village; it is linked to information about its administrative affiliation and its locality, number of residential households, and type of residence (urban or rural). A cartographic map delimiting each EA's boundaries was also created at the time of the 2008 GPC. Among the EAs, 4,307 are urban residences, and 24,389 are rural residences. There are 241 EAs that are special settlement areas and not ordinary residential areas; therefore, they are not eligible for the DHS surveys. These EAs were excluded from the sample selection. The final sampling frame for the 2014 CDHS comprised 28,455 eligible EAs.

The average size of the EAs (number of residential households) is 119 households in urban areas and 95 households in rural areas, with an overall average of 99 households per EA. Tables A.1 and A.2 show the distribution of households and the number of EAs by domain and by type of residence. In

Cambodia, 18 percent of residential households are in urban areas and 82 percent in rural areas. The largest domain (Kampong Cham) represents 13.1 percent of the total number of households in the country; the smallest domains (Otdar Meanchey and Mondul Kiri/Ratanak Kiri) represent just 1.4 percent each of total households. Table A.2 shows that, overall, 4,245 EAs were designated as urban and 24,210 as rural, with (as mentioned) an average size of 99 households per EA.

**Table A.1** Distribution of households in the sampling frame (2008 GPC, updated) by survey domain and by residence, Cambodia 2014

| Domain                      | Number of households |           |           | Percentage of urban households | Percentage of rural households |
|-----------------------------|----------------------|-----------|-----------|--------------------------------|--------------------------------|
|                             | Urban                | Rural     | Total     |                                |                                |
| 1 Banteay Meanchey          | 37,165               | 107,280   | 144,445   | 25.7                           | 5.1                            |
| 2 Kampong Cham              | 24,875               | 342,704   | 367,579   | 6.8                            | 13.1                           |
| 3 Kampong Chhnang           | 8,294                | 92,218    | 100,512   | 8.3                            | 3.6                            |
| 4 Kampong Speu              | 10,530               | 138,615   | 149,145   | 7.1                            | 5.3                            |
| 5 Kampong Thom              | 6,674                | 127,156   | 133,830   | 5.0                            | 4.8                            |
| 6 Kandal                    | 22,087               | 195,195   | 217,282   | 10.2                           | 7.7                            |
| 7 Kratie                    | 7,400                | 57,797    | 65,197    | 11.4                           | 2.3                            |
| 8 Phnom Penh                | 247,135              | 40,757    | 287,892   | 85.8                           | 10.2                           |
| 9 Prey Veng                 | 6,988                | 219,272   | 226,260   | 3.1                            | 8.0                            |
| 10 Pursat                   | 5,389                | 77,899    | 83,288    | 6.5                            | 3.0                            |
| 11 Siem Reap                | 33,934               | 144,878   | 178,812   | 19.0                           | 6.4                            |
| 12 Svay Rieng               | 3,562                | 111,196   | 114,758   | 3.1                            | 4.1                            |
| 13 Takeo                    | 2,688                | 181,017   | 183,705   | 1.5                            | 6.5                            |
| 14 Otdar Meanchey           | 3,573                | 34,568    | 38,141    | 9.4                            | 1.4                            |
| 15 Battambang/Pailin        | 38,865               | 185,112   | 223,977   | 17.4                           | 8.0                            |
| 16 Kampot/Kep               | 10,778               | 125,928   | 136,706   | 7.9                            | 4.9                            |
| 17 Preah Sihanouk/Koh Kong  | 25,702               | 43,066    | 68,768    | 37.4                           | 2.4                            |
| 18 Preah Vihear/Stung Treng | 5,234                | 48,231    | 53,465    | 9.8                            | 1.9                            |
| 19 Mondul Kiri/Ratanak Kiri | 4,673                | 35,040    | 39,713    | 11.8                           | 1.4                            |
| 20 Cambodia                 | 505,546              | 2,307,929 | 2,813,475 | 18.0                           | 100.0                          |

**Table A.2** Distribution of enumeration areas in the sampling frame (2008 GPC, updated) and average size of EAs by survey domain and by residence, Cambodia 2014

| Domain                      | Number of EAs |        |        | Average EA size |       |       |
|-----------------------------|---------------|--------|--------|-----------------|-------|-------|
|                             | Urban         | Rural  | Total  | Urban           | Rural | Total |
| 1 Banteay Meanchey          | 338           | 1,138  | 1,476  | 110             | 94    | 98    |
| 2 Kampong Cham              | 225           | 3,426  | 3,651  | 111             | 100   | 101   |
| 3 Kampong Chhnang           | 72            | 940    | 1,012  | 115             | 98    | 99    |
| 4 Kampong Speu              | 110           | 1,631  | 1,741  | 96              | 85    | 86    |
| 5 Kampong Thom              | 62            | 1,342  | 1,404  | 108             | 95    | 95    |
| 6 Kandal                    | 187           | 2,050  | 2,237  | 118             | 95    | 97    |
| 7 Kratie                    | 69            | 573    | 642    | 107             | 101   | 102   |
| 8 Phnom Penh                | 2,015         | 443    | 2,458  | 123             | 92    | 117   |
| 9 Prey Veng                 | 63            | 2,343  | 2,406  | 111             | 94    | 94    |
| 10 Pursat                   | 58            | 833    | 891    | 93              | 94    | 93    |
| 11 Siem Reap                | 235           | 1,503  | 1,738  | 144             | 96    | 103   |
| 12 Svay Rieng               | 34            | 1,214  | 1,248  | 105             | 92    | 92    |
| 13 Takeo                    | 23            | 1,935  | 1,958  | 117             | 94    | 94    |
| 14 Otdar Meanchey           | 34            | 378    | 412    | 105             | 91    | 93    |
| 15 Battambang/Pailin        | 364           | 1,858  | 2,222  | 107             | 100   | 101   |
| 16 Kampot/Kep               | 95            | 1,241  | 1,336  | 113             | 101   | 102   |
| 17 Preah Sihanouk/Koh Kong  | 180           | 425    | 605    | 143             | 101   | 114   |
| 18 Preah Vihear/Stung Treng | 45            | 514    | 559    | 116             | 94    | 96    |
| 19 Mondul Kiri/Ratanak Kiri | 36            | 423    | 459    | 130             | 83    | 87    |
| 20 Cambodia                 | 4,245         | 24,210 | 28,455 | 119             | 95    | 99    |

### A.3 SAMPLING METHODOLOGY AND PROCEDURE

The sample for the 2014 CDHS was a stratified sample selected in two stages. Stratification was achieved by separating every survey domain into urban and rural areas. As a result, the 19 domains were stratified into 38 sampling strata in total. EAs were selected independently in every stratum via two-stage random selection process, according to the sample allocation shown in Table A.3. Implicit stratification with proportional allocation was achieved at each of the lower level administrative units by sorting the sampling frame before sample selection within each of the 38 sampling strata, according to administrative units, and by using a probability proportional to size selection strategy at the first stage of sampling.

Because of the large number of study domains and the relatively low fertility rate in most of the provinces, an equal size allocation of about 950 completed interviews in each domain among women was adopted with some adjustment to ensure comparable survey precision for fertility across domains. The sample allocated to each domain was then allocated to the urban and rural areas of the domain with a power allocation in order to oversample urban areas, given that Cambodia is predominantly rural. Phnom Penh was allocated a relatively larger sample size because of its low fertility and large proportion of urban residences. The allocated sample in terms of women interviewed was then converted to number of households and number of EAs by taking estimated nonresponse into account, by using the average number of eligible women age 15-49 per household, and by taking into account the fact that the sample design called for 24 households to be interviewed in each urban EA and 28 in each rural EA. Table A.3 shows the sample allocation in terms of number of EAs and number of households by domain and by type of residence. In total, 611 EAs were needed; 188 were selected from urban areas, and 423 were selected from rural areas.

In the first stage, the 611 sample EAs were selected with probability proportional to EA size according to the sample allocation shown in Table A.3. The EA size is the number of households in the EA. After the sample selection of EAs and before the main survey, a household listing operation was carried out in all of the selected EAs, and the resulting lists of households served as the sampling frame for the selection of households in the second stage. Some of the selected EAs were large in size. In order to reduce the task of household listing, selected EAs that had more than 200 households were segmented; only one segment was selected randomly to include in the survey, with a selection probability proportional to segment size. Household listing was conducted only in the selected segment. Thus, in the 2014 CDHS, a sample “cluster” was either an entire EA or a segment of an EA.

Table A.3 Sample allocation of EAs and households by domain and by type of residence, Cambodia 2014

| Domain                   | Allocation of EAs |       |       | Allocation of households |        |        |
|--------------------------|-------------------|-------|-------|--------------------------|--------|--------|
|                          | Urban             | Rural | Total | Urban                    | Rural  | Total  |
| Banteay Meanchey         | 12                | 20    | 32    | 288                      | 560    | 848    |
| Kampong Cham             | 8                 | 24    | 32    | 192                      | 672    | 864    |
| Kampong Chhnang          | 8                 | 23    | 31    | 192                      | 644    | 836    |
| Kampong Speu             | 8                 | 24    | 32    | 192                      | 672    | 864    |
| Kampong Thom             | 7                 | 25    | 32    | 168                      | 700    | 868    |
| Kandal                   | 9                 | 23    | 32    | 216                      | 644    | 860    |
| Kratie                   | 9                 | 23    | 32    | 216                      | 644    | 860    |
| Phnom Penh               | 35                | 6     | 41    | 840                      | 168    | 1,008  |
| Prey Veng                | 6                 | 26    | 32    | 144                      | 728    | 872    |
| Pursat                   | 7                 | 24    | 31    | 168                      | 672    | 840    |
| Siem Reap                | 11                | 21    | 32    | 264                      | 588    | 852    |
| Svay Rieng               | 6                 | 26    | 32    | 144                      | 728    | 872    |
| Takeo                    | 4                 | 27    | 31    | 96                       | 756    | 852    |
| Otdar Meanchey           | 8                 | 23    | 31    | 192                      | 644    | 836    |
| Battambang/Pailin        | 10                | 21    | 31    | 240                      | 588    | 828    |
| Kampot/Kep               | 8                 | 24    | 32    | 192                      | 672    | 864    |
| Preah Sihanouk/Koh Kong  | 14                | 18    | 32    | 336                      | 504    | 840    |
| Preah Vihear/Stung Treng | 9                 | 23    | 32    | 216                      | 644    | 860    |
| Mondul Kiri/Ratanak Kiri | 9                 | 22    | 31    | 216                      | 616    | 832    |
| Cambodia                 | 188               | 423   | 611   | 4,512                    | 11,844 | 16,356 |

In the second selection stage, a fixed number of 24 households were selected from every urban cluster, and a fixed number of 28 households were selected from every rural cluster, through an equal probability systematic sampling process. The number of sample households from urban and rural areas was 4,512 and 11,844, respectively, with a total sample size of 16,356 households. The sample households for the 2014 CDHS were preselected in the central office before the main survey, and a household selection spreadsheet was prepared to facilitate this household selection. During the main survey, the interviewers were asked to interview only the preselected households. To prevent bias, no replacement was allowed for unfound or nonresponding households. All women age 15-49 in the selected households and men age 15-49 in the subsample of households for male survey were eligible for the individual survey.

Table A.4 shows the expected number of interviews with women and men by domain and by type of residence. The expected numbers of completed interviews with women were 5,989 and 12,749 for urban and rural areas, respectively, with a total of 18,738 interviews. For the male survey, conducted in one in every three households selected for the female survey, the expected numbers of completed interviews with men were 1,710 and 4,046 for urban and rural areas, respectively, for a total of 5,756 interviews.

| Domain                   | Women completed |        |        | Men completed |       |       |
|--------------------------|-----------------|--------|--------|---------------|-------|-------|
|                          | Urban           | Rural  | Total  | Urban         | Rural | Total |
| Banteay Meanchey         | 382             | 604    | 986    | 109           | 192   | 301   |
| Kampong Cham             | 254             | 723    | 977    | 72            | 229   | 301   |
| Kampong Chhnang          | 254             | 693    | 947    | 72            | 220   | 292   |
| Kampong Speu             | 254             | 723    | 977    | 72            | 229   | 301   |
| Kampong Thom             | 223             | 754    | 977    | 64            | 239   | 303   |
| Kandal                   | 287             | 693    | 980    | 82            | 220   | 302   |
| Kratie                   | 287             | 693    | 980    | 82            | 220   | 302   |
| Phnom Penh               | 1,116           | 180    | 1,296  | 319           | 58    | 377   |
| Prey Veng                | 191             | 784    | 975    | 55            | 249   | 304   |
| Pursat                   | 223             | 723    | 946    | 64            | 229   | 293   |
| Siem Reap                | 350             | 633    | 983    | 100           | 201   | 301   |
| Svay Rieng               | 191             | 784    | 975    | 55            | 249   | 304   |
| Takeo                    | 128             | 814    | 942    | 37            | 258   | 295   |
| Otdar Meanchey           | 254             | 693    | 947    | 72            | 220   | 292   |
| Battambang/Pailin        | 319             | 633    | 952    | 91            | 201   | 292   |
| Kampot/Kep               | 254             | 723    | 977    | 72            | 229   | 301   |
| Preah Sihanouk/Koh Kong  | 448             | 543    | 991    | 128           | 173   | 301   |
| Preah Vihear/Stung Treng | 287             | 693    | 980    | 82            | 220   | 302   |
| Mondul Kiri/Ratanak Kiri | 287             | 663    | 950    | 82            | 210   | 292   |
| Cambodia                 | 5,989           | 12,749 | 18,738 | 1,710         | 4,046 | 5,756 |

Note: The male survey was conducted in one of every three households selected for the 2014 CDHS.

The number of expected interviews was calculated based on several facts obtained from the 2010 CDHS: (1) there were an average of 1.42 and 1.15 women age 15-49 in each urban and rural household, respectively, with small variations across domains; (2) the household gross response rate was 96 percent for both urban and rural areas; (3) the individual response rate for women was 98 percent in both urban and rural areas; (4) there were on average 1.25 and 1.05 men age 15-49 in each urban and rural household, respectively, with small variations across domains; and (5) the individual response rate for men was 95 percent in both urban and rural areas.

## A.4 SAMPLING PROBABILITIES

Due to the nonproportional allocation of the sample to the different domains and to urban and rural areas, along with possible differences in response rates, sampling weights are required for any analysis using the 2014 CDHS data to ensure the actual representativeness of the survey results at the national as well as the regional level. Since the 2014 CDHS sample was a two-stage stratified cluster sample, sampling weights were calculated based on sampling probabilities separately for each sampling stage and for each cluster. The following notations were used:

- $P_{1hi}$ : first-stage sampling probability of the  $i^{\text{th}}$  cluster in stratum  $h$   
 $P_{2hi}$ : second-stage sampling probability within the  $i^{\text{th}}$  cluster (household selection)

Let  $n_h$  be the number of clusters selected in stratum  $h$ ,  $M_{hi}$  the number of households according to the sampling frame in the  $i^{\text{th}}$  cluster, and  $\sum M_{hi}$  the total number of households in the stratum. The probability of selecting the  $i^{\text{th}}$  cluster in the 2014 CDHS sample is calculated as follows:

$$\frac{n_h M_{hi}}{\sum M_{hi}}$$



Let  $s_{hi}$  be the proportion of households in the selected segment compared with the total number of households in the EA  $i$  in stratum  $h$  if the EA is segmented; otherwise,  $s_{hi} = 1$ . Then the probability of selecting cluster  $i$  in stratum  $h$  in the sample is:

$$P_{1hi} = \frac{n_h M_{hi}}{\sum M_{hi}} \times s_{hi}$$

Let  $L_{hi}$  be the number of households listed in the household listing operation in cluster  $i$  in stratum  $h$ , and let  $t_{hi}$  be the number of households selected in the cluster. The second stage's selection probability for each household in the cluster is calculated as follows:

$$P_{2hi} = \frac{t_{hi}}{L_{hi}}$$

The overall selection probability of each household in cluster  $i$  of stratum  $h$  is therefore the product of the two stages of selection probabilities:

$$P_{hi} = P_{1hi} \times P_{2hi}$$

The sampling weight for each household in cluster  $i$  of stratum  $h$  is the inverse of its overall selection probability:

$$W_{hi} = 1 / P_{hi}$$

Sampling weights were adjusted for household nonresponse as well as for individual nonresponse in order to calculate the survey weights. A spreadsheet containing all sampling parameters and selection probabilities was prepared to facilitate the calculation of survey weights. Several sets of survey weights were calculated:

- one set for all households and for women's individual surveys
- one set for households selected for the male survey and for men's individual surveys
- one set for women selected for the domestic violence survey
- one set for households in the clusters selected for the micronutrient survey

The differences between the household weights and the individual weights are due to individual nonresponse. The domestic violence survey weight takes the number of eligible women in the household into account because of the selection of only one woman per household. The final survey weights were normalized so that the total number of weighted cases was equal to the total number of unweighted cases at the national level, for both household weights and individual women's and men's weights. The normalized weights are relative weights that are valid for estimating means, proportions, and ratios but are not valid for estimating population totals or pooled data.

Tables A.5 and A.6 show details on response rates for households, women, and men by residence and survey domain.



Table A.5 Sample implementation: Women

Percent distribution of households and eligible women by results of the household and individual interviews, and household, eligible women's, and overall women's response rates, according to urban-rural residence and domain (unweighted), Cambodia 2014

| Result   | Residence |        | Domain              |                 |                    |                 |                 |        |        |               |              |        |
|--|-----------|--------|---------------------|-----------------|--------------------|-----------------|-----------------|--------|--------|---------------|--------------|--------|
|  | Urban     | Rural  | Banteay<br>Meanchey | Kampong<br>Cham | Kampong<br>Chhnang | Kampong<br>Speu | Kampong<br>Thom | Kandal | Kratie | Phnom<br>Penh | Prey<br>Veng | Pursat |
| <b>Selected households</b>                                 |           |        |                     |                 |                    |                 |                 |        |        |               |              |        |
| Completed (C)  | 96.8      | 96.7   | 92.7                | 96.9            | 98.9               | 97.0            | 97.2            | 97.3   | 96.9   | 96.0          | 97.6         | 97.6   |
| Household present but no competent respondent at home (HP) | 0.3       | 0.6    | 0.1                 | 0.3             | 0.4                | 0.7             | 0.0             | 0.5    | 0.2    | 0.5           | 1.9          | 1.1    |
| Postponed (P)  | 0.0       | 0.0    | 0.0                 | 0.0             | 0.0                | 0.0             | 0.0             | 0.0    | 0.0    | 0.0           | 0.0          | 0.0    |
| Refused (R)  | 0.2       | 0.0    | 0.0                 | 0.0             | 0.0                | 0.0             | 0.0             | 0.0    | 0.0    | 0.6           | 0.0          | 0.0    |
| Dwelling not found (DNF)                                   | 0.2       | 0.1    | 0.9                 | 0.1             | 0.0                | 0.0             | 0.0             | 0.0    | 0.0    | 0.2           | 0.0          | 0.0    |
| Household absent (HA)                                      | 1.6       | 2.3    | 5.5                 | 2.4             | 0.7                | 1.9             | 2.8             | 2.1    | 2.8    | 2.0           | 0.2          | 0.8    |
| Dwelling vacant/address not a dwelling (DV)                | 0.8       | 0.2    | 0.6                 | 0.2             | 0.0                | 0.3             | 0.0             | 0.1    | 0.1    | 0.7           | 0.2          | 0.4    |
| Dwelling destroyed (DD)                                    | 0.0       | 0.0    | 0.0                 | 0.0             | 0.0                | 0.0             | 0.0             | 0.0    | 0.0    | 0.0           | 0.0          | 0.0    |
| Other (O)  | 0.0       | 0.0    | 0.1                 | 0.0             | 0.0                | 0.1             | 0.0             | 0.0    | 0.0    | 0.0           | 0.0          | 0.1    |
| Total  | 100.0     | 100.0  | 100.0               | 100.0           | 100.0              | 100.0           | 100.0           | 100.0  | 100.0  | 100.0         | 100.0        | 100.0  |
| Number of sampled households                               | 4,512     | 11,844 | 848                 | 864             | 836                | 864             | 868             | 860    | 860    | 1,008         | 872          | 840    |
| Household response rate (HRR) <sup>1</sup>                 | 99.2      | 99.3   | 98.9                | 99.5            | 99.6               | 99.3            | 100.0           | 99.5   | 99.8   | 98.7          | 98.0         | 98.9   |
| <b>Eligible women</b>                                      |           |        |                     |                 |                    |                 |                 |        |        |               |              |        |
| Completed (EWC)  | 97.0      | 97.9   | 98.4                | 98.3            | 99.2               | 96.4            | 99.6            | 94.9   | 99.3   | 94.9          | 97.8         | 98.5   |
| Not at home (EWNH)   | 1.7       | 1.4    | 0.9                 | 1.0             | 0.4                | 2.0             | 0.2             | 4.3    | 0.2    | 1.9           | 1.2          | 0.6    |
| Refused (EWR)  | 0.8       | 0.2    | 0.0                 | 0.3             | 0.0                | 0.8             | 0.0             | 0.2    | 0.0    | 2.4           | 0.1          | 0.5    |
| Partly completed (EWPC)                                    | 0.1       | 0.0    | 0.0                 | 0.0             | 0.0                | 0.1             | 0.0             | 0.0    | 0.0    | 0.2           | 0.1          | 0.2    |
| Incapacitated (EWI)  | 0.5       | 0.5    | 0.7                 | 0.3             | 0.3                | 0.8             | 0.2             | 0.5    | 0.5    | 0.6           | 0.7          | 0.2    |
| Other (EWO)  | 0.0       | 0.0    | 0.0                 | 0.0             | 0.0                | 0.0             | 0.0             | 0.0    | 0.0    | 0.1           | 0.0          | 0.0    |
| Total  | 100.0     | 100.0  | 100.0               | 100.0           | 100.0              | 100.0           | 100.0           | 100.0  | 100.0  | 100.0         | 100.0        | 100.0  |
| Number of women  | 5,842     | 12,170 | 823                 | 868             | 906                | 1,060           | 909             | 922    | 880    | 1,476         | 837          | 872    |
| Eligible women response rate (EWRR) <sup>2</sup>           | 97.0      | 97.9   | 98.4                | 98.3            | 99.2               | 96.4            | 99.6            | 94.9   | 99.3   | 94.9          | 97.8         | 98.5   |
| Overall women response rate (OWRR) <sup>3</sup>            | 96.3      | 97.2   | 97.3                | 97.8            | 98.9               | 95.7            | 99.6            | 94.5   | 99.1   | 93.6          | 95.9         | 97.4   |

Continued...

Table A.5—Continued

| Result   | Domain    |            |       |                |                   |            |                         |                          |                          | Total  |
|--|-----------|------------|-------|----------------|-------------------|------------|-------------------------|--------------------------|--------------------------|--------|
|  | Siem Reap | Svay Rieng | Takeo | Otdar Meanchey | Battambang/Pailin | Kampot/Kep | Preah Sihanouk/Koh Kong | Preah Vihear/Stung Treng | Mondul Kiri/Ratanak Kiri |        |
| <b>Selected households</b>                                 |           |            |       |                |                   |            |                         |                          |                          |        |
| Completed (C)  | 96.1      | 97.0       | 97.1  | 93.5           | 96.4              | 98.4       | 97.3                    | 96.7                     | 97.7                     | 96.8   |
| Household present but no competent respondent at home (HP) | 1.8       | 0.1        | 0.1   | 0.0            | 0.0               | 0.3        | 0.2                     | 0.9                      | 0.8                      | 0.5    |
| Postponed (P)  | 0.1       | 0.0        | 0.0   | 0.0            | 0.0               | 0.0        | 0.0                     | 0.0                      | 0.0                      | 0.0    |
| Refused (R)  | 0.1       | 0.0        | 0.0   | 0.0            | 0.1               | 0.0        | 0.0                     | 0.1                      | 0.1                      | 0.1    |
| Dwelling not found (DNF)                                   | 0.1       | 0.1        | 0.0   | 0.0            | 0.1               | 0.0        | 0.0                     | 0.0                      | 0.0                      | 0.1    |
| Household absent (HA)                                      | 1.3       | 2.6        | 2.2   | 5.9            | 2.5               | 1.3        | 1.1                     | 1.4                      | 1.1                      | 2.1    |
| Dwelling vacant/address not a dwelling (DV)                | 0.4       | 0.1        | 0.6   | 0.5            | 0.7               | 0.0        | 1.3                     | 0.8                      | 0.2                      | 0.4    |
| Dwelling destroyed (DD)                                    | 0.1       | 0.0        | 0.0   | 0.0            | 0.1               | 0.0        | 0.1                     | 0.0                      | 0.0                      | 0.0    |
| Other (O)  | 0.0       | 0.0        | 0.0   | 0.1            | 0.0               | 0.0        | 0.0                     | 0.0                      | 0.0                      | 0.0    |
| Total  | 100.0     | 100.0      | 100.0 | 100.0          | 100.0             | 100.0      | 100.0                   | 100.0                    | 100.0                    | 100.0  |
| Number of sampled households                               | 852       | 872        | 852   | 836            | 828               | 864        | 840                     | 860                      | 832                      | 16,356 |
| Household response rate (HRR) <sup>1</sup>                 | 97.8      | 99.8       | 99.9  | 100.0          | 99.8              | 99.6       | 99.8                    | 98.9                     | 99.0                     | 99.3   |
| <b>Eligible women</b>                                      |           |            |       |                |                   |            |                         |                          |                          |        |
| Completed (EWC)  | 97.9      | 98.2       | 97.0  | 99.0           | 98.7              | 97.2       | 96.5                    | 97.9                     | 96.9                     | 97.6   |
| Not at home (EWNH)   | 1.5       | 1.0        | 2.1   | 0.6            | 1.0               | 1.9        | 3.0                     | 1.4                      | 2.4                      | 1.5    |
| Refused (EWR)  | 0.0       | 0.1        | 0.2   | 0.0            | 0.1               | 0.1        | 0.1                     | 0.2                      | 0.5                      | 0.4    |
| Partly completed (EWPC)                                    | 0.0       | 0.0        | 0.0   | 0.0            | 0.0               | 0.0        | 0.0                     | 0.0                      | 0.0                      | 0.0    |
| Incapacitated (EWI)  | 0.6       | 0.7        | 0.7   | 0.4            | 0.1               | 0.8        | 0.5                     | 0.5                      | 0.2                      | 0.5    |
| Other (EWO)  | 0.0       | 0.0        | 0.0   | 0.0            | 0.0               | 0.0        | 0.0                     | 0.0                      | 0.0                      | 0.0    |
| Total  | 100.0     | 100.0      | 100.0 | 100.0          | 100.0             | 100.0      | 100.0                   | 100.0                    | 100.0                    | 100.0  |
| Number of women  | 963       | 837        | 895   | 831            | 878               | 905        | 1,047                   | 1,108                    | 995                      | 18,012 |
| Eligible women response rate (EWRR) <sup>2</sup>           | 97.9      | 98.2       | 97.0  | 99.0           | 98.7              | 97.2       | 96.5                    | 97.9                     | 96.9                     | 97.6   |
| Overall women response rate (OWRR) <sup>3</sup>            | 95.8      | 98.0       | 96.9  | 99.0           | 98.5              | 96.9       | 96.2                    | 96.9                     | 95.9                     | 96.9   |

<sup>1</sup> Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

$$\frac{100 * C}{C + HP + P + R + DNF}$$

<sup>2</sup> The eligible women's response rate (EWRR) is equivalent to the percentage of interviews completed (EWC):

$$\frac{100 * EWC}{EWC + EWNH + EWP + EWR + EWPC + EWI + EWO}$$

<sup>3</sup> The overall women's response rate (OWRR) is calculated as OWRR = HRR \* EWRR/100.

Table A.6 Sample implementation: Men

Percent distribution of households and eligible men by results of the household and individual interviews, and household, eligible men's, and overall men's response rates, according to urban-rural residence and domain (unweighted), Cambodia 2014

| Result   | Residence |       | Domain           |              |                 |              |              |        |        |            |           |        |
|--|-----------|-------|------------------|--------------|-----------------|--------------|--------------|--------|--------|------------|-----------|--------|
|  | Urban     | Rural | Banteay Meanchey | Kampong Cham | Kampong Chhnang | Kampong Speu | Kampong Thom | Kandal | Kratie | Phnom Penh | Prey Veng | Pursat |
| <b>Selected households</b>                                 |           |       |                  |              |                 |              |              |        |        |            |           |        |
| Completed (C)  | 96.4      | 97.0  | 91.2             | 98.4         | 98.6            | 96.7         | 96.4         | 98.0   | 96.7   | 96.5       | 98.1      | 98.6   |
| Household present but no competent respondent at home (HP) | 0.2       | 0.4   | 0.0              | 0.3          | 0.3             | 0.3          | 0.0          | 0.0    | 0.0    | 0.3        | 1.3       | 0.3    |
| Refused (R)  | 0.2       | 0.0   | 0.0              | 0.0          | 0.0             | 0.0          | 0.0          | 0.0    | 0.0    | 0.3        | 0.0       | 0.0    |
| Dwelling not found (DNF)                                   | 0.1       | 0.1   | 1.4              | 0.0          | 0.0             | 0.0          | 0.0          | 0.0    | 0.0    | 0.0        | 0.0       | 0.0    |
| Household absent (HA)                                      | 1.8       | 2.4   | 6.4              | 1.3          | 1.0             | 2.3          | 3.6          | 2.0    | 3.0    | 1.8        | 0.3       | 1.0    |
| Dwelling vacant/address not a dwelling (DV)                | 1.2       | 0.2   | 1.0              | 0.0          | 0.0             | 0.7          | 0.0          | 0.0    | 0.3    | 1.2        | 0.3       | 0.0    |
| Dwelling destroyed (DD)                                    | 0.1       | 0.0   | 0.0              | 0.0          | 0.0             | 0.0          | 0.0          | 0.0    | 0.0    | 0.0        | 0.0       | 0.0    |
| Total  | 100.0     | 100.0 | 100.0            | 100.0        | 100.0           | 100.0        | 100.0        | 100.0  | 100.0  | 100.0      | 100.0     | 100.0  |
| Number of sampled households                               | 1,503     | 4,229 | 296              | 304          | 294             | 304          | 306          | 302    | 302    | 340        | 308       | 296    |
| Household response rate (HRR) <sup>1</sup>                 | 99.5      | 99.5  | 98.5             | 99.7         | 99.7            | 99.7         | 100.0        | 100.0  | 100.0  | 99.4       | 98.7      | 99.7   |
| <b>Eligible men</b>  |           |       |                  |              |                 |              |              |        |        |            |           |        |
| Completed (EMC)  | 93.8      | 95.0  | 97.0             | 96.2         | 98.0            | 92.1         | 99.2         | 83.0   | 96.3   | 90.7       | 93.5      | 98.5   |
| Not at home (EMNH)   | 4.3       | 3.7   | 2.2              | 2.6          | 2.0             | 5.5          | 0.0          | 14.6   | 1.9    | 3.7        | 5.7       | 1.1    |
| Postponed (EMP)  | 0.1       | 0.1   | 0.4              | 0.0          | 0.0             | 0.0          | 0.0          | 1.4    | 0.0    | 0.0        | 0.0       | 0.0    |
| Refused (EMR)  | 1.2       | 0.3   | 0.0              | 0.3          | 0.0             | 1.4          | 0.0          | 0.3    | 0.0    | 4.4        | 0.0       | 0.0    |
| Partly completed (EMPC)                                    | 0.0       | 0.1   | 0.0              | 0.3          | 0.0             | 0.0          | 0.0          | 0.0    | 0.0    | 0.0        | 0.0       | 0.0    |
| Incapacitated (EMI)  | 0.5       | 0.8   | 0.4              | 0.6          | 0.0             | 1.0          | 0.8          | 0.7    | 1.9    | 0.9        | 0.8       | 0.4    |
| Other (EMO)  | 0.1       | 0.0   | 0.0              | 0.0          | 0.0             | 0.0          | 0.0          | 0.0    | 0.0    | 0.2        | 0.0       | 0.0    |
| Total  | 100.0     | 100.0 | 100.0            | 100.0        | 100.0           | 100.0        | 100.0        | 100.0  | 100.0  | 100.0      | 100.0     | 100.0  |
| Number of men  | 1,641     | 3,843 | 230              | 312          | 256             | 292          | 263          | 288    | 268    | 431        | 261       | 265    |
| Eligible men response rate (EMRR) <sup>2</sup>             | 93.8      | 95.0  | 97.0             | 96.2         | 98.0            | 92.1         | 99.2         | 83.0   | 96.3   | 90.7       | 93.5      | 98.5   |
| Overall men response rate (OMRR) <sup>3</sup>              | 93.3      | 94.5  | 95.5             | 95.8         | 97.7            | 91.8         | 99.2         | 83.0   | 96.3   | 90.2       | 92.3      | 98.2   |

Continued...

Table A.6—Continued

| Result   | Domain    |            |       |                |                   |            |                         |                          |                          | Total |
|--|-----------|------------|-------|----------------|-------------------|------------|-------------------------|--------------------------|--------------------------|-------|
|  | Siem Reap | Svay Rieng | Takeo | Otdar Meanchey | Battambang/Pailin | Kampot/Kep | Preah Sihanouk/Koh Kong | Preah Vihear/Stung Treng | Mondul Kiri/Ratanak Kiri |       |
| <b>Selected households</b>                                 |           |            |       |                |                   |            |                         |                          |                          |       |
| Completed (C)  | 95.3      | 95.1       | 97.0  | 93.9           | 95.5              | 99.3       | 98.3                    | 97.4                     | 98.6                     | 96.8  |
| Household present but no competent respondent at home (HP) | 2.3       | 0.0        | 0.0   | 0.0            | 0.0               | 0.0        | 0.0                     | 0.7                      | 1.0                      | 0.4   |
| Refused (R)  | 0.0       | 0.0        | 0.0   | 0.0            | 0.0               | 0.0        | 0.0                     | 0.3                      | 0.3                      | 0.1   |
| Dwelling not found (DNF)                                   | 0.0       | 0.0        | 0.0   | 0.0            | 0.3               | 0.0        | 0.0                     | 0.0                      | 0.0                      | 0.1   |
| Household absent (HA)                                      | 1.7       | 4.9        | 2.7   | 5.4            | 2.4               | 0.7        | 1.0                     | 0.7                      | 0.0                      | 2.2   |
| Dwelling vacant/address not a dwelling (DV)                | 0.3       | 0.0        | 0.3   | 0.7            | 1.7               | 0.0        | 0.7                     | 1.0                      | 0.0                      | 0.4   |
| Dwelling destroyed (DD)                                    | 0.3       | 0.0        | 0.0   | 0.0            | 0.0               | 0.0        | 0.0                     | 0.0                      | 0.0                      | 0.0   |
| Total  | 100.0     | 100.0      | 100.0 | 100.0          | 100.0             | 100.0      | 100.0                   | 100.0                    | 100.0                    | 100.0 |
| Number of sampled households                               | 298       | 308        | 301   | 294            | 290               | 304        | 291                     | 302                      | 292                      | 5,732 |
| Household response rate (HRR) <sup>1</sup>                 | 97.6      | 100.0      | 100.0 | 100.0          | 99.6              | 100.0      | 100.0                   | 99.0                     | 98.6                     | 99.5  |
| <b>Eligible men</b>  |           |            |       |                |                   |            |                         |                          |                          |       |
| Completed (EMC)  | 96.6      | 96.0       | 90.0  | 97.2           | 97.3              | 95.0       | 91.1                    | 95.8                     | 98.0                     | 94.6  |
| Not at home (EMNH)   | 2.1       | 1.2        | 8.6   | 2.8            | 2.3               | 3.7        | 8.5                     | 2.4                      | 2.0                      | 3.9   |
| Postponed (EMP)  | 0.0       | 0.0        | 0.0   | 0.0            | 0.0               | 0.0        | 0.0                     | 0.3                      | 0.0                      | 0.1   |
| Refused (EMR)  | 0.0       | 1.2        | 0.0   | 0.0            | 0.0               | 0.3        | 0.0                     | 0.3                      | 0.0                      | 0.5   |
| Partly completed (EMPC)                                    | 0.0       | 0.4        | 0.0   | 0.0            | 0.0               | 0.0        | 0.0                     | 0.0                      | 0.0                      | 0.0   |
| Incapacitated (EMI)  | 1.4       | 1.2        | 1.1   | 0.0            | 0.4               | 1.0        | 0.3                     | 1.0                      | 0.0                      | 0.7   |
| Other (EMO)  | 0.0       | 0.0        | 0.4   | 0.0            | 0.0               | 0.0        | 0.0                     | 0.0                      | 0.0                      | 0.0   |
| Total  | 100.0     | 100.0      | 100.0 | 100.0          | 100.0             | 100.0      | 100.0                   | 100.0                    | 100.0                    | 100.0 |
| Number of men  | 292       | 247        | 280   | 285            | 256               | 299        | 316                     | 286                      | 357                      | 5,484 |
| Eligible men response rate (EMRR) <sup>2</sup>             | 96.6      | 96.0       | 90.0  | 97.2           | 97.3              | 95.0       | 91.1                    | 95.8                     | 98.0                     | 94.6  |
| Overall men response rate (OMRR) <sup>3</sup>              | 94.3      | 96.0       | 90.0  | 97.2           | 96.9              | 95.0       | 91.1                    | 94.8                     | 96.7                     | 94.1  |

<sup>1</sup> Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

$$\frac{100 * C}{C + HP + P + R + DNF}$$

<sup>2</sup> The eligible men's response rate (EMRR) is equivalent to the percentage of interviews completed (EMC):

$$\frac{100 * EMC}{EMC + EMNH + EMP + EMR + EMPC + EMI + EMO}$$

<sup>3</sup> The overall men's response rate (OMRR) is calculated as OMRR = HRR \* EMRR/100.



The estimates from a sample survey are affected by two types of errors: (1) nonsampling errors and (2) sampling errors. Nonsampling errors are the results of mistakes made in implementing data collection and data processing, such as failure to locate and interview the correct household, misunderstanding of the questions on the part of either the interviewer or the respondent, and data entry errors. Although numerous efforts were made during the implementation of the 2014 Cambodia Demographic and Health Survey (CDHS) to minimize this type of error, nonsampling errors are impossible to avoid and difficult to evaluate statistically.

Sampling errors, on the other hand, can be evaluated statistically. The sample of respondents selected in the 2014 CDHS is only one of many samples that could have been selected from the same population, using the same design and identical size. Each of these samples would yield results that differ somewhat from the results of the actual sample selected. Sampling errors are a measure of the variability between all possible samples. Although the degree of variability is not known exactly, it can be estimated from the survey results.

A sampling error is usually measured in terms of the *standard error* for a particular statistic (mean, percentage, etc.), which is the square root of the variance. The standard error can be used to calculate confidence intervals within which the true value for the population can reasonably be assumed to fall. For example, for any given statistic calculated from a sample survey, the value of that statistic will fall within a range of plus or minus two times the standard error of that statistic in 95 percent of all possible samples of identical size and design.

If the sample of respondents had been selected as a simple random sample, it would have been possible to use straightforward formulas for calculating sampling errors. However, the 2014 CDHS sample is the result of a multistage stratified design, and, consequently, it was necessary to use more complex formulae. The computer software used to calculate sampling errors for the 2014 CDHS is an SAS program. This program used the Taylor linearization method for variance estimation for survey estimates that are means or proportions. The Jackknife repeated replication method is used for variance estimation of more complex statistics such as fertility and mortality rates.

The Taylor linearization method treats any percentage or average as a ratio estimate,  $r = y/x$ , where  $y$  represents the total sample value for variable  $y$ , and  $x$  represents the total number of cases in the group or subgroup under consideration. The variance of  $r$  is computed using the formula given below, with the standard error being the square root of the variance:

$$SE^2(r) = var(r) = \frac{1}{x^2} \sum_{h=1}^H \left[ (1 - f_h) \frac{m_h}{m_h - 1} \left( \sum_{i=1}^{m_h} z_{hi}^2 - \frac{z_h^2}{m_h} \right) \right]$$

in which

$$z_{hi} = y_{hi} - rx_{hi}, \text{ and } z_h = y_h - rx_h$$

where  $h$  represents the stratum which varies from 1 to  $H$ ,  
 $m_h$  is the total number of clusters selected in the  $h^{\text{th}}$  stratum,  
 $y_{hi}$  is the sum of the weighted values of variable  $y$  in the  $i^{\text{th}}$  cluster in the  $h^{\text{th}}$  stratum,  
 $x_{hi}$  is the sum of the weighted number of cases in the  $i^{\text{th}}$  cluster in the  $h^{\text{th}}$  stratum, and  
 $f_h$  is the sampling fraction of PSU in the  $h^{\text{th}}$  stratum.

The Jackknife repeated replication method derives estimates of complex rates from each of several replications of the parent sample and calculates standard errors for these estimates using simple formulae. Each replication considers *all but one* cluster in the calculation of the estimates. Pseudo-independent replications are thus created. In the 2014 CDHS, there were 611 non-empty clusters. Hence, 611 replications were created. The variance of a rate  $r$  is calculated as follows:

$$SE^2(r) = var(r) = \frac{1}{k(k-1)} \sum_{i=1}^k (r_i - r)^2$$

in which

$$r_i = kr - (k-1)r_{(i)}$$

where  $r$  is the estimate computed from the full sample of 611 clusters,  
 $r_{(i)}$  is the estimate computed from the reduced sample of 610 clusters ( $i^{\text{th}}$  cluster excluded),  
and  
 $k$  is the total number of clusters.

In addition to the standard error, the program computes the design effect (DEFT) for each estimate, which is defined as the ratio between the standard error using the given sample design and the standard error that would result if a simple random sample had been used. A DEFT value of 1.0 indicates that the sample design is as efficient as a simple random sample, while a value greater than 1.0 indicates the increase in the sampling error due to the use of a more complex and less statistically efficient design, such as multistage and cluster selection. The program also computes the relative standard error and the confidence limits for the estimates.

Sampling errors for the 2014 CDHS are calculated for selected variables considered to be of primary interest for the women's survey and the men's survey. The results are presented in this appendix for the country as a whole, for urban and rural areas, and for each of the 19 study domains. For each variable, the type of statistic (mean, proportion, or rate) and the base population are given in Table B.1. Tables B.2 to B.23 present the value of the statistic (R), its standard error (SE), the number of unweighted (N) and weighted (WN) cases, the design effect (DEFT), the relative standard error (SE/R), and the 95 percent confidence limits ( $R \pm 2SE$ ) for each variable. The DEFT is considered undefined when the standard error considering a simple random sample is zero (when the estimate is close to 0 or 1). In the case of the total fertility rate, the number of unweighted cases is not relevant, as there is no known unweighted value for woman-years of exposure to childbearing.

The confidence interval (e.g., as calculated for *children ever born to women over age 40*) can be interpreted as follows: the overall average from the national sample is 3.850, and its standard error is 0.051. Therefore, to obtain the 95 percent confidence limits, one adds and subtracts twice the standard error to the sample estimate, that is,  $3.850 \pm 2 \times 0.051$ . There is a high probability (95 percent) that the *true* average number of children ever born to all women over age 40 is between 3.748 and 3.952.

For the total sample, the value of the design effect (DEFT), averaged over all variables for the women's survey, is 1.478. This means that, due to multistage clustering of the sample, the average standard error is increased by a factor of 1.478 over that in an equivalent simple random sample.

Table B.1 List of selected variables for sampling errors, Cambodia 2014

| Variable   | Estimate   | Base population                                       |
|--|------------|---|
| WOMEN  |            |   |
| Urban residence                                  | Proportion | All women 15-49                                       |
| No schooling                                     | Proportion | All women 15-49                                       |
| Secondary and higher education                   | Proportion | All women 15-49                                       |
| Never married (never in union)                   | Proportion | All women 15-49                                       |
| Currently married (in union)                     | Proportion | All women 15-49                                       |
| Married before age 20                            | Proportion | Women 25-49   |
| Had first sexual intercourse before age 18       | Proportion | Women 25-49   |
| Children ever born                               | Mean       | All women 15-49                                       |
| Children surviving                               | Mean       | All women 15-49                                       |
| Children ever born to women over age 40          | Mean       | Women age 40-49                                       |
| Knowing any contraceptive method                 | Proportion | Currently married women 15-49                         |
| Knowing any modern contraceptive method          | Proportion | Currently married women 15-49                         |
| Currently using any method                       | Proportion | Currently married women 15-49                         |
| Currently using a modern method                  | Proportion | Currently married women 15-49                         |
| Currently using daily pill                       | Proportion | Currently married women 15-49                         |
| Currently using condom                           | Proportion | Currently married women 15-49                         |
| Currently using injectables                      | Proportion | Currently married women 15-49                         |
| Used public sector source                        | Proportion | Current modern users of women 15-49                   |
| Want no more children                            | Proportion | Currently married women 15-49                         |
| Want to delay at least 2 years                   | Proportion | Currently married women 15-49                         |
| Mothers protected against tetanus for last birth | Proportion | Last birth in last 5 years                            |
| Mothers received medical assistance at delivery  | Proportion | Births in last 5 years                                |
| Had diarrhea in last 2 weeks                     | Proportion | Children under 5                                      |
| Treated with ORS packets or pre-packed liquid    | Proportion | Children under 5 with diarrhea in last 2 weeks        |
| Consulted medical personnel for diarrhea         | Proportion | Children under 5 with diarrhea in last 2 weeks        |
| Having health card, seen                         | Proportion | Children 12-23 months                                 |
| Received BCG vaccination                         | Proportion | Children 12-23 months                                 |
| Received DPT vaccination (3 doses)               | Proportion | Children 12-23 months                                 |
| Received polio vaccination (3 doses)             | Proportion | Children 12-23 months                                 |
| Received measles vaccination                     | Proportion | Children 12-23 months                                 |
| Fully immunized                                  | Proportion | Children 12-23 months                                 |
| Weight-for-height (< -2 SD)                      | Proportion | Children under 5 who were measured                    |
| Height-for-age (< -2 SD)                         | Proportion | Children under 5 who were measured                    |
| Weight-for-age (< -2 SD)                         | Proportion | Children under 5 who were measured                    |
| Prevalence of anemia (children 6-59 months)      | Proportion | Children 6-59 months who were tested                  |
| Prevalence of anemia (women 15-49)               | Proportion | All women 15-49 who were tested                       |
| Body mass index (BMI) < 18.5                     | Proportion | All women 15-49 who were measured                     |
| Had an HIV test and received results             | Proportion | All women 15-49 who had an HIV test in last 12 months |
| Accepting attitudes towards people with HIV      | Proportion | All women 15-49                                       |
| Total fertility rate (last 3 years)              | Rate       | Woman-years of exposure to childbearing               |
| Neonatal mortality rate <sup>1</sup>             | Rate       | Number of births                                      |
| Postneonatal mortality rate <sup>1</sup>         | Rate       | Number of births                                      |
| Infant mortality rate <sup>1</sup>               | Rate       | Number of births                                      |
| Child mortality rate <sup>1</sup>                | Rate       | Number of births                                      |
| Under-5 mortality rate <sup>1</sup>              | Rate       | Number of births                                      |
| MEN  |            |   |
| Urban residence                                  | Proportion | All men 15-49   |
| No schooling                                     | Proportion | All men 15-49   |
| Secondary and higher education                   | Proportion | All men 15-49   |
| Never married (never in union)                   | Proportion | All men 15-49   |
| Currently married (in union)                     | Proportion | All men 15-49   |
| Had first sexual intercourse before age 18       | Proportion | All men 25-49   |
| Want no more children                            | Proportion | All currently married men 15-49                       |
| Want to delay birth at least 2 years             | Proportion | All currently married men 15-49                       |
| Had paid sex in past 12 months                   | Proportion | All men 15-49   |
| Had HIV test and received results                | Proportion | All men 15-49 who had an HIV test in last 12 months   |
| Accepting attitudes towards people with HIV      | Proportion | All men 15-49   |

<sup>1</sup> Mortality rates are calculated for the last 5 years for the total sample and 10 years for domain samples.



Table B.2 Sampling errors: Total sample, Cambodia 2014

| Variable   | R      | SE    | N      | WN     | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|-------|--------|--------|-------|-------|--------|--------|
| WOMEN  |        |       |        |        |       |       |        |        |
| Urban residence  | 0.185  | 0.007 | 17,578 | 17,578 | 2.444 | 0.039 | 0.171  | 0.199  |
| No schooling   | 0.128  | 0.006 | 17,578 | 17,578 | 2.283 | 0.045 | 0.117  | 0.140  |
| Secondary or higher education                          | 0.401  | 0.008 | 17,578 | 17,578 | 2.281 | 0.021 | 0.384  | 0.418  |
| Never married (never in union)                         | 0.252  | 0.004 | 17,578 | 17,578 | 1.297 | 0.017 | 0.243  | 0.260  |
| Currently married (in union)                           | 0.677  | 0.005 | 17,578 | 17,578 | 1.310 | 0.007 | 0.668  | 0.686  |
| Married before age 20                                  | 0.451  | 0.007 | 11,534 | 11,668 | 1.521 | 0.016 | 0.437  | 0.465  |
| Had first sexual intercourse before age 18             | 0.244  | 0.006 | 11,534 | 11,668 | 1.476 | 0.024 | 0.232  | 0.256  |
| Currently pregnant                                     | 0.053  | 0.002 | 17,578 | 17,578 | 1.199 | 0.038 | 0.049  | 0.057  |
| Children ever born                                     | 1.933  | 0.022 | 17,578 | 17,578 | 1.479 | 0.011 | 1.890  | 1.977  |
| Children surviving                                     | 1.775  | 0.019 | 17,578 | 17,578 | 1.437 | 0.011 | 1.737  | 1.813  |
| Children ever born to women age 40-49                  | 3.850  | 0.051 | 3,896  | 3,947  | 1.440 | 0.013 | 3.748  | 3.952  |
| Know any contraceptive method                          | 0.998  | 0.000 | 11,668 | 11,898 | 1.236 | 0.000 | 0.997  | 0.999  |
| Know any modern contraceptive method                   | 0.998  | 0.000 | 11,668 | 11,898 | 1.224 | 0.000 | 0.997  | 0.999  |
| Currently using any method                             | 0.563  | 0.007 | 11,668 | 11,898 | 1.521 | 0.012 | 0.549  | 0.577  |
| Currently using a modern method                        | 0.388  | 0.007 | 11,668 | 11,898 | 1.553 | 0.018 | 0.374  | 0.402  |
| Currently using daily pill                             | 0.176  | 0.006 | 11,668 | 11,898 | 1.685 | 0.034 | 0.164  | 0.187  |
| Currently using male condoms                           | 0.021  | 0.002 | 11,668 | 11,898 | 1.201 | 0.076 | 0.018  | 0.024  |
| Currently using injectables                            | 0.091  | 0.005 | 11,668 | 11,898 | 1.807 | 0.053 | 0.082  | 0.101  |
| Used public sector source                              | 0.472  | 0.012 | 4,583  | 4,663  | 1.672 | 0.026 | 0.448  | 0.497  |
| Want no more children                                  | 0.516  | 0.006 | 11,668 | 11,898 | 1.359 | 0.012 | 0.503  | 0.528  |
| Want to delay next birth at least 2 years              | 0.270  | 0.006 | 11,668 | 11,898 | 1.355 | 0.021 | 0.259  | 0.281  |
| Mothers protected against tetanus for last birth       | 0.886  | 0.007 | 5,901  | 5,973  | 1.608 | 0.008 | 0.872  | 0.899  |
| Mothers received medical assistance at delivery        | 0.890  | 0.009 | 7,165  | 7,253  | 2.129 | 0.010 | 0.872  | 0.909  |
| Had diarrhea in the last 2 weeks                       | 0.128  | 0.006 | 6,971  | 7,044  | 1.357 | 0.044 | 0.117  | 0.139  |
| Treated with ORS packets or pre-packed liquid          | 0.352  | 0.024 | 855    | 902    | 1.429 | 0.068 | 0.304  | 0.400  |
| Consulted medical personnel for diarrhea               | 0.555  | 0.023 | 855    | 902    | 1.335 | 0.042 | 0.508  | 0.601  |
| Vaccination card seen                                  | 0.773  | 0.014 | 1,441  | 1,460  | 1.300 | 0.019 | 0.744  | 0.802  |
| Received BCG vaccination                               | 0.961  | 0.006 | 1,441  | 1,460  | 1.115 | 0.006 | 0.949  | 0.972  |
| Received DPT vaccination (3 doses)                     | 0.837  | 0.014 | 1,441  | 1,460  | 1.443 | 0.017 | 0.808  | 0.865  |
| Received polio vaccination (3 doses)                   | 0.823  | 0.014 | 1,441  | 1,460  | 1.382 | 0.017 | 0.795  | 0.851  |
| Received measles vaccination                           | 0.786  | 0.015 | 1,441  | 1,460  | 1.404 | 0.019 | 0.756  | 0.816  |
| Received all basic vaccinations                        | 0.734  | 0.016 | 1,441  | 1,460  | 1.396 | 0.022 | 0.702  | 0.767  |
| Height-for-age (-2SD)                                  | 0.324  | 0.009 | 4,889  | 4,893  | 1.340 | 0.029 | 0.305  | 0.343  |
| Weight-for-height (-2SD)                               | 0.096  | 0.006 | 4,889  | 4,893  | 1.314 | 0.059 | 0.085  | 0.107  |
| Weight-for-age (-2SD)                                  | 0.239  | 0.009 | 4,889  | 4,893  | 1.402 | 0.037 | 0.222  | 0.257  |
| Prevalence of anemia (children 6-59 months)            | 0.555  | 0.011 | 4,468  | 4,456  | 1.404 | 0.019 | 0.534  | 0.576  |
| Prevalence of anemia (women 15-49)                     | 0.454  | 0.006 | 11,390 | 11,286 | 1.304 | 0.013 | 0.441  | 0.466  |
| Body mass index (BMI) <18.5                            | 0.140  | 0.004 | 10,686 | 10,624 | 1.284 | 0.031 | 0.131  | 0.149  |
| Had an HIV test and received results in past 12 months | 0.095  | 0.003 | 17,578 | 17,578 | 1.301 | 0.030 | 0.089  | 0.100  |
| Accepting attitudes towards people with HIV            | 0.298  | 0.006 | 17,121 | 17,243 | 1.833 | 0.022 | 0.285  | 0.310  |
| Total fertility rate (last 3 years)                    | 2.724  | 0.055 | 49,864 | 49,875 | 1.342 | 0.020 | 2.614  | 2.834  |
| Neonatal mortality (last 0-4 years)                    | 17.802 | 2.444 | 7,213  | 7,312  | 1.456 | 0.137 | 12.913 | 22.691 |
| Postneonatal mortality (last 0-4 years)                | 10.156 | 1.502 | 7,182  | 7,276  | 1.256 | 0.148 | 7.153  | 13.159 |
| Infant mortality (last 0-4 years)                      | 27.958 | 2.911 | 7,225  | 7,325  | 1.396 | 0.104 | 22.136 | 33.780 |
| Child mortality (last 0-4 years)                       | 6.956  | 1.190 | 7,011  | 7,147  | 1.236 | 0.171 | 4.576  | 9.335  |
| Under-5 mortality (last 0-4 years)                     | 34.719 | 3.293 | 7,251  | 7,350  | 1.457 | 0.095 | 28.134 | 41.305 |
| MEN  |        |       |        |        |       |       |        |        |
| Urban residence  | 0.167  | 0.008 | 5,190  | 5,190  | 1.530 | 0.047 | 0.152  | 0.183  |
| No education   | 0.062  | 0.005 | 5,190  | 5,190  | 1.379 | 0.074 | 0.053  | 0.072  |
| Secondary or higher education                          | 0.520  | 0.012 | 5,190  | 5,190  | 1.731 | 0.023 | 0.496  | 0.544  |
| Never married (in union)                               | 0.320  | 0.008 | 5,190  | 5,190  | 1.240 | 0.025 | 0.304  | 0.337  |
| Currently married (in union)                           | 0.656  | 0.008 | 5,190  | 5,190  | 1.283 | 0.013 | 0.639  | 0.673  |
| Had first sexual intercourse before age 18             | 0.099  | 0.007 | 3,363  | 3,430  | 1.367 | 0.071 | 0.085  | 0.114  |
| Want no more children                                  | 0.507  | 0.011 | 3,320  | 3,405  | 1.271 | 0.022 | 0.485  | 0.529  |
| Want to delay birth at least 2 years                   | 0.325  | 0.011 | 3,320  | 3,405  | 1.323 | 0.033 | 0.304  | 0.347  |
| Had paid sex in past 12 months                         | 0.031  | 0.003 | 5,190  | 5,190  | 1.119 | 0.087 | 0.025  | 0.036  |
| Had HIV test and received results in past 12 months    | 0.087  | 0.006 | 5,190  | 5,190  | 1.490 | 0.067 | 0.075  | 0.099  |
| Accepting attitudes towards people with HIV            | 0.371  | 0.009 | 5,070  | 5,091  | 1.381 | 0.025 | 0.352  | 0.390  |

Table B.3 Sampling errors: Urban sample, Cambodia 2014

| Variable   | R      | SE    | N      | WN    | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|-------|--------|-------|-------|-------|--------|--------|
| WOMEN  |        |       |        |       |       |       |        |        |
| Urban residence  | 1.000  | 0.000 | 5,667  | 3,251 | na    | 0.000 | 1.000  | 1.000  |
| No schooling   | 0.054  | 0.006 | 5,667  | 3,251 | 1.925 | 0.107 | 0.042  | 0.065  |
| Secondary or higher education                          | 0.654  | 0.014 | 5,667  | 3,251 | 2.226 | 0.022 | 0.626  | 0.682  |
| Never married (never in union)                         | 0.365  | 0.010 | 5,667  | 3,251 | 1.573 | 0.028 | 0.345  | 0.385  |
| Currently married (in union)                           | 0.559  | 0.011 | 5,667  | 3,251 | 1.681 | 0.020 | 0.537  | 0.582  |
| Married before age 20                                  | 0.362  | 0.012 | 3,659  | 2,080 | 1.549 | 0.034 | 0.338  | 0.387  |
| Had first sexual intercourse before age 18             | 0.181  | 0.008 | 3,659  | 2,080 | 1.273 | 0.045 | 0.165  | 0.198  |
| Currently pregnant                                     | 0.049  | 0.004 | 5,667  | 3,251 | 1.300 | 0.076 | 0.042  | 0.057  |
| Children ever born                                     | 1.387  | 0.033 | 5,667  | 3,251 | 1.557 | 0.024 | 1.321  | 1.454  |
| Children surviving                                     | 1.324  | 0.031 | 5,667  | 3,251 | 1.533 | 0.023 | 1.262  | 1.385  |
| Children ever born to women age 40-49                  | 2.968  | 0.092 | 1,171  | 642   | 1.691 | 0.031 | 2.784  | 3.152  |
| Know any contraceptive method                          | 0.999  | 0.001 | 3,330  | 1,818 | 1.057 | 0.001 | 0.998  | 1.000  |
| Know any modern contraceptive method                   | 0.999  | 0.001 | 3,330  | 1,818 | 1.057 | 0.001 | 0.998  | 1.000  |
| Currently using any method                             | 0.598  | 0.012 | 3,330  | 1,818 | 1.416 | 0.020 | 0.574  | 0.622  |
| Currently using a modern method                        | 0.328  | 0.010 | 3,330  | 1,818 | 1.196 | 0.030 | 0.309  | 0.348  |
| Currently using daily pill                             | 0.133  | 0.010 | 3,330  | 1,818 | 1.660 | 0.073 | 0.114  | 0.153  |
| Currently using male condoms                           | 0.051  | 0.006 | 3,330  | 1,818 | 1.604 | 0.120 | 0.039  | 0.064  |
| Currently using injectables                            | 0.029  | 0.004 | 3,330  | 1,818 | 1.276 | 0.129 | 0.021  | 0.036  |
| Used public sector source                              | 0.240  | 0.016 | 1,154  | 626   | 1.253 | 0.066 | 0.208  | 0.271  |
| Want no more children                                  | 0.508  | 0.013 | 3,330  | 1,818 | 1.484 | 0.025 | 0.483  | 0.534  |
| Want to delay next birth at least 2 years              | 0.255  | 0.011 | 3,330  | 1,818 | 1.493 | 0.044 | 0.232  | 0.278  |
| Mothers protected against tetanus for last birth       | 0.929  | 0.010 | 1,628  | 876   | 1.509 | 0.010 | 0.909  | 0.948  |
| Mothers received medical assistance at delivery        | 0.978  | 0.005 | 1,950  | 1,041 | 1.402 | 0.005 | 0.967  | 0.988  |
| Had diarrhea in the last 2 weeks                       | 0.125  | 0.011 | 1,923  | 1,033 | 1.412 | 0.090 | 0.103  | 0.148  |
| Treated with ORS packets or pre-packed liquid          | 0.302  | 0.044 | 208    | 129   | 1.462 | 0.144 | 0.215  | 0.390  |
| Consulted medical personnel for diarrhea               | 0.470  | 0.040 | 208    | 129   | 1.187 | 0.084 | 0.390  | 0.549  |
| Vaccination card seen                                  | 0.713  | 0.032 | 406    | 217   | 1.403 | 0.045 | 0.649  | 0.777  |
| Received BCG vaccination                               | 0.976  | 0.010 | 406    | 217   | 1.349 | 0.011 | 0.955  | 0.997  |
| Received DPT vaccination (3 doses)                     | 0.929  | 0.015 | 406    | 217   | 1.190 | 0.017 | 0.898  | 0.959  |
| Received polio vaccination (3 doses)                   | 0.900  | 0.017 | 406    | 217   | 1.146 | 0.019 | 0.865  | 0.934  |
| Received measles vaccination                           | 0.907  | 0.017 | 406    | 217   | 1.185 | 0.019 | 0.873  | 0.942  |
| Received all basic vaccinations                        | 0.864  | 0.020 | 406    | 217   | 1.156 | 0.023 | 0.825  | 0.904  |
| Height-for-age (-2SD)                                  | 0.237  | 0.017 | 1,311  | 674   | 1.425 | 0.073 | 0.203  | 0.272  |
| Weight-for-height (-2SD)                               | 0.075  | 0.008 | 1,311  | 674   | 1.058 | 0.106 | 0.059  | 0.091  |
| Weight-for-age (-2SD)                                  | 0.148  | 0.013 | 1,311  | 674   | 1.237 | 0.086 | 0.123  | 0.174  |
| Prevalence of anemia (children 6-59 months)            | 0.434  | 0.019 | 1,163  | 591   | 1.237 | 0.043 | 0.397  | 0.471  |
| Prevalence of anemia (women 15-49)                     | 0.394  | 0.010 | 3,765  | 2,156 | 1.266 | 0.026 | 0.374  | 0.414  |
| Body mass index (BMI) <18.5                            | 0.135  | 0.008 | 3,583  | 2,056 | 1.354 | 0.057 | 0.120  | 0.151  |
| Had an HIV test and received results in past 12 months | 0.128  | 0.006 | 5,667  | 3,251 | 1.461 | 0.051 | 0.115  | 0.141  |
| Accepting attitudes towards people with HIV            | 0.298  | 0.010 | 5,629  | 3,238 | 1.649 | 0.034 | 0.278  | 0.319  |
| Total fertility rate (last 3 years)                    | 2.094  | 0.072 | 16,169 | 9,296 | 1.158 | 0.034 | 1.950  | 2.238  |
| Neonatal mortality (last 0-9 years)                    | 9.621  | 1.946 | 3,830  | 2,027 | 1.141 | 0.202 | 5.730  | 13.513 |
| Postneonatal mortality (last 0-9 years)                | 3.870  | 1.061 | 3,830  | 2,021 | 0.820 | 0.274 | 1.748  | 5.992  |
| Infant mortality (last 0-9 years)                      | 13.491 | 2.310 | 3,830  | 2,027 | 1.058 | 0.171 | 8.871  | 18.111 |
| Child mortality (last 0-9 years)                       | 4.518  | 1.583 | 3,785  | 1,997 | 1.391 | 0.350 | 1.353  | 7.683  |
| Under-5 mortality (last 0-9 years)                     | 17.948 | 2.707 | 3,834  | 2,028 | 1.045 | 0.151 | 12.534 | 23.362 |
| MEN  |        |       |        |       |       |       |        |        |
| Urban residence  | 1.000  | 0.000 | 1,540  | 869   | na    | 0.000 | 1.000  | 1.000  |
| No education   | 0.010  | 0.002 | 1,540  | 869   | 0.869 | 0.215 | 0.006  | 0.015  |
| Secondary or higher education                          | 0.789  | 0.019 | 1,540  | 869   | 1.859 | 0.024 | 0.751  | 0.828  |
| Never married (in union)                               | 0.444  | 0.016 | 1,540  | 869   | 1.292 | 0.037 | 0.412  | 0.477  |
| Currently married (in union)                           | 0.536  | 0.016 | 1,540  | 869   | 1.245 | 0.030 | 0.504  | 0.567  |
| Had first sexual intercourse before age 18             | 0.058  | 0.011 | 981    | 545   | 1.462 | 0.189 | 0.036  | 0.079  |
| Want no more children                                  | 0.479  | 0.024 | 867    | 465   | 1.417 | 0.050 | 0.431  | 0.527  |
| Want to delay birth at least 2 years                   | 0.314  | 0.023 | 867    | 465   | 1.483 | 0.075 | 0.267  | 0.361  |
| Had paid sex in past 12 months                         | 0.066  | 0.008 | 1,540  | 869   | 1.305 | 0.125 | 0.049  | 0.082  |
| Had HIV test and received results in past 12 months    | 0.124  | 0.011 | 1,540  | 869   | 1.326 | 0.090 | 0.102  | 0.147  |
| Accepting attitudes towards people with HIV            | 0.349  | 0.016 | 1,527  | 864   | 1.326 | 0.046 | 0.317  | 0.382  |

Table B.4 Sampling errors: Rural sample, Cambodia 2014

| Variable   | R      | SE    | N      | WN     | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|-------|--------|--------|-------|-------|--------|--------|
| WOMEN  |        |       |        |        |       |       |        |        |
| Urban residence  | 0.000  | 0.000 | 11,911 | 14,327 | na    | na    | 0.000  | 0.000  |
| No schooling   | 0.145  | 0.007 | 11,911 | 14,327 | 2.149 | 0.048 | 0.131  | 0.159  |
| Secondary or higher education                          | 0.343  | 0.010 | 11,911 | 14,327 | 2.209 | 0.028 | 0.324  | 0.363  |
| Never married (never in union)                         | 0.226  | 0.005 | 11,911 | 14,327 | 1.199 | 0.020 | 0.217  | 0.235  |
| Currently married (in union)                           | 0.704  | 0.005 | 11,911 | 14,327 | 1.184 | 0.007 | 0.694  | 0.713  |
| Married before age 20                                  | 0.470  | 0.008 | 7,875  | 9,589  | 1.443 | 0.017 | 0.454  | 0.486  |
| Had first sexual intercourse before age 18             | 0.257  | 0.007 | 7,875  | 9,589  | 1.405 | 0.027 | 0.243  | 0.271  |
| Currently pregnant                                     | 0.054  | 0.002 | 11,911 | 14,327 | 1.131 | 0.043 | 0.049  | 0.059  |
| Children ever born                                     | 2.057  | 0.026 | 11,911 | 14,327 | 1.380 | 0.012 | 2.006  | 2.109  |
| Children surviving                                     | 1.877  | 0.022 | 11,911 | 14,327 | 1.342 | 0.012 | 1.833  | 1.921  |
| Children ever born to women age 40-49                  | 4.022  | 0.057 | 2,725  | 3,305  | 1.333 | 0.014 | 3.908  | 4.135  |
| Know any contraceptive method                          | 0.998  | 0.001 | 8,338  | 10,080 | 1.166 | 0.001 | 0.997  | 0.999  |
| Know any modern contraceptive method                   | 0.998  | 0.001 | 8,338  | 10,080 | 1.153 | 0.001 | 0.997  | 0.999  |
| Currently using any method                             | 0.557  | 0.008 | 8,338  | 10,080 | 1.460 | 0.014 | 0.541  | 0.573  |
| Currently using a modern method                        | 0.399  | 0.008 | 8,338  | 10,080 | 1.505 | 0.020 | 0.383  | 0.415  |
| Currently using daily pill                             | 0.183  | 0.007 | 8,338  | 10,080 | 1.601 | 0.037 | 0.170  | 0.197  |
| Currently using male condoms                           | 0.016  | 0.002 | 8,338  | 10,080 | 1.139 | 0.099 | 0.012  | 0.019  |
| Currently using injectables                            | 0.103  | 0.006 | 8,338  | 10,080 | 1.672 | 0.054 | 0.092  | 0.114  |
| Used public sector source                              | 0.508  | 0.014 | 3,429  | 4,038  | 1.622 | 0.027 | 0.481  | 0.536  |
| Want no more children                                  | 0.517  | 0.007 | 8,338  | 10,080 | 1.289 | 0.014 | 0.503  | 0.531  |
| Want to delay next birth at least 2 years              | 0.273  | 0.006 | 8,338  | 10,080 | 1.278 | 0.023 | 0.260  | 0.285  |
| Mothers protected against tetanus for last birth       | 0.878  | 0.008 | 4,273  | 5,096  | 1.503 | 0.009 | 0.863  | 0.893  |
| Mothers received medical assistance at delivery        | 0.876  | 0.011 | 5,215  | 6,212  | 1.978 | 0.012 | 0.855  | 0.897  |
| Had diarrhea in the last 2 weeks                       | 0.129  | 0.006 | 5,048  | 6,011  | 1.290 | 0.049 | 0.116  | 0.141  |
| Treated with ORS packets or pre-packed liquid          | 0.361  | 0.027 | 647    | 772    | 1.358 | 0.076 | 0.306  | 0.415  |
| Consulted medical personnel for diarrhea               | 0.569  | 0.026 | 647    | 772    | 1.287 | 0.046 | 0.516  | 0.621  |
| Vaccination card seen                                  | 0.783  | 0.016 | 1,035  | 1,244  | 1.237 | 0.020 | 0.752  | 0.815  |
| Received BCG vaccination                               | 0.958  | 0.006 | 1,035  | 1,244  | 1.037 | 0.007 | 0.945  | 0.971  |
| Received DPT vaccination (3 doses)                     | 0.821  | 0.016 | 1,035  | 1,244  | 1.365 | 0.020 | 0.788  | 0.853  |
| Received polio vaccination (3 doses)                   | 0.809  | 0.016 | 1,035  | 1,244  | 1.318 | 0.020 | 0.777  | 0.842  |
| Received measles vaccination                           | 0.765  | 0.018 | 1,035  | 1,244  | 1.324 | 0.023 | 0.730  | 0.800  |
| Received all basic vaccinations                        | 0.712  | 0.019 | 1,035  | 1,244  | 1.328 | 0.026 | 0.674  | 0.749  |
| Height-for-age (-2SD)                                  | 0.338  | 0.010 | 3,578  | 4,219  | 1.268 | 0.031 | 0.317  | 0.359  |
| Weight-for-height (-2SD)                               | 0.099  | 0.006 | 3,578  | 4,219  | 1.256 | 0.064 | 0.087  | 0.112  |
| Weight-for-age (-2SD)                                  | 0.254  | 0.010 | 3,578  | 4,219  | 1.331 | 0.039 | 0.234  | 0.273  |
| Prevalence of anemia (children 6-59 months)            | 0.574  | 0.012 | 3,305  | 3,864  | 1.352 | 0.021 | 0.550  | 0.597  |
| Prevalence of anemia (women 15-49)                     | 0.468  | 0.007 | 7,625  | 9,130  | 1.249 | 0.015 | 0.453  | 0.482  |
| Body mass index (BMI) <18.5                            | 0.141  | 0.005 | 7,103  | 8,569  | 1.220 | 0.036 | 0.131  | 0.151  |
| Had an HIV test and received results in past 12 months | 0.087  | 0.003 | 11,911 | 14,327 | 1.228 | 0.036 | 0.081  | 0.093  |
| Accepting attitudes towards people with HIV            | 0.297  | 0.008 | 11,492 | 14,005 | 1.767 | 0.025 | 0.282  | 0.312  |
| Total fertility rate (last 3 years)                    | 2.885  | 0.061 | 33,695 | 40,579 | 1.269 | 0.021 | 2.763  | 3.008  |
| Neonatal mortality (last 0-9 years)                    | 22.915 | 1.882 | 10,747 | 12,804 | 1.213 | 0.082 | 19.150 | 26.679 |
| Postneonatal mortality (last 0-9 years)                | 19.557 | 1.848 | 10,745 | 12,795 | 1.207 | 0.095 | 15.860 | 23.253 |
| Infant mortality (last 0-9 years)                      | 42.472 | 2.880 | 10,758 | 12,813 | 1.313 | 0.068 | 36.712 | 48.231 |
| Child mortality (last 0-9 years)                       | 10.393 | 1.301 | 10,639 | 12,648 | 1.292 | 0.125 | 7.792  | 12.995 |
| Under-5 mortality (last 0-9 years)                     | 52.424 | 3.302 | 10,786 | 12,845 | 1.376 | 0.063 | 45.820 | 59.027 |
| MEN  |        |       |        |        |       |       |        |        |
| Urban residence  | 0.000  | 0.000 | 3,650  | 4,321  | na    | na    | 0.000  | 0.000  |
| No education   | 0.073  | 0.006 | 3,650  | 4,321  | 1.291 | 0.076 | 0.062  | 0.084  |
| Secondary or higher education                          | 0.466  | 0.014 | 3,650  | 4,321  | 1.699 | 0.030 | 0.438  | 0.494  |
| Never married (in union)                               | 0.296  | 0.009 | 3,650  | 4,321  | 1.217 | 0.031 | 0.277  | 0.314  |
| Currently married (in union)                           | 0.680  | 0.010 | 3,650  | 4,321  | 1.267 | 0.014 | 0.661  | 0.700  |
| Had first sexual intercourse before age 18             | 0.107  | 0.008 | 2,382  | 2,885  | 1.278 | 0.076 | 0.091  | 0.123  |
| Want no more children                                  | 0.512  | 0.012 | 2,453  | 2,940  | 1.210 | 0.024 | 0.487  | 0.536  |
| Want to delay birth at least 2 years                   | 0.327  | 0.012 | 2,453  | 2,940  | 1.254 | 0.036 | 0.303  | 0.351  |
| Had paid sex in past 12 months                         | 0.024  | 0.003 | 3,650  | 4,321  | 1.045 | 0.111 | 0.018  | 0.029  |
| Had HIV test and received results in past 12 months    | 0.079  | 0.007 | 3,650  | 4,321  | 1.490 | 0.084 | 0.066  | 0.093  |
| Accepting attitudes towards people with HIV            | 0.375  | 0.011 | 3,543  | 4,227  | 1.325 | 0.029 | 0.354  | 0.397  |

Table B.5 Sampling errors: Banteay Meanchey sample, Cambodia 2014

| Variable   | R      | SE    | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|-------|-------|-------|-------|-------|--------|--------|
| WOMEN  |        |       |       |       |       |       |        |        |
| Urban residence  | 0.242  | 0.036 | 810   | 689   | 2.365 | 0.147 | 0.171  | 0.314  |
| No schooling   | 0.128  | 0.027 | 810   | 689   | 2.292 | 0.211 | 0.074  | 0.182  |
| Secondary or higher education                          | 0.338  | 0.040 | 810   | 689   | 2.420 | 0.119 | 0.257  | 0.418  |
| Never married (never in union)                         | 0.216  | 0.012 | 810   | 689   | 0.816 | 0.055 | 0.192  | 0.239  |
| Currently married (in union)                           | 0.730  | 0.012 | 810   | 689   | 0.799 | 0.017 | 0.705  | 0.755  |
| Married before age 20                                  | 0.455  | 0.034 | 535   | 457   | 1.559 | 0.074 | 0.387  | 0.522  |
| Had first sexual intercourse before age 18             | 0.239  | 0.024 | 535   | 457   | 1.281 | 0.099 | 0.192  | 0.287  |
| Currently pregnant                                     | 0.052  | 0.008 | 810   | 689   | 1.078 | 0.163 | 0.035  | 0.068  |
| Children ever born                                     | 1.950  | 0.073 | 810   | 689   | 1.064 | 0.037 | 1.804  | 2.096  |
| Children surviving                                     | 1.788  | 0.074 | 810   | 689   | 1.208 | 0.041 | 1.641  | 1.936  |
| Children ever born to women age 40-49                  | 3.997  | 0.197 | 201   | 169   | 1.245 | 0.049 | 3.603  | 4.390  |
| Know any contraceptive method                          | 0.998  | 0.002 | 567   | 503   | 1.130 | 0.002 | 0.993  | 1.002  |
| Know any modern contraceptive method                   | 0.998  | 0.002 | 567   | 503   | 1.130 | 0.002 | 0.993  | 1.002  |
| Currently using any method                             | 0.614  | 0.031 | 567   | 503   | 1.509 | 0.050 | 0.552  | 0.676  |
| Currently using a modern method                        | 0.510  | 0.041 | 567   | 503   | 1.958 | 0.081 | 0.428  | 0.593  |
| Currently using daily pill                             | 0.229  | 0.020 | 567   | 503   | 1.126 | 0.087 | 0.189  | 0.269  |
| Currently using male condoms                           | 0.022  | 0.007 | 567   | 503   | 1.084 | 0.303 | 0.009  | 0.036  |
| Currently using injectables                            | 0.147  | 0.046 | 567   | 503   | 3.076 | 0.314 | 0.055  | 0.240  |
| Used public sector source                              | 0.483  | 0.066 | 260   | 258   | 2.107 | 0.136 | 0.351  | 0.615  |
| Want no more children                                  | 0.481  | 0.024 | 567   | 503   | 1.159 | 0.051 | 0.432  | 0.529  |
| Want to delay next birth at least 2 years              | 0.325  | 0.025 | 567   | 503   | 1.249 | 0.076 | 0.276  | 0.374  |
| Mothers protected against tetanus for last birth       | 0.938  | 0.013 | 259   | 219   | 0.853 | 0.014 | 0.912  | 0.964  |
| Mothers received medical assistance at delivery        | 0.958  | 0.017 | 300   | 253   | 1.184 | 0.017 | 0.925  | 0.991  |
| Had diarrhea in the last 2 weeks                       | 0.130  | 0.020 | 297   | 250   | 0.987 | 0.157 | 0.089  | 0.170  |
| Treated with ORS packets or pre-packed liquid          | 0.349  | 0.092 | 35    | 32    | 1.094 | 0.264 | 0.165  | 0.534  |
| Consulted medical personnel for diarrhea               | 0.521  | 0.110 | 35    | 32    | 1.285 | 0.212 | 0.300  | 0.742  |
| Vaccination card seen                                  | 0.888  | 0.037 | 70    | 63    | 0.995 | 0.042 | 0.814  | 0.963  |
| Received BCG vaccination                               | 0.964  | 0.026 | 70    | 63    | 1.157 | 0.027 | 0.912  | 1.015  |
| Received DPT vaccination (3 doses)                     | 0.940  | 0.029 | 70    | 63    | 1.042 | 0.031 | 0.882  | 0.999  |
| Received polio vaccination (3 doses)                   | 0.940  | 0.029 | 70    | 63    | 1.042 | 0.031 | 0.882  | 0.999  |
| Received measles vaccination                           | 0.934  | 0.030 | 70    | 63    | 1.023 | 0.032 | 0.874  | 0.994  |
| Received all basic vaccinations                        | 0.913  | 0.036 | 70    | 63    | 1.066 | 0.039 | 0.842  | 0.985  |
| Height-for-age (-2SD)                                  | 0.286  | 0.025 | 283   | 241   | 0.907 | 0.089 | 0.235  | 0.337  |
| Weight-for-height (-2SD)                               | 0.078  | 0.018 | 283   | 241   | 1.070 | 0.228 | 0.043  | 0.114  |
| Weight-for-age (-2SD)                                  | 0.170  | 0.023 | 283   | 241   | 0.978 | 0.133 | 0.125  | 0.215  |
| Prevalence of anemia (children 6-59 months)            | 0.397  | 0.041 | 261   | 222   | 1.289 | 0.103 | 0.315  | 0.479  |
| Prevalence of anemia (women 15-49)                     | 0.305  | 0.027 | 528   | 450   | 1.332 | 0.087 | 0.252  | 0.359  |
| Body mass index (BMI) <18.5                            | 0.107  | 0.016 | 493   | 418   | 1.147 | 0.150 | 0.075  | 0.139  |
| Had an HIV test and received results in past 12 months | 0.121  | 0.015 | 810   | 689   | 1.268 | 0.120 | 0.092  | 0.150  |
| Accepting attitudes towards people with HIV            | 0.167  | 0.018 | 805   | 686   | 1.332 | 0.105 | 0.132  | 0.202  |
| Total fertility rate (last 3 years)                    | 2.786  | 0.214 | 2,299 | 1,956 | 1.081 | 0.077 | 2.357  | 3.215  |
| Neonatal mortality (last 0-9 years)                    | 19.821 | 5.290 | 641   | 544   | 0.905 | 0.267 | 9.242  | 30.400 |
| Postneonatal mortality (last 0-9 years)                | 9.159  | 5.084 | 639   | 542   | 1.288 | 0.555 | 0.000  | 19.328 |
| Infant mortality (last 0-9 years)                      | 28.980 | 5.976 | 641   | 544   | 0.896 | 0.206 | 17.028 | 40.931 |
| Child mortality (last 0-9 years)                       | 2.940  | 2.133 | 621   | 530   | 0.954 | 0.725 | 0.000  | 7.207  |
| Under-5 mortality (last 0-9 years)                     | 31.835 | 5.808 | 642   | 544   | 0.844 | 0.182 | 20.219 | 43.450 |
| MEN  |        |       |       |       |       |       |        |        |
| Urban residence  | 0.183  | 0.033 | 223   | 192   | 1.263 | 0.180 | 0.117  | 0.248  |
| No education   | 0.075  | 0.020 | 223   | 192   | 1.117 | 0.264 | 0.035  | 0.114  |
| Secondary or higher education                          | 0.470  | 0.052 | 223   | 192   | 1.544 | 0.110 | 0.367  | 0.574  |
| Never married (in union)                               | 0.299  | 0.023 | 223   | 192   | 0.752 | 0.077 | 0.253  | 0.345  |
| Currently married (in union)                           | 0.682  | 0.023 | 223   | 192   | 0.724 | 0.033 | 0.637  | 0.728  |
| Had first sexual intercourse before age 18             | 0.075  | 0.028 | 152   | 128   | 1.292 | 0.370 | 0.020  | 0.131  |
| Want no more children                                  | 0.506  | 0.046 | 152   | 131   | 1.117 | 0.090 | 0.415  | 0.597  |
| Want to delay birth at least 2 years                   | 0.287  | 0.039 | 152   | 131   | 1.046 | 0.134 | 0.210  | 0.364  |
| Had paid sex in past 12 months                         | 0.021  | 0.009 | 223   | 192   | 0.982 | 0.450 | 0.002  | 0.040  |
| Had HIV test and received results in past 12 months    | 0.052  | 0.018 | 223   | 192   | 1.191 | 0.342 | 0.016  | 0.087  |
| Accepting attitudes towards people with HIV            | 0.294  | 0.053 | 223   | 192   | 1.711 | 0.179 | 0.189  | 0.399  |

Table B.6 Sampling errors: Kampong Cham sample, Cambodia 2014

| Variable   | R      | SE     | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|--------|-------|-------|-------|-------|--------|--------|
| WOMEN  |        |        |       |       |       |       |        |        |
| Urban residence  | 0.086  | 0.012  | 853   | 2,021 | 1.272 | 0.142 | 0.062  | 0.111  |
| No schooling   | 0.141  | 0.024  | 853   | 2,021 | 1.997 | 0.169 | 0.093  | 0.189  |
| Secondary or higher education                          | 0.329  | 0.034  | 853   | 2,021 | 2.115 | 0.104 | 0.261  | 0.397  |
| Never married (never in union)                         | 0.198  | 0.015  | 853   | 2,021 | 1.067 | 0.074 | 0.168  | 0.227  |
| Currently married (in union)                           | 0.737  | 0.014  | 853   | 2,021 | 0.909 | 0.019 | 0.710  | 0.765  |
| Married before age 20                                  | 0.448  | 0.028  | 580   | 1,393 | 1.378 | 0.064 | 0.391  | 0.505  |
| Had first sexual intercourse before age 18             | 0.245  | 0.025  | 580   | 1,393 | 1.374 | 0.100 | 0.196  | 0.294  |
| Currently pregnant                                     | 0.035  | 0.008  | 853   | 2,021 | 1.240 | 0.222 | 0.020  | 0.051  |
| Children ever born                                     | 2.157  | 0.082  | 853   | 2,021 | 1.186 | 0.038 | 1.992  | 2.322  |
| Children surviving                                     | 1.985  | 0.068  | 853   | 2,021 | 1.128 | 0.034 | 1.848  | 2.121  |
| Children ever born to women age 40-49                  | 3.932  | 0.206  | 196   | 478   | 1.243 | 0.052 | 3.520  | 4.344  |
| Know any contraceptive method                          | 0.997  | 0.002  | 616   | 1,490 | 0.996 | 0.002 | 0.992  | 1.001  |
| Know any modern contraceptive method                   | 0.997  | 0.002  | 616   | 1,490 | 0.996 | 0.002 | 0.992  | 1.001  |
| Currently using any method                             | 0.447  | 0.028  | 616   | 1,490 | 1.418 | 0.064 | 0.390  | 0.503  |
| Currently using a modern method                        | 0.276  | 0.027  | 616   | 1,490 | 1.499 | 0.098 | 0.222  | 0.330  |
| Currently using daily pill                             | 0.114  | 0.021  | 616   | 1,490 | 1.597 | 0.180 | 0.073  | 0.155  |
| Currently using male condoms                           | 0.018  | 0.006  | 616   | 1,490 | 1.053 | 0.309 | 0.007  | 0.030  |
| Currently using injectables                            | 0.054  | 0.011  | 616   | 1,490 | 1.173 | 0.198 | 0.033  | 0.076  |
| Used public sector source                              | 0.491  | 0.045  | 174   | 410   | 1.195 | 0.093 | 0.400  | 0.582  |
| Want no more children                                  | 0.512  | 0.018  | 616   | 1,490 | 0.901 | 0.036 | 0.475  | 0.548  |
| Want to delay next birth at least 2 years              | 0.257  | 0.019  | 616   | 1,490 | 1.080 | 0.074 | 0.219  | 0.296  |
| Mothers protected against tetanus for last birth       | 0.846  | 0.023  | 327   | 819   | 1.176 | 0.027 | 0.799  | 0.892  |
| Mothers received medical assistance at delivery        | 0.915  | 0.028  | 402   | 1,008 | 2.014 | 0.031 | 0.859  | 0.972  |
| Had diarrhea in the last 2 weeks                       | 0.128  | 0.017  | 390   | 974   | 0.935 | 0.129 | 0.095  | 0.161  |
| Treated with ORS packets or pre-packed liquid          | 0.341  | 0.094  | 47    | 124   | 1.273 | 0.277 | 0.152  | 0.530  |
| Consulted medical personnel for diarrhea               | 0.526  | 0.084  | 47    | 124   | 1.130 | 0.160 | 0.358  | 0.695  |
| Vaccination card seen                                  | 0.676  | 0.059  | 74    | 182   | 1.089 | 0.087 | 0.558  | 0.793  |
| Received BCG vaccination                               | 0.950  | 0.026  | 74    | 182   | 1.027 | 0.027 | 0.898  | 1.002  |
| Received DPT vaccination (3 doses)                     | 0.706  | 0.059  | 74    | 182   | 1.113 | 0.083 | 0.588  | 0.823  |
| Received polio vaccination (3 doses)                   | 0.711  | 0.055  | 74    | 182   | 1.043 | 0.077 | 0.601  | 0.820  |
| Received measles vaccination                           | 0.641  | 0.061  | 74    | 182   | 1.099 | 0.095 | 0.519  | 0.763  |
| Received all basic vaccinations                        | 0.568  | 0.066  | 74    | 182   | 1.151 | 0.116 | 0.436  | 0.700  |
| Height-for-age (-2SD)                                  | 0.335  | 0.026  | 282   | 692   | 0.912 | 0.077 | 0.284  | 0.387  |
| Weight-for-height (-2SD)                               | 0.081  | 0.020  | 282   | 692   | 1.199 | 0.251 | 0.040  | 0.121  |
| Weight-for-age (-2SD)                                  | 0.257  | 0.030  | 282   | 692   | 1.113 | 0.115 | 0.198  | 0.317  |
| Prevalence of anemia (children 6-59 months)            | 0.627  | 0.028  | 258   | 625   | 0.965 | 0.045 | 0.571  | 0.683  |
| Prevalence of anemia (women 15-49)                     | 0.520  | 0.023  | 524   | 1,226 | 1.032 | 0.044 | 0.475  | 0.565  |
| Body mass index (BMI) <18.5                            | 0.102  | 0.014  | 501   | 1,176 | 1.017 | 0.136 | 0.074  | 0.130  |
| Had an HIV test and received results in past 12 months | 0.087  | 0.013  | 853   | 2,021 | 1.300 | 0.144 | 0.062  | 0.112  |
| Accepting attitudes towards people with HIV            | 0.353  | 0.023  | 817   | 1,933 | 1.360 | 0.064 | 0.308  | 0.399  |
| Total fertility rate (last 3 years)                    | 3.268  | 0.211  | 2,412 | 5,712 | 1.176 | 0.065 | 2.845  | 3.690  |
| Neonatal mortality (last 0-9 years)                    | 25.467 | 7.256  | 774   | 1,926 | 1.149 | 0.285 | 10.955 | 39.978 |
| Postneonatal mortality (last 0-9 years)                | 13.866 | 6.376  | 774   | 1,923 | 1.423 | 0.460 | 1.115  | 26.618 |
| Infant mortality (last 0-9 years)                      | 39.333 | 11.320 | 774   | 1,926 | 1.380 | 0.288 | 16.693 | 61.973 |
| Child mortality (last 0-9 years)                       | 8.669  | 2.974  | 759   | 1,883 | 0.971 | 0.343 | 2.722  | 14.616 |
| Under-5 mortality (last 0-9 years)                     | 47.661 | 11.318 | 777   | 1,933 | 1.316 | 0.237 | 25.024 | 70.298 |
| MEN  |        |        |       |       |       |       |        |        |
| Urban residence  | 0.096  | 0.011  | 300   | 663   | 0.662 | 0.117 | 0.074  | 0.119  |
| No education   | 0.052  | 0.015  | 300   | 663   | 1.183 | 0.292 | 0.022  | 0.082  |
| Secondary or higher education                          | 0.393  | 0.038  | 300   | 663   | 1.334 | 0.096 | 0.318  | 0.468  |
| Never married (in union)                               | 0.262  | 0.025  | 300   | 663   | 0.975 | 0.095 | 0.213  | 0.312  |
| Currently married (in union)                           | 0.715  | 0.027  | 300   | 663   | 1.028 | 0.038 | 0.661  | 0.769  |
| Had first sexual intercourse before age 18             | 0.137  | 0.029  | 201   | 470   | 1.181 | 0.210 | 0.079  | 0.194  |
| Want no more children                                  | 0.515  | 0.041  | 202   | 474   | 1.165 | 0.080 | 0.432  | 0.597  |
| Want to delay birth at least 2 years                   | 0.295  | 0.043  | 202   | 474   | 1.331 | 0.146 | 0.209  | 0.380  |
| Had paid sex in past 12 months                         | 0.025  | 0.008  | 300   | 663   | 0.920 | 0.334 | 0.008  | 0.041  |
| Had HIV test and received results in past 12 months    | 0.130  | 0.019  | 300   | 663   | 0.984 | 0.147 | 0.092  | 0.168  |
| Accepting attitudes towards people with HIV            | 0.322  | 0.027  | 296   | 649   | 1.007 | 0.085 | 0.267  | 0.376  |

Table B.7 Sampling errors: Kampong Chhnang sample, Cambodia 2014

| Variable   | R      | SE    | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|-------|-------|-------|-------|-------|--------|--------|
| WOMEN  |        |       |       |       |       |       |        |        |
| Urban residence  | 0.087  | 0.011 | 899   | 662   | 1.139 | 0.123 | 0.066  | 0.109  |
| No schooling   | 0.087  | 0.017 | 899   | 662   | 1.756 | 0.190 | 0.054  | 0.120  |
| Secondary or higher education                          | 0.415  | 0.036 | 899   | 662   | 2.200 | 0.087 | 0.343  | 0.488  |
| Never married (never in union)                         | 0.317  | 0.020 | 899   | 662   | 1.281 | 0.063 | 0.277  | 0.357  |
| Currently married (in union)                           | 0.598  | 0.017 | 899   | 662   | 1.050 | 0.029 | 0.563  | 0.632  |
| Married before age 20                                  | 0.425  | 0.030 | 583   | 423   | 1.485 | 0.072 | 0.364  | 0.486  |
| Had first sexual intercourse before age 18             | 0.188  | 0.024 | 583   | 423   | 1.462 | 0.126 | 0.140  | 0.235  |
| Currently pregnant                                     | 0.054  | 0.008 | 899   | 662   | 1.069 | 0.150 | 0.038  | 0.070  |
| Children ever born                                     | 1.893  | 0.104 | 899   | 662   | 1.472 | 0.055 | 1.685  | 2.100  |
| Children surviving                                     | 1.715  | 0.097 | 899   | 662   | 1.543 | 0.057 | 1.521  | 1.909  |
| Children ever born to women age 40-49                  | 4.158  | 0.221 | 207   | 157   | 1.369 | 0.053 | 3.715  | 4.600  |
| Know any contraceptive method                          | 1.000  | 0.000 | 532   | 396   | na    | 0.000 | 1.000  | 1.000  |
| Know any modern contraceptive method                   | 1.000  | 0.000 | 532   | 396   | na    | 0.000 | 1.000  | 1.000  |
| Currently using any method                             | 0.560  | 0.023 | 532   | 396   | 1.083 | 0.042 | 0.514  | 0.607  |
| Currently using a modern method                        | 0.335  | 0.028 | 532   | 396   | 1.346 | 0.082 | 0.280  | 0.390  |
| Currently using daily pill                             | 0.147  | 0.023 | 532   | 396   | 1.515 | 0.159 | 0.100  | 0.193  |
| Currently using male condoms                           | 0.017  | 0.005 | 532   | 396   | 0.972 | 0.319 | 0.006  | 0.028  |
| Currently using injectables                            | 0.077  | 0.012 | 532   | 396   | 1.067 | 0.160 | 0.052  | 0.102  |
| Used public sector source                              | 0.659  | 0.051 | 175   | 133   | 1.412 | 0.077 | 0.558  | 0.761  |
| Want no more children                                  | 0.528  | 0.021 | 532   | 396   | 0.966 | 0.040 | 0.486  | 0.569  |
| Want to delay next birth at least 2 years              | 0.337  | 0.018 | 532   | 396   | 0.887 | 0.054 | 0.301  | 0.374  |
| Mothers protected against tetanus for last birth       | 0.979  | 0.012 | 271   | 203   | 1.382 | 0.012 | 0.955  | 1.003  |
| Mothers received medical assistance at delivery        | 0.976  | 0.010 | 329   | 248   | 1.216 | 0.010 | 0.955  | 0.996  |
| Had diarrhea in the last 2 weeks                       | 0.106  | 0.021 | 313   | 236   | 1.171 | 0.196 | 0.064  | 0.147  |
| Treated with ORS packets or pre-packed liquid          | 0.772  | 0.063 | 33    | 25    | 0.862 | 0.082 | 0.645  | 0.898  |
| Consulted medical personnel for diarrhea               | 0.847  | 0.051 | 33    | 25    | 0.821 | 0.061 | 0.744  | 0.950  |
| Vaccination card seen                                  | 0.775  | 0.054 | 69    | 52    | 1.072 | 0.069 | 0.668  | 0.882  |
| Received BCG vaccination                               | 1.000  | 0.000 | 69    | 52    | na    | 0.000 | 1.000  | 1.000  |
| Received DPT vaccination (3 doses)                     | 0.863  | 0.066 | 69    | 52    | 1.603 | 0.077 | 0.731  | 0.995  |
| Received polio vaccination (3 doses)                   | 0.863  | 0.066 | 69    | 52    | 1.603 | 0.077 | 0.731  | 0.995  |
| Received measles vaccination                           | 0.746  | 0.063 | 69    | 52    | 1.215 | 0.085 | 0.619  | 0.873  |
| Received all basic vaccinations                        | 0.746  | 0.063 | 69    | 52    | 1.215 | 0.085 | 0.619  | 0.873  |
| Height-for-age (-2SD)                                  | 0.428  | 0.037 | 231   | 173   | 1.092 | 0.087 | 0.353  | 0.502  |
| Weight-for-height (-2SD)                               | 0.112  | 0.019 | 231   | 173   | 0.919 | 0.166 | 0.075  | 0.150  |
| Weight-for-age (-2SD)                                  | 0.356  | 0.033 | 231   | 173   | 1.043 | 0.092 | 0.290  | 0.422  |
| Prevalence of anemia (children 6-59 months)            | 0.592  | 0.030 | 216   | 161   | 0.908 | 0.050 | 0.532  | 0.652  |
| Prevalence of anemia (women 15-49)                     | 0.530  | 0.027 | 568   | 418   | 1.308 | 0.052 | 0.475  | 0.584  |
| Body mass index (BMI) <18.5                            | 0.180  | 0.014 | 529   | 389   | 0.866 | 0.080 | 0.151  | 0.209  |
| Had an HIV test and received results in past 12 months | 0.135  | 0.011 | 899   | 662   | 0.926 | 0.078 | 0.114  | 0.156  |
| Accepting attitudes towards people with HIV            | 0.267  | 0.025 | 899   | 662   | 1.715 | 0.095 | 0.217  | 0.318  |
| Total fertility rate (last 3 years)                    | 2.434  | 0.197 | 2,521 | 1,859 | 1.048 | 0.081 | 2.040  | 2.828  |
| Neonatal mortality (last 0-9 years)                    | 26.548 | 6.453 | 704   | 531   | 1.092 | 0.243 | 13.641 | 39.454 |
| Postneonatal mortality (last 0-9 years)                | 23.102 | 5.897 | 702   | 529   | 0.997 | 0.255 | 11.309 | 34.896 |
| Infant mortality (last 0-9 years)                      | 49.650 | 8.348 | 704   | 531   | 1.039 | 0.168 | 32.954 | 66.345 |
| Child mortality (last 0-9 years)                       | 6.014  | 3.781 | 695   | 523   | 1.292 | 0.629 | 0.000  | 13.575 |
| Under-5 mortality (last 0-9 years)                     | 55.365 | 8.883 | 705   | 532   | 1.076 | 0.160 | 37.599 | 73.130 |
| MEN  |        |       |       |       |       |       |        |        |
| Urban residence  | 0.073  | 0.012 | 251   | 182   | 0.709 | 0.159 | 0.050  | 0.096  |
| No education   | 0.046  | 0.016 | 251   | 182   | 1.194 | 0.345 | 0.014  | 0.078  |
| Secondary or higher education                          | 0.452  | 0.056 | 251   | 182   | 1.756 | 0.123 | 0.341  | 0.563  |
| Never married (in union)                               | 0.334  | 0.026 | 251   | 182   | 0.864 | 0.077 | 0.282  | 0.385  |
| Currently married (in union)                           | 0.632  | 0.030 | 251   | 182   | 0.995 | 0.048 | 0.572  | 0.693  |
| Had first sexual intercourse before age 18             | 0.140  | 0.033 | 160   | 116   | 1.211 | 0.238 | 0.074  | 0.207  |
| Want no more children                                  | 0.462  | 0.040 | 153   | 115   | 0.990 | 0.087 | 0.382  | 0.542  |
| Want to delay birth at least 2 years                   | 0.382  | 0.040 | 153   | 115   | 1.018 | 0.105 | 0.302  | 0.463  |
| Had paid sex in past 12 months                         | 0.042  | 0.014 | 251   | 182   | 1.110 | 0.336 | 0.014  | 0.070  |
| Had HIV test and received results in past 12 months    | 0.121  | 0.023 | 251   | 182   | 1.124 | 0.192 | 0.075  | 0.167  |
| Accepting attitudes towards people with HIV            | 0.459  | 0.033 | 251   | 182   | 1.042 | 0.072 | 0.393  | 0.525  |



Table B.8 Sampling errors: Kampong Speu sample, Cambodia 2014

| Variable   | R      | SE    | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|-------|-------|-------|-------|-------|--------|--------|
| WOMEN  |        |       |       |       |       |       |        |        |
| Urban residence  | 0.078  | 0.007 | 1,022 | 1,196 | 0.782 | 0.084 | 0.065  | 0.091  |
| No schooling   | 0.110  | 0.024 | 1,022 | 1,196 | 2.461 | 0.220 | 0.062  | 0.158  |
| Secondary or higher education                          | 0.385  | 0.032 | 1,022 | 1,196 | 2.067 | 0.082 | 0.322  | 0.448  |
| Never married (never in union)                         | 0.219  | 0.014 | 1,022 | 1,196 | 1.074 | 0.063 | 0.191  | 0.247  |
| Currently married (in union)                           | 0.705  | 0.017 | 1,022 | 1,196 | 1.177 | 0.024 | 0.671  | 0.738  |
| Married before age 20                                  | 0.519  | 0.032 | 672   | 783   | 1.659 | 0.062 | 0.455  | 0.583  |
| Had first sexual intercourse before age 18             | 0.296  | 0.027 | 672   | 783   | 1.549 | 0.092 | 0.242  | 0.351  |
| Currently pregnant                                     | 0.063  | 0.010 | 1,022 | 1,196 | 1.346 | 0.162 | 0.043  | 0.084  |
| Children ever born                                     | 1.989  | 0.090 | 1,022 | 1,196 | 1.461 | 0.045 | 1.808  | 2.170  |
| Children surviving                                     | 1.836  | 0.083 | 1,022 | 1,196 | 1.491 | 0.045 | 1.670  | 2.002  |
| Children ever born to women age 40-49                  | 4.091  | 0.228 | 216   | 254   | 1.516 | 0.056 | 3.636  | 4.547  |
| Know any contraceptive method                          | 0.997  | 0.002 | 707   | 843   | 0.990 | 0.002 | 0.993  | 1.001  |
| Know any modern contraceptive method                   | 0.997  | 0.002 | 707   | 843   | 0.990 | 0.002 | 0.993  | 1.001  |
| Currently using any method                             | 0.654  | 0.022 | 707   | 843   | 1.223 | 0.033 | 0.610  | 0.698  |
| Currently using a modern method                        | 0.412  | 0.023 | 707   | 843   | 1.242 | 0.056 | 0.366  | 0.458  |
| Currently using daily pill                             | 0.252  | 0.024 | 707   | 843   | 1.482 | 0.096 | 0.203  | 0.300  |
| Currently using male condoms                           | 0.023  | 0.005 | 707   | 843   | 0.937 | 0.231 | 0.012  | 0.033  |
| Currently using injectables                            | 0.052  | 0.011 | 707   | 843   | 1.368 | 0.220 | 0.029  | 0.075  |
| Used public sector source                              | 0.326  | 0.046 | 277   | 347   | 1.617 | 0.140 | 0.234  | 0.417  |
| Want no more children                                  | 0.518  | 0.021 | 707   | 843   | 1.142 | 0.042 | 0.475  | 0.561  |
| Want to delay next birth at least 2 years              | 0.300  | 0.023 | 707   | 843   | 1.325 | 0.076 | 0.254  | 0.346  |
| Mothers protected against tetanus for last birth       | 0.905  | 0.018 | 336   | 395   | 1.105 | 0.020 | 0.869  | 0.941  |
| Mothers received medical assistance at delivery        | 0.893  | 0.036 | 396   | 469   | 2.071 | 0.041 | 0.820  | 0.966  |
| Had diarrhea in the last 2 weeks                       | 0.105  | 0.017 | 387   | 457   | 1.089 | 0.163 | 0.071  | 0.139  |
| Treated with ORS packets or pre-packed liquid          | 0.236  | 0.102 | 42    | 48    | 1.385 | 0.432 | 0.032  | 0.439  |
| Consulted medical personnel for diarrhea               | 0.633  | 0.076 | 42    | 48    | 0.943 | 0.120 | 0.482  | 0.784  |
| Vaccination card seen                                  | 0.879  | 0.042 | 76    | 90    | 1.105 | 0.047 | 0.796  | 0.963  |
| Received BCG vaccination                               | 0.971  | 0.020 | 76    | 90    | 1.047 | 0.021 | 0.931  | 1.012  |
| Received DPT vaccination (3 doses)                     | 0.782  | 0.062 | 76    | 90    | 1.309 | 0.080 | 0.657  | 0.907  |
| Received polio vaccination (3 doses)                   | 0.782  | 0.062 | 76    | 90    | 1.309 | 0.080 | 0.657  | 0.907  |
| Received measles vaccination                           | 0.665  | 0.068 | 76    | 90    | 1.253 | 0.103 | 0.528  | 0.802  |
| Received all basic vaccinations                        | 0.665  | 0.068 | 76    | 90    | 1.253 | 0.103 | 0.528  | 0.802  |
| Height-for-age (-2SD)                                  | 0.405  | 0.050 | 275   | 318   | 1.631 | 0.124 | 0.304  | 0.505  |
| Weight-for-height (-2SD)                               | 0.115  | 0.014 | 275   | 318   | 0.745 | 0.122 | 0.087  | 0.143  |
| Weight-for-age (-2SD)                                  | 0.294  | 0.023 | 275   | 318   | 0.817 | 0.079 | 0.248  | 0.341  |
| Prevalence of anemia (children 6-59 months)            | 0.639  | 0.041 | 256   | 301   | 1.315 | 0.064 | 0.558  | 0.721  |
| Prevalence of anemia (women 15-49)                     | 0.533  | 0.024 | 679   | 784   | 1.261 | 0.046 | 0.484  | 0.581  |
| Body mass index (BMI) <18.5                            | 0.209  | 0.016 | 629   | 737   | 0.979 | 0.076 | 0.177  | 0.241  |
| Had an HIV test and received results in past 12 months | 0.083  | 0.012 | 1,022 | 1,196 | 1.425 | 0.149 | 0.058  | 0.107  |
| Accepting attitudes towards people with HIV            | 0.325  | 0.021 | 1,021 | 1,194 | 1.417 | 0.064 | 0.283  | 0.366  |
| Total fertility rate (last 3 years)                    | 2.421  | 0.187 | 2,910 | 3,393 | 1.278 | 0.077 | 2.047  | 2.795  |
| Neonatal mortality (last 0-9 years)                    | 19.427 | 5.216 | 833   | 994   | 1.040 | 0.268 | 8.995  | 29.859 |
| Postneonatal mortality (last 0-9 years)                | 6.729  | 3.275 | 830   | 989   | 1.172 | 0.487 | 0.179  | 13.280 |
| Infant mortality (last 0-9 years)                      | 26.156 | 5.961 | 833   | 994   | 1.044 | 0.228 | 14.234 | 38.079 |
| Child mortality (last 0-9 years)                       | 4.549  | 2.591 | 837   | 1,005 | 1.160 | 0.570 | 0.000  | 9.730  |
| Under-5 mortality (last 0-9 years)                     | 30.586 | 6.940 | 834   | 995   | 1.135 | 0.227 | 16.705 | 44.467 |
| MEN  |        |       |       |       |       |       |        |        |
| Urban residence  | 0.064  | 0.006 | 269   | 323   | 0.422 | 0.098 | 0.052  | 0.077  |
| No education   | 0.067  | 0.018 | 269   | 323   | 1.172 | 0.268 | 0.031  | 0.102  |
| Secondary or higher education                          | 0.560  | 0.035 | 269   | 323   | 1.165 | 0.063 | 0.489  | 0.631  |
| Never married (in union)                               | 0.287  | 0.034 | 269   | 323   | 1.222 | 0.118 | 0.219  | 0.354  |
| Currently married (in union)                           | 0.684  | 0.037 | 269   | 323   | 1.318 | 0.055 | 0.609  | 0.759  |
| Had first sexual intercourse before age 18             | 0.083  | 0.022 | 180   | 209   | 1.063 | 0.264 | 0.039  | 0.127  |
| Want no more children                                  | 0.593  | 0.029 | 183   | 221   | 0.802 | 0.049 | 0.534  | 0.651  |
| Want to delay birth at least 2 years                   | 0.296  | 0.031 | 183   | 221   | 0.916 | 0.105 | 0.234  | 0.358  |
| Had paid sex in past 12 months                         | 0.012  | 0.007 | 269   | 323   | 0.988 | 0.537 | 0.000  | 0.026  |
| Had HIV test and received results in past 12 months    | 0.068  | 0.025 | 269   | 323   | 1.645 | 0.372 | 0.017  | 0.119  |
| Accepting attitudes towards people with HIV            | 0.359  | 0.034 | 268   | 322   | 1.159 | 0.095 | 0.291  | 0.427  |

Table B.9 Sampling errors: Kampong Thom sample, Cambodia 2014

| Variable   | R      | SE     | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|--------|-------|-------|-------|-------|--------|--------|
| WOMEN  |        |        |       |       |       |       |        |        |
| Urban residence  | 0.052  | 0.004  | 905   | 851   | 0.573 | 0.081 | 0.044  | 0.061  |
| No schooling   | 0.140  | 0.019  | 905   | 851   | 1.659 | 0.137 | 0.101  | 0.178  |
| Secondary or higher education                          | 0.303  | 0.035  | 905   | 851   | 2.271 | 0.115 | 0.233  | 0.373  |
| Never married (never in union)                         | 0.248  | 0.013  | 905   | 851   | 0.907 | 0.053 | 0.222  | 0.274  |
| Currently married (in union)                           | 0.672  | 0.016  | 905   | 851   | 1.044 | 0.024 | 0.639  | 0.705  |
| Married before age 20                                  | 0.484  | 0.024  | 620   | 580   | 1.200 | 0.050 | 0.436  | 0.533  |
| Had first sexual intercourse before age 18             | 0.249  | 0.020  | 620   | 580   | 1.137 | 0.079 | 0.210  | 0.289  |
| Currently pregnant                                     | 0.058  | 0.007  | 905   | 851   | 0.920 | 0.123 | 0.044  | 0.073  |
| Children ever born                                     | 2.177  | 0.108  | 905   | 851   | 1.497 | 0.050 | 1.960  | 2.394  |
| Children surviving                                     | 2.015  | 0.091  | 905   | 851   | 1.384 | 0.045 | 1.833  | 2.197  |
| Children ever born to women age 40-49                  | 4.417  | 0.221  | 224   | 209   | 1.418 | 0.050 | 3.974  | 4.860  |
| Know any contraceptive method                          | 1.000  | 0.000  | 597   | 572   | na    | 0.000 | 1.000  | 1.000  |
| Know any modern contraceptive method                   | 1.000  | 0.000  | 597   | 572   | na    | 0.000 | 1.000  | 1.000  |
| Currently using any method                             | 0.584  | 0.030  | 597   | 572   | 1.496 | 0.052 | 0.524  | 0.644  |
| Currently using a modern method                        | 0.441  | 0.026  | 597   | 572   | 1.270 | 0.059 | 0.389  | 0.492  |
| Currently using daily pill                             | 0.155  | 0.020  | 597   | 572   | 1.376 | 0.131 | 0.115  | 0.196  |
| Currently using male condoms                           | 0.007  | 0.003  | 597   | 572   | 0.944 | 0.451 | 0.001  | 0.014  |
| Currently using injectables                            | 0.149  | 0.022  | 597   | 572   | 1.473 | 0.144 | 0.106  | 0.192  |
| Used public sector source                              | 0.533  | 0.043  | 264   | 256   | 1.409 | 0.081 | 0.446  | 0.620  |
| Want no more children                                  | 0.591  | 0.016  | 597   | 572   | 0.786 | 0.027 | 0.560  | 0.623  |
| Want to delay next birth at least 2 years              | 0.265  | 0.016  | 597   | 572   | 0.913 | 0.062 | 0.232  | 0.298  |
| Mothers protected against tetanus for last birth       | 0.927  | 0.025  | 288   | 279   | 1.647 | 0.027 | 0.876  | 0.977  |
| Mothers received medical assistance at delivery        | 0.804  | 0.051  | 347   | 337   | 2.202 | 0.063 | 0.703  | 0.905  |
| Had diarrhea in the last 2 weeks                       | 0.061  | 0.014  | 339   | 327   | 1.027 | 0.233 | 0.033  | 0.089  |
| Treated with ORS packets or pre-packed liquid          | 0.190  | 0.097  | 22    | 20    | 1.105 | 0.509 | 0.000  | 0.383  |
| Consulted medical personnel for diarrhea               | 0.803  | 0.107  | 22    | 20    | 1.206 | 0.133 | 0.589  | 1.017  |
| Vaccination card seen                                  | 0.863  | 0.068  | 80    | 77    | 1.766 | 0.078 | 0.728  | 0.999  |
| Received BCG vaccination                               | 0.976  | 0.016  | 80    | 77    | 0.942 | 0.017 | 0.943  | 1.008  |
| Received DPT vaccination (3 doses)                     | 0.820  | 0.034  | 80    | 77    | 0.786 | 0.041 | 0.753  | 0.888  |
| Received polio vaccination (3 doses)                   | 0.820  | 0.034  | 80    | 77    | 0.786 | 0.041 | 0.753  | 0.888  |
| Received measles vaccination                           | 0.741  | 0.039  | 80    | 77    | 0.803 | 0.053 | 0.663  | 0.819  |
| Received all basic vaccinations                        | 0.709  | 0.038  | 80    | 77    | 0.755 | 0.054 | 0.633  | 0.786  |
| Height-for-age (-2SD)                                  | 0.364  | 0.041  | 228   | 217   | 1.237 | 0.113 | 0.281  | 0.446  |
| Weight-for-height (-2SD)                               | 0.130  | 0.026  | 228   | 217   | 1.124 | 0.200 | 0.078  | 0.183  |
| Weight-for-age (-2SD)                                  | 0.277  | 0.032  | 228   | 217   | 1.040 | 0.115 | 0.213  | 0.340  |
| Prevalence of anemia (children 6-59 months)            | 0.660  | 0.042  | 207   | 197   | 1.259 | 0.064 | 0.576  | 0.744  |
| Prevalence of anemia (women 15-49)                     | 0.446  | 0.019  | 592   | 567   | 0.941 | 0.043 | 0.408  | 0.484  |
| Body mass index (BMI) <18.5                            | 0.125  | 0.019  | 554   | 526   | 1.337 | 0.150 | 0.087  | 0.162  |
| Had an HIV test and received results in past 12 months | 0.089  | 0.012  | 905   | 851   | 1.275 | 0.136 | 0.065  | 0.113  |
| Accepting attitudes towards people with HIV            | 0.201  | 0.028  | 905   | 851   | 2.094 | 0.139 | 0.145  | 0.257  |
| Total fertility rate (last 3 years)                    | 2.935  | 0.195  | 2,513 | 2,353 | 1.113 | 0.066 | 2.545  | 3.325  |
| Neonatal mortality (last 0-9 years)                    | 29.195 | 6.656  | 782   | 759   | 1.117 | 0.228 | 15.882 | 42.508 |
| Postneonatal mortality (last 0-9 years)                | 11.466 | 4.666  | 782   | 760   | 1.157 | 0.407 | 2.134  | 20.798 |
| Infant mortality (last 0-9 years)                      | 40.661 | 9.345  | 782   | 759   | 1.317 | 0.230 | 21.972 | 59.350 |
| Child mortality (last 0-9 years)                       | 20.219 | 8.113  | 794   | 770   | 1.642 | 0.401 | 3.993  | 36.445 |
| Under-5 mortality (last 0-9 years)                     | 60.058 | 14.874 | 785   | 763   | 1.667 | 0.248 | 30.310 | 89.806 |
| MEN  |        |        |       |       |       |       |        |        |
| Urban residence  | 0.055  | 0.009  | 261   | 232   | 0.612 | 0.157 | 0.037  | 0.072  |
| No education   | 0.087  | 0.018  | 261   | 232   | 1.005 | 0.202 | 0.052  | 0.122  |
| Secondary or higher education                          | 0.386  | 0.056  | 261   | 232   | 1.839 | 0.144 | 0.274  | 0.498  |
| Never married (in union)                               | 0.339  | 0.026  | 261   | 232   | 0.883 | 0.076 | 0.287  | 0.391  |
| Currently married (in union)                           | 0.629  | 0.028  | 261   | 232   | 0.929 | 0.044 | 0.574  | 0.685  |
| Had first sexual intercourse before age 18             | 0.079  | 0.020  | 165   | 146   | 0.929 | 0.248 | 0.040  | 0.118  |
| Want no more children                                  | 0.534  | 0.044  | 164   | 146   | 1.131 | 0.083 | 0.445  | 0.622  |
| Want to delay birth at least 2 years                   | 0.358  | 0.044  | 164   | 146   | 1.172 | 0.123 | 0.270  | 0.446  |
| Had paid sex in past 12 months                         | 0.000  | 0.000  | 261   | 232   | na    | na    | 0.000  | 0.000  |
| Had HIV test and received results in past 12 months    | 0.018  | 0.007  | 261   | 232   | 0.886 | 0.401 | 0.004  | 0.033  |
| Accepting attitudes towards people with HIV            | 0.595  | 0.057  | 261   | 232   | 1.872 | 0.096 | 0.481  | 0.710  |



Table B.10 Sampling errors: Kandal sample, Cambodia 2014

| Variable   | R      | SE     | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|--------|-------|-------|-------|-------|--------|--------|
| WOMEN  |        |        |       |       |       |       |        |        |
| Urban residence  | 0.103  | 0.017  | 875   | 1,330 | 1.688 | 0.169 | 0.068  | 0.138  |
| No schooling   | 0.054  | 0.015  | 875   | 1,330 | 1.909 | 0.271 | 0.025  | 0.083  |
| Secondary or higher education                          | 0.442  | 0.025  | 875   | 1,330 | 1.516 | 0.058 | 0.391  | 0.493  |
| Never married (never in union)                         | 0.262  | 0.014  | 875   | 1,330 | 0.923 | 0.052 | 0.234  | 0.289  |
| Currently married (in union)                           | 0.654  | 0.017  | 875   | 1,330 | 1.087 | 0.027 | 0.619  | 0.689  |
| Married before age 20                                  | 0.347  | 0.028  | 589   | 904   | 1.449 | 0.082 | 0.290  | 0.404  |
| Had first sexual intercourse before age 18             | 0.172  | 0.023  | 589   | 904   | 1.489 | 0.135 | 0.125  | 0.218  |
| Currently pregnant                                     | 0.057  | 0.008  | 875   | 1,330 | 1.034 | 0.142 | 0.041  | 0.073  |
| Children ever born                                     | 1.789  | 0.087  | 875   | 1,330 | 1.356 | 0.048 | 1.616  | 1.962  |
| Children surviving                                     | 1.647  | 0.069  | 875   | 1,330 | 1.201 | 0.042 | 1.510  | 1.784  |
| Children ever born to women age 40-49                  | 3.885  | 0.205  | 178   | 259   | 1.273 | 0.053 | 3.475  | 4.294  |
| Know any contraceptive method                          | 1.000  | 0.000  | 544   | 870   | na    | 0.000 | 1.000  | 1.000  |
| Know any modern contraceptive method                   | 1.000  | 0.000  | 544   | 870   | na    | 0.000 | 1.000  | 1.000  |
| Currently using any method                             | 0.610  | 0.027  | 544   | 870   | 1.312 | 0.045 | 0.555  | 0.665  |
| Currently using a modern method                        | 0.404  | 0.031  | 544   | 870   | 1.454 | 0.076 | 0.343  | 0.465  |
| Currently using daily pill                             | 0.195  | 0.017  | 544   | 870   | 0.998 | 0.087 | 0.161  | 0.229  |
| Currently using male condoms                           | 0.016  | 0.005  | 544   | 870   | 0.995 | 0.333 | 0.005  | 0.027  |
| Currently using injectables                            | 0.122  | 0.024  | 544   | 870   | 1.669 | 0.192 | 0.075  | 0.169  |
| Used public sector source                              | 0.424  | 0.037  | 208   | 353   | 1.070 | 0.087 | 0.350  | 0.497  |
| Want no more children                                  | 0.514  | 0.039  | 544   | 870   | 1.800 | 0.075 | 0.437  | 0.592  |
| Want to delay next birth at least 2 years              | 0.280  | 0.026  | 544   | 870   | 1.339 | 0.092 | 0.228  | 0.332  |
| Mothers protected against tetanus for last birth       | 0.883  | 0.037  | 256   | 420   | 1.851 | 0.042 | 0.809  | 0.956  |
| Mothers received medical assistance at delivery        | 0.957  | 0.021  | 318   | 523   | 1.487 | 0.022 | 0.914  | 1.000  |
| Had diarrhea in the last 2 weeks                       | 0.090  | 0.024  | 310   | 506   | 1.424 | 0.271 | 0.041  | 0.139  |
| Treated with ORS packets or pre-packed liquid          | 0.145  | 0.100  | 23    | 46    | 1.244 | 0.691 | 0.000  | 0.346  |
| Consulted medical personnel for diarrhea               | 0.486  | 0.124  | 23    | 46    | 1.226 | 0.255 | 0.238  | 0.734  |
| Vaccination card seen                                  | 0.809  | 0.077  | 57    | 89    | 1.471 | 0.096 | 0.654  | 0.964  |
| Received BCG vaccination                               | 1.000  | 0.000  | 57    | 89    | na    | 0.000 | 1.000  | 1.000  |
| Received DPT vaccination (3 doses)                     | 0.815  | 0.068  | 57    | 89    | 1.315 | 0.084 | 0.678  | 0.952  |
| Received polio vaccination (3 doses)                   | 0.741  | 0.076  | 57    | 89    | 1.300 | 0.103 | 0.588  | 0.893  |
| Received measles vaccination                           | 0.752  | 0.071  | 57    | 89    | 1.232 | 0.095 | 0.609  | 0.894  |
| Received all basic vaccinations                        | 0.645  | 0.070  | 57    | 89    | 1.093 | 0.108 | 0.505  | 0.785  |
| Height-for-age (-2SD)                                  | 0.281  | 0.035  | 206   | 298   | 1.026 | 0.125 | 0.211  | 0.350  |
| Weight-for-height (-2SD)                               | 0.092  | 0.026  | 206   | 298   | 1.299 | 0.285 | 0.040  | 0.145  |
| Weight-for-age (-2SD)                                  | 0.262  | 0.040  | 206   | 298   | 1.275 | 0.151 | 0.183  | 0.341  |
| Prevalence of anemia (children 6-59 months)            | 0.586  | 0.044  | 188   | 267   | 1.193 | 0.075 | 0.498  | 0.674  |
| Prevalence of anemia (women 15-49)                     | 0.494  | 0.029  | 579   | 867   | 1.405 | 0.060 | 0.435  | 0.553  |
| Body mass index (BMI) <18.5                            | 0.179  | 0.019  | 536   | 807   | 1.115 | 0.104 | 0.142  | 0.216  |
| Had an HIV test and received results in past 12 months | 0.077  | 0.010  | 875   | 1,330 | 1.113 | 0.131 | 0.057  | 0.097  |
| Accepting attitudes towards people with HIV            | 0.359  | 0.024  | 869   | 1,317 | 1.472 | 0.067 | 0.311  | 0.407  |
| Total fertility rate (last 3 years)                    | 2.540  | 0.163  | 2,483 | 3,758 | 0.979 | 0.064 | 2.214  | 2.866  |
| Neonatal mortality (last 0-9 years)                    | 16.610 | 6.183  | 676   | 1,135 | 1.322 | 0.372 | 4.244  | 28.976 |
| Postneonatal mortality (last 0-9 years)                | 13.595 | 4.343  | 676   | 1,133 | 1.014 | 0.319 | 4.909  | 22.282 |
| Infant mortality (last 0-9 years)                      | 30.206 | 8.511  | 676   | 1,135 | 1.365 | 0.282 | 13.183 | 47.228 |
| Child mortality (last 0-9 years)                       | 10.094 | 5.117  | 669   | 1,116 | 1.319 | 0.507 | 0.000  | 20.329 |
| Under-5 mortality (last 0-9 years)                     | 39.995 | 11.181 | 677   | 1,137 | 1.566 | 0.280 | 17.633 | 62.357 |
| MEN  |        |        |       |       |       |       |        |        |
| Urban residence  | 0.088  | 0.020  | 239   | 413   | 1.108 | 0.232 | 0.047  | 0.128  |
| No education   | 0.021  | 0.013  | 239   | 413   | 1.367 | 0.610 | 0.000  | 0.046  |
| Secondary or higher education                          | 0.515  | 0.048  | 239   | 413   | 1.467 | 0.093 | 0.419  | 0.610  |
| Never married (in union)                               | 0.282  | 0.028  | 239   | 413   | 0.967 | 0.100 | 0.226  | 0.339  |
| Currently married (in union)                           | 0.697  | 0.028  | 239   | 413   | 0.948 | 0.041 | 0.640  | 0.753  |
| Had first sexual intercourse before age 18             | 0.088  | 0.017  | 164   | 293   | 0.755 | 0.190 | 0.055  | 0.121  |
| Want no more children                                  | 0.532  | 0.044  | 154   | 288   | 1.097 | 0.083 | 0.444  | 0.621  |
| Want to delay birth at least 2 years                   | 0.316  | 0.042  | 154   | 288   | 1.129 | 0.135 | 0.231  | 0.400  |
| Had paid sex in past 12 months                         | 0.013  | 0.007  | 239   | 413   | 0.980 | 0.549 | 0.000  | 0.028  |
| Had HIV test and received results in past 12 months    | 0.123  | 0.034  | 239   | 413   | 1.590 | 0.276 | 0.055  | 0.191  |
| Accepting attitudes towards people with HIV            | 0.319  | 0.040  | 232   | 400   | 1.310 | 0.126 | 0.239  | 0.400  |

Table B.11 Sampling errors: Kratie sample, Cambodia 2014

| Variable   | R      | SE     | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE   |
|--|--------|--------|-------|-------|-------|-------|--------|---------|
| WOMEN  |        |        |       |       |       |       |        |         |
| Urban residence  | 0.105  | 0.017  | 874   | 488   | 1.611 | 0.159 | 0.072  | 0.139   |
| No schooling   | 0.156  | 0.044  | 874   | 488   | 3.527 | 0.279 | 0.069  | 0.243   |
| Secondary or higher education                          | 0.266  | 0.037  | 874   | 488   | 2.448 | 0.138 | 0.192  | 0.339   |
| Never married (never in union)                         | 0.218  | 0.016  | 874   | 488   | 1.124 | 0.072 | 0.187  | 0.250   |
| Currently married (in union)                           | 0.735  | 0.013  | 874   | 488   | 0.893 | 0.018 | 0.708  | 0.761   |
| Married before age 20                                  | 0.513  | 0.026  | 582   | 313   | 1.249 | 0.050 | 0.462  | 0.565   |
| Had first sexual intercourse before age 18             | 0.269  | 0.020  | 582   | 313   | 1.113 | 0.076 | 0.228  | 0.310   |
| Currently pregnant                                     | 0.073  | 0.013  | 874   | 488   | 1.473 | 0.178 | 0.047  | 0.099   |
| Children ever born                                     | 2.291  | 0.121  | 874   | 488   | 1.562 | 0.053 | 2.049  | 2.533   |
| Children surviving                                     | 2.042  | 0.101  | 874   | 488   | 1.516 | 0.050 | 1.840  | 2.245   |
| Children ever born to women age 40-49                  | 4.460  | 0.313  | 181   | 104   | 1.579 | 0.070 | 3.833  | 5.087   |
| Know any contraceptive method                          | 0.998  | 0.002  | 631   | 359   | 0.932 | 0.002 | 0.994  | 1.001   |
| Know any modern contraceptive method                   | 0.998  | 0.002  | 631   | 359   | 0.932 | 0.002 | 0.994  | 1.001   |
| Currently using any method                             | 0.479  | 0.031  | 631   | 359   | 1.549 | 0.064 | 0.417  | 0.541   |
| Currently using a modern method                        | 0.307  | 0.026  | 631   | 359   | 1.421 | 0.085 | 0.254  | 0.359   |
| Currently using daily pill                             | 0.116  | 0.017  | 631   | 359   | 1.346 | 0.148 | 0.081  | 0.150   |
| Currently using male condoms                           | 0.010  | 0.004  | 631   | 359   | 0.918 | 0.359 | 0.003  | 0.018   |
| Currently using injectables                            | 0.088  | 0.013  | 631   | 359   | 1.181 | 0.152 | 0.061  | 0.115   |
| Used public sector source                              | 0.392  | 0.059  | 207   | 110   | 1.721 | 0.150 | 0.274  | 0.509   |
| Want no more children                                  | 0.508  | 0.024  | 631   | 359   | 1.217 | 0.048 | 0.459  | 0.556   |
| Want to delay next birth at least 2 years              | 0.297  | 0.027  | 631   | 359   | 1.493 | 0.092 | 0.242  | 0.351   |
| Mothers protected against tetanus for last birth       | 0.836  | 0.041  | 382   | 214   | 2.164 | 0.049 | 0.754  | 0.918   |
| Mothers received medical assistance at delivery        | 0.519  | 0.080  | 471   | 269   | 3.072 | 0.154 | 0.359  | 0.679   |
| Had diarrhea in the last 2 weeks                       | 0.170  | 0.020  | 449   | 254   | 1.104 | 0.119 | 0.129  | 0.210   |
| Treated with ORS packets or pre-packed liquid          | 0.202  | 0.067  | 72    | 43    | 1.385 | 0.331 | 0.068  | 0.335   |
| Consulted medical personnel for diarrhea               | 0.598  | 0.096  | 72    | 43    | 1.625 | 0.160 | 0.407  | 0.790   |
| Vaccination card seen                                  | 0.721  | 0.063  | 97    | 57    | 1.430 | 0.088 | 0.594  | 0.848   |
| Received BCG vaccination                               | 0.865  | 0.039  | 97    | 57    | 1.154 | 0.045 | 0.787  | 0.943   |
| Received DPT vaccination (3 doses)                     | 0.728  | 0.067  | 97    | 57    | 1.522 | 0.092 | 0.594  | 0.862   |
| Received polio vaccination (3 doses)                   | 0.725  | 0.067  | 97    | 57    | 1.517 | 0.092 | 0.591  | 0.859   |
| Received measles vaccination                           | 0.797  | 0.070  | 97    | 57    | 1.764 | 0.088 | 0.656  | 0.938   |
| Received all basic vaccinations                        | 0.651  | 0.074  | 97    | 57    | 1.568 | 0.114 | 0.503  | 0.799   |
| Height-for-age (-2SD)                                  | 0.384  | 0.033  | 319   | 180   | 1.161 | 0.087 | 0.318  | 0.451   |
| Weight-for-height (-2SD)                               | 0.065  | 0.021  | 319   | 180   | 1.378 | 0.317 | 0.024  | 0.106   |
| Weight-for-age (-2SD)                                  | 0.251  | 0.034  | 319   | 180   | 1.351 | 0.135 | 0.183  | 0.319   |
| Prevalence of anemia (children 6-59 months)            | 0.502  | 0.035  | 285   | 157   | 1.167 | 0.069 | 0.433  | 0.571   |
| Prevalence of anemia (women 15-49)                     | 0.462  | 0.026  | 568   | 318   | 1.247 | 0.056 | 0.410  | 0.514   |
| Body mass index (BMI) <18.5                            | 0.158  | 0.028  | 516   | 287   | 1.726 | 0.176 | 0.102  | 0.213   |
| Had an HIV test and received results in past 12 months | 0.035  | 0.007  | 874   | 488   | 1.187 | 0.210 | 0.020  | 0.050   |
| Accepting attitudes towards people with HIV            | 0.274  | 0.029  | 868   | 485   | 1.928 | 0.107 | 0.215  | 0.332   |
| Total fertility rate (last 3 years)                    | 3.609  | 0.201  | 2,511 | 1,399 | 0.966 | 0.056 | 3.206  | 4.011   |
| Neonatal mortality (last 0-9 years)                    | 29.670 | 7.431  | 918   | 541   | 1.318 | 0.250 | 14.808 | 44.533  |
| Postneonatal mortality (last 0-9 years)                | 31.147 | 9.878  | 915   | 537   | 1.496 | 0.317 | 11.391 | 50.903  |
| Infant mortality (last 0-9 years)                      | 60.817 | 16.325 | 918   | 541   | 1.894 | 0.268 | 28.167 | 93.468  |
| Child mortality (last 0-9 years)                       | 20.297 | 11.151 | 908   | 532   | 2.166 | 0.549 | 0.000  | 42.599  |
| Under-5 mortality (last 0-9 years)                     | 79.880 | 23.546 | 921   | 542   | 2.308 | 0.295 | 32.788 | 126.972 |
| MEN  |        |        |       |       |       |       |        |         |
| Urban residence  | 0.097  | 0.021  | 258   | 143   | 1.159 | 0.220 | 0.054  | 0.140   |
| No education   | 0.036  | 0.025  | 258   | 143   | 2.150 | 0.698 | 0.000  | 0.087   |
| Secondary or higher education                          | 0.461  | 0.045  | 258   | 143   | 1.442 | 0.097 | 0.371  | 0.551   |
| Never married (in union)                               | 0.294  | 0.036  | 258   | 143   | 1.267 | 0.122 | 0.222  | 0.367   |
| Currently married (in union)                           | 0.666  | 0.036  | 258   | 143   | 1.213 | 0.054 | 0.595  | 0.738   |
| Had first sexual intercourse before age 18             | 0.010  | 0.008  | 170   | 90    | 0.973 | 0.729 | 0.000  | 0.026   |
| Want no more children                                  | 0.538  | 0.054  | 170   | 95    | 1.411 | 0.101 | 0.429  | 0.646   |
| Want to delay birth at least 2 years                   | 0.246  | 0.032  | 170   | 95    | 0.976 | 0.131 | 0.182  | 0.311   |
| Had paid sex in past 12 months                         | 0.153  | 0.020  | 258   | 143   | 0.883 | 0.130 | 0.113  | 0.192   |
| Had HIV test and received results in past 12 months    | 0.064  | 0.017  | 258   | 143   | 1.100 | 0.262 | 0.031  | 0.098   |
| Accepting attitudes towards people with HIV            | 0.105  | 0.023  | 252   | 139   | 1.203 | 0.221 | 0.059  | 0.152   |

Table B.12 Sampling errors: Phnom Penh sample, Cambodia 2014

| Variable   | R      | SE    | N     | WN    | DEFT  | SE/R  | R-2SE | R+2SE  |
|--|--------|-------|-------|-------|-------|-------|-------|--------|
| WOMEN  |        |       |       |       |       |       |       |        |
| Urban residence  | 0.825  | 0.026 | 1,400 | 1,994 | 2.544 | 0.031 | 0.773 | 0.877  |
| No schooling   | 0.041  | 0.007 | 1,400 | 1,994 | 1.417 | 0.184 | 0.026 | 0.056  |
| Secondary or higher education                          | 0.669  | 0.022 | 1,400 | 1,994 | 1.743 | 0.033 | 0.625 | 0.713  |
| Never married (never in union)                         | 0.386  | 0.015 | 1,400 | 1,994 | 1.132 | 0.038 | 0.356 | 0.415  |
| Currently married (in union)                           | 0.544  | 0.016 | 1,400 | 1,994 | 1.233 | 0.030 | 0.511 | 0.577  |
| Married before age 20                                  | 0.340  | 0.018 | 874   | 1,250 | 1.094 | 0.052 | 0.305 | 0.375  |
| Had first sexual intercourse before age 18             | 0.172  | 0.011 | 874   | 1,250 | 0.898 | 0.067 | 0.149 | 0.195  |
| Currently pregnant                                     | 0.046  | 0.005 | 1,400 | 1,994 | 0.975 | 0.119 | 0.035 | 0.057  |
| Children ever born                                     | 1.263  | 0.049 | 1,400 | 1,994 | 1.207 | 0.039 | 1.165 | 1.360  |
| Children surviving                                     | 1.208  | 0.044 | 1,400 | 1,994 | 1.146 | 0.036 | 1.121 | 1.296  |
| Children ever born to women age 40-49                  | 2.783  | 0.135 | 262   | 372   | 1.250 | 0.049 | 2.512 | 3.054  |
| Know any contraceptive method                          | 1.000  | 0.000 | 753   | 1,084 | na    | 0.000 | 1.000 | 1.000  |
| Know any modern contraceptive method                   | 1.000  | 0.000 | 753   | 1,084 | na    | 0.000 | 1.000 | 1.000  |
| Currently using any method                             | 0.633  | 0.018 | 753   | 1,084 | 1.038 | 0.029 | 0.596 | 0.669  |
| Currently using a modern method                        | 0.287  | 0.013 | 753   | 1,084 | 0.812 | 0.047 | 0.261 | 0.314  |
| Currently using daily pill                             | 0.118  | 0.015 | 753   | 1,084 | 1.277 | 0.127 | 0.088 | 0.148  |
| Currently using male condoms                           | 0.056  | 0.010 | 753   | 1,084 | 1.154 | 0.172 | 0.037 | 0.076  |
| Currently using injectables                            | 0.015  | 0.006 | 753   | 1,084 | 1.368 | 0.399 | 0.003 | 0.028  |
| Used public sector source                              | 0.134  | 0.022 | 225   | 326   | 0.961 | 0.163 | 0.091 | 0.178  |
| Want no more children                                  | 0.498  | 0.021 | 753   | 1,084 | 1.148 | 0.042 | 0.456 | 0.540  |
| Want to delay next birth at least 2 years              | 0.262  | 0.018 | 753   | 1,084 | 1.099 | 0.067 | 0.227 | 0.297  |
| Mothers protected against tetanus for last birth       | 0.943  | 0.013 | 370   | 535   | 1.073 | 0.014 | 0.917 | 0.969  |
| Mothers received medical assistance at delivery        | 0.961  | 0.014 | 435   | 626   | 1.314 | 0.014 | 0.934 | 0.989  |
| Had diarrhea in the last 2 weeks                       | 0.172  | 0.017 | 430   | 618   | 0.943 | 0.101 | 0.138 | 0.207  |
| Treated with ORS packets or pre-packed liquid          | 0.335  | 0.065 | 74    | 107   | 1.194 | 0.194 | 0.205 | 0.465  |
| Consulted medical personnel for diarrhea               | 0.575  | 0.059 | 74    | 107   | 1.012 | 0.102 | 0.458 | 0.692  |
| Vaccination card seen                                  | 0.696  | 0.046 | 103   | 145   | 1.003 | 0.066 | 0.605 | 0.788  |
| Received BCG vaccination                               | 0.986  | 0.013 | 103   | 145   | 1.142 | 0.013 | 0.960 | 1.013  |
| Received DPT vaccination (3 doses)                     | 0.931  | 0.028 | 103   | 145   | 1.112 | 0.030 | 0.874 | 0.987  |
| Received polio vaccination (3 doses)                   | 0.900  | 0.033 | 103   | 145   | 1.117 | 0.037 | 0.833 | 0.967  |
| Received measles vaccination                           | 0.910  | 0.034 | 103   | 145   | 1.199 | 0.038 | 0.842 | 0.979  |
| Received all basic vaccinations                        | 0.891  | 0.034 | 103   | 145   | 1.105 | 0.038 | 0.823 | 0.960  |
| Height-for-age (-2SD)                                  | 0.179  | 0.025 | 284   | 391   | 1.125 | 0.140 | 0.129 | 0.229  |
| Weight-for-height (-2SD)                               | 0.084  | 0.013 | 284   | 391   | 0.802 | 0.155 | 0.058 | 0.110  |
| Weight-for-age (-2SD)                                  | 0.129  | 0.022 | 284   | 391   | 1.115 | 0.173 | 0.084 | 0.173  |
| Prevalence of anemia (children 6-59 months)            | 0.410  | 0.033 | 238   | 335   | 1.044 | 0.080 | 0.345 | 0.476  |
| Prevalence of anemia (women 15-49)                     | 0.417  | 0.016 | 913   | 1,316 | 1.006 | 0.039 | 0.384 | 0.449  |
| Body mass index (BMI) <18.5                            | 0.140  | 0.013 | 887   | 1,269 | 1.114 | 0.093 | 0.114 | 0.165  |
| Had an HIV test and received results in past 12 months | 0.136  | 0.010 | 1,400 | 1,994 | 1.038 | 0.070 | 0.117 | 0.155  |
| Accepting attitudes towards people with HIV            | 0.267  | 0.014 | 1,398 | 1,992 | 1.199 | 0.053 | 0.238 | 0.295  |
| Total fertility rate (last 3 years)                    | 1.975  | 0.115 | 4,027 | 5,731 | 0.920 | 0.058 | 1.745 | 2.206  |
| Neonatal mortality (last 0-9 years)                    | 13.075 | 6.375 | 818   | 1,172 | 1.440 | 0.488 | 0.326 | 25.824 |
| Postneonatal mortality (last 0-9 years)                | 3.934  | 3.948 | 811   | 1,160 | 1.380 | 1.004 | 0.000 | 11.831 |
| Infant mortality (last 0-9 years)                      | 17.009 | 7.775 | 818   | 1,172 | 1.193 | 0.457 | 1.459 | 32.560 |
| Child mortality (last 0-9 years)                       | 6.250  | 2.837 | 796   | 1,139 | 1.056 | 0.454 | 0.577 | 11.924 |
| Under-5 mortality (last 0-9 years)                     | 23.154 | 7.742 | 818   | 1,172 | 1.045 | 0.334 | 7.669 | 38.638 |
| MEN  |        |       |       |       |       |       |       |        |
| Urban residence  | 0.815  | 0.026 | 391   | 550   | 1.336 | 0.032 | 0.762 | 0.867  |
| No education   | 0.003  | 0.003 | 391   | 550   | 1.100 | 0.999 | 0.000 | 0.009  |
| Secondary or higher education                          | 0.848  | 0.027 | 391   | 550   | 1.464 | 0.031 | 0.794 | 0.901  |
| Never married (in union)                               | 0.479  | 0.023 | 391   | 550   | 0.904 | 0.048 | 0.433 | 0.525  |
| Currently married (in union)                           | 0.507  | 0.022 | 391   | 550   | 0.869 | 0.043 | 0.463 | 0.551  |
| Had first sexual intercourse before age 18             | 0.041  | 0.015 | 232   | 333   | 1.126 | 0.360 | 0.011 | 0.070  |
| Want no more children                                  | 0.478  | 0.037 | 191   | 279   | 1.023 | 0.077 | 0.404 | 0.553  |
| Want to delay birth at least 2 years                   | 0.316  | 0.038 | 191   | 279   | 1.119 | 0.119 | 0.241 | 0.392  |
| Had paid sex in past 12 months                         | 0.076  | 0.012 | 391   | 550   | 0.889 | 0.157 | 0.052 | 0.100  |
| Had HIV test and received results in past 12 months    | 0.117  | 0.016 | 391   | 550   | 0.981 | 0.136 | 0.085 | 0.149  |
| Accepting attitudes towards people with HIV            | 0.320  | 0.026 | 390   | 548   | 1.095 | 0.081 | 0.268 | 0.372  |

Table B.13 Sampling errors: Prey Veng sample, Cambodia 2014

| Variable   | R      | SE     | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE   |
|--|--------|--------|-------|-------|-------|-------|--------|---------|
| WOMEN  |        |        |       |       |       |       |        |         |
| Urban residence  | 0.032  | 0.004  | 819   | 1,188 | 0.658 | 0.127 | 0.024  | 0.040   |
| No schooling   | 0.191  | 0.028  | 819   | 1,188 | 2.015 | 0.145 | 0.136  | 0.247   |
| Secondary or higher education                          | 0.306  | 0.029  | 819   | 1,188 | 1.810 | 0.095 | 0.247  | 0.364   |
| Never married (never in union)                         | 0.163  | 0.016  | 819   | 1,188 | 1.257 | 0.100 | 0.130  | 0.195   |
| Currently married (in union)                           | 0.749  | 0.018  | 819   | 1,188 | 1.184 | 0.024 | 0.713  | 0.784   |
| Married before age 20                                  | 0.521  | 0.021  | 606   | 878   | 1.010 | 0.039 | 0.480  | 0.562   |
| Had first sexual intercourse before age 18             | 0.332  | 0.019  | 606   | 878   | 0.991 | 0.057 | 0.294  | 0.370   |
| Currently pregnant                                     | 0.049  | 0.007  | 819   | 1,188 | 0.901 | 0.139 | 0.035  | 0.062   |
| Children ever born                                     | 2.114  | 0.082  | 819   | 1,188 | 1.306 | 0.039 | 1.949  | 2.279   |
| Children surviving                                     | 1.879  | 0.067  | 819   | 1,188 | 1.234 | 0.036 | 1.746  | 2.013   |
| Children ever born to women age 40-49                  | 3.477  | 0.164  | 250   | 362   | 1.317 | 0.047 | 3.149  | 3.806   |
| Know any contraceptive method                          | 1.000  | 0.000  | 599   | 889   | na    | 0.000 | 1.000  | 1.000   |
| Know any modern contraceptive method                   | 1.000  | 0.000  | 599   | 889   | na    | 0.000 | 1.000  | 1.000   |
| Currently using any method                             | 0.554  | 0.026  | 599   | 889   | 1.262 | 0.046 | 0.502  | 0.605   |
| Currently using a modern method                        | 0.413  | 0.025  | 599   | 889   | 1.252 | 0.061 | 0.363  | 0.464   |
| Currently using daily pill                             | 0.194  | 0.022  | 599   | 889   | 1.363 | 0.114 | 0.150  | 0.238   |
| Currently using male condoms                           | 0.012  | 0.004  | 599   | 889   | 0.949 | 0.358 | 0.003  | 0.020   |
| Currently using injectables                            | 0.116  | 0.027  | 599   | 889   | 2.032 | 0.230 | 0.063  | 0.170   |
| Used public sector source                              | 0.480  | 0.060  | 246   | 368   | 1.878 | 0.125 | 0.360  | 0.601   |
| Want no more children                                  | 0.545  | 0.025  | 599   | 889   | 1.214 | 0.045 | 0.496  | 0.595   |
| Want to delay next birth at least 2 years              | 0.211  | 0.022  | 599   | 889   | 1.299 | 0.103 | 0.168  | 0.254   |
| Mothers protected against tetanus for last birth       | 0.912  | 0.021  | 264   | 405   | 1.250 | 0.023 | 0.869  | 0.955   |
| Mothers received medical assistance at delivery        | 0.976  | 0.011  | 326   | 499   | 1.160 | 0.012 | 0.954  | 0.999   |
| Had diarrhea in the last 2 weeks                       | 0.047  | 0.015  | 314   | 478   | 1.179 | 0.315 | 0.018  | 0.077   |
| Treated with ORS packets or pre-packed liquid          | 0.215  | 0.109  | 16    | 23    | 1.013 | 0.506 | 0.000  | 0.432   |
| Consulted medical personnel for diarrhea               | 0.852  | 0.076  | 16    | 23    | 0.831 | 0.090 | 0.700  | 1.005   |
| Vaccination card seen                                  | 0.688  | 0.065  | 62    | 101   | 1.145 | 0.094 | 0.559  | 0.818   |
| Received BCG vaccination                               | 0.952  | 0.028  | 62    | 101   | 1.079 | 0.029 | 0.897  | 1.008   |
| Received DPT vaccination (3 doses)                     | 0.760  | 0.080  | 62    | 101   | 1.537 | 0.105 | 0.600  | 0.920   |
| Received polio vaccination (3 doses)                   | 0.760  | 0.080  | 62    | 101   | 1.537 | 0.105 | 0.600  | 0.920   |
| Received measles vaccination                           | 0.632  | 0.076  | 62    | 101   | 1.281 | 0.120 | 0.480  | 0.783   |
| Received all basic vaccinations                        | 0.617  | 0.079  | 62    | 101   | 1.333 | 0.129 | 0.458  | 0.775   |
| Height-for-age (-2SD)                                  | 0.327  | 0.043  | 254   | 379   | 1.404 | 0.133 | 0.240  | 0.414   |
| Weight-for-height (-2SD)                               | 0.086  | 0.023  | 254   | 379   | 1.316 | 0.269 | 0.040  | 0.132   |
| Weight-for-age (-2SD)                                  | 0.222  | 0.041  | 254   | 379   | 1.572 | 0.185 | 0.140  | 0.304   |
| Prevalence of anemia (children 6-59 months)            | 0.513  | 0.045  | 230   | 345   | 1.429 | 0.088 | 0.422  | 0.603   |
| Prevalence of anemia (women 15-49)                     | 0.469  | 0.028  | 516   | 749   | 1.266 | 0.059 | 0.414  | 0.525   |
| Body mass index (BMI) <18.5                            | 0.125  | 0.019  | 488   | 708   | 1.290 | 0.155 | 0.086  | 0.164   |
| Had an HIV test and received results in past 12 months | 0.044  | 0.007  | 819   | 1,188 | 0.991 | 0.162 | 0.030  | 0.058   |
| Accepting attitudes towards people with HIV            | 0.277  | 0.026  | 816   | 1,184 | 1.632 | 0.093 | 0.225  | 0.328   |
| Total fertility rate (last 3 years)                    | 2.960  | 0.176  | 2,353 | 3,407 | 1.109 | 0.060 | 2.607  | 3.313   |
| Neonatal mortality (last 0-9 years)                    | 33.412 | 8.731  | 637   | 947   | 1.160 | 0.261 | 15.951 | 50.873  |
| Postneonatal mortality (last 0-9 years)                | 30.979 | 6.200  | 635   | 945   | 0.933 | 0.200 | 18.579 | 43.379  |
| Infant mortality (last 0-9 years)                      | 64.391 | 12.501 | 637   | 947   | 1.280 | 0.194 | 39.388 | 89.393  |
| Child mortality (last 0-9 years)                       | 11.348 | 5.219  | 615   | 918   | 1.187 | 0.460 | 0.910  | 21.786  |
| Under-5 mortality (last 0-9 years)                     | 75.008 | 13.786 | 639   | 951   | 1.338 | 0.184 | 47.436 | 102.580 |
| MEN  |        |        |       |       |       |       |        |         |
| Urban residence  | 0.037  | 0.005  | 244   | 342   | 0.372 | 0.121 | 0.028  | 0.046   |
| No education   | 0.092  | 0.023  | 244   | 342   | 1.214 | 0.245 | 0.047  | 0.137   |
| Secondary or higher education                          | 0.565  | 0.042  | 244   | 342   | 1.327 | 0.075 | 0.480  | 0.649   |
| Never married (in union)                               | 0.242  | 0.033  | 244   | 342   | 1.194 | 0.136 | 0.176  | 0.308   |
| Currently married (in union)                           | 0.724  | 0.030  | 244   | 342   | 1.032 | 0.041 | 0.665  | 0.783   |
| Had first sexual intercourse before age 18             | 0.161  | 0.032  | 180   | 257   | 1.148 | 0.196 | 0.098  | 0.224   |
| Want no more children                                  | 0.526  | 0.047  | 174   | 248   | 1.242 | 0.090 | 0.432  | 0.621   |
| Want to delay birth at least 2 years                   | 0.294  | 0.043  | 174   | 248   | 1.248 | 0.147 | 0.207  | 0.381   |
| Had paid sex in past 12 months                         | 0.036  | 0.012  | 244   | 342   | 1.009 | 0.337 | 0.012  | 0.059   |
| Had HIV test and received results in past 12 months    | 0.090  | 0.027  | 244   | 342   | 1.470 | 0.300 | 0.036  | 0.144   |
| Accepting attitudes towards people with HIV            | 0.361  | 0.036  | 239   | 337   | 1.140 | 0.099 | 0.289  | 0.432   |

Table B.14 Sampling errors: Pursat sample, Cambodia 2014

| Variable   | R      | SE    | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|-------|-------|-------|-------|-------|--------|--------|
| WOMEN  |        |       |       |       |       |       |        |        |
| Urban residence  | 0.049  | 0.006 | 859   | 631   | 0.822 | 0.123 | 0.037  | 0.061  |
| No schooling   | 0.163  | 0.035 | 859   | 631   | 2.749 | 0.214 | 0.093  | 0.232  |
| Secondary or higher education                          | 0.322  | 0.050 | 859   | 631   | 3.126 | 0.156 | 0.222  | 0.423  |
| Never married (never in union)                         | 0.278  | 0.033 | 859   | 631   | 2.133 | 0.117 | 0.213  | 0.344  |
| Currently married (in union)                           | 0.673  | 0.034 | 859   | 631   | 2.120 | 0.051 | 0.605  | 0.741  |
| Married before age 20                                  | 0.428  | 0.050 | 561   | 404   | 2.391 | 0.117 | 0.328  | 0.529  |
| Had first sexual intercourse before age 18             | 0.210  | 0.045 | 561   | 404   | 2.588 | 0.213 | 0.121  | 0.300  |
| Currently pregnant                                     | 0.059  | 0.013 | 859   | 631   | 1.648 | 0.224 | 0.033  | 0.086  |
| Children ever born                                     | 1.954  | 0.111 | 859   | 631   | 1.553 | 0.057 | 1.731  | 2.176  |
| Children surviving                                     | 1.815  | 0.103 | 859   | 631   | 1.602 | 0.057 | 1.609  | 2.021  |
| Children ever born to women age 40-49                  | 4.025  | 0.232 | 170   | 116   | 1.228 | 0.058 | 3.560  | 4.489  |
| Know any contraceptive method                          | 1.000  | 0.000 | 568   | 425   | na    | 0.000 | 1.000  | 1.000  |
| Know any modern contraceptive method                   | 1.000  | 0.000 | 568   | 425   | na    | 0.000 | 1.000  | 1.000  |
| Currently using any method                             | 0.510  | 0.032 | 568   | 425   | 1.542 | 0.063 | 0.446  | 0.575  |
| Currently using a modern method                        | 0.401  | 0.028 | 568   | 425   | 1.359 | 0.070 | 0.345  | 0.457  |
| Currently using daily pill                             | 0.188  | 0.031 | 568   | 425   | 1.911 | 0.167 | 0.125  | 0.251  |
| Currently using male condoms                           | 0.017  | 0.007 | 568   | 425   | 1.225 | 0.396 | 0.003  | 0.030  |
| Currently using injectables                            | 0.111  | 0.017 | 568   | 425   | 1.291 | 0.154 | 0.077  | 0.145  |
| Used public sector source                              | 0.477  | 0.047 | 217   | 173   | 1.393 | 0.100 | 0.382  | 0.572  |
| Want no more children                                  | 0.507  | 0.023 | 568   | 425   | 1.113 | 0.046 | 0.460  | 0.553  |
| Want to delay next birth at least 2 years              | 0.327  | 0.025 | 568   | 425   | 1.247 | 0.075 | 0.278  | 0.376  |
| Mothers protected against tetanus for last birth       | 0.898  | 0.018 | 314   | 245   | 1.079 | 0.020 | 0.862  | 0.934  |
| Mothers received medical assistance at delivery        | 0.861  | 0.035 | 388   | 298   | 1.830 | 0.041 | 0.790  | 0.931  |
| Had diarrhea in the last 2 weeks                       | 0.082  | 0.019 | 383   | 294   | 1.343 | 0.236 | 0.043  | 0.120  |
| Treated with ORS packets or pre-packed liquid          | 0.497  | 0.166 | 27    | 24    | 1.803 | 0.334 | 0.165  | 0.830  |
| Consulted medical personnel for diarrhea               | 0.310  | 0.114 | 27    | 24    | 1.372 | 0.367 | 0.082  | 0.538  |
| Vaccination card seen                                  | 0.844  | 0.053 | 71    | 60    | 1.317 | 0.063 | 0.738  | 0.950  |
| Received BCG vaccination                               | 0.953  | 0.025 | 71    | 60    | 1.080 | 0.027 | 0.902  | 1.004  |
| Received DPT vaccination (3 doses)                     | 0.833  | 0.055 | 71    | 60    | 1.328 | 0.066 | 0.724  | 0.943  |
| Received polio vaccination (3 doses)                   | 0.845  | 0.055 | 71    | 60    | 1.373 | 0.065 | 0.735  | 0.955  |
| Received measles vaccination                           | 0.889  | 0.046 | 71    | 60    | 1.309 | 0.051 | 0.797  | 0.980  |
| Received all basic vaccinations                        | 0.797  | 0.057 | 71    | 60    | 1.272 | 0.071 | 0.683  | 0.911  |
| Height-for-age (-2SD)                                  | 0.388  | 0.062 | 257   | 200   | 2.094 | 0.159 | 0.264  | 0.511  |
| Weight-for-height (-2SD)                               | 0.123  | 0.021 | 257   | 200   | 1.025 | 0.173 | 0.081  | 0.166  |
| Weight-for-age (-2SD)                                  | 0.316  | 0.057 | 257   | 200   | 1.935 | 0.180 | 0.203  | 0.430  |
| Prevalence of anemia (children 6-59 months)            | 0.648  | 0.042 | 243   | 192   | 1.405 | 0.065 | 0.563  | 0.732  |
| Prevalence of anemia (women 15-49)                     | 0.466  | 0.029 | 566   | 418   | 1.403 | 0.063 | 0.408  | 0.525  |
| Body mass index (BMI) <18.5                            | 0.131  | 0.023 | 524   | 384   | 1.583 | 0.179 | 0.084  | 0.178  |
| Had an HIV test and received results in past 12 months | 0.094  | 0.012 | 859   | 631   | 1.213 | 0.128 | 0.070  | 0.118  |
| Accepting attitudes towards people with HIV            | 0.201  | 0.025 | 856   | 629   | 1.823 | 0.125 | 0.151  | 0.251  |
| Total fertility rate (last 3 years)                    | 3.063  | 0.219 | 2,448 | 1,804 | 1.468 | 0.072 | 2.624  | 3.502  |
| Neonatal mortality (last 0-9 years)                    | 14.099 | 4.878 | 783   | 605   | 1.153 | 0.346 | 4.343  | 23.856 |
| Postneonatal mortality (last 0-9 years)                | 16.562 | 5.229 | 776   | 602   | 1.281 | 0.316 | 6.105  | 27.019 |
| Infant mortality (last 0-9 years)                      | 30.662 | 8.837 | 784   | 608   | 1.540 | 0.288 | 12.989 | 48.335 |
| Child mortality (last 0-9 years)                       | 5.031  | 4.360 | 771   | 616   | 1.360 | 0.867 | 0.000  | 13.751 |
| Under-5 mortality (last 0-9 years)                     | 35.538 | 9.303 | 786   | 610   | 1.487 | 0.262 | 16.931 | 54.145 |
| MEN  |        |       |       |       |       |       |        |        |
| Urban residence  | 0.048  | 0.008 | 261   | 184   | 0.608 | 0.169 | 0.031  | 0.064  |
| No education   | 0.080  | 0.025 | 261   | 184   | 1.461 | 0.309 | 0.030  | 0.129  |
| Secondary or higher education                          | 0.382  | 0.045 | 261   | 184   | 1.502 | 0.119 | 0.291  | 0.473  |
| Never married (in union)                               | 0.390  | 0.050 | 261   | 184   | 1.647 | 0.128 | 0.290  | 0.490  |
| Currently married (in union)                           | 0.590  | 0.049 | 261   | 184   | 1.600 | 0.083 | 0.492  | 0.688  |
| Had first sexual intercourse before age 18             | 0.089  | 0.027 | 172   | 113   | 1.252 | 0.308 | 0.034  | 0.143  |
| Want no more children                                  | 0.430  | 0.037 | 167   | 109   | 0.973 | 0.087 | 0.355  | 0.505  |
| Want to delay birth at least 2 years                   | 0.316  | 0.035 | 167   | 109   | 0.957 | 0.109 | 0.247  | 0.385  |
| Had paid sex in past 12 months                         | 0.022  | 0.009 | 261   | 184   | 1.036 | 0.427 | 0.003  | 0.041  |
| Had HIV test and received results in past 12 months    | 0.056  | 0.017 | 261   | 184   | 1.224 | 0.312 | 0.021  | 0.091  |
| Accepting attitudes towards people with HIV            | 0.388  | 0.061 | 260   | 183   | 2.012 | 0.158 | 0.265  | 0.510  |

Table B.15 Sampling errors: Siem Reap sample, Cambodia 2014

| Variable   | R      | SE     | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|--------|-------|-------|-------|-------|--------|--------|
| WOMEN  |        |        |       |       |       |       |        |        |
| Urban residence  | 0.179  | 0.022  | 943   | 1,137 | 1.725 | 0.120 | 0.136  | 0.222  |
| No schooling   | 0.254  | 0.033  | 943   | 1,137 | 2.322 | 0.130 | 0.188  | 0.321  |
| Secondary or higher education                          | 0.293  | 0.028  | 943   | 1,137 | 1.915 | 0.097 | 0.236  | 0.350  |
| Never married (never in union)                         | 0.252  | 0.015  | 943   | 1,137 | 1.086 | 0.061 | 0.221  | 0.283  |
| Currently married (in union)                           | 0.672  | 0.018  | 943   | 1,137 | 1.169 | 0.027 | 0.637  | 0.708  |
| Married before age 20                                  | 0.456  | 0.031  | 607   | 746   | 1.554 | 0.069 | 0.393  | 0.519  |
| Had first sexual intercourse before age 18             | 0.223  | 0.026  | 607   | 746   | 1.549 | 0.118 | 0.170  | 0.275  |
| Currently pregnant                                     | 0.052  | 0.008  | 943   | 1,137 | 1.073 | 0.149 | 0.036  | 0.067  |
| Children ever born                                     | 2.096  | 0.093  | 943   | 1,137 | 1.395 | 0.044 | 1.910  | 2.282  |
| Children surviving                                     | 1.902  | 0.083  | 943   | 1,137 | 1.398 | 0.044 | 1.736  | 2.067  |
| Children ever born to women age 40-49                  | 3.889  | 0.168  | 199   | 259   | 1.108 | 0.043 | 3.552  | 4.225  |
| Know any contraceptive method                          | 1.000  | 0.000  | 604   | 765   | na    | 0.000 | 1.000  | 1.000  |
| Know any modern contraceptive method                   | 1.000  | 0.000  | 604   | 765   | na    | 0.000 | 1.000  | 1.000  |
| Currently using any method                             | 0.590  | 0.025  | 604   | 765   | 1.258 | 0.043 | 0.540  | 0.641  |
| Currently using a modern method                        | 0.465  | 0.023  | 604   | 765   | 1.131 | 0.049 | 0.419  | 0.511  |
| Currently using daily pill                             | 0.195  | 0.033  | 604   | 765   | 2.023 | 0.168 | 0.130  | 0.261  |
| Currently using male condoms                           | 0.038  | 0.008  | 604   | 765   | 0.993 | 0.204 | 0.022  | 0.053  |
| Currently using injectables                            | 0.102  | 0.019  | 604   | 765   | 1.530 | 0.185 | 0.064  | 0.139  |
| Used public sector source                              | 0.623  | 0.050  | 292   | 367   | 1.769 | 0.081 | 0.522  | 0.724  |
| Want no more children                                  | 0.550  | 0.031  | 604   | 765   | 1.525 | 0.056 | 0.488  | 0.612  |
| Want to delay next birth at least 2 years              | 0.268  | 0.022  | 604   | 765   | 1.215 | 0.082 | 0.224  | 0.311  |
| Mothers protected against tetanus for last birth       | 0.864  | 0.027  | 299   | 379   | 1.347 | 0.031 | 0.810  | 0.917  |
| Mothers received medical assistance at delivery        | 0.930  | 0.018  | 380   | 487   | 1.324 | 0.020 | 0.893  | 0.966  |
| Had diarrhea in the last 2 weeks                       | 0.169  | 0.027  | 369   | 470   | 1.357 | 0.162 | 0.114  | 0.223  |
| Treated with ORS packets or pre-packed liquid          | 0.544  | 0.063  | 58    | 79    | 1.007 | 0.116 | 0.418  | 0.670  |
| Consulted medical personnel for diarrhea               | 0.481  | 0.072  | 58    | 79    | 1.102 | 0.151 | 0.336  | 0.625  |
| Vaccination card seen                                  | 0.919  | 0.029  | 79    | 100   | 0.952 | 0.032 | 0.861  | 0.978  |
| Received BCG vaccination                               | 0.982  | 0.013  | 79    | 100   | 0.883 | 0.014 | 0.955  | 1.008  |
| Received DPT vaccination (3 doses)                     | 0.909  | 0.042  | 79    | 100   | 1.306 | 0.047 | 0.824  | 0.994  |
| Received polio vaccination (3 doses)                   | 0.866  | 0.046  | 79    | 100   | 1.197 | 0.053 | 0.773  | 0.958  |
| Received measles vaccination                           | 0.851  | 0.040  | 79    | 100   | 0.999 | 0.047 | 0.771  | 0.932  |
| Received all basic vaccinations                        | 0.786  | 0.047  | 79    | 100   | 1.018 | 0.060 | 0.692  | 0.881  |
| Height-for-age (-2SD)                                  | 0.359  | 0.034  | 257   | 323   | 1.101 | 0.096 | 0.290  | 0.428  |
| Weight-for-height (-2SD)                               | 0.095  | 0.022  | 257   | 323   | 1.211 | 0.226 | 0.052  | 0.138  |
| Weight-for-age (-2SD)                                  | 0.262  | 0.031  | 257   | 323   | 1.066 | 0.117 | 0.201  | 0.324  |
| Prevalence of anemia (children 6-59 months)            | 0.523  | 0.035  | 243   | 306   | 1.100 | 0.067 | 0.453  | 0.593  |
| Prevalence of anemia (women 15-49)                     | 0.411  | 0.025  | 615   | 722   | 1.252 | 0.061 | 0.360  | 0.461  |
| Body mass index (BMI) <18.5                            | 0.116  | 0.016  | 581   | 686   | 1.160 | 0.134 | 0.085  | 0.148  |
| Had an HIV test and received results in past 12 months | 0.106  | 0.012  | 943   | 1,137 | 1.172 | 0.111 | 0.082  | 0.129  |
| Accepting attitudes towards people with HIV            | 0.323  | 0.020  | 923   | 1,110 | 1.321 | 0.063 | 0.282  | 0.363  |
| Total fertility rate (last 3 years)                    | 2.714  | 0.245  | 2,673 | 3,252 | 1.346 | 0.090 | 2.223  | 3.205  |
| Neonatal mortality (last 0-9 years)                    | 17.492 | 6.048  | 829   | 1,084 | 1.095 | 0.346 | 5.395  | 29.589 |
| Postneonatal mortality (last 0-9 years)                | 22.959 | 7.613  | 835   | 1,092 | 1.178 | 0.332 | 7.732  | 38.186 |
| Infant mortality (last 0-9 years)                      | 40.451 | 8.948  | 829   | 1,084 | 1.075 | 0.221 | 22.554 | 58.347 |
| Child mortality (last 0-9 years)                       | 16.453 | 6.135  | 838   | 1,096 | 1.412 | 0.373 | 4.183  | 28.722 |
| Under-5 mortality (last 0-9 years)                     | 56.238 | 10.759 | 833   | 1,088 | 1.187 | 0.191 | 34.721 | 77.755 |
| MEN  |        |        |       |       |       |       |        |        |
| Urban residence  | 0.143  | 0.017  | 282   | 337   | 0.819 | 0.120 | 0.108  | 0.177  |
| No education   | 0.208  | 0.032  | 282   | 337   | 1.315 | 0.153 | 0.145  | 0.272  |
| Secondary or higher education                          | 0.347  | 0.057  | 282   | 337   | 1.985 | 0.163 | 0.233  | 0.460  |
| Never married (in union)                               | 0.301  | 0.029  | 282   | 337   | 1.042 | 0.095 | 0.244  | 0.358  |
| Currently married (in union)                           | 0.680  | 0.029  | 282   | 337   | 1.038 | 0.043 | 0.622  | 0.738  |
| Had first sexual intercourse before age 18             | 0.031  | 0.013  | 181   | 217   | 0.985 | 0.412 | 0.005  | 0.056  |
| Want no more children                                  | 0.598  | 0.034  | 185   | 229   | 0.949 | 0.057 | 0.529  | 0.667  |
| Want to delay birth at least 2 years                   | 0.268  | 0.032  | 185   | 229   | 0.977 | 0.119 | 0.204  | 0.332  |
| Had paid sex in past 12 months                         | 0.038  | 0.013  | 282   | 337   | 1.142 | 0.341 | 0.012  | 0.065  |
| Had HIV test and received results in past 12 months    | 0.051  | 0.014  | 282   | 337   | 1.095 | 0.281 | 0.023  | 0.080  |
| Accepting attitudes towards people with HIV            | 0.406  | 0.028  | 277   | 331   | 0.940 | 0.068 | 0.350  | 0.461  |



Table B.16 Sampling errors: Svay Rieng sample, Cambodia 2014

| Variable   | R      | SE     | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE   |
|--|--------|--------|-------|-------|-------|-------|--------|---------|
| WOMEN  |        |        |       |       |       |       |        |         |
| Urban residence  | 0.037  | 0.004  | 822   | 654   | 0.549 | 0.098 | 0.030  | 0.044   |
| No schooling   | 0.060  | 0.011  | 822   | 654   | 1.306 | 0.181 | 0.038  | 0.081   |
| Secondary or higher education                          | 0.352  | 0.027  | 822   | 654   | 1.590 | 0.075 | 0.299  | 0.405   |
| Never married (never in union)                         | 0.200  | 0.019  | 822   | 654   | 1.380 | 0.097 | 0.161  | 0.238   |
| Currently married (in union)                           | 0.738  | 0.021  | 822   | 654   | 1.343 | 0.028 | 0.696  | 0.779   |
| Married before age 20                                  | 0.497  | 0.026  | 604   | 478   | 1.283 | 0.053 | 0.444  | 0.549   |
| Had first sexual intercourse before age 18             | 0.269  | 0.025  | 604   | 478   | 1.412 | 0.095 | 0.218  | 0.320   |
| Currently pregnant                                     | 0.057  | 0.008  | 822   | 654   | 0.996 | 0.142 | 0.041  | 0.073   |
| Children ever born                                     | 1.967  | 0.096  | 822   | 654   | 1.578 | 0.049 | 1.775  | 2.159   |
| Children surviving                                     | 1.789  | 0.076  | 822   | 654   | 1.418 | 0.042 | 1.638  | 1.940   |
| Children ever born to women age 40-49                  | 3.424  | 0.183  | 225   | 180   | 1.472 | 0.054 | 3.057  | 3.791   |
| Know any contraceptive method                          | 1.000  | 0.000  | 590   | 483   | na    | 0.000 | 1.000  | 1.000   |
| Know any modern contraceptive method                   | 1.000  | 0.000  | 590   | 483   | na    | 0.000 | 1.000  | 1.000   |
| Currently using any method                             | 0.579  | 0.027  | 590   | 483   | 1.325 | 0.047 | 0.525  | 0.633   |
| Currently using a modern method                        | 0.407  | 0.030  | 590   | 483   | 1.490 | 0.074 | 0.346  | 0.467   |
| Currently using daily pill                             | 0.197  | 0.028  | 590   | 483   | 1.732 | 0.144 | 0.140  | 0.254   |
| Currently using male condoms                           | 0.017  | 0.005  | 590   | 483   | 0.927 | 0.292 | 0.007  | 0.027   |
| Currently using injectables                            | 0.093  | 0.016  | 590   | 483   | 1.324 | 0.170 | 0.062  | 0.125   |
| Used public sector source                              | 0.519  | 0.046  | 231   | 196   | 1.396 | 0.089 | 0.427  | 0.611   |
| Want no more children                                  | 0.606  | 0.018  | 590   | 483   | 0.912 | 0.030 | 0.569  | 0.643   |
| Want to delay next birth at least 2 years              | 0.213  | 0.014  | 590   | 483   | 0.851 | 0.067 | 0.184  | 0.242   |
| Mothers protected against tetanus for last birth       | 0.931  | 0.012  | 282   | 229   | 0.795 | 0.013 | 0.907  | 0.955   |
| Mothers received medical assistance at delivery        | 0.943  | 0.018  | 320   | 261   | 1.328 | 0.019 | 0.907  | 0.980   |
| Had diarrhea in the last 2 weeks                       | 0.056  | 0.014  | 311   | 253   | 1.104 | 0.258 | 0.027  | 0.085   |
| Treated with ORS packets or pre-packed liquid          | 0.412  | 0.103  | 17    | 14    | 0.873 | 0.249 | 0.207  | 0.617   |
| Consulted medical personnel for diarrhea               | 0.640  | 0.125  | 17    | 14    | 1.095 | 0.196 | 0.390  | 0.891   |
| Vaccination card seen                                  | 0.724  | 0.051  | 70    | 53    | 0.934 | 0.071 | 0.621  | 0.827   |
| Received BCG vaccination                               | 0.924  | 0.034  | 70    | 53    | 1.056 | 0.037 | 0.856  | 0.993   |
| Received DPT vaccination (3 doses)                     | 0.888  | 0.044  | 70    | 53    | 1.130 | 0.049 | 0.800  | 0.976   |
| Received polio vaccination (3 doses)                   | 0.888  | 0.044  | 70    | 53    | 1.130 | 0.049 | 0.800  | 0.976   |
| Received measles vaccination                           | 0.867  | 0.043  | 70    | 53    | 1.037 | 0.050 | 0.780  | 0.953   |
| Received all basic vaccinations                        | 0.827  | 0.046  | 70    | 53    | 0.981 | 0.055 | 0.735  | 0.918   |
| Height-for-age (-2SD)                                  | 0.328  | 0.026  | 233   | 190   | 0.864 | 0.080 | 0.275  | 0.381   |
| Weight-for-height (-2SD)                               | 0.076  | 0.019  | 233   | 190   | 1.051 | 0.251 | 0.038  | 0.113   |
| Weight-for-age (-2SD)                                  | 0.208  | 0.027  | 233   | 190   | 0.970 | 0.128 | 0.155  | 0.261   |
| Prevalence of anemia (children 6-59 months)            | 0.498  | 0.045  | 206   | 168   | 1.259 | 0.090 | 0.409  | 0.588   |
| Prevalence of anemia (women 15-49)                     | 0.457  | 0.030  | 541   | 427   | 1.391 | 0.065 | 0.397  | 0.517   |
| Body mass index (BMI) <18.5                            | 0.131  | 0.021  | 514   | 405   | 1.420 | 0.162 | 0.089  | 0.174   |
| Had an HIV test and received results in past 12 months | 0.113  | 0.013  | 822   | 654   | 1.161 | 0.114 | 0.087  | 0.138   |
| Accepting attitudes towards people with HIV            | 0.132  | 0.016  | 817   | 651   | 1.382 | 0.124 | 0.099  | 0.165   |
| Total fertility rate (last 3 years)                    | 2.502  | 0.167  | 2,373 | 1,887 | 0.974 | 0.067 | 2.169  | 2.835   |
| Neonatal mortality (last 0-9 years)                    | 20.018 | 6.977  | 635   | 519   | 1.271 | 0.349 | 6.064  | 33.972  |
| Postneonatal mortality (last 0-9 years)                | 26.091 | 9.519  | 639   | 521   | 1.258 | 0.365 | 7.052  | 45.129  |
| Infant mortality (last 0-9 years)                      | 46.109 | 15.385 | 636   | 520   | 1.563 | 0.334 | 15.339 | 76.879  |
| Child mortality (last 0-9 years)                       | 17.581 | 6.519  | 633   | 517   | 1.101 | 0.371 | 4.543  | 30.619  |
| Under-5 mortality (last 0-9 years)                     | 62.879 | 20.106 | 638   | 521   | 1.756 | 0.320 | 22.667 | 103.090 |
| MEN  |        |        |       |       |       |       |        |         |
| Urban residence  | 0.036  | 0.008  | 237   | 183   | 0.638 | 0.215 | 0.020  | 0.051   |
| No education   | 0.011  | 0.008  | 237   | 183   | 1.126 | 0.703 | 0.000  | 0.026   |
| Secondary or higher education                          | 0.601  | 0.038  | 237   | 183   | 1.200 | 0.064 | 0.525  | 0.678   |
| Never married (in union)                               | 0.272  | 0.035  | 237   | 183   | 1.214 | 0.129 | 0.202  | 0.342   |
| Currently married (in union)                           | 0.711  | 0.037  | 237   | 183   | 1.248 | 0.052 | 0.637  | 0.785   |
| Had first sexual intercourse before age 18             | 0.231  | 0.044  | 157   | 123   | 1.291 | 0.189 | 0.144  | 0.319   |
| Want no more children                                  | 0.447  | 0.034  | 160   | 130   | 0.862 | 0.076 | 0.379  | 0.514   |
| Want to delay birth at least 2 years                   | 0.347  | 0.032  | 160   | 130   | 0.845 | 0.092 | 0.283  | 0.411   |
| Had paid sex in past 12 months                         | 0.018  | 0.013  | 237   | 183   | 1.476 | 0.718 | 0.000  | 0.043   |
| Had HIV test and received results in past 12 months    | 0.097  | 0.021  | 237   | 183   | 1.091 | 0.217 | 0.055  | 0.139   |
| Accepting attitudes towards people with HIV            | 0.333  | 0.032  | 237   | 183   | 1.053 | 0.097 | 0.268  | 0.397   |

Table B.17 Sampling errors: Takeo sample, Cambodia 2014

| Variable   | R      | SE    | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|-------|-------|-------|-------|-------|--------|--------|
| WOMEN  |        |       |       |       |       |       |        |        |
| Urban residence  | 0.019  | 0.003 | 868   | 1,082 | 0.562 | 0.136 | 0.014  | 0.024  |
| No schooling   | 0.117  | 0.019 | 868   | 1,082 | 1.705 | 0.159 | 0.080  | 0.155  |
| Secondary or higher education                          | 0.495  | 0.031 | 868   | 1,082 | 1.814 | 0.062 | 0.434  | 0.557  |
| Never married (never in union)                         | 0.274  | 0.016 | 868   | 1,082 | 1.062 | 0.059 | 0.242  | 0.306  |
| Currently married (in union)                           | 0.626  | 0.018 | 868   | 1,082 | 1.110 | 0.029 | 0.589  | 0.662  |
| Married before age 20                                  | 0.436  | 0.021 | 572   | 715   | 0.996 | 0.047 | 0.395  | 0.478  |
| Had first sexual intercourse before age 18             | 0.227  | 0.016 | 572   | 715   | 0.894 | 0.069 | 0.196  | 0.259  |
| Currently pregnant                                     | 0.039  | 0.006 | 868   | 1,082 | 0.947 | 0.160 | 0.026  | 0.051  |
| Children ever born                                     | 1.782  | 0.074 | 868   | 1,082 | 1.237 | 0.042 | 1.634  | 1.930  |
| Children surviving                                     | 1.687  | 0.068 | 868   | 1,082 | 1.231 | 0.041 | 1.550  | 1.824  |
| Children ever born to women age 40-49                  | 3.732  | 0.156 | 201   | 239   | 1.266 | 0.042 | 3.420  | 4.044  |
| Know any contraceptive method                          | 0.998  | 0.002 | 541   | 677   | 1.097 | 0.002 | 0.993  | 1.002  |
| Know any modern contraceptive method                   | 0.998  | 0.002 | 541   | 677   | 1.097 | 0.002 | 0.993  | 1.002  |
| Currently using any method                             | 0.601  | 0.020 | 541   | 677   | 0.951 | 0.033 | 0.561  | 0.641  |
| Currently using a modern method                        | 0.482  | 0.024 | 541   | 677   | 1.128 | 0.050 | 0.433  | 0.530  |
| Currently using daily pill                             | 0.196  | 0.033 | 541   | 677   | 1.934 | 0.169 | 0.130  | 0.263  |
| Currently using male condoms                           | 0.017  | 0.005 | 541   | 677   | 0.927 | 0.308 | 0.006  | 0.027  |
| Currently using injectables                            | 0.106  | 0.018 | 541   | 677   | 1.366 | 0.171 | 0.069  | 0.142  |
| Used public sector source                              | 0.534  | 0.045 | 248   | 328   | 1.403 | 0.084 | 0.445  | 0.624  |
| Want no more children                                  | 0.427  | 0.020 | 541   | 677   | 0.920 | 0.046 | 0.388  | 0.467  |
| Want to delay next birth at least 2 years              | 0.200  | 0.014 | 541   | 677   | 0.802 | 0.069 | 0.172  | 0.227  |
| Mothers protected against tetanus for last birth       | 0.939  | 0.016 | 247   | 321   | 1.080 | 0.017 | 0.906  | 0.971  |
| Mothers received medical assistance at delivery        | 0.974  | 0.010 | 297   | 386   | 0.986 | 0.010 | 0.954  | 0.994  |
| Had diarrhea in the last 2 weeks                       | 0.189  | 0.033 | 289   | 374   | 1.424 | 0.176 | 0.123  | 0.256  |
| Treated with ORS packets or pre-packed liquid          | 0.577  | 0.077 | 51    | 71    | 1.134 | 0.134 | 0.422  | 0.732  |
| Consulted medical personnel for diarrhea               | 0.525  | 0.071 | 51    | 71    | 1.024 | 0.135 | 0.383  | 0.668  |
| Vaccination card seen                                  | 0.897  | 0.034 | 63    | 84    | 0.918 | 0.038 | 0.829  | 0.966  |
| Received BCG vaccination                               | 0.965  | 0.023 | 63    | 84    | 1.026 | 0.024 | 0.918  | 1.011  |
| Received DPT vaccination (3 doses)                     | 0.979  | 0.017 | 63    | 84    | 0.957 | 0.017 | 0.945  | 1.013  |
| Received polio vaccination (3 doses)                   | 0.931  | 0.031 | 63    | 84    | 0.988 | 0.033 | 0.870  | 0.993  |
| Received measles vaccination                           | 0.942  | 0.030 | 63    | 84    | 1.037 | 0.032 | 0.882  | 1.001  |
| Received all basic vaccinations                        | 0.878  | 0.039 | 63    | 84    | 0.966 | 0.045 | 0.799  | 0.956  |
| Height-for-age (-2SD)                                  | 0.307  | 0.031 | 207   | 258   | 0.953 | 0.102 | 0.244  | 0.369  |
| Weight-for-height (-2SD)                               | 0.146  | 0.031 | 207   | 258   | 1.245 | 0.212 | 0.084  | 0.208  |
| Weight-for-age (-2SD)                                  | 0.227  | 0.034 | 207   | 258   | 1.185 | 0.149 | 0.159  | 0.295  |
| Prevalence of anemia (children 6-59 months)            | 0.531  | 0.045 | 197   | 245   | 1.254 | 0.085 | 0.441  | 0.622  |
| Prevalence of anemia (women 15-49)                     | 0.354  | 0.025 | 563   | 693   | 1.227 | 0.070 | 0.304  | 0.403  |
| Body mass index (BMI) <18.5                            | 0.139  | 0.016 | 531   | 653   | 1.032 | 0.112 | 0.108  | 0.170  |
| Had an HIV test and received results in past 12 months | 0.092  | 0.010 | 868   | 1,082 | 1.055 | 0.113 | 0.071  | 0.113  |
| Accepting attitudes towards people with HIV            | 0.308  | 0.022 | 859   | 1,070 | 1.388 | 0.071 | 0.264  | 0.352  |
| Total fertility rate (last 3 years)                    | 2.368  | 0.166 | 2,437 | 3,038 | 1.134 | 0.070 | 2.036  | 2.701  |
| Neonatal mortality (last 0-9 years)                    | 15.751 | 6.119 | 625   | 810   | 0.981 | 0.388 | 3.513  | 27.989 |
| Postneonatal mortality (last 0-9 years)                | 12.008 | 5.572 | 620   | 804   | 1.208 | 0.464 | 0.864  | 23.152 |
| Infant mortality (last 0-9 years)                      | 27.760 | 7.540 | 625   | 810   | 0.935 | 0.272 | 12.679 | 42.840 |
| Child mortality (last 0-9 years)                       | 3.665  | 2.574 | 617   | 793   | 1.052 | 0.702 | 0.000  | 8.813  |
| Under-5 mortality (last 0-9 years)                     | 31.322 | 8.771 | 625   | 810   | 1.027 | 0.280 | 13.781 | 48.864 |
| MEN  |        |       |       |       |       |       |        |        |
| Urban residence  | 0.014  | 0.004 | 252   | 334   | 0.583 | 0.304 | 0.006  | 0.023  |
| No education   | 0.041  | 0.013 | 252   | 334   | 1.000 | 0.304 | 0.016  | 0.067  |
| Secondary or higher education                          | 0.581  | 0.046 | 252   | 334   | 1.464 | 0.079 | 0.490  | 0.672  |
| Never married (in union)                               | 0.339  | 0.024 | 252   | 334   | 0.793 | 0.070 | 0.292  | 0.387  |
| Currently married (in union)                           | 0.642  | 0.027 | 252   | 334   | 0.901 | 0.042 | 0.587  | 0.696  |
| Had first sexual intercourse before age 18             | 0.114  | 0.025 | 173   | 224   | 1.020 | 0.217 | 0.065  | 0.164  |
| Want no more children                                  | 0.529  | 0.036 | 163   | 214   | 0.910 | 0.067 | 0.458  | 0.600  |
| Want to delay birth at least 2 years                   | 0.297  | 0.041 | 163   | 214   | 1.148 | 0.139 | 0.215  | 0.380  |
| Had paid sex in past 12 months                         | 0.029  | 0.010 | 252   | 334   | 0.955 | 0.346 | 0.009  | 0.050  |
| Had HIV test and received results in past 12 months    | 0.105  | 0.025 | 252   | 334   | 1.282 | 0.237 | 0.055  | 0.155  |
| Accepting attitudes towards people with HIV            | 0.325  | 0.033 | 248   | 327   | 1.115 | 0.102 | 0.259  | 0.392  |



Table B.18 Sampling errors: Otdar Meanchey sample, Cambodia 2014

| Variable   | R      | SE     | N     | WN  | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|--------|-------|-----|-------|-------|--------|--------|
| WOMEN  |        |        |       |     |       |       |        |        |
| Urban residence  | 0.070  | 0.011  | 823   | 294 | 1.234 | 0.157 | 0.048  | 0.092  |
| No schooling   | 0.264  | 0.022  | 823   | 294 | 1.429 | 0.083 | 0.220  | 0.308  |
| Secondary or higher education                          | 0.286  | 0.032  | 823   | 294 | 2.035 | 0.112 | 0.222  | 0.351  |
| Never married (never in union)                         | 0.222  | 0.018  | 823   | 294 | 1.261 | 0.082 | 0.185  | 0.258  |
| Currently married (in union)                           | 0.739  | 0.018  | 823   | 294 | 1.155 | 0.024 | 0.704  | 0.775  |
| Married before age 20                                  | 0.495  | 0.023  | 536   | 195 | 1.073 | 0.047 | 0.448  | 0.541  |
| Had first sexual intercourse before age 18             | 0.247  | 0.019  | 536   | 195 | 1.018 | 0.077 | 0.209  | 0.285  |
| Currently pregnant                                     | 0.085  | 0.010  | 823   | 294 | 0.981 | 0.113 | 0.066  | 0.104  |
| Children ever born                                     | 2.063  | 0.120  | 823   | 294 | 1.676 | 0.058 | 1.823  | 2.303  |
| Children surviving                                     | 1.947  | 0.109  | 823   | 294 | 1.646 | 0.056 | 1.730  | 2.165  |
| Children ever born to women age 40-49                  | 4.640  | 0.283  | 162   | 58  | 1.642 | 0.061 | 4.075  | 5.206  |
| Know any contraceptive method                          | 1.000  | 0.000  | 603   | 218 | na    | 0.000 | 1.000  | 1.000  |
| Know any modern contraceptive method                   | 1.000  | 0.000  | 603   | 218 | na    | 0.000 | 1.000  | 1.000  |
| Currently using any method                             | 0.566  | 0.030  | 603   | 218 | 1.461 | 0.052 | 0.507  | 0.625  |
| Currently using a modern method                        | 0.497  | 0.036  | 603   | 218 | 1.760 | 0.072 | 0.425  | 0.569  |
| Currently using daily pill                             | 0.244  | 0.027  | 603   | 218 | 1.538 | 0.110 | 0.190  | 0.298  |
| Currently using male condoms                           | 0.013  | 0.005  | 603   | 218 | 0.988 | 0.349 | 0.004  | 0.022  |
| Currently using injectables                            | 0.156  | 0.027  | 603   | 218 | 1.851 | 0.176 | 0.101  | 0.211  |
| Used public sector source                              | 0.589  | 0.049  | 308   | 109 | 1.729 | 0.083 | 0.492  | 0.686  |
| Want no more children                                  | 0.515  | 0.025  | 603   | 218 | 1.246 | 0.049 | 0.465  | 0.566  |
| Want to delay next birth at least 2 years              | 0.240  | 0.017  | 603   | 218 | 0.991 | 0.072 | 0.205  | 0.274  |
| Mothers protected against tetanus for last birth       | 0.909  | 0.023  | 323   | 116 | 1.416 | 0.025 | 0.864  | 0.954  |
| Mothers received medical assistance at delivery        | 0.887  | 0.043  | 382   | 137 | 2.569 | 0.049 | 0.800  | 0.974  |
| Had diarrhea in the last 2 weeks                       | 0.102  | 0.030  | 375   | 134 | 1.803 | 0.297 | 0.041  | 0.162  |
| Treated with ORS packets or pre-packed liquid          | 0.226  | 0.073  | 35    | 14  | 1.050 | 0.322 | 0.080  | 0.371  |
| Consulted medical personnel for diarrhea               | 0.299  | 0.107  | 35    | 14  | 1.356 | 0.358 | 0.085  | 0.514  |
| Vaccination card seen                                  | 0.717  | 0.050  | 79    | 27  | 0.969 | 0.070 | 0.616  | 0.817  |
| Received BCG vaccination                               | 0.974  | 0.019  | 79    | 27  | 1.016 | 0.019 | 0.937  | 1.011  |
| Received DPT vaccination (3 doses)                     | 0.834  | 0.043  | 79    | 27  | 1.010 | 0.052 | 0.747  | 0.921  |
| Received polio vaccination (3 doses)                   | 0.818  | 0.047  | 79    | 27  | 1.053 | 0.057 | 0.724  | 0.912  |
| Received measles vaccination                           | 0.853  | 0.050  | 79    | 27  | 1.217 | 0.058 | 0.753  | 0.952  |
| Received all basic vaccinations                        | 0.750  | 0.058  | 79    | 27  | 1.159 | 0.077 | 0.634  | 0.865  |
| Height-for-age (-2SD)                                  | 0.363  | 0.041  | 227   | 78  | 1.330 | 0.114 | 0.280  | 0.445  |
| Weight-for-height (-2SD)                               | 0.151  | 0.025  | 227   | 78  | 1.056 | 0.168 | 0.100  | 0.202  |
| Weight-for-age (-2SD)                                  | 0.264  | 0.033  | 227   | 78  | 1.147 | 0.124 | 0.199  | 0.329  |
| Prevalence of anemia (children 6-59 months)            | 0.643  | 0.034  | 227   | 77  | 1.037 | 0.053 | 0.576  | 0.711  |
| Prevalence of anemia (women 15-49)                     | 0.483  | 0.019  | 535   | 189 | 0.856 | 0.039 | 0.446  | 0.520  |
| Body mass index (BMI) <18.5                            | 0.128  | 0.017  | 490   | 170 | 1.086 | 0.130 | 0.095  | 0.161  |
| Had an HIV test and received results in past 12 months | 0.091  | 0.016  | 823   | 294 | 1.606 | 0.177 | 0.059  | 0.124  |
| Accepting attitudes towards people with HIV            | 0.133  | 0.016  | 747   | 262 | 1.325 | 0.124 | 0.100  | 0.166  |
| Total fertility rate (last 3 years)                    | 3.028  | 0.253  | 2,341 | 838 | 1.278 | 0.084 | 2.522  | 3.535  |
| Neonatal mortality (last 0-9 years)                    | 16.804 | 4.467  | 774   | 283 | 0.963 | 0.266 | 7.869  | 25.739 |
| Postneonatal mortality (last 0-9 years)                | 15.408 | 6.199  | 775   | 284 | 1.180 | 0.402 | 3.010  | 27.806 |
| Infant mortality (last 0-9 years)                      | 32.212 | 6.949  | 774   | 283 | 0.883 | 0.216 | 18.315 | 46.109 |
| Child mortality (last 0-9 years)                       | 9.289  | 5.140  | 761   | 276 | 1.402 | 0.553 | 0.000  | 19.569 |
| Under-5 mortality (last 0-9 years)                     | 41.202 | 10.562 | 774   | 283 | 1.205 | 0.256 | 20.078 | 62.326 |
| MEN  |        |        |       |     |       |       |        |        |
| Urban residence  | 0.052  | 0.009  | 277   | 99  | 0.677 | 0.174 | 0.034  | 0.070  |
| No education   | 0.130  | 0.020  | 277   | 99  | 1.004 | 0.157 | 0.089  | 0.170  |
| Secondary or higher education                          | 0.400  | 0.041  | 277   | 99  | 1.388 | 0.102 | 0.318  | 0.482  |
| Never married (in union)                               | 0.316  | 0.030  | 277   | 99  | 1.073 | 0.095 | 0.256  | 0.376  |
| Currently married (in union)                           | 0.673  | 0.033  | 277   | 99  | 1.160 | 0.049 | 0.607  | 0.739  |
| Had first sexual intercourse before age 18             | 0.080  | 0.024  | 168   | 62  | 1.144 | 0.300 | 0.032  | 0.128  |
| Want no more children                                  | 0.537  | 0.043  | 182   | 67  | 1.155 | 0.080 | 0.452  | 0.623  |
| Want to delay birth at least 2 years                   | 0.299  | 0.037  | 182   | 67  | 1.097 | 0.125 | 0.225  | 0.374  |
| Had paid sex in past 12 months                         | 0.000  | 0.000  | 277   | 99  | na    | na    | 0.000  | 0.000  |
| Had HIV test and received results in past 12 months    | 0.053  | 0.024  | 277   | 99  | 1.766 | 0.453 | 0.005  | 0.100  |
| Accepting attitudes towards people with HIV            | 0.400  | 0.042  | 275   | 99  | 1.406 | 0.104 | 0.317  | 0.483  |

Table B.19 Sampling errors: Battambang and Pailin sample, Cambodia 2014

| Variable   | R      | SE     | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|--------|-------|-------|-------|-------|--------|--------|
| WOMEN  |        |        |       |       |       |       |        |        |
| Urban residence  | 0.160  | 0.023  | 867   | 1,333 | 1.820 | 0.142 | 0.115  | 0.205  |
| No schooling   | 0.100  | 0.017  | 867   | 1,333 | 1.686 | 0.172 | 0.065  | 0.134  |
| Secondary or higher education                          | 0.470  | 0.034  | 867   | 1,333 | 1.977 | 0.071 | 0.402  | 0.537  |
| Never married (never in union)                         | 0.280  | 0.019  | 867   | 1,333 | 1.218 | 0.066 | 0.243  | 0.317  |
| Currently married (in union)                           | 0.668  | 0.020  | 867   | 1,333 | 1.227 | 0.029 | 0.629  | 0.707  |
| Married before age 20                                  | 0.431  | 0.029  | 552   | 847   | 1.357 | 0.066 | 0.374  | 0.488  |
| Had first sexual intercourse before age 18             | 0.233  | 0.019  | 552   | 847   | 1.057 | 0.082 | 0.195  | 0.271  |
| Currently pregnant                                     | 0.055  | 0.007  | 867   | 1,333 | 0.950 | 0.133 | 0.041  | 0.070  |
| Children ever born                                     | 1.859  | 0.078  | 867   | 1,333 | 1.184 | 0.042 | 1.703  | 2.015  |
| Children surviving                                     | 1.728  | 0.071  | 867   | 1,333 | 1.215 | 0.041 | 1.586  | 1.871  |
| Children ever born to women age 40-49                  | 3.785  | 0.175  | 203   | 280   | 1.166 | 0.046 | 3.435  | 4.135  |
| Know any contraceptive method                          | 0.998  | 0.002  | 555   | 890   | 0.951 | 0.002 | 0.995  | 1.002  |
| Know any modern contraceptive method                   | 0.998  | 0.002  | 555   | 890   | 0.951 | 0.002 | 0.995  | 1.002  |
| Currently using any method                             | 0.583  | 0.018  | 555   | 890   | 0.874 | 0.031 | 0.546  | 0.619  |
| Currently using a modern method                        | 0.406  | 0.031  | 555   | 890   | 1.482 | 0.076 | 0.344  | 0.468  |
| Currently using daily pill                             | 0.192  | 0.026  | 555   | 890   | 1.566 | 0.137 | 0.140  | 0.245  |
| Currently using male condoms                           | 0.015  | 0.006  | 555   | 890   | 1.161 | 0.407 | 0.003  | 0.026  |
| Currently using injectables                            | 0.082  | 0.017  | 555   | 890   | 1.468 | 0.209 | 0.048  | 0.116  |
| Used public sector source                              | 0.481  | 0.048  | 231   | 369   | 1.451 | 0.100 | 0.385  | 0.577  |
| Want no more children                                  | 0.505  | 0.029  | 555   | 890   | 1.357 | 0.057 | 0.447  | 0.563  |
| Want to delay next birth at least 2 years              | 0.304  | 0.029  | 555   | 890   | 1.488 | 0.096 | 0.246  | 0.362  |
| Mothers protected against tetanus for last birth       | 0.797  | 0.033  | 272   | 460   | 1.372 | 0.041 | 0.732  | 0.862  |
| Mothers received medical assistance at delivery        | 0.941  | 0.013  | 329   | 553   | 0.970 | 0.014 | 0.914  | 0.967  |
| Had diarrhea in the last 2 weeks                       | 0.209  | 0.027  | 322   | 545   | 1.255 | 0.128 | 0.155  | 0.262  |
| Treated with ORS packets or pre-packed liquid          | 0.223  | 0.063  | 62    | 114   | 1.272 | 0.283 | 0.097  | 0.349  |
| Consulted medical personnel for diarrhea               | 0.483  | 0.080  | 62    | 114   | 1.335 | 0.167 | 0.322  | 0.643  |
| Vaccination card seen                                  | 0.812  | 0.039  | 63    | 120   | 0.876 | 0.049 | 0.734  | 0.891  |
| Received BCG vaccination                               | 0.995  | 0.005  | 63    | 120   | 0.620 | 0.005 | 0.985  | 1.005  |
| Received DPT vaccination (3 doses)                     | 0.954  | 0.023  | 63    | 120   | 0.939 | 0.024 | 0.909  | 1.000  |
| Received polio vaccination (3 doses)                   | 0.954  | 0.023  | 63    | 120   | 0.939 | 0.024 | 0.909  | 1.000  |
| Received measles vaccination                           | 0.896  | 0.043  | 63    | 120   | 1.227 | 0.048 | 0.810  | 0.983  |
| Received all basic vaccinations                        | 0.892  | 0.044  | 63    | 120   | 1.229 | 0.049 | 0.803  | 0.980  |
| Height-for-age (-2SD)                                  | 0.249  | 0.037  | 232   | 388   | 1.301 | 0.150 | 0.174  | 0.324  |
| Weight-for-height (-2SD)                               | 0.079  | 0.026  | 232   | 388   | 1.515 | 0.327 | 0.027  | 0.131  |
| Weight-for-age (-2SD)                                  | 0.182  | 0.038  | 232   | 388   | 1.549 | 0.209 | 0.106  | 0.257  |
| Prevalence of anemia (children 6-59 months)            | 0.490  | 0.059  | 210   | 344   | 1.815 | 0.121 | 0.371  | 0.609  |
| Prevalence of anemia (women 15-49)                     | 0.425  | 0.018  | 557   | 843   | 0.841 | 0.042 | 0.390  | 0.461  |
| Body mass index (BMI) <18.5                            | 0.119  | 0.017  | 531   | 800   | 1.216 | 0.145 | 0.085  | 0.154  |
| Had an HIV test and received results in past 12 months | 0.120  | 0.010  | 867   | 1,333 | 0.906 | 0.083 | 0.100  | 0.141  |
| Accepting attitudes towards people with HIV            | 0.480  | 0.044  | 861   | 1,323 | 2.582 | 0.092 | 0.392  | 0.568  |
| Total fertility rate (last 3 years)                    | 2.931  | 0.232  | 2,450 | 3,768 | 1.402 | 0.079 | 2.467  | 3.396  |
| Neonatal mortality (last 0-9 years)                    | 12.273 | 4.812  | 672   | 1,149 | 1.181 | 0.392 | 2.649  | 21.898 |
| Postneonatal mortality (last 0-9 years)                | 15.742 | 7.959  | 672   | 1,153 | 1.101 | 0.506 | 0.000  | 31.660 |
| Infant mortality (last 0-9 years)                      | 28.015 | 9.502  | 673   | 1,150 | 1.141 | 0.339 | 9.010  | 47.019 |
| Child mortality (last 0-9 years)                       | 9.246  | 4.226  | 650   | 1,093 | 1.104 | 0.457 | 0.793  | 17.699 |
| Under-5 mortality (last 0-9 years)                     | 37.002 | 10.954 | 674   | 1,151 | 1.139 | 0.296 | 15.094 | 58.911 |
| MEN  |        |        |       |       |       |       |        |        |
| Urban residence  | 0.125  | 0.026  | 249   | 405   | 1.259 | 0.212 | 0.072  | 0.178  |
| No education   | 0.023  | 0.012  | 249   | 405   | 1.203 | 0.494 | 0.000  | 0.047  |
| Secondary or higher education                          | 0.588  | 0.055  | 249   | 405   | 1.767 | 0.094 | 0.477  | 0.699  |
| Never married (in union)                               | 0.355  | 0.045  | 249   | 405   | 1.479 | 0.127 | 0.265  | 0.446  |
| Currently married (in union)                           | 0.611  | 0.050  | 249   | 405   | 1.613 | 0.082 | 0.511  | 0.711  |
| Had first sexual intercourse before age 18             | 0.081  | 0.039  | 165   | 256   | 1.799 | 0.476 | 0.004  | 0.158  |
| Want no more children                                  | 0.375  | 0.052  | 157   | 247   | 1.329 | 0.138 | 0.272  | 0.478  |
| Want to delay birth at least 2 years                   | 0.480  | 0.046  | 157   | 247   | 1.156 | 0.097 | 0.387  | 0.572  |
| Had paid sex in past 12 months                         | 0.004  | 0.003  | 249   | 405   | 0.807 | 0.776 | 0.000  | 0.011  |
| Had HIV test and received results in past 12 months    | 0.088  | 0.024  | 249   | 405   | 1.327 | 0.272 | 0.040  | 0.136  |
| Accepting attitudes towards people with HIV            | 0.657  | 0.049  | 247   | 403   | 1.629 | 0.075 | 0.558  | 0.756  |

Table B.20 Sampling errors: Kampot and Kep sample, Cambodia 2014

| Variable   | R      | SE    | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|-------|-------|-------|-------|-------|--------|--------|
| WOMEN  |        |       |       |       |       |       |        |        |
| Urban residence  | 0.089  | 0.008 | 880   | 770   | 0.837 | 0.090 | 0.073  | 0.105  |
| No schooling   | 0.085  | 0.016 | 880   | 770   | 1.692 | 0.187 | 0.053  | 0.117  |
| Secondary or higher education                          | 0.442  | 0.034 | 880   | 770   | 2.006 | 0.076 | 0.374  | 0.509  |
| Never married (never in union)                         | 0.197  | 0.016 | 880   | 770   | 1.161 | 0.079 | 0.166  | 0.228  |
| Currently married (in union)                           | 0.745  | 0.018 | 880   | 770   | 1.246 | 0.025 | 0.708  | 0.782  |
| Married before age 20                                  | 0.517  | 0.028 | 595   | 534   | 1.356 | 0.054 | 0.462  | 0.573  |
| Had first sexual intercourse before age 18             | 0.317  | 0.029 | 595   | 534   | 1.521 | 0.092 | 0.258  | 0.375  |
| Currently pregnant                                     | 0.049  | 0.007 | 880   | 770   | 0.949 | 0.141 | 0.035  | 0.063  |
| Children ever born                                     | 2.172  | 0.089 | 880   | 770   | 1.300 | 0.041 | 1.994  | 2.349  |
| Children surviving                                     | 1.959  | 0.077 | 880   | 770   | 1.296 | 0.039 | 1.805  | 2.113  |
| Children ever born to women age 40-49                  | 3.910  | 0.218 | 251   | 220   | 1.570 | 0.056 | 3.475  | 4.346  |
| Know any contraceptive method                          | 1.000  | 0.000 | 625   | 574   | na    | 0.000 | 1.000  | 1.000  |
| Know any modern contraceptive method                   | 1.000  | 0.000 | 625   | 574   | na    | 0.000 | 1.000  | 1.000  |
| Currently using any method                             | 0.538  | 0.024 | 625   | 574   | 1.202 | 0.045 | 0.490  | 0.586  |
| Currently using a modern method                        | 0.383  | 0.024 | 625   | 574   | 1.236 | 0.063 | 0.335  | 0.431  |
| Currently using daily pill                             | 0.163  | 0.019 | 625   | 574   | 1.262 | 0.115 | 0.126  | 0.200  |
| Currently using male condoms                           | 0.017  | 0.006 | 625   | 574   | 1.226 | 0.376 | 0.004  | 0.029  |
| Currently using injectables                            | 0.107  | 0.016 | 625   | 574   | 1.263 | 0.146 | 0.076  | 0.138  |
| Used public sector source                              | 0.508  | 0.049 | 226   | 219   | 1.468 | 0.097 | 0.410  | 0.606  |
| Want no more children                                  | 0.500  | 0.030 | 625   | 574   | 1.493 | 0.060 | 0.440  | 0.560  |
| Want to delay next birth at least 2 years              | 0.229  | 0.017 | 625   | 574   | 0.990 | 0.073 | 0.196  | 0.262  |
| Mothers protected against tetanus for last birth       | 0.867  | 0.032 | 252   | 236   | 1.525 | 0.037 | 0.803  | 0.932  |
| Mothers received medical assistance at delivery        | 0.905  | 0.032 | 294   | 276   | 1.778 | 0.036 | 0.840  | 0.970  |
| Had diarrhea in the last 2 weeks                       | 0.051  | 0.012 | 290   | 272   | 0.957 | 0.238 | 0.027  | 0.075  |
| Treated with ORS packets or pre-packed liquid          | 0.265  | 0.139 | 13    | 14    | 1.227 | 0.525 | 0.000  | 0.544  |
| Consulted medical personnel for diarrhea               | 0.759  | 0.107 | 13    | 14    | 0.978 | 0.141 | 0.545  | 0.974  |
| Vaccination card seen                                  | 0.707  | 0.093 | 58    | 54    | 1.556 | 0.131 | 0.522  | 0.892  |
| Received BCG vaccination                               | 0.940  | 0.032 | 58    | 54    | 1.036 | 0.034 | 0.876  | 1.004  |
| Received DPT vaccination (3 doses)                     | 0.800  | 0.058 | 58    | 54    | 1.116 | 0.073 | 0.683  | 0.917  |
| Received polio vaccination (3 doses)                   | 0.800  | 0.058 | 58    | 54    | 1.116 | 0.073 | 0.683  | 0.917  |
| Received measles vaccination                           | 0.811  | 0.058 | 58    | 54    | 1.141 | 0.072 | 0.694  | 0.928  |
| Received all basic vaccinations                        | 0.720  | 0.063 | 58    | 54    | 1.081 | 0.088 | 0.593  | 0.846  |
| Height-for-age (-2SD)                                  | 0.252  | 0.033 | 217   | 195   | 1.093 | 0.131 | 0.186  | 0.318  |
| Weight-for-height (-2SD)                               | 0.082  | 0.023 | 217   | 195   | 1.138 | 0.275 | 0.037  | 0.128  |
| Weight-for-age (-2SD)                                  | 0.211  | 0.032 | 217   | 195   | 1.147 | 0.153 | 0.146  | 0.276  |
| Prevalence of anemia (children 6-59 months)            | 0.573  | 0.040 | 194   | 177   | 1.153 | 0.069 | 0.494  | 0.653  |
| Prevalence of anemia (women 15-49)                     | 0.441  | 0.034 | 546   | 479   | 1.607 | 0.077 | 0.373  | 0.510  |
| Body mass index (BMI) <18.5                            | 0.170  | 0.020 | 518   | 455   | 1.191 | 0.116 | 0.130  | 0.209  |
| Had an HIV test and received results in past 12 months | 0.066  | 0.011 | 880   | 770   | 1.273 | 0.161 | 0.045  | 0.088  |
| Accepting attitudes towards people with HIV            | 0.468  | 0.026 | 878   | 768   | 1.558 | 0.056 | 0.415  | 0.520  |
| Total fertility rate (last 3 years)                    | 2.515  | 0.223 | 2,493 | 2,186 | 1.254 | 0.089 | 2.068  | 2.961  |
| Neonatal mortality (last 0-9 years)                    | 20.445 | 5.176 | 637   | 599   | 0.882 | 0.253 | 10.094 | 30.796 |
| Postneonatal mortality (last 0-9 years)                | 17.283 | 6.820 | 636   | 599   | 1.228 | 0.395 | 3.642  | 30.923 |
| Infant mortality (last 0-9 years)                      | 37.728 | 6.844 | 637   | 599   | 0.875 | 0.181 | 24.041 | 51.415 |
| Child mortality (last 0-9 years)                       | 6.005  | 3.289 | 648   | 610   | 1.090 | 0.548 | 0.000  | 12.582 |
| Under-5 mortality (last 0-9 years)                     | 43.506 | 8.671 | 638   | 600   | 1.003 | 0.199 | 26.164 | 60.848 |
| MEN  |        |       |       |       |       |       |        |        |
| Urban residence  | 0.088  | 0.015 | 284   | 241   | 0.891 | 0.170 | 0.058  | 0.118  |
| No education   | 0.061  | 0.023 | 284   | 241   | 1.643 | 0.384 | 0.014  | 0.108  |
| Secondary or higher education                          | 0.520  | 0.040 | 284   | 241   | 1.333 | 0.076 | 0.440  | 0.599  |
| Never married (in union)                               | 0.255  | 0.028 | 284   | 241   | 1.075 | 0.109 | 0.199  | 0.311  |
| Currently married (in union)                           | 0.717  | 0.029 | 284   | 241   | 1.091 | 0.041 | 0.659  | 0.775  |
| Had first sexual intercourse before age 18             | 0.137  | 0.032 | 188   | 163   | 1.256 | 0.231 | 0.073  | 0.200  |
| Want no more children                                  | 0.589  | 0.041 | 193   | 173   | 1.143 | 0.069 | 0.508  | 0.670  |
| Want to delay birth at least 2 years                   | 0.274  | 0.034 | 193   | 173   | 1.055 | 0.124 | 0.206  | 0.342  |
| Had paid sex in past 12 months                         | 0.024  | 0.009 | 284   | 241   | 0.947 | 0.363 | 0.006  | 0.041  |
| Had HIV test and received results in past 12 months    | 0.033  | 0.010 | 284   | 241   | 0.953 | 0.306 | 0.013  | 0.053  |
| Accepting attitudes towards people with HIV            | 0.319  | 0.039 | 276   | 235   | 1.377 | 0.121 | 0.242  | 0.397  |

Table B.21 Sampling errors: Preah Sihanouk and Koh Kong sample, Cambodia 2014

| Variable   | R      | SE    | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE  |
|--|--------|-------|-------|-------|-------|-------|--------|--------|
| WOMEN  |        |       |       |       |       |       |        |        |
| Urban residence  | 0.410  | 0.045 | 1,010 | 422   | 2.896 | 0.110 | 0.320  | 0.500  |
| No schooling   | 0.096  | 0.013 | 1,010 | 422   | 1.418 | 0.137 | 0.070  | 0.122  |
| Secondary or higher education                          | 0.420  | 0.030 | 1,010 | 422   | 1.915 | 0.071 | 0.360  | 0.479  |
| Never married (never in union)                         | 0.300  | 0.016 | 1,010 | 422   | 1.134 | 0.055 | 0.267  | 0.333  |
| Currently married (in union)                           | 0.629  | 0.019 | 1,010 | 422   | 1.245 | 0.030 | 0.592  | 0.667  |
| Married before age 20                                  | 0.493  | 0.017 | 631   | 261   | 0.861 | 0.035 | 0.458  | 0.527  |
| Had first sexual intercourse before age 18             | 0.240  | 0.015 | 631   | 261   | 0.892 | 0.063 | 0.210  | 0.270  |
| Currently pregnant                                     | 0.058  | 0.007 | 1,010 | 422   | 0.973 | 0.124 | 0.044  | 0.072  |
| Children ever born                                     | 1.820  | 0.053 | 1,010 | 422   | 0.829 | 0.029 | 1.715  | 1.926  |
| Children surviving                                     | 1.688  | 0.044 | 1,010 | 422   | 0.785 | 0.026 | 1.599  | 1.777  |
| Children ever born to women age 40-49                  | 4.121  | 0.176 | 204   | 83    | 1.088 | 0.043 | 3.769  | 4.474  |
| Know any contraceptive method                          | 0.998  | 0.002 | 636   | 266   | 1.007 | 0.002 | 0.995  | 1.002  |
| Know any modern contraceptive method                   | 0.998  | 0.002 | 636   | 266   | 1.007 | 0.002 | 0.995  | 1.002  |
| Currently using any method                             | 0.606  | 0.025 | 636   | 266   | 1.293 | 0.041 | 0.556  | 0.656  |
| Currently using a modern method                        | 0.415  | 0.023 | 636   | 266   | 1.179 | 0.056 | 0.369  | 0.461  |
| Currently using daily pill                             | 0.188  | 0.016 | 636   | 266   | 1.036 | 0.085 | 0.156  | 0.220  |
| Currently using male condoms                           | 0.020  | 0.006 | 636   | 266   | 1.088 | 0.306 | 0.008  | 0.031  |
| Currently using injectables                            | 0.065  | 0.013 | 636   | 266   | 1.288 | 0.194 | 0.040  | 0.090  |
| Used public sector source                              | 0.447  | 0.041 | 259   | 111   | 1.308 | 0.091 | 0.366  | 0.528  |
| Want no more children                                  | 0.513  | 0.019 | 636   | 266   | 0.960 | 0.037 | 0.475  | 0.552  |
| Want to delay next birth at least 2 years              | 0.279  | 0.014 | 636   | 266   | 0.769 | 0.049 | 0.252  | 0.307  |
| Mothers protected against tetanus for last birth       | 0.896  | 0.013 | 336   | 142   | 0.789 | 0.015 | 0.870  | 0.922  |
| Mothers received medical assistance at delivery        | 0.975  | 0.009 | 403   | 168   | 1.053 | 0.010 | 0.956  | 0.993  |
| Had diarrhea in the last 2 weeks                       | 0.170  | 0.021 | 393   | 164   | 1.006 | 0.121 | 0.129  | 0.211  |
| Treated with ORS packets or pre-packed liquid          | 0.479  | 0.073 | 64    | 28    | 1.166 | 0.152 | 0.333  | 0.624  |
| Consulted medical personnel for diarrhea               | 0.588  | 0.058 | 64    | 28    | 0.918 | 0.099 | 0.472  | 0.704  |
| Vaccination card seen                                  | 0.797  | 0.047 | 67    | 28    | 0.959 | 0.059 | 0.703  | 0.891  |
| Received BCG vaccination                               | 0.980  | 0.015 | 67    | 28    | 0.894 | 0.016 | 0.950  | 1.011  |
| Received DPT vaccination (3 doses)                     | 0.920  | 0.032 | 67    | 28    | 0.957 | 0.034 | 0.857  | 0.984  |
| Received polio vaccination (3 doses)                   | 0.899  | 0.037 | 67    | 28    | 0.998 | 0.041 | 0.826  | 0.972  |
| Received measles vaccination                           | 0.864  | 0.047 | 67    | 28    | 1.127 | 0.054 | 0.770  | 0.959  |
| Received all basic vaccinations                        | 0.826  | 0.049 | 67    | 28    | 1.069 | 0.060 | 0.727  | 0.924  |
| Height-for-age (-2SD)                                  | 0.334  | 0.023 | 261   | 105   | 0.755 | 0.068 | 0.289  | 0.379  |
| Weight-for-height (-2SD)                               | 0.105  | 0.019 | 261   | 105   | 1.023 | 0.180 | 0.067  | 0.142  |
| Weight-for-age (-2SD)                                  | 0.220  | 0.023 | 261   | 105   | 0.866 | 0.106 | 0.174  | 0.267  |
| Prevalence of anemia (children 6-59 months)            | 0.581  | 0.033 | 228   | 92    | 1.014 | 0.057 | 0.514  | 0.647  |
| Prevalence of anemia (women 15-49)                     | 0.437  | 0.030 | 635   | 267   | 1.542 | 0.069 | 0.376  | 0.498  |
| Body mass index (BMI) <18.5                            | 0.156  | 0.019 | 608   | 254   | 1.257 | 0.119 | 0.119  | 0.194  |
| Had an HIV test and received results in past 12 months | 0.163  | 0.015 | 1,010 | 422   | 1.291 | 0.092 | 0.133  | 0.193  |
| Accepting attitudes towards people with HIV            | 0.330  | 0.012 | 1,003 | 419   | 0.816 | 0.037 | 0.306  | 0.355  |
| Total fertility rate (last 3 years)                    | 2.719  | 0.164 | 2,865 | 1,197 | 0.857 | 0.060 | 2.390  | 3.048  |
| Neonatal mortality (last 0-9 years)                    | 19.753 | 7.113 | 809   | 340   | 1.207 | 0.360 | 5.527  | 33.979 |
| Postneonatal mortality (last 0-9 years)                | 15.245 | 4.207 | 815   | 341   | 0.829 | 0.276 | 6.832  | 23.658 |
| Infant mortality (last 0-9 years)                      | 34.998 | 7.449 | 812   | 340   | 0.955 | 0.213 | 20.099 | 49.896 |
| Child mortality (last 0-9 years)                       | 7.404  | 3.327 | 815   | 339   | 1.037 | 0.449 | 0.750  | 14.058 |
| Under-5 mortality (last 0-9 years)                     | 42.142 | 7.038 | 814   | 341   | 0.878 | 0.167 | 28.067 | 56.218 |
| MEN  |        |       |       |       |       |       |        |        |
| Urban residence  | 0.371  | 0.046 | 288   | 120   | 1.600 | 0.123 | 0.280  | 0.463  |
| No education   | 0.047  | 0.013 | 288   | 120   | 1.026 | 0.272 | 0.022  | 0.073  |
| Secondary or higher education                          | 0.582  | 0.059 | 288   | 120   | 2.023 | 0.102 | 0.463  | 0.700  |
| Never married (in union)                               | 0.353  | 0.036 | 288   | 120   | 1.280 | 0.102 | 0.281  | 0.425  |
| Currently married (in union)                           | 0.623  | 0.038 | 288   | 120   | 1.313 | 0.060 | 0.547  | 0.698  |
| Had first sexual intercourse before age 18             | 0.077  | 0.023 | 196   | 85    | 1.179 | 0.292 | 0.032  | 0.122  |
| Want no more children                                  | 0.441  | 0.044 | 174   | 75    | 1.177 | 0.101 | 0.352  | 0.529  |
| Want to delay birth at least 2 years                   | 0.366  | 0.041 | 174   | 75    | 1.111 | 0.111 | 0.285  | 0.448  |
| Had paid sex in past 12 months                         | 0.043  | 0.011 | 288   | 120   | 0.898 | 0.249 | 0.022  | 0.065  |
| Had HIV test and received results in past 12 months    | 0.139  | 0.023 | 288   | 120   | 1.149 | 0.169 | 0.092  | 0.186  |
| Accepting attitudes towards people with HIV            | 0.315  | 0.029 | 288   | 120   | 1.055 | 0.092 | 0.257  | 0.372  |

Table B.22 Sampling errors: Preah Vihear and Stung Treng sample, Cambodia 2014

| Variable   | R      | SE     | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE   |
|--|--------|--------|-------|-------|-------|-------|--------|---------|
| WOMEN  |        |        |       |       |       |       |        |         |
| Urban residence  | 0.092  | 0.012  | 1,085 | 462   | 1.409 | 0.134 | 0.068  | 0.117   |
| No schooling   | 0.237  | 0.035  | 1,085 | 462   | 2.695 | 0.147 | 0.167  | 0.307   |
| Secondary or higher education                          | 0.241  | 0.035  | 1,085 | 462   | 2.714 | 0.147 | 0.170  | 0.311   |
| Never married (never in union)                         | 0.234  | 0.020  | 1,085 | 462   | 1.571 | 0.086 | 0.194  | 0.274   |
| Currently married (in union)                           | 0.679  | 0.026  | 1,085 | 462   | 1.853 | 0.039 | 0.627  | 0.732   |
| Married before age 20                                  | 0.503  | 0.030  | 645   | 279   | 1.545 | 0.061 | 0.442  | 0.563   |
| Had first sexual intercourse before age 18             | 0.305  | 0.033  | 645   | 279   | 1.836 | 0.109 | 0.238  | 0.372   |
| Currently pregnant                                     | 0.095  | 0.012  | 1,085 | 462   | 1.377 | 0.129 | 0.070  | 0.119   |
| Children ever born                                     | 2.292  | 0.100  | 1,085 | 462   | 1.342 | 0.044 | 2.092  | 2.491   |
| Children surviving                                     | 1.981  | 0.090  | 1,085 | 462   | 1.483 | 0.046 | 1.800  | 2.162   |
| Children ever born to women age 40-49                  | 5.230  | 0.263  | 202   | 85    | 1.397 | 0.050 | 4.704  | 5.757   |
| Know any contraceptive method                          | 0.997  | 0.003  | 695   | 314   | 1.439 | 0.003 | 0.991  | 1.003   |
| Know any modern contraceptive method                   | 0.993  | 0.004  | 695   | 314   | 1.343 | 0.004 | 0.984  | 1.001   |
| Currently using any method                             | 0.420  | 0.021  | 695   | 314   | 1.147 | 0.051 | 0.377  | 0.463   |
| Currently using a modern method                        | 0.349  | 0.019  | 695   | 314   | 1.053 | 0.055 | 0.311  | 0.387   |
| Currently using daily pill                             | 0.178  | 0.018  | 695   | 314   | 1.254 | 0.102 | 0.141  | 0.214   |
| Currently using male condoms                           | 0.014  | 0.004  | 695   | 314   | 0.928 | 0.296 | 0.006  | 0.022   |
| Currently using injectables                            | 0.132  | 0.018  | 695   | 314   | 1.375 | 0.134 | 0.096  | 0.167   |
| Used public sector source                              | 0.622  | 0.038  | 238   | 109   | 1.214 | 0.062 | 0.546  | 0.699   |
| Want no more children                                  | 0.490  | 0.022  | 695   | 314   | 1.136 | 0.044 | 0.447  | 0.533   |
| Want to delay next birth at least 2 years              | 0.314  | 0.019  | 695   | 314   | 1.087 | 0.061 | 0.276  | 0.353   |
| Mothers protected against tetanus for last birth       | 0.888  | 0.031  | 402   | 188   | 1.998 | 0.035 | 0.826  | 0.950   |
| Mothers received medical assistance at delivery        | 0.546  | 0.077  | 510   | 239   | 2.961 | 0.140 | 0.393  | 0.699   |
| Had diarrhea in the last 2 weeks                       | 0.193  | 0.030  | 489   | 228   | 1.691 | 0.157 | 0.132  | 0.254   |
| Treated with ORS packets or pre-packed liquid          | 0.284  | 0.069  | 92    | 44    | 1.485 | 0.244 | 0.145  | 0.422   |
| Consulted medical personnel for diarrhea               | 0.603  | 0.063  | 92    | 44    | 1.226 | 0.104 | 0.478  | 0.728   |
| Vaccination card seen                                  | 0.746  | 0.051  | 104   | 44    | 1.165 | 0.069 | 0.643  | 0.848   |
| Received BCG vaccination                               | 0.919  | 0.027  | 104   | 44    | 0.963 | 0.029 | 0.865  | 0.972   |
| Received DPT vaccination (3 doses)                     | 0.793  | 0.050  | 104   | 44    | 1.228 | 0.063 | 0.692  | 0.893   |
| Received polio vaccination (3 doses)                   | 0.777  | 0.055  | 104   | 44    | 1.305 | 0.071 | 0.667  | 0.886   |
| Received measles vaccination                           | 0.628  | 0.065  | 104   | 44    | 1.325 | 0.103 | 0.499  | 0.757   |
| Received all basic vaccinations                        | 0.556  | 0.061  | 104   | 44    | 1.224 | 0.110 | 0.433  | 0.679   |
| Height-for-age (-2SD)                                  | 0.443  | 0.027  | 306   | 142   | 0.996 | 0.062 | 0.388  | 0.497   |
| Weight-for-height (-2SD)                               | 0.138  | 0.027  | 306   | 142   | 1.436 | 0.197 | 0.084  | 0.192   |
| Weight-for-age (-2SD)                                  | 0.307  | 0.036  | 306   | 142   | 1.413 | 0.118 | 0.235  | 0.380   |
| Prevalence of anemia (children 6-59 months)            | 0.688  | 0.035  | 275   | 128   | 1.209 | 0.051 | 0.619  | 0.758   |
| Prevalence of anemia (women 15-49)                     | 0.537  | 0.023  | 741   | 313   | 1.235 | 0.042 | 0.491  | 0.582   |
| Body mass index (BMI) <18.5                            | 0.164  | 0.015  | 678   | 282   | 1.007 | 0.088 | 0.135  | 0.193   |
| Had an HIV test and received results in past 12 months | 0.049  | 0.008  | 1,085 | 462   | 1.181 | 0.158 | 0.034  | 0.065   |
| Accepting attitudes towards people with HIV            | 0.116  | 0.015  | 1,025 | 428   | 1.455 | 0.126 | 0.087  | 0.145   |
| Total fertility rate (last 3 years)                    | 3.593  | 0.255  | 3,006 | 1,279 | 1.508 | 0.071 | 3.083  | 4.102   |
| Neonatal mortality (last 0-9 years)                    | 25.492 | 7.587  | 996   | 481   | 1.445 | 0.298 | 10.319 | 40.666  |
| Postneonatal mortality (last 0-9 years)                | 44.525 | 10.528 | 1,003 | 486   | 1.356 | 0.236 | 23.470 | 65.581  |
| Infant mortality (last 0-9 years)                      | 70.018 | 13.733 | 999   | 483   | 1.476 | 0.196 | 42.551 | 97.484  |
| Child mortality (last 0-9 years)                       | 9.450  | 3.186  | 965   | 472   | 1.048 | 0.337 | 3.078  | 15.821  |
| Under-5 mortality (last 0-9 years)                     | 78.806 | 11.805 | 1,002 | 485   | 1.239 | 0.150 | 55.195 | 102.416 |
| MEN  |        |        |       |       |       |       |        |         |
| Urban residence  | 0.085  | 0.011  | 274   | 112   | 0.678 | 0.135 | 0.062  | 0.108   |
| No education   | 0.117  | 0.037  | 274   | 112   | 1.893 | 0.317 | 0.043  | 0.190   |
| Secondary or higher education                          | 0.345  | 0.041  | 274   | 112   | 1.434 | 0.120 | 0.262  | 0.427   |
| Never married (in union)                               | 0.297  | 0.042  | 274   | 112   | 1.532 | 0.143 | 0.212  | 0.381   |
| Currently married (in union)                           | 0.684  | 0.043  | 274   | 112   | 1.534 | 0.063 | 0.598  | 0.771   |
| Had first sexual intercourse before age 18             | 0.069  | 0.030  | 152   | 65    | 1.444 | 0.434 | 0.009  | 0.129   |
| Want no more children                                  | 0.395  | 0.062  | 173   | 77    | 1.649 | 0.156 | 0.272  | 0.519   |
| Want to delay birth at least 2 years                   | 0.479  | 0.053  | 173   | 77    | 1.399 | 0.112 | 0.372  | 0.586   |
| Had paid sex in past 12 months                         | 0.018  | 0.008  | 274   | 112   | 1.010 | 0.451 | 0.002  | 0.034   |
| Had HIV test and received results in past 12 months    | 0.015  | 0.007  | 274   | 112   | 0.993 | 0.492 | 0.000  | 0.029   |
| Accepting attitudes towards people with HIV            | 0.528  | 0.041  | 237   | 93    | 1.266 | 0.078 | 0.446  | 0.611   |

Table B.23 Sampling errors: Mondul Kiri and Ratanak Kiri sample, Cambodia 2014

| Variable   | R      | SE     | N     | WN    | DEFT  | SE/R  | R-2SE  | R+2SE   |
|--|--------|--------|-------|-------|-------|-------|--------|---------|
| WOMEN  |        |        |       |       |       |       |        |         |
| Urban residence  | 0.120  | 0.036  | 964   | 372   | 3.436 | 0.302 | 0.047  | 0.192   |
| No schooling   | 0.345  | 0.051  | 964   | 372   | 3.300 | 0.147 | 0.244  | 0.447   |
| Secondary or higher education                          | 0.265  | 0.043  | 964   | 372   | 3.027 | 0.163 | 0.179  | 0.352   |
| Never married (never in union)                         | 0.175  | 0.020  | 964   | 372   | 1.618 | 0.113 | 0.136  | 0.215   |
| Currently married (in union)                           | 0.757  | 0.021  | 964   | 372   | 1.487 | 0.027 | 0.716  | 0.798   |
| Married before age 20                                  | 0.586  | 0.028  | 590   | 227   | 1.387 | 0.048 | 0.530  | 0.642   |
| Had first sexual intercourse before age 18             | 0.380  | 0.032  | 590   | 227   | 1.590 | 0.084 | 0.316  | 0.444   |
| Currently pregnant                                     | 0.069  | 0.013  | 964   | 372   | 1.544 | 0.183 | 0.044  | 0.094   |
| Children ever born                                     | 2.299  | 0.108  | 964   | 372   | 1.522 | 0.047 | 2.083  | 2.516   |
| Children surviving                                     | 2.038  | 0.089  | 964   | 372   | 1.453 | 0.043 | 1.861  | 2.215   |
| Children ever born to women age 40-49                  | 4.808  | 0.229  | 164   | 64    | 1.189 | 0.048 | 4.349  | 5.267   |
| Know any contraceptive method                          | 0.973  | 0.012  | 705   | 281   | 1.940 | 0.012 | 0.949  | 0.996   |
| Know any modern contraceptive method                   | 0.973  | 0.012  | 705   | 281   | 1.940 | 0.012 | 0.949  | 0.996   |
| Currently using any method                             | 0.500  | 0.032  | 705   | 281   | 1.676 | 0.063 | 0.437  | 0.563   |
| Currently using a modern method                        | 0.427  | 0.031  | 705   | 281   | 1.675 | 0.073 | 0.365  | 0.490   |
| Currently using daily pill                             | 0.185  | 0.022  | 705   | 281   | 1.482 | 0.117 | 0.142  | 0.229   |
| Currently using male condoms                           | 0.005  | 0.003  | 705   | 281   | 1.087 | 0.570 | 0.000  | 0.011   |
| Currently using injectables                            | 0.163  | 0.019  | 705   | 281   | 1.375 | 0.118 | 0.125  | 0.201   |
| Used public sector source                              | 0.555  | 0.066  | 297   | 120   | 2.252 | 0.118 | 0.424  | 0.686   |
| Want no more children                                  | 0.482  | 0.023  | 705   | 281   | 1.207 | 0.047 | 0.437  | 0.528   |
| Want to delay next birth at least 2 years              | 0.339  | 0.022  | 705   | 281   | 1.231 | 0.065 | 0.295  | 0.383   |
| Mothers protected against tetanus for last birth       | 0.718  | 0.043  | 421   | 169   | 1.962 | 0.059 | 0.633  | 0.803   |
| Mothers received medical assistance at delivery        | 0.536  | 0.072  | 538   | 217   | 2.747 | 0.135 | 0.391  | 0.680   |
| Had diarrhea in the last 2 weeks                       | 0.156  | 0.024  | 521   | 208   | 1.447 | 0.154 | 0.108  | 0.204   |
| Treated with ORS packets or pre-packed liquid          | 0.428  | 0.088  | 72    | 32    | 1.487 | 0.205 | 0.252  | 0.604   |
| Consulted medical personnel for diarrhea               | 0.533  | 0.081  | 72    | 32    | 1.391 | 0.153 | 0.370  | 0.696   |
| Vaccination card seen                                  | 0.411  | 0.071  | 99    | 35    | 1.365 | 0.173 | 0.269  | 0.553   |
| Received BCG vaccination                               | 0.814  | 0.041  | 99    | 35    | 1.007 | 0.051 | 0.732  | 0.897   |
| Received DPT vaccination (3 doses)                     | 0.559  | 0.063  | 99    | 35    | 1.200 | 0.113 | 0.433  | 0.686   |
| Received polio vaccination (3 doses)                   | 0.541  | 0.062  | 99    | 35    | 1.178 | 0.115 | 0.417  | 0.665   |
| Received measles vaccination                           | 0.561  | 0.075  | 99    | 35    | 1.421 | 0.133 | 0.411  | 0.710   |
| Received all basic vaccinations                        | 0.439  | 0.064  | 99    | 35    | 1.224 | 0.146 | 0.311  | 0.568   |
| Height-for-age (-2SD)                                  | 0.398  | 0.036  | 330   | 125   | 1.293 | 0.090 | 0.326  | 0.469   |
| Weight-for-height (-2SD)                               | 0.082  | 0.021  | 330   | 125   | 1.386 | 0.260 | 0.039  | 0.124   |
| Weight-for-age (-2SD)                                  | 0.262  | 0.047  | 330   | 125   | 1.820 | 0.179 | 0.168  | 0.355   |
| Prevalence of anemia (children 6-59 months)            | 0.577  | 0.043  | 306   | 117   | 1.508 | 0.075 | 0.491  | 0.663   |
| Prevalence of anemia (women 15-49)                     | 0.417  | 0.032  | 624   | 239   | 1.617 | 0.077 | 0.353  | 0.481   |
| Body mass index (BMI) <18.5                            | 0.104  | 0.016  | 578   | 219   | 1.212 | 0.149 | 0.073  | 0.136   |
| Had an HIV test and received results in past 12 months | 0.041  | 0.008  | 964   | 372   | 1.322 | 0.205 | 0.024  | 0.058   |
| Accepting attitudes towards people with HIV            | 0.056  | 0.015  | 754   | 278   | 1.786 | 0.267 | 0.026  | 0.086   |
| Total fertility rate (last 3 years)                    | 3.255  | 0.327  | 2,748 | 1,060 | 1.832 | 0.100 | 2.601  | 3.909   |
| Neonatal mortality (last 0-9 years)                    | 36.099 | 6.057  | 1,034 | 413   | 1.012 | 0.168 | 23.984 | 48.213  |
| Postneonatal mortality (last 0-9 years)                | 36.137 | 7.972  | 1,040 | 416   | 1.276 | 0.221 | 20.193 | 52.081  |
| Infant mortality (last 0-9 years)                      | 72.235 | 9.740  | 1,036 | 414   | 1.093 | 0.135 | 52.756 | 91.715  |
| Child mortality (last 0-9 years)                       | 8.904  | 3.785  | 1,032 | 416   | 1.238 | 0.425 | 1.334  | 16.473  |
| Under-5 mortality (last 0-9 years)                     | 80.496 | 10.279 | 1,038 | 415   | 1.070 | 0.128 | 59.938 | 101.053 |
| MEN  |        |        |       |       |       |       |        |         |
| Urban residence  | 0.097  | 0.026  | 350   | 134   | 1.624 | 0.266 | 0.045  | 0.148   |
| No education   | 0.164  | 0.029  | 350   | 134   | 1.463 | 0.177 | 0.106  | 0.222   |
| Secondary or higher education                          | 0.404  | 0.056  | 350   | 134   | 2.135 | 0.140 | 0.291  | 0.517   |
| Never married (in union)                               | 0.344  | 0.022  | 350   | 134   | 0.875 | 0.065 | 0.300  | 0.389   |
| Currently married (in union)                           | 0.650  | 0.022  | 350   | 134   | 0.854 | 0.034 | 0.606  | 0.693   |
| Had first sexual intercourse before age 18             | 0.133  | 0.028  | 207   | 79    | 1.183 | 0.211 | 0.077  | 0.188   |
| Want no more children                                  | 0.428  | 0.033  | 223   | 87    | 1.002 | 0.078 | 0.362  | 0.495   |
| Want to delay birth at least 2 years                   | 0.445  | 0.030  | 223   | 87    | 0.898 | 0.067 | 0.385  | 0.505   |
| Had paid sex in past 12 months                         | 0.007  | 0.005  | 350   | 134   | 1.065 | 0.668 | 0.000  | 0.017   |
| Had HIV test and received results in past 12 months    | 0.025  | 0.009  | 350   | 134   | 1.084 | 0.361 | 0.007  | 0.043   |
| Accepting attitudes towards people with HIV            | 0.059  | 0.021  | 313   | 114   | 1.599 | 0.364 | 0.016  | 0.101   |





# DATA QUALITY TABLES

## Appendix C

Table C.1 Household age distribution

Single-year age distribution of the de facto household population by sex (weighted), Cambodia 2014

| Age | Women  |         | Men    |         | Age                    | Women  |         | Men    |         |
|-----|--------|---------|--------|---------|------------------------|--------|---------|--------|---------|
|     | Number | Percent | Number | Percent |                        | Number | Percent | Number | Percent |
| 0   | 771    | 2.1     | 752    | 2.3     | 37                     | 326    | 0.9     | 274    | 0.8     |
| 1   | 777    | 2.1     | 811    | 2.5     | 38                     | 296    | 0.8     | 264    | 0.8     |
| 2   | 740    | 2.0     | 791    | 2.4     | 39                     | 374    | 1.0     | 324    | 1.0     |
| 3   | 762    | 2.1     | 799    | 2.4     | 40                     | 349    | 1.0     | 345    | 1.0     |
| 4   | 781    | 2.1     | 765    | 2.3     | 41                     | 389    | 1.1     | 338    | 1.0     |
| 5   | 747    | 2.1     | 769    | 2.3     | 42                     | 441    | 1.2     | 369    | 1.1     |
| 6   | 846    | 2.3     | 911    | 2.8     | 43                     | 366    | 1.0     | 323    | 1.0     |
| 7   | 901    | 2.5     | 907    | 2.7     | 44                     | 474    | 1.3     | 371    | 1.1     |
| 8   | 776    | 2.1     | 829    | 2.5     | 45                     | 406    | 1.1     | 371    | 1.1     |
| 9   | 794    | 2.2     | 839    | 2.5     | 46                     | 364    | 1.0     | 301    | 0.9     |
| 10  | 828    | 2.3     | 793    | 2.4     | 47                     | 367    | 1.0     | 315    | 1.0     |
| 11  | 754    | 2.1     | 735    | 2.2     | 48                     | 357    | 1.0     | 305    | 0.9     |
| 12  | 808    | 2.2     | 790    | 2.4     | 49                     | 389    | 1.1     | 313    | 0.9     |
| 13  | 800    | 2.2     | 798    | 2.4     | 50                     | 289    | 0.8     | 292    | 0.9     |
| 14  | 767    | 2.1     | 815    | 2.5     | 51                     | 418    | 1.1     | 333    | 1.0     |
| 15  | 628    | 1.7     | 701    | 2.1     | 52                     | 437    | 1.2     | 307    | 0.9     |
| 16  | 575    | 1.6     | 618    | 1.9     | 53                     | 384    | 1.1     | 279    | 0.8     |
| 17  | 580    | 1.6     | 580    | 1.8     | 54                     | 361    | 1.0     | 285    | 0.9     |
| 18  | 564    | 1.5     | 563    | 1.7     | 55                     | 381    | 1.0     | 249    | 0.8     |
| 19  | 545    | 1.5     | 591    | 1.8     | 56                     | 333    | 0.9     | 222    | 0.7     |
| 20  | 613    | 1.7     | 590    | 1.8     | 57                     | 313    | 0.9     | 212    | 0.6     |
| 21  | 632    | 1.7     | 570    | 1.7     | 58                     | 337    | 0.9     | 166    | 0.5     |
| 22  | 600    | 1.6     | 574    | 1.7     | 59                     | 249    | 0.7     | 144    | 0.4     |
| 23  | 575    | 1.6     | 530    | 1.6     | 60                     | 269    | 0.7     | 179    | 0.5     |
| 24  | 633    | 1.7     | 506    | 1.5     | 61                     | 248    | 0.7     | 142    | 0.4     |
| 25  | 561    | 1.5     | 554    | 1.7     | 62                     | 242    | 0.7     | 159    | 0.5     |
| 26  | 581    | 1.6     | 502    | 1.5     | 63                     | 227    | 0.6     | 161    | 0.5     |
| 27  | 576    | 1.6     | 536    | 1.6     | 64                     | 262    | 0.7     | 150    | 0.5     |
| 28  | 566    | 1.6     | 482    | 1.5     | 65                     | 250    | 0.7     | 139    | 0.4     |
| 29  | 540    | 1.5     | 528    | 1.6     | 66                     | 179    | 0.5     | 103    | 0.3     |
| 30  | 579    | 1.6     | 520    | 1.6     | 67                     | 158    | 0.4     | 159    | 0.5     |
| 31  | 598    | 1.6     | 537    | 1.6     | 68                     | 194    | 0.5     | 112    | 0.3     |
| 32  | 649    | 1.8     | 599    | 1.8     | 69                     | 129    | 0.4     | 89     | 0.3     |
| 33  | 579    | 1.6     | 502    | 1.5     | 70+                    | 1,405  | 3.9     | 971    | 2.9     |
| 34  | 601    | 1.7     | 541    | 1.6     | Don't know/<br>missing | 4      | 0.0     | 0      | 0.0     |
| 35  | 518    | 1.4     | 439    | 1.3     | Total                  | 36,405 | 100.0   | 33,066 | 100.0   |
| 36  | 291    | 0.8     | 332    | 1.0     |                        |        |         |        |         |



**Table C.2.1 Age distribution of eligible and interviewed women**

De facto household population of women age 10-54, interviewed women age 15-49; and percent distribution and percentage of eligible women who were interviewed (weighted), by five-year age groups, Cambodia 2014

| Age group | Household population of women age 10-54 | Interviewed women age 15-49 |            | Percentage of eligible women interviewed |
|-----------|---|-----------------------------|------------|--|
|           |   | Number                      | Percentage |  |
| 10-14     | 3,957                                   | na                          | na         | na                                       |
| 15-19     | 2,891                                   | 2,794                       | 16.4       | 96.6                                     |
| 20-24     | 3,054                                   | 2,943                       | 17.3       | 96.4                                     |
| 25-29     | 2,825                                   | 2,747                       | 16.1       | 97.2                                     |
| 30-34     | 3,005                                   | 2,944                       | 17.3       | 97.9                                     |
| 35-39     | 1,806                                   | 1,779                       | 10.4       | 98.5                                     |
| 40-44     | 2,019                                   | 1,985                       | 11.6       | 98.3                                     |
| 45-49     | 1,883                                   | 1,849                       | 10.9       | 98.2                                     |
| 50-54     | 1,889                                   | na                          | na         | na                                       |
| 15-49     | 17,484                                  | 17,041                      | 100.0      | 97.5                                     |

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview. Weights for both household population of women and interviewed women are household weights. Age is based on the household questionnaire. na = Not applicable

**Table C.2.2 Age distribution of eligible and interviewed men**

De facto household population of men age 10-54, interviewed men age 15-49 and percent of eligible men who were interviewed (weighted), by five-year age groups, Cambodia 2014

| Age group | Household population of men age 10-54 | Interviewed men age 15-49 |            | Percentage of eligible men interviewed |
|-----------|---------------------------------------|---------------------------|------------|--|
|           |                                       | Number                    | Percentage |  |
| 10-14     | 1,391                                 | na                        | na         | na                                     |
| 15-19     | 963                                   | 911                       | 18.0       | 94.6                                   |
| 20-24     | 873                                   | 804                       | 15.9       | 92.1                                   |
| 25-29     | 867                                   | 798                       | 15.8       | 92.0                                   |
| 30-34     | 942                                   | 883                       | 17.4       | 93.7                                   |
| 35-39     | 572                                   | 548                       | 10.8       | 95.8                                   |
| 40-44     | 596                                   | 571                       | 11.3       | 95.8                                   |
| 45-49     | 575                                   | 548                       | 10.8       | 95.4                                   |
| 50-54     | 518                                   | na                        | na         | na                                     |
| 15-49     | 5,389                                 | 5,064                     | 100.0      | 94.0                                   |

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview. Weights for both household population of men and interviewed men are household weights. Age is based on the household questionnaire. na = Not applicable

**Table C.3 Completeness of reporting**

Percentage of observations missing information for selected demographic and health questions (weighted), Cambodia 2014

| Subject   | Percentage with information missing | Number of cases |
|---|-------------------------------------|-----------------|
| Month only (births in the 15 years preceding the survey)                            | 0.11                                | 21,687          |
| Month and year (births in the 15 years preceding the survey)                        | 0.00                                | 21,687          |
| Age at death (deceased children born in the 15 years preceding the survey)          | 0.07                                | 1,217           |
| Age/date at first union <sup>1</sup> (ever married women age 15-49)                 | 0.07                                | 13,150          |
| Age/date at first union <sup>1</sup> (ever married men age 15-49)                   | 0.00                                | 3,527           |
| Respondent's education (all women age 15-49)  | 0.00                                | 17,578          |
| Respondent's education (all men age 15-49)  | 0.00                                | 5,190           |
| Diarrhea in last 2 weeks (living children age 0-59 months)                          | 0.48                                | 7,044           |
| Height (living children age 0-59 months from the Household Questionnaire)           | 2.09                                | 5,092           |
| Weight (living children age 0-59 months from the Household Questionnaire)           | 1.63                                | 5,092           |
| Height or weight (living children age 0-59 months from the Household Questionnaire) | 2.09                                | 5,092           |
| Height (women age 15-49 from the Household Questionnaire)                           | 2.36                                | 11,362          |
| Weight (women age 15-49 from the Household Questionnaire)                           | 2.35                                | 11,362          |
| Height or weight (women age 15-49 from the Household Questionnaire)                 | 2.39                                | 11,362          |
| Anemia (living children age 6-59 months from the Household Questionnaire)           | 3.45                                | 4,615           |
| Anemia (all women from the Household Questionnaire)                                 | 3.29                                | 11,362          |

<sup>1</sup> Both year and age missing

Table C.4 Births by calendar years

Number of births, percentage with complete birth date, sex ratio at birth, and calendar year ratio by calendar year, according to living, dead, and total children (weighted), Cambodia 2014

| Calendar year | Number of births |       |        | Percentage with complete birth date <sup>1</sup> |       |       | Sex ratio at birth <sup>2</sup> |       |       | Calendar year ratio <sup>3</sup> |       |       |
|---------------|------------------|-------|--------|--|-------|-------|---------------------------------|-------|-------|----------------------------------|-------|-------|
|               | Living           | Dead  | Total  | Living   | Dead  | Total | Living                          | Dead  | Total | Living                           | Dead  | Total |
| 2014          | 972              | 16    | 988    | 100.0  | 100.0 | 100.0 | 90.3                            | 83.6  | 90.2  | na                               | na    | na    |
| 2013          | 1,461            | 44    | 1,505  | 100.0  | 100.0 | 100.0 | 110.9                           | 160.6 | 112.1 | 120.0                            | 159.6 | 120.9 |
| 2012          | 1,464            | 39    | 1,502  | 100.0  | 100.0 | 100.0 | 100.7                           | 139.8 | 101.5 | 106.4                            | 97.5  | 106.1 |
| 2011          | 1,290            | 36    | 1,326  | 100.0  | 100.0 | 100.0 | 96.1                            | 95.5  | 96.1  | 90.6                             | 78.9  | 90.3  |
| 2010          | 1,384            | 52    | 1,436  | 100.0  | 100.0 | 100.0 | 108.1                           | 123.6 | 108.6 | 105.2                            | 89.3  | 104.5 |
| 2009          | 1,342            | 81    | 1,422  | 100.0  | 100.0 | 100.0 | 93.2                            | 105.0 | 93.9  | 92.8                             | 110.7 | 93.6  |
| 2008          | 1,509            | 94    | 1,602  | 99.7   | 98.8  | 99.7  | 108.2                           | 230.4 | 112.8 | 103.9                            | 111.4 | 104.4 |
| 2007          | 1,561            | 87    | 1,649  | 99.9   | 97.4  | 99.8  | 97.3                            | 148.7 | 99.4  | 109.5                            | 106.1 | 109.3 |
| 2006          | 1,344            | 71    | 1,415  | 99.9   | 99.6  | 99.8  | 106.2                           | 134.6 | 107.5 | 89.8                             | 69.9  | 88.5  |
| 0-4           | 5,187            | 134   | 5,321  | 100.0  | 100.0 | 100.0 | 100.2                           | 123.9 | 100.8 | na                               | na    | na    |
| 5-9           | 7,140            | 384   | 7,525  | 99.9   | 99.0  | 99.9  | 102.4                           | 146.1 | 104.3 | na                               | na    | na    |
| 10-14         | 6,442            | 493   | 6,935  | 99.9   | 99.8  | 99.9  | 104.6                           | 105.7 | 104.7 | na                               | na    | na    |
| 15-19         | 5,738            | 727   | 6,465  | 99.9   | 98.4  | 99.7  | 105.6                           | 132.0 | 108.2 | na                               | na    | na    |
| 20+           | 6,688            | 1,052 | 7,740  | 99.8   | 98.3  | 99.6  | 99.0                            | 119.8 | 101.6 | na                               | na    | na    |
| All           | 31,196           | 2,790 | 33,986 | 99.9   | 98.8  | 99.8  | 102.3                           | 123.6 | 103.9 | na                               | na    | na    |

na = Not applicable

<sup>1</sup> Both year and month of birth given

<sup>2</sup>  $(B_m/B_f) \times 100$ , where  $B_m$  and  $B_f$  are the numbers of male and female births, respectively

<sup>3</sup>  $[2B_x / (B_{x-1} + B_{x+1})] \times 100$ , where  $B_x$  is the number of births in calendar year x

Table C.5 Reporting of age at death in days

Distribution of reported deaths under 1 month of age by age at death in days and the percentage of neonatal deaths at ages 0-6 days, for five-year periods of birth preceding the survey (weighted), Cambodia 2014

| Age at death (days)                             | Number of years preceding the survey |      |       |       | Total 0-19 |
|---|--------------------------------------|------|-------|-------|------------|
|   | 0-4                                  | 5-9  | 10-14 | 15-19 |            |
| <1  | 40                                   | 73   | 56    | 51    | 220        |
| 1   | 35                                   | 30   | 30    | 19    | 114        |
| 2   | 14                                   | 11   | 5     | 7     | 37         |
| 3   | 5                                    | 16   | 20    | 18    | 60         |
| 4   | 1                                    | 3    | 8     | 2     | 15         |
| 5   | 0                                    | 3    | 3     | 5     | 10         |
| 6   | 6                                    | 4    | 5     | 4     | 19         |
| 7   | 11                                   | 19   | 16    | 23    | 69         |
| 8   | 1                                    | 1    | 0     | 5     | 7          |
| 9   | 0                                    | 0    | 2     | 2     | 4          |
| 10  | 5                                    | 2    | 3     | 5     | 15         |
| 11  | 1                                    | 0    | 0     | 0     | 1          |
| 12  | 0                                    | 4    | 0     | 0     | 5          |
| 13  | 0                                    | 0    | 0     | 0     | 0          |
| 14  | 0                                    | 5    | 1     | 3     | 10         |
| 15  | 2                                    | 6    | 9     | 9     | 27         |
| 16  | 0                                    | 0    | 0     | 2     | 2          |
| 17  | 0                                    | 0    | 0     | 3     | 3          |
| 18  | 0                                    | 1    | 1     | 2     | 3          |
| 20  | 2                                    | 2    | 3     | 5     | 12         |
| 21  | 0                                    | 1    | 0     | 1     | 2          |
| 23  | 0                                    | 0    | 2     | 0     | 2          |
| 25  | 0                                    | 1    | 2     | 0     | 3          |
| 27  | 0                                    | 0    | 0     | 3     | 3          |
| 28  | 0                                    | 1    | 0     | 1     | 1          |
| 29  | 0                                    | 0    | 0     | 1     | 1          |
| 30  | 0                                    | 0    | 2     | 0     | 2          |
| Total 0-30                                      | 123                                  | 184  | 168   | 171   | 646        |
| Percentage of early neonatal death <sup>1</sup> | 81.7                                 | 76.0 | 75.5  | 62.8  | 73.5       |

<sup>1</sup> 0-6 days/0-30 days

Table C.6 Reporting of age at death in months

Distribution of reported deaths under age 2 by age at death in months and the percentage of infant deaths under age of 1 month, for five-year periods of birth preceding the survey, Cambodia 2014

| Age at death<br>(months)                     | Number of years preceding the survey |      |       |       | Total<br>0-19 |
|--|--------------------------------------|------|-------|-------|---------------|
|  | 0-4                                  | 5-9  | 10-14 | 15-19 |               |
| <1 <sup>a</sup>                              | 123                                  | 184  | 168   | 171   | 646           |
| 1  | 22                                   | 52   | 66    | 82    | 221           |
| 2  | 16                                   | 36   | 40    | 68    | 160           |
| 3  | 5                                    | 38   | 48    | 58    | 148           |
| 4  | 3                                    | 16   | 21    | 28    | 67            |
| 5  | 4                                    | 9    | 17    | 18    | 48            |
| 6  | 5                                    | 7    | 16    | 27    | 54            |
| 7  | 0                                    | 6    | 19    | 14    | 39            |
| 8  | 2                                    | 5    | 12    | 21    | 40            |
| 9  | 1                                    | 7    | 5     | 11    | 24            |
| 10   | 2                                    | 5    | 6     | 7     | 20            |
| 11   | 2                                    | 2    | 4     | 3     | 11            |
| 12   | 4                                    | 9    | 12    | 15    | 40            |
| 13   | 0                                    | 1    | 4     | 3     | 7             |
| 14   | 2                                    | 0    | 4     | 1     | 7             |
| 15   | 0                                    | 4    | 1     | 0     | 5             |
| 16   | 2                                    | 2    | 1     | 2     | 7             |
| 17   | 0                                    | 0    | 0     | 2     | 2             |
| 18   | 0                                    | 6    | 2     | 3     | 11            |
| 19   | 0                                    | 2    | 0     | 1     | 3             |
| 20   | 1                                    | 2    | 0     | 3     | 5             |
| 22   | 0                                    | 0    | 0     | 1     | 1             |
| 24+  | 0                                    | 0    | 0     | 1     | 1             |
| 1 Year                                       | 2                                    | 10   | 4     | 5     | 21            |
| Total 0-11                                   | 185                                  | 366  | 421   | 507   | 1,479         |
| Percentage of<br>neonatal death <sup>1</sup> | 66.5                                 | 50.3 | 40.1  | 33.7  | 43.7          |

<sup>a</sup> Includes deaths under one month reported in days

<sup>1</sup> Under one month/under one year

Table C.7 Nutritional status of children based on the NCHS/CDC/WHO International Reference Population

Percentage of children under age 5 classified as malnourished according to three anthropometric indices of nutritional status: height-for-age, weight-for-height, and weight-for-age, by background characteristics, based on the NCHS/CDC/WHO International Reference Population, Cambodia 2014

| Background characteristic                             | Height-for-age <sup>1</sup> |                                     |                   | Weight-for-height      |                                     |                        |                   | Weight-for-age         |                                     |                        |                   | Number of children |
|---|-----------------------------|-------------------------------------|-------------------|------------------------|-------------------------------------|------------------------|-------------------|------------------------|-------------------------------------|------------------------|-------------------|--------------------|
|   | Percentage below -3 SD      | Percentage below -2 SD <sup>2</sup> | Mean Z-score (SD) | Percentage below -3 SD | Percentage below -2 SD <sup>2</sup> | Percentage above +2 SD | Mean Z-score (SD) | Percentage below -3 SD | Percentage below -2 SD <sup>2</sup> | Percentage above +2 SD | Mean Z-score (SD) |                    |
| <b>Age in months</b>                                  |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| <6  | 0.6                         | 7.3                                 | (0.2)             | 1.4                    | 7.1                                 | 6.3                    | 0.0               | 0.5                    | 2.6                                 | 3.0                    | (0.0)             | 420                |
| 6-8   | 0.2                         | 7.5                                 | (0.6)             | 1.4                    | 2.1                                 | 4.9                    | (0.1)             | 0.0                    | 6.2                                 | 2.2                    | (0.6)             | 250                |
| 9-11  | 2.5                         | 14.0                                | (0.9)             | 0.6                    | 10.4                                | 2.4                    | (0.7)             | 3.3                    | 23.5                                | 0.5                    | (1.3)             | 222                |
| 12-17   | 5.7                         | 29.6                                | (1.4)             | 2.3                    | 11.1                                | 3.2                    | (0.8)             | 5.4                    | 35.1                                | 0.7                    | (1.5)             | 516                |
| 18-23   | 9.9                         | 34.0                                | (1.5)             | 2.0                    | 16.0                                | 0.4                    | (1.0)             | 6.0                    | 32.0                                | 0.0                    | (1.6)             | 543                |
| 24-35   | 6.9                         | 24.1                                | (1.2)             | 1.2                    | 8.3                                 | 1.0                    | (0.9)             | 5.4                    | 36.1                                | 0.9                    | (1.5)             | 1,013              |
| 36-47   | 7.9                         | 32.5                                | (1.5)             | 1.1                    | 8.6                                 | 0.5                    | (0.9)             | 6.5                    | 37.1                                | 0.3                    | (1.7)             | 979                |
| 48-59   | 8.6                         | 33.6                                | (1.6)             | 0.6                    | 7.4                                 | 0.4                    | (0.9)             | 4.6                    | 34.2                                | 0.3                    | (1.6)             | 939                |
| <b>Sex</b>  |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| Male  | 6.4                         | 26.2                                | (1.3)             | 1.6                    | 8.9                                 | 1.8                    | (0.8)             | 4.2                    | 28.8                                | 0.8                    | (1.4)             | 2,492              |
| Female  | 6.7                         | 27.0                                | (1.3)             | 0.9                    | 9.2                                 | 1.6                    | (0.8)             | 5.3                    | 32.0                                | 0.8                    | (1.4)             | 2,392              |
| <b>Birth interval in months<sup>3</sup></b>           |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| First birth <sup>4</sup>                              | 5.6                         | 24.8                                | (1.3)             | 1.2                    | 8.6                                 | 1.8                    | (0.8)             | 3.2                    | 30.5                                | 0.7                    | (1.4)             | 1,672              |
| <24   | 9.0                         | 34.6                                | (1.4)             | 1.9                    | 8.7                                 | 2.1                    | (0.9)             | 8.8                    | 39.1                                | 1.0                    | (1.6)             | 337                |
| 24-47   | 7.3                         | 28.8                                | (1.3)             | 1.1                    | 9.0                                 | 1.7                    | (0.8)             | 6.5                    | 32.0                                | 1.0                    | (1.4)             | 1,103              |
| 48+   | 5.7                         | 23.5                                | (1.2)             | 1.7                    | 9.7                                 | 1.5                    | (0.8)             | 3.9                    | 27.6                                | 0.7                    | (1.4)             | 1,138              |
| <b>Size at birth<sup>3</sup></b>                      |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| Very small  | 15.0                        | 58.8                                | (2.0)             | 2.2                    | 23.8                                | 4.1                    | (1.0)             | 17.5                   | 58.1                                | 2.6                    | (2.0)             | 94                 |
| Small   | 11.5                        | 33.0                                | (1.6)             | 1.1                    | 13.8                                | 0.7                    | (1.0)             | 7.4                    | 44.2                                | 0.0                    | (1.7)             | 367                |
| Average or larger                                     | 5.6                         | 24.7                                | (1.2)             | 1.4                    | 8.1                                 | 1.8                    | (0.8)             | 4.1                    | 28.8                                | 0.8                    | (1.4)             | 3,763              |
| <b>Mother's interview status</b>                      |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| Interviewed   | 6.3                         | 26.3                                | (1.3)             | 1.4                    | 9.0                                 | 1.7                    | (0.8)             | 4.7                    | 30.8                                | 0.8                    | (1.4)             | 4,250              |
| Not interviewed but in household                      | 3.7                         | 31.7                                | (1.2)             | 0.0                    | 11.9                                | 6.6                    | (0.6)             | 3.6                    | 27.0                                | 3.3                    | (1.2)             | 108                |
| Not interviewed and not in the household <sup>5</sup> | 8.8                         | 27.6                                | (1.3)             | 0.8                    | 8.1                                 | 0.2                    | (0.8)             | 5.3                    | 27.4                                | 0.2                    | (1.4)             | 525                |
| <b>Mother's nutritional status<sup>6</sup></b>        |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| Thin (BMI <18.5)                                      | 9.1                         | 39.6                                | (1.7)             | 1.5                    | 16.0                                | 0.7                    | (1.1)             | 11.7                   | 49.2                                | 0.4                    | (1.9)             | 462                |
| Normal (BMI 18.5-24.9)                                | 6.5                         | 26.0                                | (1.3)             | 1.4                    | 8.2                                 | 2.1                    | (0.8)             | 4.0                    | 30.8                                | 0.8                    | (1.4)             | 2,722              |
| Overweight/obese (BMI ≥25)                            | 4.6                         | 20.8                                | (1.1)             | 1.2                    | 6.5                                 | 1.5                    | (0.7)             | 2.5                    | 21.8                                | 1.0                    | (1.3)             | 672                |
| <b>Residence</b>                                      |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| Urban   | 3.6                         | 19.6                                | (0.9)             | 0.8                    | 6.7                                 | 2.3                    | (0.6)             | 2.9                    | 20.5                                | 2.2                    | (1.1)             | 671                |
| Rural   | 7.0                         | 27.7                                | (1.3)             | 1.3                    | 9.4                                 | 1.6                    | (0.8)             | 5.1                    | 31.9                                | 0.6                    | (1.5)             | 4,213              |
| <b>Province</b>                                       |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| Banteay Meanchey                                      | 5.2                         | 21.9                                | (1.2)             | 0.6                    | 8.2                                 | 0.0                    | (0.7)             | 4.7                    | 23.0                                | 0.0                    | (1.3)             | 241                |
| Kampong Cham  | 6.1                         | 27.5                                | (1.3)             | 0.8                    | 8.7                                 | 2.1                    | (0.8)             | 3.9                    | 30.5                                | 0.8                    | (1.4)             | 686                |
| Kampong Chhnang                                       | 9.6                         | 35.7                                | (1.5)             | 2.4                    | 10.9                                | 0.7                    | (0.9)             | 4.7                    | 43.4                                | 0.0                    | (1.7)             | 172                |
| Kampong Speu  | 7.4                         | 34.1                                | (1.6)             | 1.9                    | 10.0                                | 0.9                    | (0.9)             | 7.2                    | 38.9                                | 0.0                    | (1.7)             | 317                |
| Kampong Thom  | 7.0                         | 32.2                                | (1.2)             | 1.7                    | 11.6                                | 2.9                    | (0.9)             | 8.5                    | 34.5                                | 1.4                    | (1.4)             | 214                |
| Kandal  | 2.7                         | 19.6                                | (1.2)             | 2.4                    | 11.1                                | 1.2                    | (0.9)             | 3.9                    | 36.1                                | 0.5                    | (1.5)             | 299                |
| Kratie  | 7.8                         | 28.6                                | (1.4)             | 1.0                    | 8.0                                 | 0.0                    | (0.9)             | 5.1                    | 31.3                                | 0.0                    | (1.5)             | 180                |
| Phnom Penh  | 2.7                         | 14.0                                | (0.8)             | 0.3                    | 6.3                                 | 3.4                    | (0.5)             | 3.5                    | 19.8                                | 3.9                    | (0.9)             | 391                |
| Prey Veng   | 5.7                         | 26.6                                | (1.3)             | 0.6                    | 6.2                                 | 1.2                    | (0.7)             | 3.7                    | 26.0                                | 0.8                    | (1.4)             | 381                |
| Pursat  | 13.9                        | 33.8                                | (1.6)             | 2.7                    | 10.0                                | 4.3                    | (0.7)             | 8.1                    | 39.8                                | 0.7                    | (1.5)             | 200                |
| Siem Reap   | 10.6                        | 29.3                                | (1.4)             | 1.6                    | 9.1                                 | 1.1                    | (0.8)             | 6.7                    | 34.1                                | 0.4                    | (1.5)             | 325                |
| Svay Rieng  | 5.7                         | 25.6                                | (1.3)             | 2.7                    | 8.1                                 | 2.6                    | (0.8)             | 5.0                    | 28.9                                | 0.5                    | (1.4)             | 190                |
| Takeo   | 5.2                         | 23.2                                | (1.1)             | 3.3                    | 17.2                                | 1.0                    | (0.9)             | 2.7                    | 28.8                                | 0.5                    | (1.4)             | 261                |
| Oldar Meanchey  | 11.0                        | 35.1                                | (1.4)             | 2.6                    | 11.8                                | 4.6                    | (0.7)             | 6.8                    | 34.2                                | 0.0                    | (1.4)             | 76                 |
| Battambang/Pailin                                     | 3.3                         | 20.7                                | (1.1)             | 0.3                    | 5.6                                 | 0.7                    | (0.7)             | 2.1                    | 24.9                                | 0.5                    | (1.3)             | 389                |
| Kampot/Kep  | 5.7                         | 23.0                                | (1.2)             | 0.2                    | 7.3                                 | 2.5                    | (0.8)             | 2.3                    | 24.9                                | 1.0                    | (1.4)             | 193                |
| Preah Sihanouk/<br>Koh Kong                           | 6.1                         | 28.4                                | (1.3)             | 0.3                    | 8.9                                 | 0.9                    | (0.6)             | 4.8                    | 25.3                                | 0.0                    | (1.3)             | 104                |
| Preah Vihear/<br>Stung Treng                          | 10.7                        | 39.2                                | (1.6)             | 0.2                    | 12.4                                | 1.9                    | (0.8)             | 8.2                    | 35.3                                | 0.4                    | (1.6)             | 141                |
| Mondul Kiri/<br>Ratanak Kiri                          | 12.4                        | 34.2                                | (1.5)             | 0.3                    | 5.9                                 | 0.6                    | (0.7)             | 6.6                    | 31.9                                | 0.3                    | (1.5)             | 125                |
| <b>Mother's education</b>                             |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| No education  | 10.3                        | 31.8                                | (1.5)             | 2.1                    | 11.7                                | 1.6                    | (0.8)             | 7.7                    | 34.9                                | 1.0                    | (1.5)             | 583                |
| Primary   | 6.5                         | 28.5                                | (1.3)             | 1.2                    | 8.6                                 | 1.7                    | (0.8)             | 5.0                    | 31.8                                | 0.5                    | (1.5)             | 2,386              |
| Secondary and higher                                  | 4.4                         | 21.3                                | (1.1)             | 1.4                    | 9.0                                 | 1.8                    | (0.8)             | 3.1                    | 28.6                                | 0.9                    | (1.3)             | 1,275              |
| <b>Wealth quintile</b>                                |                             |                                     |                   |                        |                                     |                        |                   |                        |                                     |                        |                   |                    |
| Lowest  | 11.2                        | 34.7                                | (1.6)             | 1.3                    | 10.9                                | 0.9                    | (0.9)             | 7.4                    | 38.8                                | 0.2                    | (1.7)             | 1,179              |
| Second  | 6.7                         | 30.8                                | (1.5)             | 1.5                    | 9.9                                 | 1.4                    | (0.8)             | 6.1                    | 33.3                                | 0.5                    | (1.5)             | 997                |
| Middle  | 6.1                         | 26.6                                | (1.3)             | 1.2                    | 8.0                                 | 1.6                    | (0.8)             | 4.4                    | 29.5                                | 0.3                    | (1.4)             | 974                |
| Fourth  | 5.0                         | 23.2                                | (1.1)             | 1.5                    | 9.4                                 | 2.0                    | (0.8)             | 3.3                    | 28.9                                | 0.5                    | (1.4)             | 845                |
| Highest   | 2.3                         | 14.1                                | (0.8)             | 0.8                    | 6.2                                 | 2.8                    | (0.6)             | 1.6                    | 18.3                                | 2.5                    | (1.0)             | 888                |
| Total   | 6.6                         | 26.5                                | (1.3)             | 1.3                    | 9.0                                 | 1.7                    | (0.8)             | 4.8                    | 30.4                                | 0.8                    | (1.4)             | 4,884              |

Note: Table is based on children who slept in the household the night before the interview. Each of the indices is expressed in standard deviation units (SD) from the median of the NCHS/CDC/WHO international reference population. Table is based on children with valid dates of birth (month and year) and valid measurement of both height and weight. Total includes 25 cases missing size at birth.

<sup>1</sup> Recumbent length is measured for children under age 2, or in the few cases when the age of the child is unknown and the child is less than 85cm; standing height is measured for all other children to be consistent with Table 16.1.

<sup>2</sup> Includes children who are below -3 standard deviations (SD) from the international reference population median

<sup>3</sup> Excludes children whose mothers were not interviewed

<sup>4</sup> First born twins (triplets, etc.) are counted as first births because they do not have a previous birth interval

<sup>5</sup> Includes children whose mothers are deceased

<sup>6</sup> Excludes children whose mothers were not interviewed, children whose mothers were not weighed and measured, and children whose mothers are pregnant or gave birth within the preceding 2 months. Mother's nutritional status in terms of BMI (body mass index) is presented in Table 16.10.

<sup>7</sup> For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.



# PERSONS INVOLVED IN THE 2014 CAMBODIA DEMOGRAPHIC AND HEALTH SURVEY

## Appendix **D**

### EXECUTIVE COMMITTEE

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Mr. Srey Nimol  
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Mr. Chap Rathana

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CAMBODIA DEMOGRAPHIC AND HEALTH SURVEYS 2014  
HOUSEHOLD QUESTIONNAIRE

MINISTRY OF PLANNING  
NATIONAL INSTITUTE OF STATISTICS

MINISTRY OF HEALTH  
DIRECTORATE FOR GENERAL HEALTH

| IDENTIFICATION               |   |
|------------------------------|---|
| DOMAIN .....                 | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| NAME OF HOUSEHOLD HEAD _____ |   |
| PROVINCE _____               | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| DISTRICT _____               | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| COMMUNE _____                | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| VILLAGE _____                | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| CLUSTER NUMBER .....         | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| HOUSEHOLD NUMBER .....       | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |

|  |                   |  |
|--|-------------------|--|
| HOUSEHOLD IS IN THE CLUSTER SELECTED FOR MICRONUTRIENT TEST                            | YES = 1<br>NO = 2 | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| HOUSEHOLD SELECTED FOR MALE INTERVIEW AND DOMESTIC VIOLENCE OF THE WOMEN QUESTIONNAIRE | YES = 1<br>NO = 2 | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| HOUSEHOLD SELECTED FOR ANEMIA TEST AND ANTHROPOMETRIC MEASUREMENTS                     | YES = 1<br>NO = 2 | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |

| INTERVIEWER VISITS  |       |       |       |   |
|---|-------|-------|-------|---|
|   | 1     | 2     | 3     | FINAL VISIT   |
| DATE  | _____ | _____ | _____ | DAY<br>MONTH<br>YEAR <div style="display: inline-block; border: 1px solid black; padding: 2px;">2</div> <div style="display: inline-block; border: 1px solid black; padding: 2px;">0</div>  |
| INTERVIEWER'S NAME  | _____ | _____ | _____ | INT. NUMBER <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div>   |
| RESULT*   | _____ | _____ | _____ | RESULT* <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div>   |
| NEXT VISIT: DATE  | _____ | _____ |       | TOTAL NUMBER OF VISITS <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div>  |
| *RESULT CODES:<br>1 COMPLETED<br>2 NO HOUSEHOLD MEMBER AT HOME OR NO COMPETENT RESPONDENT AT HOME AT TIME OF VISIT<br>3 ENTIRE HOUSEHOLD ABSENT FOR EXTENDED PERIOD OF TIME<br>4 POSTPONED<br>5 REFUSED<br>6 DWELLING VACANT OR ADDRESS NOT A DWELLING<br>7 DWELLING DESTROYED<br>8 DWELLING NOT FOUND<br>9 OTHER _____ (SPECIFY) |       |       |       | TOTAL PERSONS IN HOUSEHOLD <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div><br><br>TOTAL ELIGIBLE WOMEN <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div><br><br>TOTAL ELIGIBLE MEN <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div><br><br>LINE NO. OF RESPONDENT TO HOUSEHOLD QUESTIONNAIRE <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> |

|  |  |   |   |
|--|--|---|---|
| SUPERVISOR   | FIELD EDITOR   | OFFICE EDITOR   | KEYED BY  |
| NAME _____ <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> | NAME _____ <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> | <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> | <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> <div style="display: inline-block; border: 1px solid black; padding: 2px;"></div> |
| DATE: _____  | DATE: _____  |   |   |

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## INTRODUCTION AND CONSENT

Hello. My name is \_\_\_\_\_. I am working with the ministry of health and ministry of planning. We are conducting a survey about health all over Cambodia. The information we collect will help the government to plan health services. Your household was selected for the survey. I would like to ask you some questions about your household. The questions usually take about 20 to 25 minutes. All of the answers you give will be confidential and will not be shared with anyone other than members of our survey team. You don't have to be in the survey, but we hope you will agree to answer the questions since your views are important. If I ask you any question you don't want to answer, just let me know and I will go on to the next question or you can stop the interview at any time.

In case you need more information about the survey, you may contact the person listed on this card.

## GIVE CARD WITH CONTACT INFORMATION

Do you have any questions?

May I begin the interview now?

SIGNATURE OF INTERVIEWER: \_\_\_\_\_ DATE: \_\_\_\_\_

RESPONDENT AGREES TO BE INTERVIEWED . . . 1      RESPONDENT DOES NOT AGREE TO BE INTERVIEWED . . . 2 → END



# HOUSEHOLD SCHEDULE

| LINE NO. | USUAL RESIDENTS AND VISITORS  | RELATIONSHIP TO HEAD OF HOUSEHOLD   | SEX                              | RESIDENCE                             |   | AGE  | IF AGE 15 OR OLDER<br>MARITAL STATUS  | ELIGIBILITY                                      |  |   |
|----------|---|---|----------------------------------|---------------------------------------|---|--|---|--|--|---|
| 1        | 2   | 3   | 4                                | 5                                     | 6                                       | 7  | 8   | 9  | 10   | 11  |
|          | <p>Please give me the names of the persons who usually live in your household and guests of the household who stayed here last night, starting with the head of the household.</p> <p>AFTER LISTING THE NAMES AND RECORDING THE RELATIONSHIP AND SEX FOR EACH PERSON, ASK QUESTIONS 2A-2C TO BE SURE THAT THE LISTING IS COMPLETE.</p> <p>THEN ASK APPROPRIATE QUESTIONS IN COLUMNS 5-20 FOR EACH PERSON.</p> | <p>What is the relationship of (NAME) to the head of the household?</p> <p>SEE CODES BELOW.</p> | <p>Is (NAME) male or female?</p> | <p>Does (NAME) usually live here?</p> | <p>Did (NAME) stay here last night?</p> | <p>How old is (NAME)?</p> <p>IF 95 OR MORE, RECORD '95'.</p> | <p>What is (NAME)'s current marital status?</p> <p>1 = MARRIED OR LIVING TOGETHER<br/>2 = DIVORCED/SEPARATED<br/>3 = WIDOWED<br/>4 = NEVER-MARRIED AND NEVER LIVED TOGETHER</p> | <p>CIRCLE LINE NUMBER OF ALL WOMEN AGE 15-49</p> | <p>CIRCLE LINE NUMBER OF ALL MEN AGE 15-49</p> | <p>CIRCLE LINE NUMBER OF ALL CHILDREN AGE 0-5</p> |
| 01       |   | <input type="text"/>  | M F<br>1 2                       | Y N<br>1 2                            | Y N<br>1 2                              | IN YEARS<br><input type="text"/>                             | <input type="text"/>  | 01   | 01   | 01  |
| 02       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 02   | 02   | 02  |
| 03       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 03   | 03   | 03  |
| 04       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 04   | 04   | 04  |
| 05       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 05   | 05   | 05  |
| 06       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 06   | 06   | 06  |
| 07       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 07   | 07   | 07  |
| 08       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 08   | 08   | 08  |
| 09       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 09   | 09   | 09  |
| 10       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 10   | 10   | 10  |

## CODES FOR Q. 3: RELATIONSHIP TO HEAD OF HOUSEHOLD

|                                    |                               |
|------------------------------------|-------------------------------|
| 01 = HEAD                          | 08 = BROTHER OR SISTER        |
| 02 = WIFE OR HUSBAND               | 09 = OTHER RELATIVE           |
| 03 = SON OR DAUGHTER               | 10 = ADOPTED/FOSTER/STEPCHILD |
| 04 = SON-IN-LAW OR DAUGHTER-IN-LAW | 11 = NOT RELATED              |
| 05 = GRANDCHILD                    | 98 = DON'T KNOW               |
| 06 = PARENT                        |                               |
| 07 = PARENT-IN-LAW                 |                               |

|          | IF AGE 0-17 YEARS                                |   |                                   |  | IF AGE 3 YEARS OR OLDER          |   | IF AGE 3-24 YEARS  |   | IF AGE 0-4 YEARS  |
|----------|--|---|-----------------------------------|--|----------------------------------|---|--|---|---|
| LINE NO. | SURVIVORSHIP AND RESIDENCE OF BIOLOGICAL PARENTS |   |                                   |  | EVER ATTENDED SCHOOL             |   | CURRENT/RECENT SCHOOL ATTENDANCE   |   | BIRTH REGISTRATION  |
|          | 12   | 13  | 14                                | 15   | 16                               | 17  | 18   | 19  | 20  |
|          | Is (NAME)'s natural mother alive?                | Does (NAME)'s natural mother usually live in this household or was she a guest last night?<br><br>IF YES:<br>What is her name?<br>RECORD MOTHER'S LINE NUMBER.<br><br>IF NO, RECORD '00'. | Is (NAME)'s natural father alive? | Does (NAME)'s natural father usually live in this household or was he a guest last night?<br><br>IF YES:<br>What is his name?<br>RECORD FATHER'S LINE NUMBER.<br><br>IF NO, RECORD '00'. | Has (NAME) ever attended school? | What is the highest level of school (NAME) has attended?<br><br>SEE CODES BELOW.<br><br>What is the highest grade (NAME) completed at that level?<br><br>SEE CODES BELOW. | Did (NAME) attend school at any time during the (2013-2014) school year? | During this/that school year, what level and grade [is/was] (NAME) attending?<br><br>SEE CODES BELOW. | Does (NAME) have a birth certificate?<br><br>IF NO, PROBE:<br>Has (NAME)'s birth ever been registered with the civil authority?<br><br>1 = HAS CERTIFICATE<br>2 = REGISTERED<br>3 = NEITHER<br>8 = DON'T KNOW |
| 01       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                 | <input type="text"/>  | Y N DK<br>1 2 8<br>↓<br>GO TO 16  | <input type="text"/>   | Y N<br>1 2<br>↓<br>GO TO 20      | LEVEL GRADE<br><input type="text"/> <input type="text"/>  | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL GRADE<br><input type="text"/> <input type="text"/>  | <input type="text"/>  |
| 02       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 03       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 04       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 05       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 06       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 07       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 08       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 09       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 10       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |

CODES FOR Qs. 17 AND 19: EDUCATION

| LEVEL               | GRADE                   |  |
|---------------------|-------------------------|--|
| 1 = PRIMARY         | (01-06 FOR GRADE 1-6)   | 00 = LESS THAN 1 YEAR COMPLETED (USE '00' FOR Q. 17 ONLY. THIS CODE IS NOT ALLOWED FOR Q. 19)<br>98 = DON'T KNOW |
| 2 = LOWER SECONDARY | (07-09 FOR GRADE 7-9)   |  |
| 3 = UPPER SECONDARY | (10-12 FOR GRADE 10-12) |  |
| 4 = HIGHER          | (01-08 FOR YEAR 1-8)    |  |
| 5 = PRE-PRIMARY     | (00 FOR ANY YEAR)       |  |
| 8 = DON'T KNOW      |                         |  |



# DISABILITY

| IF AGE 5 YEARS OR OLDER |  |   |   |  |  |  |
|-------------------------|--|---|---|--|--|--|
| LINE NO.                | PROBLEM OF VISION  | PROBLEM OF HEARING  | PROBLEM OF WALKING OR CLIMBING  | PROBLEM OF REMEMBERING OR CONCENTRATING  | PROBLEM WITH SELF-CARE   | PROBLEM OF COMMUNICATING   |
|                         | 21   | 22  | 23  | 24   | 25   | 26   |
|                         | <p>Does [NAME] have difficulty seeing, even if wearing glasses</p> <p>IF NO, CIRCLE "1"</p> <p>IF YES, PROB:</p> <p>With some difficulty? IF YES CIRCLE "2"</p> <p>With a lot of difficulty? IF YES CIRCLE "3"</p> <p>Cannot see at all? IF YES CIRCLE "4"</p> <p>IF DON'T KNOW CIRCLE : "5"</p> | <p>Does [NAME] have difficulty hearing, even if using a hearing aid?</p> <p>IF NO, CIRCLE "1"</p> <p>IF YES, PROB:</p> <p>With some difficulty? IF YES CIRCLE "2"</p> <p>With a lot of difficulty? IF YES CIRCLE "3"</p> <p>Cannot hear at all? IF YES CIRCLE "4"</p> <p>IF DON'T KNOW CIRCLE : "5"</p> | <p>Does [NAME] have difficulty walking or climbing steps?</p> <p>IF NO, CIRCLE "1"</p> <p>IF YES, PROB:</p> <p>With some difficulty? IF YES CIRCLE "2"</p> <p>With a lot of difficulty? IF YES CIRCLE "3"</p> <p>Cannot walk or climb steps at all? IF YES CIRCLE "4"</p> <p>IF DON'T KNOW CIRCLE : "5"</p> | <p>Does [NAME] have difficulty remembering or concentrating?</p> <p>IF NO, CIRCLE "1"</p> <p>IF YES, PROB:</p> <p>With some difficulty? IF YES CIRCLE "2"</p> <p>With a lot of difficulty? IF YES CIRCLE "3"</p> <p>Cannot remember or concentrate at all? IF YES CIRCLE "4"</p> <p>IF DON'T KNOW CIRCLE : "5"</p> | <p>Does [NAME] have difficulty with self-care such as washing all over or dressing?</p> <p>IF NO, CIRCLE "1"</p> <p>IF YES, PROB:</p> <p>With some difficulty? IF YES CIRCLE "2"</p> <p>With a lot of difficulty? IF YES CIRCLE "3"</p> <p>Cannot do at all? IF YES CIRCLE "4"</p> <p>IF DON'T KNOW CIRCLE : "5"</p> | <p>Because of a physical, mental or emotional health condition, does [NAME] have difficulty communicating, (for example understanding others or others understanding him/her?)</p> <p>IF NO, CIRCLE "1"</p> <p>IF YES, PROB:</p> <p>With some difficulty? IF YES CIRCLE "2"</p> <p>With a lot of difficulty? IF YES CIRCLE "3"</p> <p>Cannot communicating at all? IF YES CIRCLE "4"</p> <p>IF DON'T KNOW CIRCLE : "5"</p> |
| 01                      | N YS YA YT DK<br>1 2 3 4 5   | N YS YA YT DK<br>1 2 3 4 5  | N YS YA YT DK<br>1 2 3 4 5  | N YS YA YT DK<br>1 2 3 4 5   | N YS YA YT DK<br>1 2 3 4 5   | N YS YA YT DK<br>1 2 3 4 5   |
| 02                      | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5  |
| 03                      | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5  |
| 04                      | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5  |
| 05                      | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5  |
| 06                      | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5  |
| 07                      | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5  |
| 08                      | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5  |
| 09                      | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5  |
| 10                      | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5  |

N= NO  
 YS= YES SOME DIFFICULTY  
 YA= YES A LOT OF DIFFICULTY  
 YT= YES CANNOT ... AT ALL (TOTALLY)  
 DK= DON'T KNOW

|          |   |   |                                  |                                       |   |  | IF AGE 15 OR OLDER  |  |  |   |
|----------|---|---|----------------------------------|---------------------------------------|---|--|---|--|--|---|
| LINE NO. | USUAL RESIDENTS AND VISITORS  | RELATIONSHIP TO HEAD OF HOUSEHOLD   | SEX                              | RESIDENCE                             |   | AGE  | MARITAL STATUS  | ELIGIBILITY                                      |  |   |
| 1        | 2   | 3   | 4                                | 5                                     | 6                                       | 7  | 8   | 9  | 10   | 11  |
|          | <p>Please give me the names of the persons who usually live in your household and guests of the household who stayed here last night, starting with the head of the household.</p> <p>AFTER LISTING THE NAMES AND RECORDING THE RELATIONSHIP AND SEX FOR EACH PERSON, ASK QUESTIONS 2A-2C TO BE SURE THAT THE LISTING IS COMPLETE.</p> <p>THEN ASK APPROPRIATE QUESTIONS IN COLUMNS 5-20 FOR EACH PERSON.</p> | <p>What is the relationship of (NAME) to the head of the household?</p> <p>SEE CODES BELOW.</p> | <p>Is (NAME) male or female?</p> | <p>Does (NAME) usually live here?</p> | <p>Did (NAME) stay here last night?</p> | <p>How old is (NAME)?</p> <p>IF 95 OR MORE, RECORD '95'.</p> | <p>What is (NAME)'s current marital status?</p> <p>1 = MARRIED OR LIVING TOGETHER<br/>2 = DIVORCED/SEPARATED<br/>3 = WIDOWED<br/>4 = NEVER-MARRIED AND NEVER LIVED TOGETHER</p> | <p>CIRCLE LINE NUMBER OF ALL WOMEN AGE 15-49</p> | <p>CIRCLE LINE NUMBER OF ALL MEN AGE 15-49</p> | <p>CIRCLE LINE NUMBER OF ALL CHILDREN AGE 0-5</p> |
| 11       |   | <input type="text"/>  | M F<br>1 2                       | Y N<br>1 2                            | Y N<br>1 2                              | IN YEARS<br><input type="text"/>                             | <input type="text"/>  | 11   | 11   | 11  |
| 12       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 12   | 12   | 12  |
| 13       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 13   | 13   | 13  |
| 14       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 14   | 14   | 14  |
| 15       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 15   | 15   | 15  |
| 16       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 16   | 16   | 16  |
| 17       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 17   | 17   | 17  |
| 18       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 18   | 18   | 18  |
| 19       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 19   | 19   | 19  |
| 20       |   | <input type="text"/>  | 1 2                              | 1 2                                   | 1 2                                     | <input type="text"/>   | <input type="text"/>  | 20   | 20   | 20  |

TICK HERE IF CONTINUATION SHEET USED ☐

**CODES FOR Q. 3: RELATIONSHIP TO HEAD OF HOUSEHOLD**

2A) Just to make sure that I have a complete

listing. Are there any other persons such as small children or infants that we have not listed?

YES ☐ → ADD TO TABLE NO ☐

2B) Are there any other people who may not be members of your family, such as domestic servants, lodgers, or friends who usually live here?

YES ☐ → ADD TO TABLE NO ☐

2C) Are there any guests or temporary visitors staying here, or anyone else who stayed here last night, who have not been listed?

YES ☐ → ADD TO TABLE NO ☐

- |                                    |                               |
|------------------------------------|-------------------------------|
| 01 = HEAD                          | 08 = BROTHER OR SISTER        |
| 02 = WIFE OR HUSBAND               | 09 = OTHER RELATIVE           |
| 03 = SON OR DAUGHTER               | 10 = ADOPTED/FOSTER/STEPCHILD |
| 04 = SON-IN-LAW OR DAUGHTER-IN-LAW | 11 = NOT RELATED              |
| 05 = GRANDCHILD                    | 98 = DON'T KNOW               |
| 06 = PARENT                        |                               |
| 07 = PARENT-IN-LAW                 |                               |

|          | IF AGE 0-17 YEARS                                |   |                                   |  | IF AGE 3 YEARS OR OLDER          |   | IF AGE 3-24 YEARS  |   | IF AGE 0-4 YEARS  |
|----------|--|---|-----------------------------------|--|----------------------------------|---|--|---|---|
| LINE NO. | SURVIVORSHIP AND RESIDENCE OF BIOLOGICAL PARENTS |   |                                   |  | EVER ATTENDED SCHOOL             |   | CURRENT/RECENT SCHOOL ATTENDANCE   |   | BIRTH REGISTRATION  |
|          | 12   | 13  | 14                                | 15   | 16                               | 17  | 18   | 19  | 20  |
|          | Is (NAME)'s natural mother alive?                | Does (NAME)'s natural mother usually live in this household or was she a guest last night?<br><br>IF YES:<br>What is her name?<br>RECORD MOTHER'S LINE NUMBER.<br><br>IF NO, RECORD '00'. | Is (NAME)'s natural father alive? | Does (NAME)'s natural father usually live in this household or was he a guest last night?<br><br>IF YES:<br>What is his name?<br>RECORD FATHER'S LINE NUMBER.<br><br>IF NO, RECORD '00'. | Has (NAME) ever attended school? | What is the highest level of school (NAME) has attended?<br><br>SEE CODES BELOW.<br><br>What is the highest grade (NAME) completed at that level?<br><br>SEE CODES BELOW. | Did (NAME) attend school at any time during the (2013-2014) school year? | During this/that school year, what level and grade [is/was] (NAME) attending?<br><br>SEE CODES BELOW. | Does (NAME) have a birth certificate?<br><br>IF NO, PROBE:<br>Has (NAME)'s birth ever been registered with the civil authority?<br><br>1 = HAS CERTIFICATE<br>2 = REGISTERED<br>3 = NEITHER<br>8 = DON'T KNOW |
| 11       | Y N DK<br>1 2 8<br>↓<br>GO TO 14                 | <input type="text"/>  | Y N DK<br>1 2 8<br>↓<br>GO TO 16  | <input type="text"/>   | Y N<br>1 2<br>↓<br>GO TO 20      | LEVEL GRADE<br><input type="text"/> <input type="text"/>  | Y N<br>1 2<br>↓<br>GO TO 20  | LEVEL GRADE<br><input type="text"/> <input type="text"/>  | <input type="text"/>  |
| 12       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 13       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 14       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 15       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 16       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 17       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 18       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 19       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |
| 20       | 1 2 8<br>↓<br>GO TO 14                           | <input type="text"/>  | 1 2 8<br>↓<br>GO TO 16            | <input type="text"/>   | 1 2<br>↓<br>GO TO 20             | <input type="text"/> <input type="text"/>   | 1 2<br>↓<br>GO TO 20   | <input type="text"/> <input type="text"/>   | <input type="text"/>  |

**CODES FOR Qs. 17 AND 19: EDUCATION**

| LEVEL               | GRADE                   |   |
|---------------------|-------------------------|---|
| 1 = PRIMARY         | (01-06 FOR GRADE 1-6)   | 00 = LESS THAN 1 YEAR COMPLETED<br>(USE '00' FOR Q. 17 ONLY).<br><br>THIS CODE IS NOT ALLOWED FOR Q. 19)<br><br>98 = DON'T KNOW |
| 2 = LOWER SECONDARY | (07-09 FOR GRADE 7-9)   |   |
| 3 = UPPER SECONDARY | (10-12 FOR GRADE 10-12) |   |
| 4 = HIGHER          | (01-08 FOR YEAR 1-8)    |   |
| 5 = PRE-PRIMARY     | (00 FOR ANY YEAR)       |   |
| 8 = DON'T KNOW      |                         |   |

|          | IF AGE 5 YEARS OR OLDER   |  |  |   |   |   |
|----------|---|--|--|---|---|---|
| LINE NO. | PROBLEM OF VISION   | PROBLEM OF HEARING   | PROBLEM OF WALKING OR CLIMBING   | PROBLEM OF REMEMBERING OR CONCENTRATING   | PROBLEM WITH SELF-CARE  | PROBLEM OF COMMUNICATING  |
|          | 21  | 22   | 23   | 24  | 25  | 26  |
|          | <p>Does [NAME] have difficulty seeing, even if wearing glasses</p> <p>IF NO, CIRCLE "1"<br/>IF YES, PROB:<br/>With some difficulty? IF YES CIRCLE "2"<br/>With a lot of difficulty? IF YES CIRCLE "3"<br/>Cannot see at all? IF YES CIRCLE "4"<br/>IF DON'T KNOW CIRCLE : "5"</p> | <p>Does [NAME] have difficulty hearing, even if using a hearing aid?</p> <p>IF NO, CIRCLE "1"<br/>IF YES, PROB:<br/>With some difficulty? IF YES CIRCLE "2"<br/>With a lot of difficulty? IF YES CIRCLE "3"<br/>Cannot hear at all? IF YES CIRCLE "4"<br/>IF DON'T KNOW CIRCLE : "5"</p> | <p>Does [NAME] have difficulty walking or climbing steps?</p> <p>IF NO, CIRCLE "1"<br/>IF YES, PROB:<br/>With some difficulty? IF YES CIRCLE "2"<br/>With a lot of difficulty? IF YES CIRCLE "3"<br/>Cannot walk or climb steps at all? IF YES CIRCLE "4"<br/>IF DON'T KNOW CIRCLE : "5"</p> | <p>Does [NAME] have difficulty remembering or concentrating?</p> <p>IF NO, CIRCLE "1"<br/>IF YES, PROB:<br/>With some difficulty? IF YES CIRCLE "2"<br/>With a lot of difficulty? IF YES CIRCLE "3"<br/>Cannot remember or concentrate at all? IF YES CIRCLE "4"<br/>IF DON'T KNOW CIRCLE : "5"</p> | <p>Does [NAME] have difficulty with self-care such as washing all over or dressing?</p> <p>IF NO, CIRCLE "1"<br/>IF YES, PROB:<br/>With some difficulty? IF YES CIRCLE "2"<br/>With a lot of difficulty? IF YES CIRCLE "3"<br/>Cannot do at all? IF YES CIRCLE "4"<br/>IF DON'T KNOW CIRCLE : "5"</p> | <p>Because of a physical, mental or emotional health condition, does [NAME] have difficulty communicating, (for example understanding others or others understanding him/her?)</p> <p>IF NO, CIRCLE "1"<br/>IF YES, PROB:<br/>With some difficulty? IF YES CIRCLE "2"<br/>With a lot of difficulty? IF YES CIRCLE "3"<br/>Cannot communicating at all? IF YES CIRCLE "4"<br/>IF DON'T KNOW CIRCLE : "5"</p> |
| 11       | N YS YA YT DK<br>1 2 3 4 5  | N YS YA YT DK<br>1 2 3 4 5   | N YS YA YT DK<br>1 2 3 4 5   | N YS YA YT DK<br>1 2 3 4 5  | N YS YA YT DK<br>1 2 3 4 5  | N YS YA YT DK<br>1 2 3 4 5  |
| 12       | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5   |
| 13       | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5   |
| 14       | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5   |
| 15       | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5   |
| 16       | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5   |
| 17       | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5   |
| 18       | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5   |
| 19       | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5   |
| 20       | 1 2 3 4 5   | 1 2 3 4 5  | 1 2 3 4 5  | 1 2 3 4 5   | 1 2 3 4 5   | 1 2 3 4 5   |

N= NO  
 YS= YES SOME DIFFICULTY  
 YA= YES A LOT OF DIFFICULTY  
 YT= YES CANNOT ... AT ALL (TOTALLY)  
 DK= DON'T KNOW

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  |  |
|-----|---|--|--|
| 50  | <p>Was any person of your household injured or killed in an accident in the past 12 months?</p> <p>IF YES, PROBE: How many?</p>   | <p>YES ..... 1</p> <p>HOW MANY ..... <input type="text"/> <input type="text"/></p> <p>NO ..... 2</p> <p>(GO TO 65) ←</p>   |  |
| 51  | <p>What is the name of the person(s) injured or killed?</p> <p>ENTER THE NAME OF EACH PERSON INJURED OR KILLED IN Q52.</p> <p>IF THERE ARE MORE THAN TWO PEOPLE, USE AN ADDITIONAL QUESTIONNAIRE.</p> |  |  |
| 52  | NAME INJURED/KILLED   | NAME .....   | NAME .....   |
| 53  | <p>Could you tell me in what type of accident (NAME) was injured or killed?</p>   | <p>LANDMINE/UNEXPLODED</p> <p>BOMB (UXO) ..... 01</p> <p>GUN SHOT/WEAPON ..... 02</p> <p>ROAD ACCIDENT ..... 03</p> <p>FIRE/BURNING ..... 04</p> <p>SNAKE/ANIMAL BITE ..... 05</p> <p>FALL FROM TREE/BUILDING ..... 06</p> <p>DROWNING ..... 07</p> <p>POISONING (CHEMICAL) ..... 08</p> <p>VIOLENCE/ASSULT ..... 09</p> <p>OTHER ..... 96</p> <p>SPECIFY</p> <p>DON'T KNOW ..... 98</p> | <p>LANDMINE/UNEXPLODED</p> <p>BOMB (UXO) ..... 01</p> <p>GUN SHOT/WEAPON ..... 02</p> <p>ROAD ACCIDENT ..... 03</p> <p>FIRE/BURNING ..... 04</p> <p>SNAKE/ANIMAL BITE ..... 05</p> <p>FALL FROM TREE/BUILDING ..... 06</p> <p>DROWNING ..... 07</p> <p>POISONING (CHEMICAL) ..... 08</p> <p>VIOLENCE/ASSULT ..... 09</p> <p>OTHER ..... 96</p> <p>SPECIFY</p> <p>DON'T KNOW ..... 98</p> |
| 54  | Is (NAME) still alive?  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(GO TO 57) ←</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(GO TO 57) ←</p>   |
| 55  | In your opinion, was (NAME)'s injury serious, moderate, or slight?  | <p>SERIOUS ..... 1</p> <p>MODERATE ..... 2</p> <p>SLIGHT ..... 3</p> <p>DON'T KNOW ..... 8</p>   | <p>SERIOUS ..... 1</p> <p>MODERATE ..... 2</p> <p>SLIGHT ..... 3</p> <p>DON'T KNOW ..... 8</p>   |
| 56  | IF ALIVE: RECORD LINE NUMBER FROM COLUMN (1).   | <p>LINE</p> <p>NUMBER ..... <input type="text"/> <input type="text"/></p> <p>(GO TO 58) ←</p>  | <p>LINE</p> <p>NUMBER ..... <input type="text"/> <input type="text"/></p> <p>(GO TO 58) ←</p>  |
| 57  | Was (NAME)'s death due to the accident?   | <p>YES ..... 1</p> <p>NO ..... 2</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p>   |
| 58  |   | GO BACK TO 52 IN NEXT COLUMN;<br>OR, IF NO OTHER PERSON,<br>GO TO 65.  | GO TO 52 IN NEXT COLUMN OF<br>ADDITIONAL QUESTIONNAIRE; OR,<br>IF NO OTHER PERSON, GO TO 65.   |

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   |   |   |
|-----|--|---|---|---|
| 65  | <p>Please tell me if any member of your household is sick, has an illness or an injury now or at any time in the last 30 days?</p> <p>IF YES, PROBE: How many?</p>   | <p>YES ..... 1</p> <p>HOW MANY ..... <input type="text"/> <input type="text"/></p> <p>NO ..... 2</p> <p>(GO TO 101) ←</p>   |   |   |
| 66  | <p>Now I would like to ask you some questions about each person who is sick/injured now or at any time in the last 30 days. Could you tell me his/her/their name(s)? Then we will talk about one person at a time.</p> <p>ENTER THE LINE NUMBER AND NAME OF EACH PERSON SICK/INJURED. ASK ALL QUESTIONS ABOUT ALL OF THESE PEOPLE. (IF THERE ARE MORE THAN 3 PEOPLE, USE ADDITIONAL QUESTIONNAIRE).</p>  |   |   |   |
| 67  | <p>LINE NUMBER AND NAME FROM COL. (1) AND (2).</p>   | <p>LINE NUMBER ..... <input type="text"/> <input type="text"/></p> <p>NAME .....</p>  | <p>LINE NUMBER ..... <input type="text"/> <input type="text"/></p> <p>NAME .....</p>  | <p>LINE NUMBER ..... <input type="text"/> <input type="text"/></p> <p>NAME .....</p>  |
| 68  | <p>In your opinion, was (NAME)'s illness/injury serious, moderate, or slight?</p>  | <p>SERIOUS ..... 1</p> <p>MODERATE ..... 2</p> <p>SLIGHT ..... 3</p> <p>DON'T KNOW ..... 8</p>  | <p>SERIOUS ..... 1</p> <p>MODERATE ..... 2</p> <p>SLIGHT ..... 3</p> <p>DON'T KNOW ..... 8</p>  | <p>SERIOUS ..... 1</p> <p>MODERATE ..... 2</p> <p>SLIGHT ..... 3</p> <p>DON'T KNOW ..... 8</p>  |
| 69  | <p>Was advice or treatment sought for (NAME)'s illness/injury?</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(SKIP TO NEXT ← COLUMN OR TO 101)</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(SKIP TO NEXT ← COLUMN OR TO 101)</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(SKIP TO NEXT ← COLUMN OR TO 101)</p>   |
| 70  | <p>Where was advice or treatment first sought for (NAME)'s illness/injury?</p> <p>IF "HOSPITAL", PROBE: Do you mean a permanent building where health workers are present every day?</p> <p>IF "YES": Was it a Provincial Hospital, District Hospital, Health Center, or Private Hospital?</p> <p>IF "HEALTH WORKER/NURSE", PROBE: Did the health worker/nurse visit you or did you go to his/her office/home?</p> <p>CIRCLE THE APPROPRIATE CODE.</p> | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSP. (PP) ..... 11</p> <p>PROVINCIAL HOSP. (RH) ..... 12</p> <p>DISTRICT H. (RH) . 13</p> <p>HEALTH CENTER . 14</p> <p>HEALTH POST ... 15</p> <p>OUTREACH ..... 16</p> <p>OTHER PUBLIC ... 17</p> <p>PRIVATE MEDICAL</p> <p>PRIVATE HOSPITAL ..... 21</p> <p>PRIVATE CLINIC ... 22</p> <p>PRIVATE PHARMACY ..... 23</p> <p>HOME/OFFICE OF TRAINED HEALTH WORKER/ NURSE ..... 24</p> <p>VISIT OF TRAINED HLTH. WORKER/ NURSE ..... 25</p> <p>OTHER PRIVATE MEDICAL ..... 26</p> <p>NOT MEDICAL SECTOR</p> <p>SHOP SELLING DRUGS/MARKET . 31</p> <p>KRU KHMER/ MAGICIAN ..... 32</p> <p>MONK/RELIGIOUS LEADER ..... 33</p> <p>TRADITIONAL BIRTH ATTENDANT ... 34</p> <p>OUTSIDE OF THE COUNTRY ... 41</p> <p>OTHER ..... 96</p> | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSP. (PP) ..... 11</p> <p>PROVINCIAL HOSP. (RH) ..... 12</p> <p>DISTRICT H. (RH) . 13</p> <p>HEALTH CENTER . 14</p> <p>HEALTH POST ... 15</p> <p>OUTREACH ..... 16</p> <p>OTHER PUBLIC ... 17</p> <p>PRIVATE MEDICAL</p> <p>PRIVATE HOSPITAL ..... 21</p> <p>PRIVATE CLINIC ... 22</p> <p>PRIVATE PHARMACY ..... 23</p> <p>HOME/OFFICE OF TRAINED HEALTH WORKER/ NURSE ..... 24</p> <p>VISIT OF TRAINED HLTH. WORKER/ NURSE ..... 25</p> <p>OTHER PRIVATE MEDICAL ..... 26</p> <p>NOT MEDICAL SECTOR</p> <p>SHOP SELLING DRUGS/MARKET . 31</p> <p>KRU KHMER/ MAGICIAN ..... 32</p> <p>MONK/RELIGIOUS LEADER ..... 33</p> <p>TRADITIONAL BIRTH ATTENDANT ... 34</p> <p>OUTSIDE OF THE COUNTRY ... 41</p> <p>OTHER ..... 96</p> | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSP. (PP) ..... 11</p> <p>PROVINCIAL HOSP. (RH) ..... 12</p> <p>DISTRICT H. (RH) . 13</p> <p>HEALTH CENTER . 14</p> <p>HEALTH POST ... 15</p> <p>OUTREACH ..... 16</p> <p>OTHER PUBLIC ... 17</p> <p>PRIVATE MEDICAL</p> <p>PRIVATE HOSPITAL ..... 21</p> <p>PRIVATE CLINIC ... 22</p> <p>PRIVATE PHARMACY ..... 23</p> <p>HOME/OFFICE OF TRAINED HEALTH WORKER/ NURSE ..... 24</p> <p>VISIT OF TRAINED HLTH. WORKER/ NURSE ..... 25</p> <p>OTHER PRIVATE MEDICAL ..... 26</p> <p>NOT MEDICAL SECTOR</p> <p>SHOP SELLING DRUGS/MARKET . 31</p> <p>KRU KHMER/ MAGICIAN ..... 32</p> <p>MONK/RELIGIOUS LEADER ..... 33</p> <p>TRADITIONAL BIRTH ATTENDANT ... 34</p> <p>OUTSIDE OF THE COUNTRY ... 41</p> <p>OTHER ..... 96</p> |

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   |   |   |
|-----|--|---|---|---|
| 71  | <p>How much in total was spent on transport to go to and return from (NAME OF PLACE FROM Q.70)?</p> <p>RECORD IN RIELS OR IN DOLLARS.</p>  | <p>RIELS<br/>..... 1 <input type="text"/></p> <p>DOLLARS<br/>..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p>  | <p>RIELS<br/>..... 1 <input type="text"/></p> <p>DOLLARS<br/>..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p>  | <p>RIELS<br/>..... 1 <input type="text"/></p> <p>DOLLARS<br/>..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p>  |
| 72  | <p>How much in total was spent on (NAME)'s treatment at the (NAME (NAME OF PLACE FROM Q.70)?</p> <p>IF LESS THAN 1,000,000 RIELS RECORD IN RIELS OR IN DOLLARS; IF 1,000,000 RIELS OR MORE, RECORD IN DOLLARS.</p>   | <p>RIELS<br/>..... 1 <input type="text"/></p> <p>DOLLARS<br/>..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p>  | <p>RIELS<br/>..... 1 <input type="text"/></p> <p>DOLLARS<br/>..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p>  | <p>RIELS<br/>..... 1 <input type="text"/></p> <p>DOLLARS<br/>..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p>  |
| 73  | <p>After the first visit to (NAME OF PLACE FROM Q.70), was there a second visit to this place or was advice or treatment sought anywhere else for (NAME)'s illness/injury?</p>   | <p>YES ..... 1</p> <p>NO ..... 2<br/>(GO TO 80A) ←</p>  | <p>YES ..... 1</p> <p>NO ..... 2<br/>(GO TO 80A) ←</p>  | <p>YES ..... 1</p> <p>NO ..... 2<br/>(GO TO 80A) ←</p>  |
| 74  | <p>For the second visit, where was advice or treatment sought for (NAME)'s illness/injury?</p> <p>IF "HOSPITAL", PROBE: Do you mean a permanent building where health workers are present every day?</p> <p>IF "YES": Was it a Provincial Hospital, District Hospital, Health Center, or Private Hospital?</p> <p>IF "HEALTH WORKER/NURSE", PROBE: Did the health worker/nurse visit you or did you go to his/her office/home?</p> <p>CIRCLE THE APPROPRIATE CODE.</p> | <p>PUBLIC SECTOR<br/>NATIONAL HOSP.<br/>(PP) ..... 11<br/>PROVINCIAL<br/>HOSP. (RH) ..... 12<br/>DISTRICT H. (RH) . 13<br/>HEALTH CENTER . 14<br/>HEALTH POST ... 15<br/>OUTREACH ..... 16<br/>OTHER PUBLIC ... 17</p> <p>PRIVATE MEDICAL<br/>PRIVATE<br/>HOSPITAL ..... 21<br/>PRIVATE CLINIC ... 22<br/>PRIVATE<br/>PHARMACY ..... 23<br/>HOME/OFFICE OF<br/>TRAINED HEALTH<br/>WORKER/<br/>NURSE ..... 24<br/>VISIT OF TRAINED<br/>HLTH. WORKER/<br/>NURSE ..... 25<br/>OTHER PRIVATE<br/>MEDICAL ..... 26<br/>NOT MEDICAL SECTOR<br/>SHOP SELLING<br/>DRUGS/MARKET . 31<br/>KRU KHMER/<br/>MAGICIAN ..... 32<br/>MONK/RELIGIOUS<br/>LEADER ..... 33<br/>TRADITIONAL<br/>BIRTH<br/>ATTENDANT ... 34<br/>OUTSIDE OF<br/>THE COUNTRY ... 41<br/>OTHER ..... 96</p> | <p>PUBLIC SECTOR<br/>NATIONAL HOSP.<br/>(PP) ..... 11<br/>PROVINCIAL<br/>HOSP. (RH) ..... 12<br/>DISTRICT H. (RH) . 13<br/>HEALTH CENTER . 14<br/>HEALTH POST ... 15<br/>OUTREACH ..... 16<br/>OTHER PUBLIC ... 17</p> <p>PRIVATE MEDICAL<br/>PRIVATE<br/>HOSPITAL ..... 21<br/>PRIVATE CLINIC ... 22<br/>PRIVATE<br/>PHARMACY ..... 23<br/>HOME/OFFICE OF<br/>TRAINED HEALTH<br/>WORKER/<br/>NURSE ..... 24<br/>VISIT OF TRAINED<br/>HLTH. WORKER/<br/>NURSE ..... 25<br/>OTHER PRIVATE<br/>MEDICAL ..... 26<br/>NOT MEDICAL SECTOR<br/>SHOP SELLING<br/>DRUGS/MARKET . 31<br/>KRU KHMER/<br/>MAGICIAN ..... 32<br/>MONK/RELIGIOUS<br/>LEADER ..... 33<br/>TRADITIONAL<br/>BIRTH<br/>ATTENDANT ... 34<br/>OUTSIDE OF<br/>THE COUNTRY ... 41<br/>OTHER ..... 96</p> | <p>PUBLIC SECTOR<br/>NATIONAL HOSP.<br/>(PP) ..... 11<br/>PROVINCIAL<br/>HOSP. (RH) ..... 12<br/>DISTRICT H. (RH) . 13<br/>HEALTH CENTER . 14<br/>HEALTH POST ... 15<br/>OUTREACH ..... 16<br/>OTHER PUBLIC ... 17</p> <p>PRIVATE MEDICAL<br/>PRIVATE<br/>HOSPITAL ..... 21<br/>PRIVATE CLINIC ... 22<br/>PRIVATE<br/>PHARMACY ..... 23<br/>HOME/OFFICE OF<br/>TRAINED HEALTH<br/>WORKER/<br/>NURSE ..... 24<br/>VISIT OF TRAINED<br/>HLTH. WORKER/<br/>NURSE ..... 25<br/>OTHER PRIVATE<br/>MEDICAL ..... 26<br/>NOT MEDICAL SECTOR<br/>SHOP SELLING<br/>DRUGS/MARKET . 31<br/>KRU KHMER/<br/>MAGICIAN ..... 32<br/>MONK/RELIGIOUS<br/>LEADER ..... 33<br/>TRADITIONAL<br/>BIRTH<br/>ATTENDANT ... 34<br/>OUTSIDE OF<br/>THE COUNTRY ... 41<br/>OTHER ..... 96</p> |

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES   |   |   |
|-----|---|---|---|---|
| 75  | <p>How much in total was spent on transport to go to and return from (NAME OF PLACE FROM Q.74)?</p> <p>RECORD IN RIELS OR IN DOLLARS.</p>   | <p>RIELS ..... 1 <input type="text"/></p> <p>DOLLARS ..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p>  | <p>RIELS ..... 1 <input type="text"/></p> <p>DOLLARS ..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p>  | <p>RIELS ..... 1 <input type="text"/></p> <p>DOLLARS ..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p>  |
| 76  | <p>How much in total was spent on (NAME)'s treatment at the (NAME OF PLACE FROM Q.74)?</p> <p>IF LESS THAN 1,000,000 RIELS RECORD IN RIELS OR IN DOLLARS; IF 1,000,000 RIELS OR MORE, RECORD IN DOLLARS.</p>  | <p>RIELS ..... 1 <input type="text"/></p> <p>DOLLARS ..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p>  | <p>RIELS ..... 1 <input type="text"/></p> <p>DOLLARS ..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p>  | <p>RIELS ..... 1 <input type="text"/></p> <p>DOLLARS ..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p>  |
| 77  | <p>After the second visit to (NAME OF PLACE FROM Q.74), was there a third visit to this place or was advice or treatment sought anywhere else for (NAME)'s illness/injury?</p>  | <p>YES ..... 1</p> <p>NO ..... 2<br/>(GO TO 80A) ←</p>  | <p>YES ..... 1</p> <p>NO ..... 2<br/>(GO TO 80A) ←</p>  | <p>YES ..... 1</p> <p>NO ..... 2<br/>(GO TO 80A) ←</p>  |
| 78  | <p>For the third visit, where was advice or treatment sought for (NAME)'s illness/injury?</p> <p>IF "HOSPITAL", PROBE: Do you mean a permanent building where health workers are present every day?</p> <p>IF "YES": Was it a Provincial Hospital, District Hospital, Health Center, or Private Hospital?</p> <p>IF "HEALTH WORKER/NURSE", PROBE: Did the health worker/nurse visit you or did you go to his/her office/home?</p> <p>CIRCLE THE APPROPRIATE CODE.</p> | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSP. (PP) ..... 11</p> <p>PROVINCIAL HOSP. (RH) ..... 12</p> <p>DISTRICT H. (RH) . 13</p> <p>HEALTH CENTER . 14</p> <p>HEALTH POST ... 15</p> <p>OUTREACH ..... 16</p> <p>OTHER PUBLIC ... 17</p> <p>PRIVATE MEDICAL</p> <p>PRIVATE HOSPITAL ..... 21</p> <p>PRIVATE CLINIC ... 22</p> <p>PRIVATE PHARMACY ..... 23</p> <p>HOME/OFFICE OF TRAINED HEALTH WORKER/ NURSE ..... 24</p> <p>VISIT OF TRAINED HLTH. WORKER/ NURSE ..... 25</p> <p>OTHER PRIVATE MEDICAL ..... 26</p> <p>NOT MEDICAL SECTOR</p> <p>SHOP SELLING DRUGS/MARKET . 31</p> <p>KRU KHMER/ MAGICIAN ..... 32</p> <p>MONK/RELIGIOUS LEADER ..... 33</p> <p>TRADITIONAL BIRTH ATTENDANT ... 34</p> <p>OUTSIDE OF THE COUNTRY ... 41</p> <p>OTHER ..... 96</p> | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSP. (PP) ..... 11</p> <p>PROVINCIAL HOSP. (RH) ..... 12</p> <p>DISTRICT H. (RH) . 13</p> <p>HEALTH CENTER . 14</p> <p>HEALTH POST ... 15</p> <p>OUTREACH ..... 16</p> <p>OTHER PUBLIC ... 17</p> <p>PRIVATE MEDICAL</p> <p>PRIVATE HOSPITAL ..... 21</p> <p>PRIVATE CLINIC ... 22</p> <p>PRIVATE PHARMACY ..... 23</p> <p>HOME/OFFICE OF TRAINED HEALTH WORKER/ NURSE ..... 24</p> <p>VISIT OF TRAINED HLTH. WORKER/ NURSE ..... 25</p> <p>OTHER PRIVATE MEDICAL ..... 26</p> <p>NOT MEDICAL SECTOR</p> <p>SHOP SELLING DRUGS/MARKET . 31</p> <p>KRU KHMER/ MAGICIAN ..... 32</p> <p>MONK/RELIGIOUS LEADER ..... 33</p> <p>TRADITIONAL BIRTH ATTENDANT ... 34</p> <p>OUTSIDE OF THE COUNTRY ... 41</p> <p>OTHER ..... 96</p> | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSP. (PP) ..... 11</p> <p>PROVINCIAL HOSP. (RH) ..... 12</p> <p>DISTRICT H. (RH) . 13</p> <p>HEALTH CENTER . 14</p> <p>HEALTH POST ... 15</p> <p>OUTREACH ..... 16</p> <p>OTHER PUBLIC ... 17</p> <p>PRIVATE MEDICAL</p> <p>PRIVATE HOSPITAL ..... 21</p> <p>PRIVATE CLINIC ... 22</p> <p>PRIVATE PHARMACY ..... 23</p> <p>HOME/OFFICE OF TRAINED HEALTH WORKER/ NURSE ..... 24</p> <p>VISIT OF TRAINED HLTH. WORKER/ NURSE ..... 25</p> <p>OTHER PRIVATE MEDICAL ..... 26</p> <p>NOT MEDICAL SECTOR</p> <p>SHOP SELLING DRUGS/MARKET . 31</p> <p>KRU KHMER/ MAGICIAN ..... 32</p> <p>MONK/RELIGIOUS LEADER ..... 33</p> <p>TRADITIONAL BIRTH ATTENDANT ... 34</p> <p>OUTSIDE OF THE COUNTRY ... 41</p> <p>OTHER ..... 96</p> |



| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  |  |  |
|-----|---|--|--|--|
| 79  | <p>How much in total was spent on transport to go to and return from (NAME OF PLACE FROM Q.78)?</p> <p>RECORD IN RIELS OR IN DOLLARS.</p>   | <p>RIELS ..... 1 <input type="text"/></p> <p>DOLLARS ..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p>   | <p>RIELS ..... 1 <input type="text"/></p> <p>DOLLARS ..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p> | <p>RIELS ..... 1 <input type="text"/></p> <p>DOLLARS ..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p> |
| 80  | <p>How much in total was spent on (NAME)'s treatment at the (NAME OF PLACE FROM Q.78)? IF LESS THAN 1,000,000 RIELS RECORD IN RIELS OR IN DOLLARS. IF 1,000,000 RIELS OR MORE, RECORD IN DOLLARS.</p>     | <p>RIELS ..... 1 <input type="text"/></p> <p>DOLLARS ..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p>   | <p>RIELS ..... 1 <input type="text"/></p> <p>DOLLARS ..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p> | <p>RIELS ..... 1 <input type="text"/></p> <p>DOLLARS ..... 2 <input type="text"/></p> <p>FREE/NO COST 0000000<br/>IN KIND ..... 9999996<br/>DON'T KNOW . 9999998</p> |
| 80A |   | GO BACK TO 68 IN NEXT COLUMN; OR, IF NO OTHER PERSON, GO TO 81.  | GO BACK TO 68 IN NEXT COLUMN; OR, IF NO OTHER PERSON, GO TO 81.  | GO BACK TO 68 IN NEXT COLUMN OF ADDITIONAL QUESTIONNAIRE; OR, IF NO OTHER PERSON, GO TO 81.  |
| 81  | <p>Where did the money come from to pay for transportation and treatment for the (two/three) member(s) of your household who had an illness/injury over the past 30 days?</p> <p>RECORD ALL MENTIONED</p> | <p>SUBSIDY</p> <p>HEALTH EQUITY FUND ..... A</p> <p>VOUCHER ..... B</p> <p>FEE EXEMPTION ..... C</p> <p>NGO ..... D</p> <p>INSURANCE SCHEMES</p> <p>NATIONAL SOCIAL SECURITY FUND ... E</p> <p>COMMUNITY BASED HEALTH INSURANCE ..... F</p> <p>HEALTH INSURANCE THROUGH EMPLOYER ..... G</p> <p>OTHER PRIVATELY PURCHASED COMMERCIAL HEALTH INSURANCE .. H</p> <p>OUT OF POCKET</p> <p>WAGE/INCOME ..... I</p> <p>LOAN/TON TIN ..... J</p> <p>SALE OF ASSETS ..... K</p> <p>GIFT FROM RELATIVE ..... L</p> <p>SAVING ..... M</p> <p>OTHER ..... X</p> <p>(Specify)</p> |  |  |

## HOUSEHOLD CHARACTERISTICS

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP  |
|------|--|---|---|
| 101  | How often does anyone smoke inside your house?<br>Would you say daily, weekly, monthly, less than monthly, or never?         | DAILY ..... 1<br>WEEKLY ..... 2<br>MONTHLY ..... 3<br>LESS THAN MONTHLY ..... 4<br>NEVER ..... 5  |   |
| 102  | What is the main source of drinking water during the dry season for members of your household?                               | PIPED WATER<br>PIPED INTO DWELLING ..... 11<br>PIPED TO YARD/PLOT ..... 12<br>PUBLIC TAP/STANDPIPE ..... 13<br>TUBE WELL OR BOREHOLE ..... 21<br>DUG WELL<br>PROTECTED WELL ..... 31<br>UNPROTECTED WELL ..... 32<br>WATER FROM SPRING<br>PROTECTED SPRING ..... 41<br>UNPROTECTED SPRING ..... 42<br>RAINWATER ..... 51<br>TANKER TRUCK ..... 61<br>CART WITH SMALL TANK ..... 71<br>SURFACE WATER (RIVER/DAM/<br>LAKE/POND/STREAM/CANAL/<br>IRRIGATION CHANNEL) ..... 81<br>BOTTLED WATER ..... 91<br><br>OTHER _____ 96<br>(SPECIFY) | <div style="text-align: right;">→ 104A</div> <div style="text-align: right;">→ 104A</div> |
| 103  | Where is that water source located?  | IN OWN DWELLING ..... 1<br>IN OWN YARD/PLOT ..... 2<br>ELSEWHERE ..... 3  | <div style="text-align: right;">→ 104A</div>  |
| 104  | How long does it take to go there, get water, and come back?   | MINUTES ..... <div style="display: inline-block; width: 40px; height: 20px; border: 1px solid black; vertical-align: middle;"></div> <div style="display: inline-block; width: 40px; height: 20px; border: 1px solid black; vertical-align: middle;"></div> <div style="display: inline-block; width: 40px; height: 20px; border: 1px solid black; vertical-align: middle;"></div><br>DON'T KNOW ..... 998  |   |
| 104A | During the wet season, is the main source of drinking water for members of your household the same as during the dry season? | YES ..... 1<br>NO ..... 2   | <div style="text-align: right;">→ 105</div>   |
| 104B | What is the main source of drinking water during the wet season for members of your household?                               | PIPED WATER<br>PIPED INTO DWELLING ..... 11<br>PIPED TO YARD/PLOT ..... 12<br>PUBLIC TAP/STANDPIPE ..... 13<br>TUBE WELL OR BOREHOLE ..... 21<br>DUG WELL<br>PROTECTED WELL ..... 31<br>UNPROTECTED WELL ..... 32<br>WATER FROM SPRING<br>PROTECTED SPRING ..... 41<br>UNPROTECTED SPRING ..... 42<br>RAINWATER ..... 51<br>TANKER TRUCK ..... 61<br>CART WITH SMALL TANK ..... 71<br>SURFACE WATER (RIVER/DAM/<br>LAKE/POND/STREAM/CANAL/<br>IRRIGATION CHANNEL) ..... 81<br>BOTTLED WATER ..... 91<br><br>OTHER _____ 96<br>(SPECIFY) | <div style="text-align: right;">→ 105</div> <div style="text-align: right;">→ 105</div>   |

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP                           |
|------|---|--|--------------------------------|
| 104C | Where is that water source located?   | IN OWN DWELLING ..... 1<br>IN OWN YARD/PLOT ..... 2<br>ELSEWHERE ..... 3   | <input type="checkbox"/> → 105 |
| 104D | How long does it take to go there, get water, and come back?  | MINUTES ..... <input type="text"/> <input type="text"/> <input type="text"/><br><br>DON'T KNOW ..... 998   |                                |
| 105  | Do you do anything to the water to make it safer to drink?  | YES, ALWAYS ..... 1<br>YES, SOMETIME ..... 2<br>NO ..... 3<br>DON'T KNOW ..... 8   | <input type="checkbox"/> → 107 |
| 106  | What do you usually do to make the water safer to drink?<br><br>Anything else?<br><br>RECORD ALL MENTIONED. | BOIL ..... A<br>ADD BLEACH/CHLORINE ..... B<br>STRAIN THROUGH A CLOTH ..... C<br>USE WATER FILTER (CERAMIC/<br>SAND/COMPOSITE/ETC.) ..... D<br>SOLAR DISINFECTION ..... E<br>LET IT STAND AND SETTLE ..... F<br><br>OTHER _____ X<br>(SPECIFY)<br>DON'T KNOW ..... Z |                                |

| NO.                             | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
|---------------------------------|--|--|-------|-----|----|--------------|--|--|-------------------|---|---|----------|--|--|-------------|---|---|---------------|--|--|------------------|---|---|---------------------|--|--|------------------------|---|---|-------------------------|--|--|--------------------------|---|---|-----------------|--|--|--------------------|---|---|------------|--|--|----------------|---|---|--------------------------|--|--|----------------------|---|---|------------------|--|--|--------------|---|---|---------------------------------|--|--|-------------------------|---|---|--|
| 107                             | What kind of toilet facility do members of your household usually use? | FLUSH OR POUR FLUSH TOILET<br>FLUSH TO PIPED SEWER SYSTEM ..... 11<br>FLUSH TO SEPTIC TANK ..... 12<br>FLUSH TO PIT LATRINE ..... 13<br>FLUSH TO SOMEWHERE ELSE ..... 14<br>FLUSH, DON'T KNOW WHERE ..... 15<br>PIT LATRINE<br>VENTILATED IMPROVED<br>PIT LATRINE ..... 21<br>PIT LATRINE WITH SLAB ..... 22<br>PIT LATRINE WITHOUT SLAB/<br>OPEN PIT ..... 23<br>COMPOSTING TOILET ..... 31<br>BUCKET TOILET ..... 41<br>HANGING TOILET/HANGING<br>LATRINE ..... 51<br>NO FACILITY/BUSH/FIELD ..... 61<br>OTHER ..... 96<br>(SPECIFY)   | → 110 |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| 108                             | Do you share this toilet facility with other households?               | YES ..... 1<br>NO ..... 2  | → 110 |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| 109                             | How many households use this toilet facility?                          | NO. OF HOUSEHOLDS<br>IF LESS THAN 10 ..... <input type="text" value="0"/> <input type="text"/><br>10 OR MORE HOUSEHOLDS ..... 95<br>DON'T KNOW ..... 98  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| 110                             | Does your household have:  | <table border="0"> <thead> <tr> <th></th><th>YES</th><th>NO</th></tr> </thead> <tbody> <tr> <td>Electricity?</td><td></td><td></td></tr> <tr> <td>ELECTRICITY .....</td><td>1</td><td>2</td></tr> <tr> <td>A radio?</td><td></td><td></td></tr> <tr> <td>RADIO .....</td><td>1</td><td>2</td></tr> <tr> <td>A television?</td><td></td><td></td></tr> <tr> <td>TELEVISION .....</td><td>1</td><td>2</td></tr> <tr> <td>A mobile telephone?</td><td></td><td></td></tr> <tr> <td>MOBILE TELEPHONE .....</td><td>1</td><td>2</td></tr> <tr> <td>A non-mobile telephone?</td><td></td><td></td></tr> <tr> <td>NON-MOBILE TELEPHONE ...</td><td>1</td><td>2</td></tr> <tr> <td>A refrigerator?</td><td></td><td></td></tr> <tr> <td>REFRIGERATOR .....</td><td>1</td><td>2</td></tr> <tr> <td>A wardrobe</td><td></td><td></td></tr> <tr> <td>WARDROBE .....</td><td>1</td><td>2</td></tr> <tr> <td>A sewing machine or loom</td><td></td><td></td></tr> <tr> <td>SEWING MACHINE .....</td><td>1</td><td>2</td></tr> <tr> <td>A CD/DVD player?</td><td></td><td></td></tr> <tr> <td>CD/DVD .....</td><td>1</td><td>2</td></tr> <tr> <td>A generator/battery/solar panel</td><td></td><td></td></tr> <tr> <td>GENERATOR/BATTERY/SOLAR</td><td>1</td><td>2</td></tr> </tbody> </table> |       | YES | NO | Electricity? |  |  | ELECTRICITY ..... | 1 | 2 | A radio? |  |  | RADIO ..... | 1 | 2 | A television? |  |  | TELEVISION ..... | 1 | 2 | A mobile telephone? |  |  | MOBILE TELEPHONE ..... | 1 | 2 | A non-mobile telephone? |  |  | NON-MOBILE TELEPHONE ... | 1 | 2 | A refrigerator? |  |  | REFRIGERATOR ..... | 1 | 2 | A wardrobe |  |  | WARDROBE ..... | 1 | 2 | A sewing machine or loom |  |  | SEWING MACHINE ..... | 1 | 2 | A CD/DVD player? |  |  | CD/DVD ..... | 1 | 2 | A generator/battery/solar panel |  |  | GENERATOR/BATTERY/SOLAR | 1 | 2 |  |
|                                 | YES  | NO   |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| Electricity?                    |  |  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| ELECTRICITY .....               | 1  | 2  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| A radio?                        |  |  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| RADIO .....                     | 1  | 2  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| A television?                   |  |  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| TELEVISION .....                | 1  | 2  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| A mobile telephone?             |  |  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| MOBILE TELEPHONE .....          | 1  | 2  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| A non-mobile telephone?         |  |  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| NON-MOBILE TELEPHONE ...        | 1  | 2  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| A refrigerator?                 |  |  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| REFRIGERATOR .....              | 1  | 2  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| A wardrobe                      |  |  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| WARDROBE .....                  | 1  | 2  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| A sewing machine or loom        |  |  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| SEWING MACHINE .....            | 1  | 2  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| A CD/DVD player?                |  |  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| CD/DVD .....                    | 1  | 2  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| A generator/battery/solar panel |  |  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| GENERATOR/BATTERY/SOLAR         | 1  | 2  |       |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |
| 111                             | What type of fuel does your household mainly use for cooking?          | ELECTRICITY ..... 01<br>LPG ..... 02<br>BIOGAS ..... 03<br>KEROSENE ..... 04<br>COAL, LIGNITE ..... 05<br>CHARCOAL ..... 06<br>WOOD ..... 07<br>STRAW/SHRUBS/GRASS ..... 08<br>AGRICULTURAL CROP ..... 09<br>ANIMAL DUNG ..... 10<br>NO FOOD COOKED<br>IN HOUSEHOLD ..... 95<br>OTHER ..... 96<br>(SPECIFY)  | → 114 |     |    |              |  |  |                   |   |   |          |  |  |             |   |   |               |  |  |                  |   |   |                     |  |  |                        |   |   |                         |  |  |                          |   |   |                 |  |  |                    |   |   |            |  |  |                |   |   |                          |  |  |                      |   |   |                  |  |  |              |   |   |                                 |  |  |                         |   |   |  |

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP                                      |
|-----|--|---|---|
| 112 | Is the cooking usually done in the house, in a separate building, or outdoors? | IN THE HOUSE ..... 1<br>IN A SEPARATE BUILDING ..... 2<br>OUTDOORS ..... 3<br><br>OTHER ..... 6<br>(SPECIFY)  | <div> <div></div> <div>→ 114</div> </div> |
| 113 | Do you have a separate room which is used as a kitchen?                        | YES ..... 1<br>NO ..... 2   |   |
| 114 | MAIN MATERIAL OF THE FLOOR.<br><br>RECORD OBSERVATION.                         | NATURAL FLOOR<br>EARTH/SAND/CLAY ..... 11<br>DUNG ..... 12<br>RUDIMENTARY FLOOR<br>WOOD PLANKS ..... 21<br>PALM/BAMBOO ..... 22<br>FINISHED FLOOR<br>PARQUET OR POLISHED<br>WOOD ..... 31<br>VINYL OR ASPHALT STRIPS ..... 32<br>CERAMIC TILES ..... 33<br>CEMENT TILES ..... 34<br>CEMENT ..... 35<br>FLOATING HOUSE ..... 41<br><br>OTHER ..... 96<br>(SPECIFY)                             |   |
| 115 | MAIN MATERIAL OF THE ROOF.<br><br>RECORD OBSERVATION.                          | NATURAL ROOFING<br>NO ROOF ..... 11<br>BAMBOO/THATCH/PALM LEAF ..... 12<br>RUDIMENTARY ROOFING<br>RUSTIC MAT ..... 21<br>WOOD PLANKS ..... 22<br>CARDBOARD ..... 23<br>PLASTIC SHEET ..... 24<br>FINISHED ROOFING<br>METAL ..... 31<br>WOOD ..... 32<br>CALAMINE/CEMENT FIBER ..... 33<br>CERAMIC TILES ..... 34<br>CLAY TILES ..... 35<br>CEMENT ..... 36<br><br>OTHER ..... 96<br>(SPECIFY) |   |

| NO.                      | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP      |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
|--------------------------|--|---|-----------|-----|---|-------------|---|--|---------------------|---|--|------------------------|---|---|---|---|---|--------------------------|---|---|--|---|----------|-----------------------|---|---|------------------------|---|---|---|--|--|-----|---|---|--|--|--|--|---|--|--|------|---|---|--|--|--|--|---|--|--|------------------|--|---------|--|--|--|--|
| 116                      | MAIN MATERIAL OF THE EXTERIOR WALLS.<br><br>RECORD OBSERVATION.  | NATURAL WALLS<br>NO WALLS ..... 11<br>PALM/BAMBOO/THACH ..... 12<br>DIRT ..... 13<br>RUDIMENTARY WALLS<br>BAMBOO WITH MUD ..... 21<br>STRAW WITH MUD ..... 22<br>STONE WITH MUD ..... 23<br>UNCOVERED ADOBE ..... 24<br>PLYWOOD ..... 25<br>CARDBOARD ..... 26<br>REUSED WOOD ..... 27<br>METAL ..... 28<br>FINISHED WALLS<br>CEMENT ..... 31<br>STONE WITH LIME/CEMENT ..... 32<br>BRICKS ..... 33<br>CEMENT BLOCKS ..... 34<br>COVERED ADOBE ..... 35<br>WOOD PLANKS/SHINGLES ..... 36<br><br>OTHER ..... 96<br>(SPECIFY)   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| 117                      | How many rooms in this household are used for sleeping?  | ROOMS ..... <table border="1"><tr><td></td><td></td></tr></table>   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
|                          |  |   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| 118                      | Does any member of this household own:<br><br>A watch?<br>A bicycle or cyclo?<br>A motorcycle or motor scooter?<br>A motorcycle-cart<br>A oxcart or horsecart?<br>A car or truck, tractor or van?<br>A boat with a motor?<br>A boat without a motor? | <table><tr><td></td><td>YES</td><td>NO</td></tr><tr><td>WATCH .....</td><td>1</td><td>2</td></tr><tr><td>BICYCLE/CYCLO .....</td><td>1</td><td>2</td></tr><tr><td>MOTORCYCLE/SCOOTER ...</td><td>1</td><td>2</td></tr><tr><td>MOTORCYCLE-CART .....</td><td>1</td><td>2</td></tr><tr><td>OX CART/HORSE CART .....</td><td>1</td><td>2</td></tr><tr><td>CAR/TRUCK/TRACTOR/VAN .</td><td>1</td><td>2</td></tr><tr><td>BOAT WITH MOTOR .....</td><td>1</td><td>2</td></tr><tr><td>BOAT WITHOUT MOTOR ...</td><td>1</td><td>2</td></tr></table>   |           | YES | NO  | WATCH ..... | 1 | 2  | BICYCLE/CYCLO ..... | 1 | 2  | MOTORCYCLE/SCOOTER ... | 1 | 2 | MOTORCYCLE-CART .....   | 1 | 2 | OX CART/HORSE CART ..... | 1 | 2 | CAR/TRUCK/TRACTOR/VAN .                      | 1 | 2        | BOAT WITH MOTOR ..... | 1   | 2 | BOAT WITHOUT MOTOR ... | 1 | 2 |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
|                          | YES  | NO  |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| WATCH .....              | 1  | 2   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| BICYCLE/CYCLO .....      | 1  | 2   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| MOTORCYCLE/SCOOTER ...   | 1  | 2   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| MOTORCYCLE-CART .....    | 1  | 2   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| OX CART/HORSE CART ..... | 1  | 2   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| CAR/TRUCK/TRACTOR/VAN .  | 1  | 2   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| BOAT WITH MOTOR .....    | 1  | 2   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| BOAT WITHOUT MOTOR ...   | 1  | 2   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| 119                      | Does any member of this household own any agricultural land?   | YES ..... 1<br>NO ..... 2   | → 121     |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| 120                      | How many hectares of agricultural land do members of this household own?   | <table><tr><td>SQ. METER</td><td>1</td><td><table border="1"><tr><td></td><td></td><td></td><td></td></tr></table></td><td>.</td><td><table border="1"><tr><td></td></tr></table></td></tr><tr><td>A</td><td>2</td><td><table border="1"><tr><td></td><td></td><td></td><td></td></tr></table></td><td>.</td><td><table border="1"><tr><td></td></tr></table></td></tr><tr><td>HECTARES</td><td>3</td><td><table border="1"><tr><td></td><td></td><td></td><td></td></tr></table></td><td>.</td><td><table border="1"><tr><td></td></tr></table></td></tr><tr><td>RAY</td><td>4</td><td><table border="1"><tr><td></td><td></td><td></td><td></td></tr></table></td><td>.</td><td><table border="1"><tr><td></td></tr></table></td></tr><tr><td>KONG</td><td>5</td><td><table border="1"><tr><td></td><td></td><td></td><td></td></tr></table></td><td>.</td><td><table border="1"><tr><td></td></tr></table></td></tr><tr><td colspan="2">DON'T KNOW .....</td><td colspan="4">.999998</td></tr></table> | SQ. METER | 1   | <table border="1"><tr><td></td><td></td><td></td><td></td></tr></table> |             |   |  |                     | . | <table border="1"><tr><td></td></tr></table> |                        | A | 2 | <table border="1"><tr><td></td><td></td><td></td><td></td></tr></table> |   |   |                          |   | . | <table border="1"><tr><td></td></tr></table> |   | HECTARES | 3                     | <table border="1"><tr><td></td><td></td><td></td><td></td></tr></table> |   |                        |   |   | . | <table border="1"><tr><td></td></tr></table> |  | RAY | 4 | <table border="1"><tr><td></td><td></td><td></td><td></td></tr></table> |  |  |  |  | . | <table border="1"><tr><td></td></tr></table> |  | KONG | 5 | <table border="1"><tr><td></td><td></td><td></td><td></td></tr></table> |  |  |  |  | . | <table border="1"><tr><td></td></tr></table> |  | DON'T KNOW ..... |  | .999998 |  |  |  |  |
| SQ. METER                | 1  | <table border="1"><tr><td></td><td></td><td></td><td></td></tr></table>   |           |     |   |             | . | <table border="1"><tr><td></td></tr></table> |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
|                          |  |   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
|                          |  |   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| A                        | 2  | <table border="1"><tr><td></td><td></td><td></td><td></td></tr></table>   |           |     |   |             | . | <table border="1"><tr><td></td></tr></table> |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
|                          |  |   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
|                          |  |   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| HECTARES                 | 3  | <table border="1"><tr><td></td><td></td><td></td><td></td></tr></table>   |           |     |   |             | . | <table border="1"><tr><td></td></tr></table> |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
|                          |  |   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
|                          |  |   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| RAY                      | 4  | <table border="1"><tr><td></td><td></td><td></td><td></td></tr></table>   |           |     |   |             | . | <table border="1"><tr><td></td></tr></table> |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
|                          |  |   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
|                          |  |   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| KONG                     | 5  | <table border="1"><tr><td></td><td></td><td></td><td></td></tr></table>   |           |     |   |             | . | <table border="1"><tr><td></td></tr></table> |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
|                          |  |   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
|                          |  |   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| DON'T KNOW .....         |  | .999998   |           |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |
| 121                      | Does this household own any livestock, herds, other farm animals, or poultry?  | YES ..... 1<br>NO ..... 2   | → 123     |     |   |             |   |  |                     |   |  |                        |   |   |   |   |   |                          |   |   |  |   |          |                       |   |   |                        |   |   |   |  |  |     |   |   |  |  |  |  |   |  |  |      |   |   |  |  |  |  |   |  |  |                  |  |         |  |  |  |  |

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 122 | <p>How many of the following animals does this household own?</p> <p>IF NONE, ENTER '00'.<br/>IF 95 OR MORE, ENTER '95'.<br/>IF UNKNOWN, ENTER '98'.</p> <p>Water buffalo</p> <p>Cows or bulls?</p> <p>Horses, donkeys, or mules?</p> <p>Goats/sheep?</p> <p>Pigs?</p> <p>Chickens or ducks?</p> <p>Elephant?</p> <p>Other _____<br/>specify</p> | <p>WATER BUFFALO ..... <table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></p> <p>COWS/BULLS ..... <table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></p> <p>HORSES/DONKEYS/MULES ..... <table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></p> <p>GOATS/SHEEPS ..... <table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></p> <p>PIGS ..... <table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></p> <p>CHICKENS/DUGS ..... <table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></p> <p>ELEPHANT ..... <table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></p> <p>OTHER ..... <table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></p> |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 123 | <p>Does any member of this household have a bank account?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p>   |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| NO.                                 | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP  |                  |                      |    |                   |   |   |   |                                     |   |   |   |  |
|-------------------------------------|---|--|-------|------------------|----------------------|----|-------------------|---|---|---|-------------------------------------|---|---|---|--|
| 137                                 | Please show me where members of your household most often wash their hands.   | OBSERVED ..... 1<br>NOT OBSERVED,<br>NOT IN DWELLING/YARD/PLOT ..... 2<br>NOT OBSERVED,<br>NO PERMISSION TO SEE ..... 3<br>NOT OBSERVED, OTHER REASON ..... 4  | → 140 |                  |                      |    |                   |   |   |   |                                     |   |   |   |  |
| 138                                 | OBSERVATION ONLY:<br><br>OBSERVE PRESENCE OF WATER AT THE SPECIFIC PLACE FOR HANDWASHING.   | WATER IS AVAILABLE ..... 1<br>WATER IS NOT AVAILABLE ..... 2   |       |                  |                      |    |                   |   |   |   |                                     |   |   |   |  |
| 139                                 | OBSERVATION ONLY:<br><br>OBSERVE PRESENCE OF SOAP, DETERGENT, OR OTHER CLEANSING AGENT.   | SOAP OR DETERGENT<br>(BAR, LIQUID, POWDER, PASTE) ..... A<br>ASH, MUD, SAND ..... B<br>NONE ..... C  |       |                  |                      |    |                   |   |   |   |                                     |   |   |   |  |
| 140                                 | ASK RESPONDENT FOR A TEASPOONFUL OF COOKING SALT.<br><br>TEST SALT FOR IODINE.  | IODINE PRESENT ..... 1<br>NO IODINE ..... 2<br><br>NO SALT IN HOUSEHOLD ..... 3<br><br>SALT NOT TESTED ..... 6<br>(SPECIFY REASON)   |       |                  |                      |    |                   |   |   |   |                                     |   |   |   |  |
| 141                                 | ASK RESPONDENT TO SEE THE PACKAGE OR CAN OF THE COOKING SALT, AND CHECK THE LABEL.  | LABELED IODIZED SALT ..... 1<br>NOT LABELED IODIZED SALT ..... 2<br><br>NO SALT PACKAGE/CAN IN<br>HOUSEHOLD ..... 3  |       |                  |                      |    |                   |   |   |   |                                     |   |   |   |  |
| 142                                 | Has this household been identified as poor through the Identification of Poor Households process conducted by village representatives, and been placed on the List of Poor Households or received an Equity Card or Priority Access Card?<br><br>ASK TO SEE THE EQUITY, PRIORITY ACCESS CARD AND OTHER CARD INCLUDE POST-IDENTIFICATION | <table> <tr> <td></td><td>YES CARD<br/>SEEN</td><td>YES CARD<br/>NOT SEEN</td><td>NO</td></tr> <tr> <td>A. EQUITY<br/>CARD</td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>B. PRIORITY<br/>ACCESS<br/>CARD/OTHER</td><td>1</td><td>2</td><td>3</td></tr> </table> |       | YES CARD<br>SEEN | YES CARD<br>NOT SEEN | NO | A. EQUITY<br>CARD | 1 | 2 | 3 | B. PRIORITY<br>ACCESS<br>CARD/OTHER | 1 | 2 | 3 |  |
|                                     | YES CARD<br>SEEN  | YES CARD<br>NOT SEEN   | NO    |                  |                      |    |                   |   |   |   |                                     |   |   |   |  |
| A. EQUITY<br>CARD                   | 1   | 2  | 3     |                  |                      |    |                   |   |   |   |                                     |   |   |   |  |
| B. PRIORITY<br>ACCESS<br>CARD/OTHER | 1   | 2  | 3     |                  |                      |    |                   |   |   |   |                                     |   |   |   |  |
| 143                                 | Do members of this household receive free or subsidized health care that other people would normally have to pay for?   | YES, FREE ..... 1<br>YES, SUBSIDIZED ..... 2<br>NO ..... 3   | → 145 |                  |                      |    |                   |   |   |   |                                     |   |   |   |  |
| 144                                 | What are free and/or subsidized health care that any member of this household received?   | HEALTH EQUITY FUNDS ..... A<br>COMMUNITY BASED HEALTH<br>INSURANCE ..... B<br>MATERNITY VOUCHER ..... C<br>OTHER ..... D<br>SPECIFY  |       |                  |                      |    |                   |   |   |   |                                     |   |   |   |  |



**FOR HOUSEHOLD SELECTED FOR MALE INTERVIEW AND SECTION DV OF THE WOMEN QUESTIONNAIRE**

LOOK AT THE LAST DIGIT OF THE HOUSEHOLD QUESTIONNAIRE SERIAL NUMBER ON THE COVER PAGE. THIS IS THE ROW NUMBER YOU SHOULD GO TO. CHECK THE TOTAL NUMBER OF ELIGIBLE WOMEN (COLUMN 9) IN THE HOUSEHOLD SCHEDULE. THIS IS THE COLUMN NUMBER YOU SHOULD GO TO. FOLLOW THE SELECTED ROW AND COLUMN TO THE CELL WHERE THEY MEET AND CIRCLE THE NUMBER IN THE CELL. THIS IS THE NUMBER OF THE WOMAN SELECTED FOR THE DOMESTIC VIOLENCE QUESTIONS FROM THE LIST OF ELIGIBLE WOMEN IN COLUMN 9 OF THE HOUSEHOLD SCHEDULE. WRITE THE NAME AND LINE NUMBER OF THE SELECTED WOMAN IN THE SPACE BELOW THE TABLE.

EXAMPLE: THE HOUSEHOLD QUESTIONNAIRE SERIAL NUMBER IS '716' AND THE HOUSEHOLD SCHEDULE COLUMN 9 SHOWS THAT THERE ARE THREE ELIGIBLE WOMEN AGE 15-49 IN THE HOUSEHOLD (LINE NUMBERS 02, 04, AND 05). SINCE THE LAST DIGIT OF THE HOUSEHOLD SERIAL NUMBER IS '6' GO TO ROW '6' AND SINCE THERE ARE THREE ELIGIBLE WOMEN IN THE HOUSEHOLD, GO TO COLUMN '3'. FOLLOW THE ROW AND COLUMN AND FIND THE NUMBER IN THE CELL WHERE THEY MEET ('2') AND CIRCLE THE NUMBER. NOW GO TO THE HOUSEHOLD SCHEDULE AND FIND THE SECOND WOMAN WHO IS ELIGIBLE FOR THE WOMAN'S INTERVIEW (LINE NUMBER '04' IN THIS EXAMPLE). WRITE HER NAME AND LINE NUMBER IN THE SPACE BELOW THE TABLE.

| LAST DIGIT OF THE<br>HOUSEHOLD<br>QUESTIONNAIRE<br>SERIAL NUMBER | TOTAL NUMBER OF ELIGIBLE WOMEN AGE 15-49 IN HOUSEHOLD SCHEDULE COLUMN 9 |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|
|  | 1   | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 0  | 1   | 2 | 2 | 4 | 3 | 6 | 5 | 4 |
| 1  | 1   | 1 | 3 | 1 | 4 | 1 | 6 | 5 |
| 2  | 1   | 2 | 1 | 2 | 5 | 2 | 7 | 6 |
| 3  | 1   | 1 | 2 | 3 | 1 | 3 | 1 | 7 |
| 4  | 1   | 2 | 3 | 4 | 2 | 4 | 2 | 8 |
| 5  | 1   | 1 | 1 | 1 | 3 | 5 | 3 | 1 |
| 6  | 1   | 2 | 2 | 2 | 4 | 6 | 4 | 2 |
| 7  | 1   | 1 | 3 | 3 | 5 | 1 | 5 | 3 |
| 8  | 1   | 2 | 1 | 4 | 1 | 2 | 6 | 4 |
| 9  | 1   | 1 | 2 | 1 | 2 | 3 | 7 | 5 |

NAME OF SELECTED WOMAN \_\_\_\_\_

HH LINE NUMBER OF SELECTED WOMAN .....

|  |  |
|--|--|
|  |  |
|--|--|

**CHECK COVER PAGE TO SEE IF HOUSEHOLD IS SELECTED FOR ANEMIA AND ANTHROPOMETRY**

|     |  |
|-----|--|
| 200 | <p>CHECK COVER PAGE OF HOUSEHOLD QUESTIONNAIRE:</p> <div style="display: flex; justify-content: space-between; align-items: flex-start; margin-top: 10px;"> <div style="width: 45%;"> <p>HOUSEHOLD SELECTED FOR ANEMIA TEST<br/>AND ANTHROPOMETRIC MEASUREMENTS</p> <div style="border: 1px solid black; width: 20px; height: 20px; margin-left: 10px;"></div> <div style="text-align: center; margin-top: 10px;">↓</div> </div> <div style="width: 45%;"> <p>HOUSEHOLD IS NOT SELECTED FOR ANEMIA<br/>TEST AND ANTHROPOMETRIC MEASUREMENTS</p> <div style="border: 1px solid black; width: 20px; height: 20px; margin-left: 10px;"></div> <div style="text-align: center; margin-top: 10px;">↓</div> <p style="margin-top: 5px;">GO TO 242A</p> </div> </div> |
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**WEIGHT, HEIGHT AND HEMOGLOBIN MEASUREMENT FOR CHILDREN AGE 0-5**

|   |  |   |   |   |   |                    |            |            |            |
|---|--|---|---|---|---|--------------------|------------|------------|------------|
| 201   | <p>CHECK COLUMN 11 IN HOUSEHOLD SCHEDULE. RECORD THE LINE NUMBER AND NAME FOR ALL ELIGIBLE CHILDREN 0-5 YEARS IN QUESTION 202. IF MORE THAN SIX CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S).</p>   |   |   |   |   |                    |            |            |            |
|   | <div style="display: flex; justify-content: space-around;"> <div>CHILD 1</div> <div>CHILD 2</div> <div>CHILD 3</div> </div>  |   |   |   |   |                    |            |            |            |
| 202   | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">LINE NUMBER FROM COLUMN 11</td> <td style="width: 20%;">LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div></td> <td style="width: 20%;">LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div></td> <td style="width: 20%;">LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div></td> </tr> <tr> <td>NAME FROM COLUMN 2</td> <td>NAME .....</td> <td>NAME .....</td> <td>NAME .....</td> </tr> </table>   | LINE NUMBER FROM COLUMN 11  | LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>  | LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>  | LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>  | NAME FROM COLUMN 2 | NAME ..... | NAME ..... | NAME ..... |
| LINE NUMBER FROM COLUMN 11  | LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>   | LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>  | LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>  |   |   |                    |            |            |            |
| NAME FROM COLUMN 2  | NAME .....   | NAME .....  | NAME .....  |   |   |                    |            |            |            |
| 203   | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">IF MOTHER INTERVIEWED, COPY MONTH AND YEAR OF BIRTH FROM BIRTH HISTORY AND ASK DAY; IF MOTHER NOT INTERVIEWED, ASK:<br/>What is (NAME's) birth date?</td> <td style="width: 20%;"> DAY ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br/> MONTH ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br/> YEAR <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> </td> <td style="width: 20%;"> DAY ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br/> MONTH ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br/> YEAR <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> </td> <td style="width: 20%;"> DAY ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br/> MONTH ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br/> YEAR <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> </td> </tr> </table> | IF MOTHER INTERVIEWED, COPY MONTH AND YEAR OF BIRTH FROM BIRTH HISTORY AND ASK DAY; IF MOTHER NOT INTERVIEWED, ASK:<br>What is (NAME's) birth date?   | DAY ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>MONTH ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>YEAR <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> | DAY ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>MONTH ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>YEAR <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> | DAY ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>MONTH ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>YEAR <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |                    |            |            |            |
| IF MOTHER INTERVIEWED, COPY MONTH AND YEAR OF BIRTH FROM BIRTH HISTORY AND ASK DAY; IF MOTHER NOT INTERVIEWED, ASK:<br>What is (NAME's) birth date? | DAY ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>MONTH ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>YEAR <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>  | DAY ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>MONTH ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>YEAR <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> | DAY ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>MONTH ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>YEAR <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |   |   |                    |            |            |            |
| 204   | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">CHECK 203:<br/>CHILD BORN IN JANUARY 2009 OR LATER?</td> <td style="width: 20%;"> YES ..... 1<br/> NO ..... 2<br/> (GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214) </td> <td style="width: 20%;"> YES ..... 1<br/> NO ..... 2<br/> (GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214) </td> <td style="width: 20%;"> YES ..... 1<br/> NO ..... 2<br/> (GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214) </td> </tr> </table>   | CHECK 203:<br>CHILD BORN IN JANUARY 2009 OR LATER?  | YES ..... 1<br>NO ..... 2<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)  | YES ..... 1<br>NO ..... 2<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)  | YES ..... 1<br>NO ..... 2<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)  |                    |            |            |            |
| CHECK 203:<br>CHILD BORN IN JANUARY 2009 OR LATER?  | YES ..... 1<br>NO ..... 2<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)   | YES ..... 1<br>NO ..... 2<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)  | YES ..... 1<br>NO ..... 2<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)  |   |   |                    |            |            |            |
| 205   | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">WEIGHT IN KILOGRAMS</td> <td style="width: 20%;"> KG. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <br/> NOT PRESENT ... 9994<br/> REFUSED ..... 9995<br/> OTHER ..... 9996 </td> <td style="width: 20%;"> KG. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <br/> NOT PRESENT ... 9994<br/> REFUSED ..... 9995<br/> OTHER ..... 9996 </td> <td style="width: 20%;"> KG. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <br/> NOT PRESENT ... 9994<br/> REFUSED ..... 9995<br/> OTHER ..... 9996 </td> </tr> </table>   | WEIGHT IN KILOGRAMS   | KG. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>NOT PRESENT ... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996   | KG. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>NOT PRESENT ... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996   | KG. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>NOT PRESENT ... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996   |                    |            |            |            |
| WEIGHT IN KILOGRAMS   | KG. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>NOT PRESENT ... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  | KG. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>NOT PRESENT ... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996   | KG. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>NOT PRESENT ... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996   |   |   |                    |            |            |            |
| 206   | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">HEIGHT IN CENTIMETERS</td> <td style="width: 20%;"> CM. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <br/> NOT PRESENT ... 9994<br/> REFUSED ..... 9995<br/> OTHER ..... 9996 </td> <td style="width: 20%;"> CM. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <br/> NOT PRESENT ... 9994<br/> REFUSED ..... 9995<br/> OTHER ..... 9996 </td> <td style="width: 20%;"> CM. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <br/> NOT PRESENT ... 9994<br/> REFUSED ..... 9995<br/> OTHER ..... 9996 </td> </tr> </table>   | HEIGHT IN CENTIMETERS   | CM. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>NOT PRESENT ... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996   | CM. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>NOT PRESENT ... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996   | CM. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>NOT PRESENT ... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996   |                    |            |            |            |
| HEIGHT IN CENTIMETERS   | CM. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>NOT PRESENT ... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  | CM. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>NOT PRESENT ... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996   | CM. <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div><br>NOT PRESENT ... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996   |   |   |                    |            |            |            |
| 207   | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">MEASURED LYING DOWN OR STANDING UP?</td> <td style="width: 20%;"> LYING DOWN ..... 1<br/> STANDING UP ..... 2<br/> NOT MEASURED ..... 3 </td> <td style="width: 20%;"> LYING DOWN ..... 1<br/> STANDING UP ..... 2<br/> NOT MEASURED ..... 3 </td> <td style="width: 20%;"> LYING DOWN ..... 1<br/> STANDING UP ..... 2<br/> NOT MEASURED ..... 3 </td> </tr> </table>  | MEASURED LYING DOWN OR STANDING UP?   | LYING DOWN ..... 1<br>STANDING UP ..... 2<br>NOT MEASURED ..... 3   | LYING DOWN ..... 1<br>STANDING UP ..... 2<br>NOT MEASURED ..... 3   | LYING DOWN ..... 1<br>STANDING UP ..... 2<br>NOT MEASURED ..... 3   |                    |            |            |            |
| MEASURED LYING DOWN OR STANDING UP?   | LYING DOWN ..... 1<br>STANDING UP ..... 2<br>NOT MEASURED ..... 3  | LYING DOWN ..... 1<br>STANDING UP ..... 2<br>NOT MEASURED ..... 3   | LYING DOWN ..... 1<br>STANDING UP ..... 2<br>NOT MEASURED ..... 3   |   |   |                    |            |            |            |
| 208   | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">CHECK 203:<br/>IS CHILD AGE 0-5 MONTHS, I.E., WAS CHILD BORN IN MONTH OF INTERVIEW OR FIVE PREVIOUS MONTHS?</td> <td style="width: 20%;"> 0-5 MONTHS ..... 1<br/> (GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)<br/> OLDER ..... 2 </td> <td style="width: 20%;"> 0-5 MONTHS ..... 1<br/> (GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)<br/> OLDER ..... 2 </td> <td style="width: 20%;"> 0-5 MONTHS ..... 1<br/> (GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)<br/> OLDER ..... 2 </td> </tr> </table>   | CHECK 203:<br>IS CHILD AGE 0-5 MONTHS, I.E., WAS CHILD BORN IN MONTH OF INTERVIEW OR FIVE PREVIOUS MONTHS?  | 0-5 MONTHS ..... 1<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)<br>OLDER ..... 2  | 0-5 MONTHS ..... 1<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)<br>OLDER ..... 2  | 0-5 MONTHS ..... 1<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)<br>OLDER ..... 2  |                    |            |            |            |
| CHECK 203:<br>IS CHILD AGE 0-5 MONTHS, I.E., WAS CHILD BORN IN MONTH OF INTERVIEW OR FIVE PREVIOUS MONTHS?  | 0-5 MONTHS ..... 1<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)<br>OLDER ..... 2   | 0-5 MONTHS ..... 1<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)<br>OLDER ..... 2  | 0-5 MONTHS ..... 1<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214)<br>OLDER ..... 2  |   |   |                    |            |            |            |
| 209   | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">LINE NUMBER OF PARENT/ OTHER ADULT RESPONSIBLE FOR THE CHILD (FROM COLUMN 1 OF HOUSEHOLD SCHEDULE.) RECORD '00' IF NOT LISTED.</td> <td style="width: 20%;">LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div></td> <td style="width: 20%;">LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div></td> <td style="width: 20%;">LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div></td> </tr> </table>  | LINE NUMBER OF PARENT/ OTHER ADULT RESPONSIBLE FOR THE CHILD (FROM COLUMN 1 OF HOUSEHOLD SCHEDULE.) RECORD '00' IF NOT LISTED.  | LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>  | LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>  | LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>  |                    |            |            |            |
| LINE NUMBER OF PARENT/ OTHER ADULT RESPONSIBLE FOR THE CHILD (FROM COLUMN 1 OF HOUSEHOLD SCHEDULE.) RECORD '00' IF NOT LISTED.                      | LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>   | LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>  | LINE NUMBER ..... <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>  |   |   |                    |            |            |            |

**WEIGHT, HEIGHT AND HEMOGLOBIN MEASUREMENT FOR CHILDREN AGE 0-5**

|     |  | CHILD 1  | CHILD 2  | CHILD 3  |  |  |  |  |  |  |  |  |  |
|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 210 | ASK CONSENT FOR ANEMIA TEST FROM PARENT/OTHER ADULT IDENTIFIED IN 209 AS RESPONSIBLE FOR CHILD.                              | <p>As part of this survey, we are asking people all over the country to take an anemia test. Anemia is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat anemia.</p> <p>We ask that all children born in 2009 or later take part in anemia testing in this survey and give a few drops of blood from a finger or heel. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test.</p> <p>The blood will be tested for anemia immediately, and the result will be told to you right away. The result will be kept strictly confidential and will not be shared with anyone other than members of our survey team.</p> <p>Do you have any questions?</p> <p>You can say yes to the test, or you can say no. It is up to you to decide.</p> <p>Will you allow (NAME OF CHILD/NAMES OF CHILDREN) to participate in the anemia test?</p> |  |  |  |  |  |  |  |  |  |  |  |
| 211 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.  | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2   | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2 | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2 |  |  |  |  |  |  |  |  |  |
| 212 | RECORD HEMOGLOBIN LEVEL HERE AND IN THE ANEMIA PAMPHLET (11).  | G/DL <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> . <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td></tr></table><br>NOT PRESENT .....994<br>REFUSED .....995<br>OTHER .....996   |  |  |  | G/DL <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> . <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td></tr></table><br>NOT PRESENT .....994<br>REFUSED .....995<br>OTHER .....996 |  |  |  | G/DL <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td></tr></table> . <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td></tr></table><br>NOT PRESENT .....994<br>REFUSED .....995<br>OTHER .....996 |  |  |  |
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|     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 213 | GO BACK TO 203 IN NEXT COLUMN OF THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF THE NEXT PAGE; IF NO MORE CHILDREN, GO TO 214. |  |  |  |  |  |  |  |  |  |  |  |  |

**WEIGHT, HEIGHT AND HEMOGLOBIN MEASUREMENT FOR CHILDREN AGE 0-5**

|     |   | CHILD 4  | CHILD 5  | CHILD 6  |
|-----|---|--|--|--|
| 202 | LINE NUMBER FROM COLUMN 11<br><br>NAME FROM COLUMN 2  | LINE NUMBER ..... <input type="text"/> <input type="text"/><br>NAME _____  | LINE NUMBER ..... <input type="text"/> <input type="text"/><br>NAME _____  | LINE NUMBER ..... <input type="text"/> <input type="text"/><br>NAME _____  |
| 203 | IF MOTHER INTERVIEWED, COPY MONTH AND YEAR OF BIRTH FROM BIRTH HISTORY AND ASK DAY; IF MOTHER NOT INTERVIEWED, ASK:<br>What is (NAME'S) birth date? | DAY ..... <input type="text"/> <input type="text"/><br>MONTH ..... <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | DAY ..... <input type="text"/> <input type="text"/><br>MONTH ..... <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | DAY ..... <input type="text"/> <input type="text"/><br>MONTH ..... <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> |
| 204 | CHECK 203:<br>CHILD BORN IN JANUARY 2009 OR LATER?  | YES ..... 1<br>NO ..... 2<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214) ←   | YES ..... 1<br>NO ..... 2<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214) ←   | YES ..... 1<br>NO ..... 2<br>(GO TO 203 IN FIRST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE CHILDREN, GO TO 214) ←  |
| 205 | WEIGHT IN KILOGRAMS   | KG. <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/><br><br>NOT PRESENT ..... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  | KG. <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/><br><br>NOT PRESENT ..... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  | KG. <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/><br><br>NOT PRESENT ..... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  |
| 206 | HEIGHT IN CENTIMETERS   | CM. <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/><br><br>NOT PRESENT ..... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  | CM. <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/><br><br>NOT PRESENT ..... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  | CM. <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/><br><br>NOT PRESENT ..... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996  |
| 207 | MEASURED LYING DOWN OR STANDING UP?   | LYING DOWN ..... 1<br>STANDING UP ..... 2<br>NOT MEASURED ..... 3  | LYING DOWN ..... 1<br>STANDING UP ..... 2<br>NOT MEASURED ..... 3  | LYING DOWN ..... 1<br>STANDING UP ..... 2<br>NOT MEASURED ..... 3  |
| 208 | CHECK 203:<br>IS CHILD AGE 0-5 MONTHS, I.E., WAS CHILD BORN IN MONTH OF INTERVIEW OR FIVE PREVIOUS MONTHS?  | 0-5 MONTHS ..... 1<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214) ←<br><br>OLDER ..... 2   | 0-5 MONTHS ..... 1<br>(GO TO 203 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 214) ←<br><br>OLDER ..... 2   | 0-5 MONTHS ..... 1<br>(GO TO 203 IN FIRST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE CHILDREN, GO TO 214) ←<br><br>OLDER ..... 2  |
| 209 | LINE NUMBER OF PARENT/ OTHER ADULT RESPONSIBLE FOR THE CHILD (FROM COLUMN 1 OF HOUSEHOLD SCHEDULE) RECORD '00' IF NOT LISTED.                       | LINE NUMBER ..... <input type="text"/> <input type="text"/>  | LINE NUMBER ..... <input type="text"/> <input type="text"/>  | LINE NUMBER ..... <input type="text"/> <input type="text"/>  |

**WEIGHT, HEIGHT AND HEMOGLOBIN MEASUREMENT FOR CHILDREN AGE 0-5**

|     |  | CHILD 4   | CHILD 5   | CHILD 6   |
|-----|--|---|---|---|
| 210 | ASK CONSENT FOR ANEMIA TEST FROM PARENT/OTHER ADULT IDENTIFIED IN 209 AS RESPONSIBLE FOR CHILD.  | <p>As part of this survey, we are asking people all over the country to take an anemia test. Anemia is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat anemia.</p> <p>We ask that all children born in 2009 or later take part in anemia testing in this survey and give a few drops of blood from a finger or heel. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test.</p> <p>The blood will be tested for anemia immediately, and the result told to you right away. The result will be kept strictly confidential and will not be shared with anyone other than members of our survey team.</p> <p>Do you have any questions?</p> <p>You can say yes to the test, or you can say no. It is up to you to decide.</p> <p>Will you allow (NAME(S) OF CHILD(REN) to participate in the anemia test?</p> |   |   |
| 211 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.  | GRANTED 1<br>_____ ←  <br>(SIGN)<br>REFUSED ..... 2   | GRANTED 1<br>_____ ←  <br>(SIGN)<br>REFUSED ..... 2   | GRANTED 1<br>_____ ←  <br>(SIGN)<br>REFUSED ..... 2   |
| 212 | RECORD HEMOGLOBIN LEVEL HERE AND IN THE ANEMIA PAMPHLET.   | G/DL <input type="text"/> <input type="text"/> <input type="text"/><br>NOT PRESENT .....994<br>REFUSED .....995<br>OTHER .....996   | G/DL <input type="text"/> <input type="text"/> <input type="text"/><br>NOT PRESENT .....994<br>REFUSED .....995<br>OTHER .....996 | G/DL <input type="text"/> <input type="text"/> <input type="text"/><br>NOT PRESENT .....994<br>REFUSED .....995<br>OTHER .....996 |
| 213 | GO BACK TO 203 IN NEXT COLUMN OF THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF AN ADDITIONAL QUESTIONNAIRE; IF NO MORE CHILDREN, GO TO 214. |   |   |   |

WEIGHT, HEIGHT, AND HEMOGLOBIN MEASUREMENT FOR WOMEN AGE 15-49

|     |   |   |  |  |
|-----|---|---|--|--|
| 214 | CHECK COLUMN 9 IN HOUSEHOLD SCHEDULE. RECORD THE LINE NUMBER AND NAME FOR ALL ELIGIBLE WOMEN IN 215. IF THERE ARE MORE THAN THREE WOMEN, USE ADDITIONAL QUESTIONNAIRE(S). |   |  |  |
|     |   | WOMAN 1   | WOMAN 2  | WOMAN 3  |
| 215 | LINE NUMBER FROM COLUMN 9<br><br>NAME FROM COLUMN 2   | LINE NUMBER <input type="text"/> <input type="text"/><br><br>NAME _____   | LINE NUMBER <input type="text"/> <input type="text"/><br><br>NAME _____  | LINE NUMBER <input type="text"/> <input type="text"/><br><br>NAME _____  |
| 216 | WEIGHT IN KILOGRAMS   | KG. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br><br>NOT PRESENT ..... 99994<br>REFUSED ..... 99995<br>OTHER ..... 99996  | KG. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br><br>NOT PRESENT ..... 99994<br>REFUSED ..... 99995<br>OTHER ..... 99996 | KG. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br><br>NOT PRESENT ..... 99994<br>REFUSED ..... 99995<br>OTHER ..... 99996 |
| 217 | HEIGHT IN CENTIMETERS   | CM. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br><br>NOT PRESENT ..... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996   | CM. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br><br>NOT PRESENT ..... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996    | CM. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br><br>NOT PRESENT ..... 9994<br>REFUSED ..... 9995<br>OTHER ..... 9996    |
| 218 | AGE: CHECK COLUMN 7.  | 15-17 YEARS ..... 1<br>18-49 YEARS ..... 2<br>(GO TO 223) ←   | 15-17 YEARS ..... 1<br>18-49 YEARS ..... 2<br>(GO TO 223) ←  | 15-17 YEARS ..... 1<br>18-49 YEARS ..... 2<br>(GO TO 223) ←  |
| 219 | MARITAL STATUS: CHECK COLUMN 8.   | CODE 4 (NEVER IN UNION) ..... 1<br>OTHER ..... 2<br>(GO TO 223) ←   | CODE 4 (NEVER IN UNION) ..... 1<br>OTHER ..... 2<br>(GO TO 223) ←  | CODE 4 (NEVER IN UNION) ..... 1<br>OTHER ..... 2<br>(GO TO 223) ←  |
| 220 | RECORD LINE NUMBER OF PARENT/OTHER ADULT RESPONSIBLE FOR ADOLESCENT. RECORD '00' IF NOT LISTED.   | LINE NUMBER OF PARENT OR OTHER RESPONSIBLE ADULT <input type="text"/> <input type="text"/>  | LINE NUMBER OF PARENT OR OTHER RESPONSIBLE ADULT <input type="text"/> <input type="text"/>   | LINE NUMBER OF PARENT OR OTHER RESPONSIBLE ADULT <input type="text"/> <input type="text"/>   |
| 221 | ASK CONSENT FOR ANEMIA TEST FROM PARENT/OTHER ADULT IDENTIFIED IN 220 AS RESPONSIBLE FOR NEVER IN UNION WOMEN AGE 15-17.  | <p>As part of this survey, we are asking people all over the country to take an anemia test. Anemia is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat anemia. For the anemia testing, we will need a few drops of blood from a finger. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The blood will be tested for anemia immediately, and the result will be told to you and (NAME OF ADOLESCENT) right away. The result will be kept strictly confidential and will not be shared with anyone other than members of our survey team.</p> <p>Do you have any questions?<br/>You can say yes to the test for (NAME OF ADOLESCENT), or you can say no. It is up to you to decide.<br/>Will you allow (NAME OF ADOLESCENT) to take the anemia test?</p> |  |  |
| 222 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.   | GRANTED ..... 1<br><br>_____ (SIGN) _____<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2<br><br>(IF REFUSED, GO TO 242) ←  | GRANTED ..... 1<br><br>_____ (SIGN) _____<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2<br><br>(IF REFUSED, GO TO 242) ←                                       | GRANTED ..... 1<br><br>_____ (SIGN) _____<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2<br><br>(IF REFUSED, GO TO 242) ←                                       |

WEIGHT, HEIGHT, AND HEMOGLOBIN MEASUREMENT FOR WOMEN AGE 15-49

|      |  | WOMAN 1   | WOMAN 2  | WOMAN 3  |
|------|--|---|--|--|
| 223  | ASK CONSENT FOR ANEMIA TEST FROM RESPONDENT.   | <p>As part of this survey, we are asking people all over the country to take an anemia test. Anemia is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat anemia. For the anemia testing, we will need a few drops of blood from a finger. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The blood will be tested for anemia immediately, and the result will be told to you right away. The result will be kept strictly confidential and will not be shared with anyone other than members of our survey team.</p> <p>Do you have any questions?<br/>You can say yes to the test, or you can say no. It is up to you to decide.<br/>Will you take the anemia test?</p> |  |  |
| 224  | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.  | GRANTED ..... 1<br>_____ (SIGN) _____<br>RESPONDENT REFUSED ..... 2<br>(IF REFUSED, GO TO 242)  | GRANTED ..... 1<br>_____ (SIGN) _____<br>RESPONDENT REFUSED ..... 2<br>(IF REFUSED, GO TO 242)   | GRANTED ..... 1<br>_____ (SIGN) _____<br>RESPONDENT REFUSED ..... 2<br>(IF REFUSED, GO TO 242)   |
| 225  | PREGNANCY STATUS: CHECK 226 IN WOMAN'S QUESTIONNAIRE OR ASK: Are you pregnant?   | YES ..... 1<br>NO ..... 2<br>DK ..... 8   | YES ..... 1<br>NO ..... 2<br>DK ..... 8  | YES ..... 1<br>NO ..... 2<br>DK ..... 8  |
| 240  | RECORD HEMO-GLOBIN LEVEL HERE AND IN ANEMIA PAMPHLET.  | G/DL ..... <input type="text"/> <input type="text"/> <input type="text"/><br>NOT PRESENT ..... 994<br>REFUSED ..... 995<br>OTHER ..... 996  | G/DL ..... <input type="text"/> <input type="text"/> <input type="text"/><br>NOT PRESENT ..... 994<br>REFUSED ..... 995<br>OTHER ..... 996 | G/DL ..... <input type="text"/> <input type="text"/> <input type="text"/><br>NOT PRESENT ..... 994<br>REFUSED ..... 995<br>OTHER ..... 996 |
| 242  | GO BACK TO 216 IN NEXT COLUMN OF THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF AN ADDITIONAL QUESTIONNAIRE; IF NO MORE WOMEN GO TO 242A.  |   |  |  |
| 242A | <p>CHECK THE COVER PAGE IF THE HOUSEHOLD IS IN THE CLUSTER SELECTED FOR MICRONUTRIENT TEST.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>HOUSEHOLD IS IN THE CLUSTER SELECTED FOR MICRONUTRIENT TEST</p> <p><input type="checkbox"/></p> <p>↓</p> <p>GO TO 243</p> </div> <div style="text-align: center;"> <p>HOUSEHOLD IS NOT IN THE CLUSTER SELECTED FOR MICRONUTRIENT TEST</p> <p><input type="checkbox"/></p> <p>↓</p> <p>END HOUSEHOLD INTERVIEW</p> </div> </div> |   |  |  |

In case you need more information about the revisit, you may contact the person listed on this card.

## GIVE CARD WITH CONTACT INFORMATION

SIGNATURE OF INTERVIEWER: \_\_\_\_\_ DATE: \_\_\_\_\_

RESPONDENT AGREES TO BE REVISITED ... 1  
↓  
RESPONDENT DOES NOT AGREE TO BE REVISITED ... 2  
↓  
END HOUSEHOLD INTERVIEW

|  |   |
|--|---|
| COMPLETE COVERAGE OF MICRONUTRIENT QUESTIONNAIRE USING HOUSEHOLD QUESTIONS   | A |
| RECORDE THE INFORMATION ABOUT ALL ELIGIBLE CHILDREN <b>(251-256)</b> AND WOMEN <b>(270-274)</b> IN THE MICRONUTRIENT QUESTIONNAIRE | B |
| CONTACT THE MICRONUTRIENT COORDINATOR TO SEND A MICRONUTRIENT TEAM AND PROVIDE HER/HIM THE MICRONUTRIENT QUESTIONNAIRE             | C |



INTERVIEWER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING INTERVIEW

COMMENTS ABOUT RESPONDENT:

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COMMENTS ON SPECIFIC QUESTIONS:

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ANY OTHER COMMENTS:

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SUPERVISOR'S OBSERVATIONS

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NAME OF SUPERVISOR: \_\_\_\_\_ DATE: \_\_\_\_\_

CAMBODIA DEMOGRAPHIC AND HEALTH SURVEYS 2014  
WOMAN'S QUESTIONNAIRE

MINISTRY OF PLANNING  
NATIONAL INSTITUTE OF STATISTICS

MINISTRY OF HEALTH  
GENERAL DIRECTORATE FOR HEALTH

| IDENTIFICATION                      |   |
|-------------------------------------|---|
| DOMAIN .....                        | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| NAME OF HOUSEHOLD HEAD _____        |   |
| PROVINCE _____                      | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| DISTRICT _____                      | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| COMMUNE _____                       | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| VILLAGE _____                       | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| CLUSTER NUMBER .....                | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| HOUSEHOLD NUMBER .....              | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| NAME AND LINE NUMBER OF WOMAN _____ | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |

| INTERVIEWER VISITS   |       |       |       |  |
|--|-------|-------|-------|--|
|  | 1     | 2     | 3     | FINAL VISIT  |
| DATE   | _____ | _____ | _____ | DAY <div style="display: inline-block; text-align: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> </div>  |
| INTERVIEWER'S NAME   | _____ | _____ | _____ | MONTH <div style="display: inline-block; text-align: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> </div>  |
| RESULT*  | _____ | _____ | _____ | YEAR <div style="display: inline-block; text-align: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block; text-align: center;">2</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block; text-align: center;">0</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> </div> |
|  | _____ | _____ | _____ | INT. NUMBER <div style="display: inline-block; text-align: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> </div>                                    |
|  | _____ | _____ | _____ | RESULT* <div style="display: inline-block; text-align: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> </div>  |
| NEXT VISIT: DATE   | _____ | _____ |       | TOTAL NUMBER OF VISITS <div style="display: inline-block; text-align: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> </div>  |
| TIME   | _____ | _____ |       |  |
| *RESULT CODES:<br><div style="display: flex; justify-content: space-between;"> <div>             1 COMPLETED<br/>             2 NOT AT HOME<br/>             3 POSTPONED           </div> <div>             4 REFUSED<br/>             5 PARTLY COMPLETED<br/>             6 INCAPACITATED           </div> <div>             7 OTHER _____<br/>             (SPECIFY)           </div> </div> |       |       |       |  |

LANGUAGE OF QUESTIONNAIRE, LANGUAGE OF INTERVIEW, NATIVE :

KHMER LANGUAGE ..... 1  
 OTHER LANGUAGE \_\_\_\_\_ 2  
 (SPECIFY)

USED TRANSLATOR:

YES ..... 1  
 NO ..... 2

| SUPERVISOR  | FIELD EDITOR  | OFFICE EDITOR   | KEYED BY  |
|---|---|---|---|
| NAME _____ <div style="display: inline-block; text-align: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> </div> | NAME _____ <div style="display: inline-block; text-align: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> </div> | <div style="display: inline-block; text-align: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> </div> | <div style="display: inline-block; text-align: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> </div> |
| DATE: _____   | DATE: _____   |   |   |

## SECTION 1. RESPONDENT'S BACKGROUND

### INTRODUCTION AND CONSENT

#### INFORMED CONSENT

Hello. My name is \_\_\_\_\_. I am working with the ministry of health and ministry of planning. We are conducting a survey about health all over Cambodia. The information we collect will help the government to plan health services. Your household was selected for the survey. The questions usually take about 30 to 60 minutes. All of the answers you give will be confidential and will not be shared with anyone other than members of our survey team. You don't have to be in the survey, but we hope you will agree to answer the questions since your views are important. If I ask you any question you don't want to answer, just let me know and I will go on to the next question or you can stop the interview at any time.

In case you need more information about the survey, you may contact the person listed on the card that has already been given to your household.

Do you have any questions? May I begin the interview now?

SIGNATURE OF INTERVIEWER: \_\_\_\_\_ DATE: \_\_\_\_\_

RESPONDENT AGREES TO BE INTERVIEWED ... 1      RESPONDENT DOES NOT AGREE TO BE INTERVIEWED ... 2 → END  
↓

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |
|-----|--|--|-------|
| 101 | RECORD THE TIME.   | HOUR ..... <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/><br>MINUTES ..... <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/>  |       |
| 102 | In what month and year were you born?<br><br>IF RESPONDENT DOES NOT KNOW GREGORIAN MONTH AND YEAR OF BIRTH, ASK FOR KHMER MONTH AND YEAR. USE DATE CONVERSION CHART.<br><br>_____<br>(SPECIFY KHMER MONTH AND YEAR OF BIRTH) | GREGORIAN MONTH ..... <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/><br>DON'T KNOW MONTH ..... 98<br><br>GREGORIAN YEAR <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/><br>DON'T KNOW YEAR ..... 9998 |       |
| 103 | How old were you at your last birthday?<br><br>COMPARE AND CORRECT 102 AND/OR 103 IF INCONSISTENT.   | AGE IN COMPLETED YEARS <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/>   |       |
| 104 | Have you ever attended school?   | YES ..... 1<br>NO ..... 2  | → 108 |
| 105 | What is the highest level of school you attended: primary, secondary, or higher?   | PRIMARY ..... 1<br>LOWER SECONDARY ..... 2<br>UPPER SECONDARY ..... 3<br>HIGHER ..... 4  |       |
| 106 | What is the highest (grade/form/year) you completed at that level?<br><br>IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD '00'.  | GRADE/FORM/YEAR ..... <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/>  |       |

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |
|------|---|---|-------|
| 107  | CHECK 105:<br><div> PRIMARY <input type="checkbox"/> <div> SECONDARY<br/>OR HIGHER <input type="checkbox"/> </div> </div>   |   | → 110 |
| 108  | Now I would like you to read this sentence to me.<br><br>SHOW CARD TO RESPONDENT.<br><br>IF RESPONDENT CANNOT READ WHOLE SENTENCE, PROBE:<br>Can you read any part of the sentence to me? | CANNOT READ AT ALL ..... 1<br>ABLE TO READ ONLY PARTS OF<br>SENTENCE ..... 2<br>ABLE TO READ WHOLE SENTENCE ..... 3<br>NO CARD WITH REQUIRED<br>LANGUAGE ..... 4<br>(SPECIFY LANGUAGE)<br>BLIND/VISUALLY IMPAIRED ..... 5 |       |
| 109  | CHECK 108:<br><div> CODE '2', '3'<br/>OR '4' <input type="checkbox"/> </div> <div> CODE '1' OR '5'<br/>CIRCLED <input type="checkbox"/> </div>  |   | → 111 |
| 110  | Do you read a newspaper or magazine at least once a week, less than once a week or not at all?  | AT LEAST ONCE A WEEK ..... 1<br>LESS THAN ONCE A WEEK ..... 2<br>NOT AT ALL ..... 3   |       |
| 111  | Do you listen to the radio at least once a week, less than once a week or not at all?   | AT LEAST ONCE A WEEK ..... 1<br>LESS THAN ONCE A WEEK ..... 2<br>NOT AT ALL ..... 3   |       |
| 112  | Do you watch television at least once a week, less than once a week or not at all?  | AT LEAST ONCE A WEEK ..... 1<br>LESS THAN ONCE A WEEK ..... 2<br>NOT AT ALL ..... 3   |       |
| 112A | Do you access to internet, at least once a week, less than once a week or not at all?   | AT LEAST ONCE A WEEK ..... 1<br>LESS THAN ONCE A WEEK ..... 2<br>NOT AT ALL ..... 3   |       |
| 113  | What is your religion?  | BUDDHIST ..... 1<br>MOSLEM ..... 2<br>CHRISTIAN ..... 3<br>OTHER ..... 4  |       |
| 115  | In the last 12 months, how many times have you been away from home for one or more nights?  | NUMBER OF TIMES ..... <input type="text"/> <input type="text"/><br>NONE ..... 00  | → 201 |
| 116  | In the last 12 months, have you been away from home for more than one month at a time?  | YES ..... 1<br>NO ..... 2   |       |

SECTION 2. REPRODUCTION

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |  |  |  |  |  |  |  |  |
|------|---|---|-------|--|--|--|--|--|--|--|--|
| 201  | Now I would like to ask about all the births you have had during your life. Have you ever given birth?  | YES ..... 1<br>NO ..... 2   | → 206 |  |  |  |  |  |  |  |  |
| 202  | Do you have any sons or daughters to whom you have given birth who are now living with you?   | YES ..... 1<br>NO ..... 2   | → 204 |  |  |  |  |  |  |  |  |
| 203  | How many sons live with you?<br><br>And how many daughters live with you?<br><br>IF NONE, RECORD '00'.  | SONS AT HOME ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br>DAUGHTERS AT HOME ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>     |       |  |  |  |  |  |  |  |  |
|      |   |   |       |  |  |  |  |  |  |  |  |
|      |   |   |       |  |  |  |  |  |  |  |  |
|      |   |   |       |  |  |  |  |  |  |  |  |
|      |   |   |       |  |  |  |  |  |  |  |  |
| 204  | Do you have any sons or daughters to whom you have given birth who are alive but do not live with you?  | YES ..... 1<br>NO ..... 2   | → 206 |  |  |  |  |  |  |  |  |
| 205  | How many sons are alive but do not live with you?<br><br>And how many daughters are alive but do not live with you?<br><br>IF NONE, RECORD '00'.  | SONS ELSEWHERE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br>DAUGHTERS ELSEWHERE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table> |       |  |  |  |  |  |  |  |  |
|      |   |   |       |  |  |  |  |  |  |  |  |
|      |   |   |       |  |  |  |  |  |  |  |  |
|      |   |   |       |  |  |  |  |  |  |  |  |
|      |   |   |       |  |  |  |  |  |  |  |  |
| 205A | Where do your sons or daughters who do not live with you live?  | EXTENDED FAMILY/CAMP ..... A<br>NEIGHBOR ..... B<br>ORPHANAGE/NGO ..... C<br>TEMPLE (WAT) ..... D<br>OTHER ..... E<br>SPECIFY _____<br>DON'T KNOW ..... X   |       |  |  |  |  |  |  |  |  |
| 206  | Have you ever given birth to a boy or girl who was born alive but later died?<br><br>IF NO, PROBE: Any baby who cried or showed signs of life but did not survive?  | YES ..... 1<br>NO ..... 2   | → 208 |  |  |  |  |  |  |  |  |
| 207  | How many boys have died?<br><br>And how many girls have died?<br><br>IF NONE, RECORD '00'.  | BOYS DEAD ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br>GIRLS DEAD ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>               |       |  |  |  |  |  |  |  |  |
|      |   |   |       |  |  |  |  |  |  |  |  |
|      |   |   |       |  |  |  |  |  |  |  |  |
|      |   |   |       |  |  |  |  |  |  |  |  |
|      |   |   |       |  |  |  |  |  |  |  |  |
| 208  | SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL.<br>IF NONE, RECORD '00'.   | TOTAL BIRTHS ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table>   |       |  |  |  |  |  |  |  |  |
|      |   |   |       |  |  |  |  |  |  |  |  |
| 209  | CHECK 208:<br><br>Just to make sure that I have this right: you have had in TOTAL _____ births during your life. Is that correct?<br><br>YES <input type="checkbox"/> NO <input type="checkbox"/> → PROBE AND CORRECT 201-208 AS NECESSARY. |   |       |  |  |  |  |  |  |  |  |
| 210  | CHECK 208:<br><br>ONE OR MORE BIRTHS <input type="checkbox"/> NO BIRTHS <input type="checkbox"/> → 226  |   |       |  |  |  |  |  |  |  |  |

211 Now I would like to record the names of all your births, whether still alive or not, starting with the first one you had.  
 RECORD NAMES OF ALL THE BIRTHS IN 212. RECORD TWINS AND TRIPLETS ON SEPARATE ROWS.  
 (IF THERE ARE MORE THAN 12 BIRTHS, USE AN ADDITIONAL QUESTIONNAIRE, STARTING WITH THE SECOND ROW).

| 212  | 213                        | 214                             | 215   | 216                                 | 217  | 218                         | 219   | 220  | 221  |
|--|----------------------------|---------------------------------|---|-------------------------------------|--|-----------------------------|---|--|--|
| What name was given to your next baby?<br><br>(NAME) | Is (NAME) a boy or a girl? | Were any of these births twins? | In what month and year was (NAME) born?<br><br>PROBE:<br>When is his/her birthday?  | Is (NAME) still alive?              | How old was (NAME) at his/her last birthday?<br><br>RECORD AGE IN COMPLETED YEARS. | Is (NAME) living with you?  | RECORD HOUSEHOLD LINE NUMBER OF CHILD (RECORD '00' IF CHILD NOT LISTED IN HOUSEHOLD). | How old was (NAME) when he/she died?<br><br>IF '1 YR', PROBE:<br>How many months old was (NAME)?<br>RECORD DAYS IF LESS THAN 1 MONTH; MONTHS IF LESS THAN TWO YEARS; OR YEARS. | Were there any other live births between (NAME OF PREVIOUS BIRTH) and (NAME), including any children who died after birth? |
| 01   | BOY 1<br>GIRL 2            | SING 1<br>MULT 2                | MONTH <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | YES . . 1<br>NO . . . 2<br>↓<br>220 | AGE IN YEARS<br><input type="text"/> <input type="text"/>                          | YES . . . 1<br>NO . . . . 2 | LINE NUMBER<br><input type="text"/> <input type="text"/><br>↓<br>(NEXT BIRTH)         | DAYS . . 1<br>MONTHS 2<br>YEARS . . 3  |  |
| 02   | BOY 1<br>GIRL 2            | SING 1<br>MULT 2                | MONTH <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | YES . . 1<br>NO . . . 2<br>↓<br>220 | AGE IN YEARS<br><input type="text"/> <input type="text"/>                          | YES . . . 1<br>NO . . . . 2 | LINE NUMBER<br><input type="text"/> <input type="text"/><br>↓<br>(GO TO 221)          | DAYS . . 1<br>MONTHS 2<br>YEARS . . 3  | YES . . . . 1<br>ADD ↙<br>BIRTH<br>NO . . . . . 2<br>NEXT ↙<br>BIRTH   |
| 03   | BOY 1<br>GIRL 2            | SING 1<br>MULT 2                | MONTH <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | YES . . 1<br>NO . . . 2<br>↓<br>220 | AGE IN YEARS<br><input type="text"/> <input type="text"/>                          | YES . . . 1<br>NO . . . . 2 | LINE NUMBER<br><input type="text"/> <input type="text"/><br>↓<br>(GO TO 221)          | DAYS . . 1<br>MONTHS 2<br>YEARS . . 3  | YES . . . . 1<br>ADD ↙<br>BIRTH<br>NO . . . . . 2<br>NEXT ↙<br>BIRTH   |
| 04   | BOY 1<br>GIRL 2            | SING 1<br>MULT 2                | MONTH <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | YES . . 1<br>NO . . . 2<br>↓<br>220 | AGE IN YEARS<br><input type="text"/> <input type="text"/>                          | YES . . . 1<br>NO . . . . 2 | LINE NUMBER<br><input type="text"/> <input type="text"/><br>↓<br>(GO TO 221)          | DAYS . . 1<br>MONTHS 2<br>YEARS . . 3  | YES . . . . 1<br>ADD ↙<br>BIRTH<br>NO . . . . . 2<br>NEXT ↙<br>BIRTH   |
| 05   | BOY 1<br>GIRL 2            | SING 1<br>MULT 2                | MONTH <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | YES . . 1<br>NO . . . 2<br>↓<br>220 | AGE IN YEARS<br><input type="text"/> <input type="text"/>                          | YES . . . 1<br>NO . . . . 2 | LINE NUMBER<br><input type="text"/> <input type="text"/><br>↓<br>(GO TO 221)          | DAYS . . 1<br>MONTHS 2<br>YEARS . . 3  | YES . . . . 1<br>ADD ↙<br>BIRTH<br>NO . . . . . 2<br>NEXT ↙<br>BIRTH   |
| 06   | BOY 1<br>GIRL 2            | SING 1<br>MULT 2                | MONTH <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | YES . . 1<br>NO . . . 2<br>↓<br>220 | AGE IN YEARS<br><input type="text"/> <input type="text"/>                          | YES . . . 1<br>NO . . . . 2 | LINE NUMBER<br><input type="text"/> <input type="text"/><br>↓<br>(GO TO 221)          | DAYS . . 1<br>MONTHS 2<br>YEARS . . 3  | YES . . . . 1<br>ADD ↙<br>BIRTH<br>NO . . . . . 2<br>NEXT ↙<br>BIRTH   |
| 07   | BOY 1<br>GIRL 2            | SING 1<br>MULT 2                | MONTH <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | YES . . 1<br>NO . . . 2<br>↓<br>220 | AGE IN YEARS<br><input type="text"/> <input type="text"/>                          | YES . . . 1<br>NO . . . . 2 | LINE NUMBER<br><input type="text"/> <input type="text"/><br>↓<br>(GO TO 221)          | DAYS . . 1<br>MONTHS 2<br>YEARS . . 3  | YES . . . . 1<br>ADD ↙<br>BIRTH<br>NO . . . . . 2<br>NEXT ↙<br>BIRTH   |

|  |  |                                 |  |                                     |  |   |   |  |  |
|--|--|---------------------------------|--|-------------------------------------|--|---|---|--|--|
| 212  | 213  | 214                             | 215  | 216                                 | 217  | 218   | 219   | 220  | 221  |
| What name was given to your first/next baby?<br><br>(NAME) | Is (NAME) a boy or a girl?   | Were any of these births twins? | In what month and year was (NAME) born?<br><br>PROBE:<br>When is his/her birthday? | Is (NAME) still alive?              | How old was (NAME) at his/her last birthday?<br><br>RECORD AGE IN COMPLETED YEARS. | Is (NAME) living with you?  | RECORD HOUSEHOLD LINE NUMBER OF CHILD (RECORD '00' IF CHILD NOT LISTED IN HOUSEHOLD). | How old was (NAME) when he/she died?<br><br>IF '1 YR', PROBE:<br>How many months old was (NAME)?<br>RECORD DAYS IF LESS THAN 1 MONTH; MONTHS IF LESS THAN TWO YEARS; OR YEARS. | Were there any other live births between (NAME OF PREVIOUS BIRTH) and (NAME), including any children who died after birth? |
| 08   | BOY 1<br>GIRL 2  | SING 1<br>MULT 2                | MONTH <input type="text"/><br>YEAR <input type="text"/>                            | YES . . 1<br>NO . . . 2<br>↓<br>220 | AGE IN YEARS<br><input type="text"/>   | YES . . . 1<br>NO . . . . 2   | LINE NUMBER<br><input type="text"/><br>↓<br>(GO TO 221)                               | DAYS . . 1<br>MONTHS 2<br>YEARS . . 3  | YES . . . . 1<br>ADD ↓<br>BIRTH<br>NO . . . . . 2<br>NEXT ↓<br>BIRTH   |
| 09   | BOY 1<br>GIRL 2  | SING 1<br>MULT 2                | MONTH <input type="text"/><br>YEAR <input type="text"/>                            | YES . . 1<br>NO . . . 2<br>↓<br>220 | AGE IN YEARS<br><input type="text"/>   | YES . . . 1<br>NO . . . . 2   | LINE NUMBER<br><input type="text"/><br>↓<br>(GO TO 221)                               | DAYS . . 1<br>MONTHS 2<br>YEARS . . 3  | YES . . . . 1<br>ADD ↓<br>BIRTH<br>NO . . . . . 2<br>NEXT ↓<br>BIRTH   |
| 10   | BOY 1<br>GIRL 2  | SING 1<br>MULT 2                | MONTH <input type="text"/><br>YEAR <input type="text"/>                            | YES . . 1<br>NO . . . 2<br>↓<br>220 | AGE IN YEARS<br><input type="text"/>   | YES . . . 1<br>NO . . . . 2   | LINE NUMBER<br><input type="text"/><br>↓<br>(GO TO 221)                               | DAYS . . 1<br>MONTHS 2<br>YEARS . . 3  | YES . . . . 1<br>ADD ↓<br>BIRTH<br>NO . . . . . 2<br>NEXT ↓<br>BIRTH   |
| 11   | BOY 1<br>GIRL 2  | SING 1<br>MULT 2                | MONTH <input type="text"/><br>YEAR <input type="text"/>                            | YES . . 1<br>NO . . . 2<br>↓<br>220 | AGE IN YEARS<br><input type="text"/>   | YES . . . 1<br>NO . . . . 2   | LINE NUMBER<br><input type="text"/><br>↓<br>(GO TO 221)                               | DAYS . . 1<br>MONTHS 2<br>YEARS . . 3  | YES . . . . 1<br>ADD ↓<br>BIRTH<br>NO . . . . . 2<br>NEXT ↓<br>BIRTH   |
| 12   | BOY 1<br>GIRL 2  | SING 1<br>MULT 2                | MONTH <input type="text"/><br>YEAR <input type="text"/>                            | YES . . 1<br>NO . . . 2<br>↓<br>220 | AGE IN YEARS<br><input type="text"/>   | YES . . . 1<br>NO . . . . 2   | LINE NUMBER<br><input type="text"/><br>↓<br>(GO TO 221)                               | DAYS . . 1<br>MONTHS 2<br>YEARS . . 3  | YES . . . . 1<br>ADD ↓<br>BIRTH<br>NO . . . . . 2<br>NEXT ↓<br>BIRTH   |
| 222  | Have you had any live births since the birth of (NAME OF LAST BIRTH)? IF YES, RECORD BIRTH(S) IN TABLE.  |                                 |  |                                     |  | YES . . . . . 1<br>NO . . . . . 2   |   |  |  |
| 223  | COMPARE 208 WITH NUMBER OF BIRTHS IN HISTORY ABOVE AND MARK:<br><br>NUMBERS ARE SAME <input type="checkbox"/> NUMBERS ARE DIFFERENT <input type="checkbox"/> → (PROBE AND RECONCILE) |                                 |  |                                     |  |   |   |  |  |
| 224  | CHECK 215:<br><br>ENTER THE NUMBER OF BIRTHS IN 2009 OR LATER.   |                                 |  |                                     |  | NUMBER OF BIRTHS . . . . . <input type="text"/><br>NONE . . . . . 8 → 226 |   |  |  |

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP                           |
|------|---|---|--------------------------------|
| 225  | <p><b>C</b> FOR EACH BIRTH SINCE <b>JANUARY 2009</b>, ENTER 'B' IN THE MONTH OF BIRTH IN THE CALENDAR. WRITE THE NAME OF THE CHILD TO THE LEFT OF THE 'B' CODE. FOR EACH BIRTH, ASK THE NUMBER OF MONTHS THE PREGNANCY LASTED AND RECORD 'P' IN EACH OF THE PRECEDING MONTHS ACCORDING TO THE DURATION OF PREGNANCY. (NOTE: THE NUMBER OF 'P's MUST BE ONE LESS THAN THE NUMBER OF MONTHS THAT THE PREGNANCY LASTED.)</p> |   |                                |
| 226  | Are you pregnant now?   | YES ..... 1<br>NO ..... 2<br>UNSURE ..... 8   | <input type="checkbox"/> → 230 |
| 227  | How many months pregnant are you?<br><br>RECORD NUMBER OF COMPLETED MONTHS.<br><br><p><b>C</b> ENTER 'P's IN THE CALENDAR, BEGINNING WITH THE MONTH OF INTERVIEW AND FOR THE TOTAL NUMBER OF COMPLETED MONTHS.</p>  | MONTHS ..... <input type="text"/> <input type="text"/>  |                                |
| 228  | When you got pregnant, did you want to get pregnant at that time?   | YES ..... 1<br>NO ..... 2   | → 230                          |
| 229  | Did you want to have a baby later on or did you not want any (more) children?   | LATER ..... 1<br>NO MORE ..... 2  |                                |
| 230  | Have you ever had a pregnancy that miscarried, was aborted, or ended in a stillbirth?   | YES ..... 1<br>NO ..... 2   | → 238                          |
| 231  | When did the last such pregnancy end?   | MONTH ..... <input type="text"/> <input type="text"/><br>YEAR ..... <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>   |                                |
| 232  | CHECK 231:<br><br>LAST PREGNANCY ENDED IN <input type="checkbox"/> JAN. 2009 OR LATER<br>LAST PREGNANCY ENDED BEFORE <input type="checkbox"/> JAN. 2009   |   | → 235A                         |
| 233  | How many months pregnant were you when the last such pregnancy ended?<br><br><p><b>C</b> RECORD NUMBER OF COMPLETED MONTHS. ENTER 'T' IN THE CALENDAR IN THE MONTH THAT THE PREGNANCY TERMINATED AND 'P' FOR THE REMAINING NUMBER OF COMPLETED MONTHS.</p>  | MONTHS ..... <input type="text"/> <input type="text"/>  |                                |
| 233A | Did this pregnancy end in an induced abortion?  | YES ..... 1<br>NO ..... 2   | → 234                          |
| 233B | What was the method used for that induced abortion  | SURGICAL METHODS<br>VACUME ASPIRATION ..... A<br>CURETTAGE ..... B<br>DILATATION AND EVACUATION ... C<br><br>MEDICAL METHODS<br>ORAL PILL/TABLET ..... D<br>VAGINAL PILL/TABLET ..... E<br>INJECTABLE ..... F<br>INTRAUTERINE ..... G<br><br>TRADITIONAL METHODS ..... H<br><br>OTHER METHODS ..... X |                                |



| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |
|------|---|---|-------|
| 233C | In the seven days after the abortion did you experience:<br>fever?<br>excessive bleeding?   | <div>YES NO DK</div> <div>FEVER ..... 1 2 8</div> <div>BLEEDING ..... 1 2 8</div>   |       |
| 233D | Did anyone help you to initiate the induced abortion?<br><br>IF YES: Who helped you to initiate the abortion?<br><br>Anyone else?<br><br>RECORD ALL PERSONS ASSISTING.  | HEALTH PROFESSIONAL<br>DOCTOR/MEDICAL ASSISTANT ... A<br>NURSE ..... B<br>MIDWIFE ..... C<br>OTHER HEALTH PROF. .... D<br><br>OTHER PERSON<br>TRADITIONAL BIRTH ATTENDANT . E<br>PHARMACIST ..... F<br>KRU KHMER/MAGICIAN ..... G<br>RELATIVE/FRIEND ..... H<br><br>OTHER _____ X<br>(SPECIFY)<br>NO ONE ..... Y  |       |
| 233E | Where did the induced abortion take place?<br><br>IF HOSPITAL, PROBE:<br>Do you mean a permanent building where health workers<br>are present everyday?<br><br>IF YES: Was it a provincial hospital, district hospital, health<br>center, or private hospital?<br><br>WRITE THE NAME OF THE PLACE AND<br>CIRCLE THE APPROPRIATE CODE.<br><br>_____<br>(NAME OF PLACE) | PUBLIC MEDICAL SECTOR<br>NATIONAL HOSPITAL (PP) ..... 11<br>PROVINCIAL HOSPITAL (RH) ..... 12<br>DISTRICT HOSPITAL (RH) ..... 13<br>HEALTH CENTER ..... 14<br>HEALTH POST ..... 15<br>MILITARY HOSPITAL ..... 16<br>OTHER PUBLIC ..... 17<br><br>PRIVATE MEDICAL SECTOR<br>PRIVATE HOSPITAL ..... 21<br>PRIVATE CLINIC ..... 22<br>OTHER PRIVATE MEDICAL ..... 26<br><br>HOME<br>YOUR HOME ..... 31<br>OTHER HOME ..... 32<br><br>OTHER PLACE _____ 96<br>(SPECIFY) |       |
| 233F | Was anyone present to help you at the time of the abortion?<br><br>IF YES: Who was present to help you?<br><br>Anyone else?<br><br>RECORD ALL PERSONS ASSISTING.  | HEALTH PROFESSIONAL<br>DOCTOR/MEDICAL ASSISTANT ... A<br>NURSE ..... B<br>MIDWIFE ..... C<br>OTHER HEALTH PROF. .... D<br><br>OTHER PERSON<br>TRADITIONAL BIRTH ATTENDANT . E<br>PHARMACIST ..... F<br>KRU KHMER/MAGICIAN ..... G<br>RELATIVE/FRIEND ..... H<br><br>OTHER PERSON _____ X<br>(SPECIFY)<br>NO ONE ..... Y   |       |
| 234  | Since January 2009 , have you had any other pregnancies that did not result in a live birth?  | YES ..... 1<br>NO ..... 2   | → 236 |

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |
|------|---|---|-------|
| 235  | <p>ASK THE DATE AND THE DURATION OF PREGNANCY FOR EACH EARLIER NON-LIVE BIRTH PREGNANCY BACK TO JANUARY 2009.</p> <p><b>C</b> ENTER 'T' IN THE CALENDAR IN THE MONTH THAT EACH PREGNANCY TERMINATED AND 'P' FOR THE REMAINING NUMBER OF COMPLETED MONTHS.</p> |   |       |
| 235A | Since January 2009, how many induced abortion have you had ?  | TOTAL NUMBER ABORTIONS SINCE JANUARY 2009 ..... <input type="text"/> <input type="text"/>   |       |
| 236  | Did you have any miscarriages, abortions or stillbirths that ended before 2009?   | YES ..... 1<br>NO ..... 2   | → 238 |
| 237  | When did the last such pregnancy that terminated before 2009 end?   | MONTH ..... <input type="text"/> <input type="text"/><br>YEAR ..... <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>   |       |
| 237A | In total, how many induced abortions have you had in your lifetime?   | TOTAL NUMBER ABORTIONS IN LIFETIME ..... <input type="text"/> <input type="text"/>  |       |
| 238  | <p>When did your last menstrual period start?</p> <p>_____</p> <p>(DATE, IF GIVEN)</p>  | DAYS AGO ..... 1 <input type="text"/> <input type="text"/><br>WEEKS AGO ..... 2 <input type="text"/> <input type="text"/><br>MONTHS AGO ..... 3 <input type="text"/> <input type="text"/><br>YEARS AGO ..... 4 <input type="text"/> <input type="text"/><br>IN MENOPAUSE/<br>HAS HAD HYSTERECTOMY ... 994<br>BEFORE LAST BIRTH ..... 995<br>NEVER MENSTRUATED ..... 996 |       |
| 239  | From one menstrual period to the next, are there certain days when a woman is more likely to become pregnant?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | → 241 |
| 240  | Is this time just before her period begins, during her period, right after her period has ended, or halfway between two periods?  | JUST BEFORE HER PERIOD<br>BEGINS ..... 1<br>DURING HER PERIOD ..... 2<br>RIGHT AFTER HER<br>PERIOD HAS ENDED ..... 3<br>HALFWAY BETWEEN<br>TWO PERIODS ..... 4<br>OTHER ..... 6<br>(SPECIFY)<br>DON'T KNOW ..... 8  |       |
| 241  | <p>Do you take iron tablet like this (or these) every week?</p> <p>SHOW THE PICTURE OF IRON TABLET TO RESPONDENT</p>  | YES ..... 1<br>NO ..... 2   |       |

SECTION 3. CONTRACEPTION

|     |  |   |       |
|-----|--|---|-------|
| 301 | Now I would like to talk about family planning - the various ways or methods that a couple can use to delay or avoid a pregnancy.<br><br>Have you ever heard of (METHOD)?                      |   |       |
| 01  | <b>Female Sterilization.</b> PROBE: Women can have an operation to avoid having any more children.   | YES ..... 1<br>NO ..... 2   |       |
| 02  | <b>Male Sterilization.</b> PROBE: Men can have an operation to avoid having any more children.   | YES ..... 1<br>NO ..... 2   |       |
| 03  | <b>IUD</b> PROBE: Women can have a loop or coil placed inside them by a doctor, midwife, or a nurse.   | YES ..... 1<br>NO ..... 2   |       |
| 04  | <b>Injectables.</b> PROBE: Women can have an injection by a health provider that stops them from becoming pregnant for one or more months.   | YES ..... 1<br>NO ..... 2   |       |
| 05  | <b>Implants.</b> PROBE: Women can have one or more small rods placed in their upper arm by a doctor, a midwife, or nurse which can prevent pregnancy for one or more years.                    | YES ..... 1<br>NO ..... 2   |       |
| 06  | <b>DAILY PILL</b> Women can take a pill every day. PROBE: Women can take a pill every day to avoid becoming pregnant.  | YES ..... 1<br>NO ..... 2   |       |
| 07  | <b>MONTHLY PILL or CHINESE PILL.</b> PROBE: Women can take a pill once a month to avoid becoming pregnant.   | YES ..... 1<br>NO ..... 2   |       |
| 08  | <b>Condom.</b> PROBE: Men can put a rubber sheath on their penis before sexual intercourse.  | YES ..... 1<br>NO ..... 2   |       |
| 09  | <b>Female Condom.</b> PROBE: Women can place a sheath in their vagina before sexual intercourse.   | YES ..... 1<br>NO ..... 2   |       |
| 10  | <b>Lactational Amenorrhea Method (LAM)</b>   | YES ..... 1<br>NO ..... 2   |       |
| 11  | <b>Rhythm Method.</b> PROBE: Every month that a woman is sexually active she can avoid pregnancy by not having sexual intercourse on the days of the month she is most likely to get pregnant. | YES ..... 1<br>NO ..... 2   |       |
| 12  | <b>Withdrawal.</b> PROBE: Men can be careful and pull out before climax.   | YES ..... 1<br>NO ..... 2   |       |
| 13  | <b>Emergency Contraception.</b> PROBE: As an emergency measure, within three days after they have unprotected sexual intercourse, women can take special pills to prevent pregnancy.           | YES ..... 1<br>NO ..... 2   |       |
| 14  | Have you heard of any other ways or methods that women or men can use to avoid pregnancy?  | YES ..... 1<br><br>_____<br>(SPECIFY)<br><br>_____<br>(SPECIFY)<br><br>NO ..... 2 |       |
| 302 | CHECK 226:<br><br>NOT PREGNANT OR UNSURE <input type="checkbox"/> PREGNANT <input type="checkbox"/>  |   | → 311 |
| 303 | Are you currently doing something or using any method to delay or avoid getting pregnant?  | YES ..... 1<br>NO ..... 2   | → 311 |

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |
|-----|--|--|---|
| 304 | <p>Which method are you using?</p> <p>CIRCLE ALL MENTIONED.</p> <p>IF MORE THAN ONE METHOD MENTIONED, FOLLOW SKIP INSTRUCTION FOR HIGHEST METHOD IN LIST.</p>  | <p>FEMALE STERILIZATION ..... A</p> <p>MALE STERILIZATION ..... B</p> <p>IUD ..... C</p> <p>INJECTABLES ..... D</p> <p>IMPLANTS ..... E</p> <p>DAILY PILL ..... F</p> <p>MONTHLY METHOD (CHINESE PILL) . G</p> <p>CONDOM ..... H</p> <p>FEMALE CONDOM ..... I</p> <p>DIAPHRAGM ..... J</p> <p>FOAM/JELLY ..... K</p> <p>LACTATIONAL AMEN. METHOD ..... L</p> <p>RHYTHM METHOD ..... M</p> <p>WITHDRAWAL ..... N</p> <p>OTHER MODERN METHOD ..... O</p> <p>OTHER TRADITIONAL METHOD ... Y</p>                               | <p>→ 307</p> <p>→ 308A</p> <p>→ 306</p> <p>→ 308A</p> |
| 305 | <p>What is the brand name of the pills you are using?</p> <p>IF DON'T KNOW THE BRAND, ASK TO SEE THE PACKAGE.</p>  | <p>SREY PICH ..... 01</p> <p>OK ..... 02</p> <p>OTHER ..... 96</p> <p>(SPECIFY)</p> <p>DON'T KNOW ..... 98</p>   | <p>→ 308A</p>   |
| 306 | <p>What is the brand name of the condoms you are using?</p> <p>IF DON'T KNOW THE BRAND, ASK TO SEE THE PACKAGE.</p>  | <p>NUMBER ONE ..... 01</p> <p>OK ..... 02</p> <p>NEAK KAPEAR/ NO NAME ..... 03</p> <p>OTHER ..... 96</p> <p>(SPECIFY)</p> <p>DON'T KNOW ..... 98</p>   | <p>→ 308A</p>   |
| 307 | <p>In what facility did the sterilization take place?</p> <p>PROBE TO IDENTIFY THE TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>_____</p> <p>(NAME OF PLACE)</p> | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSPITAL (PP) ..... 11</p> <p>PROVINCIAL HOSPITAL (RH) ..... 12</p> <p>DISTRICT HOSPITAL (RH) ..... 13</p> <p>HEALTH CENTER ..... 14</p> <p>HEALTH POST ..... 15</p> <p>MILITARY HOSPITAL ..... 16</p> <p>OTHER PUBLIC SECTOR ..... 17</p> <p>(SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIVATE HOSPITAL ..... 21</p> <p>PRIVATE CLINIC ..... 22</p> <p>OTHER PRIVATE MEDICAL SECTOR ..... 23</p> <p>(SPECIFY)</p> <p>OTHER ..... 96</p> <p>(SPECIFY)</p> <p>DON'T KNOW ..... 98</p> |   |

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP |  |  |  |  |  |  |  |  |  |  |  |  |
|------|--|--|------|--|--|--|--|--|--|--|--|--|--|--|--|
| 308  | In what month and year was the sterilization performed?  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 308A | <p>Since what month and year have you been using (CURRENT METHOD) without stopping?</p> <p>PROBE: For how long have you been using (CURRENT METHOD) now without stopping?</p>  | <p>MONTH ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></p> <p>YEAR ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table></p> |      |  |  |  |  |  |  |  |  |  |  |  |  |
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|      |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |
|      |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |
|      |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 309  | <p>CHECK 308/308A, 215 AND 231:</p> <p>ANY BIRTH OR PREGNANCY TERMINATION AFTER MONTH AND YEAR OF START OF USE OF CONTRACEPTION IN 308/308A</p> <p>GO BACK TO 308/308A, PROBE AND RECORD MONTH AND YEAR AT START OF CONTINUOUS USE OF CURRENT METHOD (MUST BE AFTER LAST BIRTH OR PREGNANCY TERMINATION).</p>  | <p>YES <input type="checkbox"/></p> <p>NO <input type="checkbox"/></p>   |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 310  | <p>CHECK 308/308A:</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>YEAR IS 2009 OR LATER <input type="checkbox"/></p> <p><b>C</b> ENTER CODE FOR METHOD USED IN MONTH OF INTERVIEW IN THE CALENDAR AND IN EACH MONTH BACK TO THE DATE STARTED USING.</p> <p>THEN SKIP TO → 322</p> </div> <div style="text-align: center;"> <p>YEAR IS 2008 OR EARLIER <input type="checkbox"/></p> <p><b>C</b> ENTER CODE FOR METHOD USED IN MONTH OF INTERVIEW IN THE CALENDAR AND EACH MONTH BACK TO JANUARY 2009.</p> </div> </div>  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 311  | <p>I would like to ask you some questions about the times you or your partner may have used a method to avoid getting pregnant during the last few years.</p> <p>USE CALENDAR TO PROBE FOR EARLIER PERIODS OF USE AND NONUSE, STARTING WITH MOST RECENT USE, BACK TO JANUARY 2009.</p> <p>USE NAMES OF CHILDREN, DATES OF BIRTH, AND PERIODS OF PREGNANCY AS REFERENCE POINTS.</p> <p><b>C</b> IN COLUMN 1, ENTER METHOD USE CODE OR '0' FOR NONUSE IN EACH BLANK MONTH.</p> <p>ILLUSTRATIVE QUESTIONS:</p> <ul style="list-style-type: none"> <li>* When was the last time you used a method? Which method was that?</li> <li>* When did you start using that method? How long after the birth of (NAME)?</li> <li>* How long did you use the method then?</li> </ul> <p>IN COLUMN 2, ENTER CODES FOR DISCONTINUATION NEXT TO THE LAST MONTH OF USE. NUMBER OF CODES IN COLUMN 2 MUST BE SAME AS NUMBER OF INTERRUPTIONS OF METHOD USE IN COLUMN 1.</p> <p>ASK WHY SHE STOPPED USING THE METHOD. IF A PREGNANCY FOLLOWED, ASK WHETHER SHE BECAME PREGNANT UNINTENTIONALLY WHILE USING THE METHOD OR DELIBERATELY STOPPED TO GET PREGNANT.</p> <p>ILLUSTRATIVE QUESTIONS:</p> <ul style="list-style-type: none"> <li>* Why did you stop using the (METHOD)? Did you become pregnant while using (METHOD), or did you stop to get pregnant, or did you stop for some other reason?</li> <li>* IF DELIBERATELY STOPPED TO BECOME PREGNANT, ASK: How many months did it take you to get pregnant after you stopped using (METHOD)? AND ENTER '0' IN EACH SUCH MONTH IN COLUMN 1.</li> </ul> |  |      |  |  |  |  |  |  |  |  |  |  |  |  |

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |
|------|---|---|---|
| 312  | CHECK THE CALENDAR FOR USE OF ANY CONTRACEPTIVE METHOD IN ANY MONTH<br><br><div style="display: flex; justify-content: space-between;"> <div>NO METHOD USED<br/><input type="checkbox"/></div> <div>ANY METHOD USED<br/><input type="checkbox"/></div> </div> <div style="text-align: right; margin-top: 10px;">→ 314</div> |   |   |
| 313  | Have you ever used anything or tried in any way to delay or avoid getting pregnant?   | YES ..... 1<br>NO ..... 2   | → 324                                       |
| 314  | CHECK 304:<br><br>CIRCLE METHOD CODE:<br><br>IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST.   | NO CODE CIRCLED ..... 00<br>FEMALE STERILIZATION ..... 01<br>MALE STERILIZATION ..... 02<br>IUD ..... 03<br>INJECTABLES ..... 04<br>IMPLANTS ..... 05<br>DAILY PILL ..... 06<br>MONTHLY METHOD (CHINESE PILL) ..... 07<br>CONDOM ..... 08<br>FEMALE CONDOM ..... 09<br>DIAPHRAGM ..... 10<br>FOAM/JELLY ..... 11<br>LACTATIONAL AMEN. METHOD ..... 12<br>RHYTHM METHOD ..... 13<br>WITHDRAWAL ..... 14<br>OTHER MODERN METHOD ..... 95<br>OTHER TRADITIONAL METHOD ..... 96 | → 324<br>→ 317A<br>→ 326<br>→ 315A<br>→ 326 |
| 315  | You first started using (CURRENT METHOD) in (DATE FROM 308/308A). Where did you get it at that time?  | PUBLIC SECTOR<br>NATIONAL HOSPITAL (PP) ..... 11<br>PROVINCIAL HOSPITAL (RH) ..... 12<br>DISTRICT HOSPITAL (RH) ..... 13<br>HEALTH CENTER ..... 14<br>HEALTH POST ..... 15<br>MILITARY HOSPITAL ..... 16<br>OTHER PUBLIC SECTOR ..... 17<br>(SPECIFY)   |   |
| 315A | Where did you learn how to use the rhythm/lactational amenorrhea/withdrawal method?<br><br><br><br><br>PROBE TO IDENTIFY THE TYPE OF SOURCE.<br><br>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.<br><br>_____<br>(NAME OF PLACE)  | PRIVATE MEDICAL SECTOR<br>PRIVATE HOSPITAL ..... 21<br>PRIVATE CLINIC ..... 22<br>PHARMACY ..... 23<br>OTHER PRIVATE MEDICAL SECTOR ..... 24<br>(SPECIFY)<br><br>OTHER<br>SHOP ..... 31<br>COMMUNITY DISTRIBUTOR ..... 32<br>FRIEND/RELATIVE ..... 33<br><br>OTHER ..... 96<br>(SPECIFY)  |   |

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP   |
|------|--|---|--|
| 316  | CHECK 304:<br><br>CIRCLE METHOD CODE:<br><br>IF MORE THAN ONE METHOD CODE CIRCLED IN 304,<br>CIRCLE CODE FOR HIGHEST METHOD IN LIST.   | IUD ..... 03<br>INJECTABLES ..... 04<br>IMPLANTS ..... 05<br>DAILY PILL ..... 06<br>MONTHLY METHOD (CHINESE PILL) 07<br>CONDOM ..... 08<br>FEMALE CONDOM ..... 09<br>DIAPHRAGM ..... 10<br>FOAM/JELLY ..... 11<br>LACTATIONAL AMEN. METHOD ..... 12<br>RHYTHM METHOD ..... 13   | <br><br><br><br>→ 323<br>→ 320<br>→ 326<br>→ 326 |
| 317  | At that time, were you told about side effects or problems you might have with the method?   | YES ..... 1<br>NO ..... 2   | → 319  |
| 317A | When you got sterilized, were you told about side effects or problems you might have with the method?  |   |  |
| 318  | Were you ever told by a health or family planning worker about side effects or problems you might have with the method?  | YES ..... 1<br>NO ..... 2   | → 320  |
| 319  | Were you told what to do if you experienced side effects or problems?  | YES ..... 1<br>NO ..... 2   |  |
| 320  | CHECK 317:<br><br><div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> CODE '1'<br/>CIRCLED <input type="checkbox"/><br/>↓<br/>At that time, were you told<br/>about other methods of family<br/>planning that you could use? </div> <div style="text-align: center;"> CODE '1'<br/>NOT<br/>CIRCLED <input type="checkbox"/><br/>↓<br/>When you obtained (CURRENT<br/>METHOD FROM 314) from<br/>(SOURCE OF METHOD FROM<br/>307 OR 315), were you told<br/>about other methods of family<br/>planning that you could use? </div> </div> | YES ..... 1<br>NO ..... 2   | → 322  |
| 321  | Were you ever told by a health or family planning worker about other methods of family planning that you could use?  | YES ..... 1<br>NO ..... 2   |  |
| 322  | CHECK 304:<br><br>CIRCLE METHOD CODE:<br><br>IF MORE THAN ONE METHOD CODE CIRCLED IN 304,<br>CIRCLE CODE FOR HIGHEST METHOD IN LIST.   | FEMALE STERILIZATION ..... 01<br>MALE STERILIZATION ..... 02<br>IUD ..... 03<br>INJECTABLES ..... 04<br>IMPLANTS ..... 05<br>DAILY PILL ..... 06<br>MONTHLY METHOD (CHINESE PILL) 07<br>CONDOM ..... 08<br>FEMALE CONDOM ..... 09<br>DIAPHRAGM ..... 10<br>FOAM/JELLY ..... 11<br>LACTATIONAL AMEN. METHOD ..... 12<br>RHYTHM METHOD ..... 13<br>WITHDRAWAL ..... 14<br>OTHER MODERN METHOD ..... 95<br>OTHER TRADITIONAL METHOD ... 96 | → 326<br>→ 326<br><br><br>→ 326                  |

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP         |
|-----|--|--|--------------|
| 323 | <p>Where did you obtain (CURRENT METHOD) the last time?</p> <p>PROBE TO IDENTIFY THE TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>_____</p> <p>(NAME OF PLACE)</p> | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSPITAL (PP) ..... 11</p> <p>PROVINCIAL HOSPITAL (RH) ..... 12</p> <p>DISTRICT HOSPITAL (RH) ..... 13</p> <p>HEALTH CENTER ..... 14</p> <p>HEALTH POST ..... 15</p> <p>MILITARY HOSPITAL ..... 16</p> <p>OTHER PUBLIC SECTOR ..... 17</p> <p>(SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIVATE HOSPITAL ..... 21</p> <p>PRIVATE CLINIC ..... 22</p> <p>PHARMACY ..... 23</p> <p>OTHER PRIVATE MEDICAL SECTOR ..... 24</p> <p>(SPECIFY)</p> <p>OTHER</p> <p>SHOP ..... 31</p> <p>COMMUNITY DISTRIBUTOR ..... 32</p> <p>FRIEND/RELATIVE ..... 33</p> <p>OTHER ..... 96</p> <p>(SPECIFY)</p> | <p>→ 326</p> |
| 324 | <p>Do you know of a place where you can obtain a method of family planning?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p>   | <p>→ 326</p> |
| 325 | <p>Where is that?</p> <p>Any other place?</p> <p>PROBE TO IDENTIFY EACH TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>_____</p> <p>(NAME OF PLACE(S))</p>           | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSPITAL (PP) ..... A</p> <p>PROVINCIAL HOSPITAL (RH) ..... B</p> <p>DISTRICT HOSPITAL (RH) ..... C</p> <p>HEALTH CENTER ..... D</p> <p>HEALTH POST ..... E</p> <p>MILITARY HOSPITAL ..... F</p> <p>OTHER PUBLIC SECTOR ..... G</p> <p>(SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIVATE HOSPITAL ..... H</p> <p>PRIVATE CLINIC ..... I</p> <p>PHARMACY ..... J</p> <p>OTHER PRIVATE MEDICAL SECTOR ..... K</p> <p>(SPECIFY)</p> <p>OTHER</p> <p>SHOP ..... L</p> <p>COMMUNITY DISTRIBUTOR ..... M</p> <p>FRIEND/RELATIVE ..... N</p> <p>OTHER ..... X</p> <p>(SPECIFY)</p>                |              |



| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES         | SKIP  |
|-----|---|---------------------------|-------|
| 326 | In the last 12 months, were you visited by a fieldworker who talked to you about family planning?   | YES ..... 1<br>NO ..... 2 |       |
| 327 | In the last 12 months, have you visited a health facility for care for yourself (or your children)? | YES ..... 1<br>NO ..... 2 | → 401 |
| 328 | Did any staff member at the health facility speak to you about family planning methods?             | YES ..... 1<br>NO ..... 2 |       |

SECTION 4. PREGNANCY AND POSTNATAL CARE

|     |   |   |   |   |
|-----|---|---|---|---|
| 401 | CHECK 224: <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">           ONE OR MORE<br/>BIRTHS<br/>IN 2009<br/>OR LATER           <div style="border: 1px solid black; width: 20px; height: 20px; margin: 5px auto;"></div> </div> <div style="text-align: center;">           NO<br/>BIRTHS<br/>IN 2009<br/>OR LATER           <div style="border: 1px solid black; width: 20px; height: 20px; margin: 5px auto;"></div> </div> </div> |   |   | → 556   |
| 402 | CHECK 215: ENTER IN THE TABLE THE BIRTH HISTORY NUMBER, NAME, AND SURVIVAL STATUS OF EACH BIRTH IN 2009 OR LATER. ASK THE QUESTIONS ABOUT ALL OF THESE BIRTHS. BEGIN WITH THE LAST BIRTH. (IF THERE ARE MORE THAN 3 BIRTHS, USE LAST 2 COLUMNS OF ADDITIONAL QUESTIONNAIRES).<br><br>Now I would like to ask some questions about your children born in the last five years. (We will talk about each separately.)  |   |   |   |
| 403 | BIRTH HISTORY NUMBER FROM 212 IN BIRTH HISTORY  | LAST BIRTH<br>BIRTH HISTORY NUMBER <div style="display: inline-block; border: 1px solid black; width: 30px; height: 20px; margin-left: 5px;"></div>   | NEXT-TO-LAST BIRTH<br>BIRTH HISTORY NUMBER <div style="display: inline-block; border: 1px solid black; width: 30px; height: 20px; margin-left: 5px;"></div>   | SECOND-FROM-LAST BIRTH<br>BIRTH HISTORY NUMBER <div style="display: inline-block; border: 1px solid black; width: 30px; height: 20px; margin-left: 5px;"></div>   |
| 404 | FROM 212 AND 216  | NAME _____<br><br>LIVING <input type="checkbox"/> DEAD <input type="checkbox"/>   | NAME _____<br><br>LIVING <input type="checkbox"/> DEAD <input type="checkbox"/>   | NAME _____<br><br>LIVING <input type="checkbox"/> DEAD <input type="checkbox"/>   |
| 405 | When you got pregnant with (NAME), did you want to get pregnant at that time?   | YES ..... 1<br>(SKIP TO 408) ←<br>NO ..... 2  | YES ..... 1<br>(SKIP TO 430) ←<br>NO ..... 2  | YES ..... 1<br>(SKIP TO 430) ←<br>NO ..... 2  |
| 406 | Did you want to have a baby later on, or did you not want any (more) children?  | LATER ..... 1<br>NO MORE ..... 2<br>(SKIP TO 408) ←   | LATER ..... 1<br>NO MORE ..... 2<br>(SKIP TO 430) ←   | LATER ..... 1<br>NO MORE ..... 2<br>(SKIP TO 430) ←   |
| 407 | How much longer did you want to wait?   | MONTHS ..1 <div style="border: 1px solid black; width: 30px; height: 20px; display: inline-block;"></div><br>YEARS ..2 <div style="border: 1px solid black; width: 30px; height: 20px; display: inline-block;"></div><br>DON'T KNOW ... 998 | MONTHS ..1 <div style="border: 1px solid black; width: 30px; height: 20px; display: inline-block;"></div><br>YEARS ..2 <div style="border: 1px solid black; width: 30px; height: 20px; display: inline-block;"></div><br>DON'T KNOW ... 998 | MONTHS ..1 <div style="border: 1px solid black; width: 30px; height: 20px; display: inline-block;"></div><br>YEARS ..2 <div style="border: 1px solid black; width: 30px; height: 20px; display: inline-block;"></div><br>DON'T KNOW ... 998 |
| 408 | Did you see anyone for antenatal care for this pregnancy?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 415) ←  |   |   |
| 409 | Whom did you see?<br><br>Anyone else?<br><br>PROBE TO IDENTIFY EACH TYPE OF PERSON AND RECORD ALL MENTIONED.  | HEALTH PERSONNEL<br>DOCTOR/MEDICAL ASSISTANT . A<br>MIDWIFE ..... B<br>NURSE ..... C<br>OTHER PERSON<br>TRADITIONAL BIRTH ATTENDANT . D<br>VILLAGE HEALTH VOLUNTEER ... E<br>OTHER _____ X<br>(SPECIFY)                                     |   |   |

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____ | SECOND-FROM-LAST BIRTH<br>NAME _____ |
|-----|--|---|----------------------------------|--------------------------------------|
| 410 | <p>Where did you receive antenatal care for this pregnancy?</p> <p>Anywhere else?</p> <p>PROBE TO IDENTIFY TYPE(S) OF SOURCE(S).</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>_____</p> <p>(NAME OF PLACE(S))</p>  | <p>HOME</p> <p>YOUR HOME ... A</p> <p>MIDWIFE/TBA</p> <p>HOME ..... B</p> <p>OTHER HOME ... C</p> <p>PUBLIC SECTOR</p> <p>NATL HOSP (PP) D</p> <p>PROV HOSP (RH) E</p> <p>DIST HOSP (RH) F</p> <p>HLTH CENTER... G</p> <p>HLTH POST ..... H</p> <p>OUTREACH ..... I</p> <p>MILITARY HOSP J</p> <p>OTHER PUBLIC SECTOR</p> <p>_____ K</p> <p>(SPECIFY)</p> <p>PRIVATE MED. SECTOR</p> <p>PRIV. HOSP ... L</p> <p>PRIV. CLINIC ... M</p> <p>OTHER PRIVATE MED. SECTOR</p> <p>_____ N</p> <p>(SPECIFY)</p> <p>OTHER _____ X</p> <p>(SPECIFY)</p> |                                  |                                      |
| 411 | <p>How many months pregnant were you when you first received antenatal care for this pregnancy?</p> <p>MONTHS ... <input type="text"/> <input type="text"/></p> <p>DON'T KNOW ..... 98</p>   |   |                                  |                                      |
| 412 | <p>How many times did you receive antenatal care during this pregnancy?</p> <p>NUMBER OF TIMES <input type="text"/> <input type="text"/></p> <p>DON'T KNOW ..... 98</p>  |   |                                  |                                      |
| 413 | <p>As part of your antenatal care during this pregnancy, were any of the following done at least once:</p> <p>YES NO</p> <p>Were you weighed? WEIGHT ... 1 2</p> <p>Was your height taken? HEIGHT ... 1 2</p> <p>Was your blood pressure measured? BP ..... 1 2</p> <p>Did you give a urine sample? URINE ..... 1 2</p> <p>Did you give a blood sample? BLOOD ... 1 2</p> <p>Did you receive nutritional counseling? NUTR COUN 1 2</p> |   |                                  |                                      |
| 414 | <p>During (any of) your antenatal care visit(s), were you told about things to look out for that might suggest problems with the pregnancy?</p> <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   |   |                                  |                                      |
| 415 | <p>During this pregnancy, were you given an injection in the arm to prevent the baby from getting tetanus, that is, convulsions after birth?</p> <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(SKIP TO 418) ←</p> <p>DON'T KNOW ..... 8</p>   |   |                                  |                                      |

| NO.  | QUESTIONS AND FILTERS   | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____ | SECOND-FROM-LAST BIRTH<br>NAME _____ |
|------|---|---|----------------------------------|--------------------------------------|
| 416  | During this pregnancy, how many times did you get a tetanus injection?  | TIMES ..... <input type="text"/><br>DON'T KNOW ..... 8                                    |                                  |                                      |
| 417  | CHECK 416:  | 2 OR MORE TIMES <input type="text"/> OTHER <input type="text"/><br>(SKIP TO 421) ↓        |                                  |                                      |
| 418  | At any time before this pregnancy, did you receive any tetanus injections?  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 421) ←<br>DON'T KNOW ... 8                          |                                  |                                      |
| 419  | Before this pregnancy, how many times did you receive a tetanus injection?<br><br>IF 7 OR MORE TIMES, RECORD '7'.                                       | TIMES ..... <input type="text"/><br><br>DON'T KNOW ..... 8                                |                                  |                                      |
| 420  | How many years ago did you receive the last tetanus injection before this pregnancy?  | YEARS AGO ..... <input type="text"/> <input type="text"/>                                 |                                  |                                      |
| 421  | During this pregnancy, were you given or did you buy any iron tablets or iron syrup?<br><br>SHOW TABLETS/SYRUP.   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 423) ←<br>DON'T KNOW ..... 8                        |                                  |                                      |
| 422  | During the whole pregnancy, for how many days did you take the tablets or syrup?<br><br>IF ANSWER IS NOT NUMERIC, PROBE FOR APPROXIMATE NUMBER OF DAYS. | DAYS <input type="text"/> <input type="text"/> <input type="text"/><br>DON'T KNOW ... 998 |                                  |                                      |
| 423  | During this pregnancy, did you take any drug for intestinal parasites?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |                                  |                                      |
| 423A | During this pregnancy, did you have difficulty with your vision during daylight?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |                                  |                                      |
| 423B | During this pregnancy, did you suffer from night blindness?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |                                  |                                      |

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____   | NEXT-TO-LAST BIRTH<br>NAME _____   | SECOND-FROM-LAST BIRTH<br>NAME _____   |
|-----|--|--|--|--|
| 424 | During this pregnancy, did you take any drugs to keep you from getting malaria?  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 430) ←<br>DON'T KNOW ..... 8   |  |  |
| 425 | What drugs did you take?<br><br>RECORD ALL MENTIONED.<br>IF TYPE OF DRUG IS NOT DETERMINED, SHOW TYPICAL ANTIMALARIAL DRUGS TO RESPONDENT. | SP/FANSIDAR ..... A<br>CHLOROQUINE ... B<br><br>OTHER _____ X<br>(SPECIFY)<br>DON'T KNOW ..... Z   |  |  |
| 426 | CHECK 425:<br><br>SP/FANSIDAR TAKEN FOR MALARIA PREVENTION.  | CODE 'A' CIRCLED <input type="checkbox"/> CODE A' NOT CIRCLED <input type="checkbox"/><br>(SKIP TO 430) ←  |  |  |
| 427 | How many times did you take (SP/Fansidar) during this pregnancy?   | TIMES ..... <input type="text"/> <input type="text"/>  |  |  |
| 428 | CHECK 409:<br><br>ANTENATAL CARE FROM HEALTH PERSONNEL DURING THIS PREGNANCY   | CODE 'A', B' OR 'C' CIRCLED <input type="checkbox"/> OTHER <input type="checkbox"/><br>(SKIP TO 430) ←   |  |  |
| 429 | Did you get the (SP/Fansidar) during any antenatal care visit, during another visit to a health facility or from another source?           | ANTENATAL VISIT .. 1<br>ANOTHER FACILITY VISIT ..... 2<br>OTHER SOURCE ..... 6   |  |  |
| 430 | When (NAME) was born, was he/she very large, larger than average, average, smaller than average, or very small?                            | VERY LARGE ..... 1<br>LARGER THAN AVERAGE ..... 2<br>AVERAGE ..... 3<br>SMALLER THAN AVERAGE ..... 4<br>VERY SMALL ..... 5<br>DON'T KNOW ..... 8   | VERY LARGE ..... 1<br>LARGER THAN AVERAGE ..... 2<br>AVERAGE ..... 3<br>SMALLER THAN AVERAGE ..... 4<br>VERY SMALL ..... 5<br>DON'T KNOW ..... 8   | VERY LARGE ..... 1<br>LARGER THAN AVERAGE ..... 2<br>AVERAGE ..... 3<br>SMALLER THAN AVERAGE ..... 4<br>VERY SMALL ..... 5<br>DON'T KNOW ..... 8   |
| 431 | Was (NAME) weighed at birth?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 433) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 433) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 433) ←<br>DON'T KNOW ..... 8   |
| 432 | How much did (NAME) weigh?<br><br>RECORD WEIGHT IN KILOGRAMS FROM HEALTH CARD, IF AVAILABLE.   | KG FROM CARD<br>1 <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/><br><br>KG FROM RECALL<br>2 <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/><br><br>DON'T KNOW 99998 | KG FROM CARD<br>1 <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/><br><br>KG FROM RECALL<br>2 <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/><br><br>DON'T KNOW 99998 | KG FROM CARD<br>1 <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/><br><br>KG FROM RECALL<br>2 <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/><br><br>DON'T KNOW 99998 |

| NO. | QUESTIONS AND FILTERS   | LAST BIRTH<br>NAME _____   | NEXT-TO-LAST BIRTH<br>NAME _____   | SECOND-FROM-LAST BIRTH<br>NAME _____   |
|-----|---|--|--|--|
| 433 | <p>Who assisted with the delivery of (NAME)?</p> <p>Anyone else?</p> <p>PROBE FOR THE TYPE(S) OF PERSON(S) AND RECORD ALL MENTIONED.</p> <p>IF RESPONDENT SAYS NO ONE ASSISTED, PROBE TO DETERMINE WHETHER ANY ADULTS WERE PRESENT AT THE DELIVERY.</p> | <p>HEALTH PERSONNEL<br/>DOCTOR/MEDICAL ASSISTANT . A<br/>MIDWIFE ..... B<br/>NURSE ..... C<br/>OTHER PERSON<br/>TRADITIONAL BIRTH ATTENDANT D<br/>RELATIVE/FRIEND E<br/><br/>OTHER _____ X<br/>(SPECIFY)<br/>NO ONE ASSISTED Y</p>   | <p>HEALTH PERSONNEL<br/>DOCTOR/MEDICAL ASSISTANT . A<br/>MIDWIFE ..... B<br/>NURSE ..... C<br/>OTHER PERSON<br/>TRADITIONAL BIRTH ATTENDANT D<br/>RELATIVE/FRIEND E<br/><br/>OTHER _____ X<br/>(SPECIFY)<br/>NO ONE ASSISTED Y</p>   | <p>HEALTH PERSONNEL<br/>DOCTOR/MEDICAL ASSISTANT . A<br/>MIDWIFE ..... B<br/>NURSE ..... C<br/>OTHER PERSON<br/>TRADITIONAL BIRTH ATTENDANT D<br/>RELATIVE/FRIEND E<br/><br/>OTHER _____ X<br/>(SPECIFY)<br/>NO ONE ASSISTED Y</p>   |
| 434 | <p>Where did you give birth to (NAME)?</p> <p>PROBE TO IDENTIFY THE TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>(NAME OF PLACE)</p>  | <p>HOME<br/>YOUR HOME ... 11<br/>(SKIP TO 438) ←<br/>OTHER HOME ... 12</p> <p>PUBLIC SECTOR<br/>NATL HOSP (PP) 21<br/>PROV HOSP (RH) 22<br/>DIST HOSP (RH) 23<br/>HLTH CENTER 24<br/>HLTH POST 25<br/>MILITARY HOSP 26<br/>OTHER PUBLIC SECTOR<br/>_____ 27<br/>(SPECIFY)<br/>PRIVATE MED. SECTOR<br/>PRIV. HOSP . 31<br/>Pf CLINIC ..... 32<br/>OTHER PRIVATE MED. SECTOR<br/>_____ 33<br/>(SPECIFY)<br/>OTHER _____ 96<br/>(SPECIFY)<br/>(SKIP TO 438) ←</p> | <p>HOME<br/>YOUR HOME ... 11<br/>(SKIP TO 448) ←<br/>OTHER HOME ... 12</p> <p>PUBLIC SECTOR<br/>NATL HOSP (PP) 21<br/>PROV HOSP (RH) 22<br/>DIST HOSP (RH) 23<br/>HLTH CENTER 24<br/>HLTH POST 25<br/>MILITARY HOSP 26<br/>OTHER PUBLIC SECTOR<br/>_____ 27<br/>(SPECIFY)<br/>PRIVATE MED. SECTOR<br/>PRIV. HOSP . 31<br/>Pf CLINIC ..... 32<br/>OTHER PRIVATE MED. SECTOR<br/>_____ 33<br/>(SPECIFY)<br/>OTHER _____ 96<br/>(SPECIFY)<br/>(SKIP TO 448) ←</p> | <p>HOME<br/>YOUR HOME ... 11<br/>(SKIP TO 448) ←<br/>OTHER HOME ... 12</p> <p>PUBLIC SECTOR<br/>NATL HOSP (PP) 21<br/>PROV HOSP (RH) 22<br/>DIST HOSP (RH) 23<br/>HLTH CENTER 24<br/>HLTH POST 25<br/>MILITARY HOSP 26<br/>OTHER PUBLIC SECTOR<br/>_____ 27<br/>(SPECIFY)<br/>PRIVATE MED. SECTOR<br/>PRIV. HOSP . 31<br/>Pf CLINIC ..... 32<br/>OTHER PRIVATE MED. SECTOR<br/>_____ 33<br/>(SPECIFY)<br/>OTHER _____ 96<br/>(SPECIFY)<br/>(SKIP TO 448) ←</p> |
| 435 | <p>Was (NAME) delivered by caesarean, that is, did they cut your belly open to take the baby out?</p>   | <p>YES, ELECTIVE ... 1<br/>YES, EMERGENCY/<br/>MEDIC INDICATED 2<br/><br/>NO ..... 3</p>   | <p>YES, ELECTIVE ... 1<br/>YES, EMERGENCY/<br/>MEDIC INDICATED 2<br/><br/>NO ..... 3</p>   | <p>YES, ELECTIVE ... 1<br/>YES, EMERGENCY/<br/>MEDIC INDICATED 2<br/><br/>NO ..... 3</p>   |
| 436 | <p>After you gave birth to (NAME), did anyone check on your health while you were still in the facility?</p>  | <p>YES ..... 1<br/>(SKIP TO 439) ←<br/>NO ..... 2</p>  |  |  |
| 437 | <p>Did anyone check on your health after you left the facility?</p>   | <p>YES ..... 1<br/>(SKIP TO 439) ←<br/>NO ..... 2<br/>(SKIP TO 446) ←</p>  |  |  |
| 438 | <p>After you gave birth to (NAME), did anyone check on your health?</p>   | <p>YES ..... 1<br/>NO ..... 2<br/>(SKIP TO 442) ←</p>  |  |  |

| NO. | QUESTIONS AND FILTERS   | LAST BIRTH<br>NAME _____   | NEXT-TO-LAST BIRTH<br>NAME _____ | SECOND-FROM-LAST BIRTH<br>NAME _____ |
|-----|---|--|----------------------------------|--------------------------------------|
| 439 | Who checked on your health at that time?<br><br>PROBE FOR MOST QUALIFIED PERSON.  | HEALTH PERSONNEL<br>DOCTOR/MEDICAL ASSISTANT . 11<br>MIDWIFE . . . . . 12<br>NURSE . . . . . 13<br>OTHER PERSON<br>TRADITIONAL BIRTH ATTENDANT 21<br>OTHER _____ 96<br>(SPECIFY)   |                                  |                                      |
| 440 | How long after delivery did the first check take place?<br><br>IF LESS THAN ONE DAY, RECORD HOURS.<br>IF LESS THAN ONE WEEK, RECORD DAYS.                                 | HOURS 1 <input type="text"/> <input type="text"/><br><br>DAYS 2 <input type="text"/> <input type="text"/><br><br>WEEKS 3 <input type="text"/> <input type="text"/><br><br>DON'T KNOW . . . 998                                     |                                  |                                      |
| 441 | In the six week after delivery, how many times did you received a check on your health?   | TIMES <input type="text"/> <input type="text"/><br><br>DON'T KNOW . . . 98   |                                  |                                      |
| 442 | In the six weeks after (NAME) was born, did any health care provider or a traditional birth attendant check on his/her health?  | YES . . . . . 1<br>NO . . . . . 2<br>(SKIP TO 446) ←<br>DON'T KNOW . . . . 8   |                                  |                                      |
| 443 | How many hours, days or weeks after the birth of (NAME) did the first check take place?<br><br>IF LESS THAN ONE DAY, RECORD HOURS.<br>IF LESS THAN ONE WEEK, RECORD DAYS. | HRS AFTER BIRTH . . 1 <input type="text"/> <input type="text"/><br>DAYS AFTER BIRTH . . 2 <input type="text"/> <input type="text"/><br>WKS AFTER BIRTH . . 3 <input type="text"/> <input type="text"/><br><br>DON'T KNOW . . . 998 |                                  |                                      |
| 444 | Who checked on (NAME)'s health at that time?<br><br>PROBE FOR MOST QUALIFIED PERSON.  | HEALTH PERSONNEL<br>DOCTOR/MEDICAL ASSISTANT . 11<br>MIDWIFE . . . . . 12<br>NURSE . . . . . 13<br>OTHER PERSON<br>TRADITIONAL BIRTH ATTENDANT 21<br>OTHER _____ 96<br>(SPECIFY)   |                                  |                                      |

| NO.  | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____   | SECOND-FROM-LAST BIRTH<br>NAME _____   |
|------|--|---|--|--|
| 445  | <p>Where did this first check of (NAME) take place?</p> <p>PROBE TO IDENTIFY THE TYPE OF SOURCE AND CIRCLE THE APPROPRIATE CODE.</p> <p>IF UNABLE TO DETERMINE IF A HOSPITAL, HEALTH CENTER, OR CLINIC IS PUBLIC OR PRIVATE MEDICAL, WRITE THE NAME OF THE PLACE.</p> <p>_____</p> <p>(NAME OF PLACE)</p>  | <p>HOME</p> <p>YOUR HOME ... 11</p> <p>OTHER HOME ... 12</p> <p>PUBLIC SECTOR</p> <p>NATL HOSP (PP) 21</p> <p>PROV HOSP (RH) 22</p> <p>DIST HOSP (RH) 23</p> <p>HLTH CENTER 24</p> <p>HLTH POST 25</p> <p>MILITARY HOSP 26</p> <p>OTHER PUBLIC SECTOR</p> <p>_____ 27</p> <p>(SPECIFY)</p> <p>PRIVATE MED. SECTOR</p> <p>PRIV. HOSP . 31</p> <p>PF CLINIC ..... 32</p> <p>OTHER PRIVATE MED. SECTOR</p> <p>_____ 33</p> <p>(SPECIFY)</p> <p>OTHER _____ 96</p> <p>(SPECIFY)</p> |  |  |
| 445A | <p>In the six week after (NAME) was born, many times did a health care provider or a traditional birth attendant check on his/her health?</p> <p>TIMES <input type="text"/> <input type="text"/></p> <p>DON'T KNOW ... 98</p>  |   |  |  |
| 446  | <p>In the first six weeks after delivery, did you receive</p> <p>YES NO</p> <p>A deworming tablet (this/these)? DEWORMING 1 2</p> <p>An advice on contraception? CONTRA-CEPTION 1 2</p> <p>A counseling for newborn care? COUN NEWB 1 2</p> <p>An iron tablet (like this/these)? IRON ..... 1 2</p> <p>SHOW COMMON TYPES OF AMPULES/CAPSULES/SYRUPS. (SKIP TO 447) ←</p> |   |  |  |
| 446A | <p>In the first six weeks after delivery, how many days did you receive iron tablets ?</p> <p>DAYS <input type="text"/> <input type="text"/></p> <p>DON'T KNOW ... 98</p>  |   |  |  |
| 447  | <p>Has your menstrual period returned since the birth of (NAME)?</p> <p>YES ..... 1</p> <p>(SKIP TO 449) ←</p> <p>NO ..... 2</p> <p>(SKIP TO 450) ←</p>  |   |  |  |
| 448  | <p>Did your period return between the birth of (NAME) and your next pregnancy?</p>   |   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(SKIP TO 452) ←</p>                            | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(SKIP TO 452) ←</p>                            |
| 449  | <p>For how many months after the birth of (NAME) did you not have a period?</p>  | <p>MONTHS ... <input type="text"/> <input type="text"/></p> <p>DON'T KNOW ..... 98</p>  | <p>MONTHS ... <input type="text"/> <input type="text"/></p> <p>DON'T KNOW ..... 98</p> | <p>MONTHS ... <input type="text"/> <input type="text"/></p> <p>DON'T KNOW ..... 98</p> |



| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____ | SECOND-FROM-LAST BIRTH<br>NAME _____ |
|-----|--|---|----------------------------------|--------------------------------------|
| 450 | CHECK 226:<br><br>IS RESPONDENT PREGNANT?  | NOT <input type="checkbox"/> PREGNANT<br>PREG- OR <input type="checkbox"/><br>NANT UNSURE<br>(SKIP TO 452) ←  |                                  |                                      |
| 451 | Have you had sexual intercourse since the birth of (NAME)?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 453) ←  |                                  |                                      |
| 452 | For how many months after the birth of (NAME) did you not have sexual intercourse?   | MONTHS ... <input type="text"/> <input type="text"/><br>DON'T KNOW ..... 98   |                                  |                                      |
| 453 | Did you ever breastfeed (NAME)?  | YES ..... 1<br>(SKIP TO 455) ←<br>NO ..... 2  | YES ..... 1<br>NO ..... 2        | YES ..... 1<br>NO ..... 2            |
| 454 | CHECK 404:<br><br>IS CHILD LIVING?   | LIVING <input type="checkbox"/> DEAD <input type="checkbox"/><br>(SKIP TO 460) (GO BACK TO 405 IN NEXT COLUMN; OR IF NO MORE BIRTHS, GO TO 501)   |                                  |                                      |
| 455 | How long after birth did you first put (NAME) to the breast?<br><br>IF LESS THAN 1 HOUR, RECORD '00' HOURS.<br>IF LESS THAN 24 HOURS, RECORD HOURS.<br>OTHERWISE, RECORD DAYS. | IMMEDIATELY ... 000<br><br>HOURS 1 <input type="text"/> <input type="text"/><br>DAYS 2 <input type="text"/> <input type="text"/>  |                                  |                                      |
| 456 | In the first three days after delivery, was (NAME) given anything to drink other than breast milk such as chheu em?  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 458) ←  |                                  |                                      |
| 457 | What was (NAME) given to drink?<br><br>Anything else?<br><br>RECORD ALL LIQUIDS MENTIONED.   | MILK (OTHER THAN BREAST MILK ) A<br>PLAIN WATER ... B<br>SUGAR OR HONEY WATER ... C<br>SUGAR-SALT-WATER SOLUTION ..... D<br>COCONUT/FRUIT JUICE ..... E<br>INFANT FORMULA F<br>HERBAL TEA ... G<br><br>OTHER _____ X<br>(SPECIFY) |                                  |                                      |

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____  | SECOND-FROM-LAST BIRTH<br>NAME _____   |
|-----|--|---|---|--|
| 458 | CHECK 404:<br><br>IS CHILD LIVING?   | <div> <div>LIVING</div> <div>DEAD</div> <div> <input type="checkbox"/> </div> <div>           (GO BACK TO 405 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 501)         </div> </div> | <div> <div>LIVING</div> <div>DEAD</div> <div> <input type="checkbox"/> </div> <div>           (GO BACK TO 405 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 501)         </div> </div> | <div> <div>LIVING</div> <div>DEAD</div> <div> <input type="checkbox"/> </div> <div>           (GO BACK TO 405 IN NEXT-TO-LAST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE BIRTHS, GO TO 501)         </div> </div> |
| 459 | Are you still breastfeeding (NAME)?  | YES ..... 1<br>NO ..... 2   |   |  |
| 460 | Did (NAME) drink anything from a bottle with a nipple yesterday or last night? | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |
| 461 |  | GO BACK TO 405 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 501.  | GO BACK TO 405 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 501.  | GO BACK TO 405 IN NEXT-TO-LAST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE BIRTHS, GO TO 501.  |

## SECTION 5. CHILD IMMUNIZATION, HEALTH AND NUTRITION

| 501                               | ENTER IN THE TABLE THE BIRTH HISTORY NUMBER, NAME, AND SURVIVAL STATUS OF EACH BIRTH IN 2009 OR LATER. ASK THE QUESTIONS ABOUT ALL OF THESE BIRTHS. BEGIN WITH THE LAST BIRTH. (IF THERE ARE MORE THAN 3 BIRTHS, USE LAST 2 COLUMNS OF ADDITIONAL QUESTIONNAIRES).   |       |      |  |       |      |  |       |      |   |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
|-----------------------------------|--|-------|------|--|-------|------|--|-------|------|---|--|--|--|------------|--|--|--------------------|--|--|------------------------|--|--|--|-----|-------|------|-----|-------|------|-----|-------|------|-----|--|--|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|----------------------|--|--|--|--|--|--|--|--|--|----------------------|--|--|--|--|--|--|--|--|--|----------------------|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|-------------------------|--|--|--|--|--|--|--|--|--|
| 502                               | BIRTH HISTORY NUMBER FROM 212 IN BIRTH HISTORY   |       |      | LAST BIRTH<br>BIRTH HISTORY NUMBER   |       |      | NEXT-TO-LAST BIRTH<br>BIRTH HISTORY NUMBER   |       |      | SECOND-FROM-LAST BIRTH<br>BIRTH HISTORY NUMBER  |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| 503                               | FROM 212 AND 216   |       |      | NAME<br>LIVING DEAD<br>(GO TO 503 IN NEXT COLUMN OR, IF NO MORE BIRTHS, GO TO 553) |       |      | NAME<br>LIVING DEAD<br>(GO TO 503 IN NEXT COLUMN OR, IF NO MORE BIRTHS, GO TO 553) |       |      | NAME<br>LIVING DEAD<br>(GO TO 503 IN NEXT-TO-LAST COLUMN OF NEW QUESTIONNAIRE, OR IF NO MORE BIRTHS, GO TO 553) |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| 504                               | Do you have a card where (NAME)'s vaccinations are written down?<br>IF YES:<br>May I see it please?  |       |      | YES, SEEN 1<br>(SKIP TO 506)<br>YES, NOT SEEN 2<br>(SKIP TO 509)<br>NO CARD 3      |       |      | YES, SEEN 1<br>(SKIP TO 506)<br>YES, NOT SEEN 2<br>(SKIP TO 509)<br>NO CARD 3      |       |      | YES, SEEN 1<br>(SKIP TO 506)<br>YES, NOT SEEN 2<br>(SKIP TO 509)<br>NO CARD 3                                   |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| 505                               | Did you ever have a vaccination card for (NAME)?   |       |      | YES 1<br>(SKIP TO 509)<br>NO 2   |       |      | YES 1<br>(SKIP TO 509)<br>NO 2   |       |      | YES 1<br>(SKIP TO 509)<br>NO 2  |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| 506                               | <p>(1) COPY DATES FROM THE CARD.<br/>(2) WRITE '44' IN 'DAY' COLUMN IF CARD SHOWS THAT A DOSE WAS GIVEN, BUT NO DATE IS RECORDED.</p> <table border="1"> <thead> <tr> <th></th><th colspan="3">LAST BIRTH</th><th colspan="3">NEXT-TO-LAST BIRTH</th><th colspan="3">SECOND-FROM-LAST BIRTH</th></tr> <tr> <th></th><th>DAY</th><th>MONTH</th><th>YEAR</th><th>DAY</th><th>MONTH</th><th>YEAR</th><th>DAY</th><th>MONTH</th><th>YEAR</th></tr> </thead> <tbody> <tr> <td>BCG</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>HB 0 (HEPATITIS B GIVEN AT BIRTH)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>OPV 1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>OPV 2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>OPV 3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>TETRA /PENTAVALENT 1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>TETRA /PENTAVALENT 2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>TETRA /PENTAVALENT 3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>MEASLES</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>VITAMIN A (MOST RECENT)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> |       |      |  |       |      |  |       |      |   |  |  |  | LAST BIRTH |  |  | NEXT-TO-LAST BIRTH |  |  | SECOND-FROM-LAST BIRTH |  |  |  | DAY | MONTH | YEAR | DAY | MONTH | YEAR | DAY | MONTH | YEAR | BCG |  |  |  |  |  |  |  |  |  | HB 0 (HEPATITIS B GIVEN AT BIRTH) |  |  |  |  |  |  |  |  |  | OPV 1 |  |  |  |  |  |  |  |  |  | OPV 2 |  |  |  |  |  |  |  |  |  | OPV 3 |  |  |  |  |  |  |  |  |  | TETRA /PENTAVALENT 1 |  |  |  |  |  |  |  |  |  | TETRA /PENTAVALENT 2 |  |  |  |  |  |  |  |  |  | TETRA /PENTAVALENT 3 |  |  |  |  |  |  |  |  |  | MEASLES |  |  |  |  |  |  |  |  |  | VITAMIN A (MOST RECENT) |  |  |  |  |  |  |  |  |  |
|                                   | LAST BIRTH   |       |      | NEXT-TO-LAST BIRTH   |       |      | SECOND-FROM-LAST BIRTH   |       |      |   |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
|                                   | DAY  | MONTH | YEAR | DAY  | MONTH | YEAR | DAY  | MONTH | YEAR |   |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| BCG                               |  |       |      |  |       |      |  |       |      |   |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| HB 0 (HEPATITIS B GIVEN AT BIRTH) |  |       |      |  |       |      |  |       |      |   |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| OPV 1                             |  |       |      |  |       |      |  |       |      |   |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| OPV 2                             |  |       |      |  |       |      |  |       |      |   |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| OPV 3                             |  |       |      |  |       |      |  |       |      |   |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| TETRA /PENTAVALENT 1              |  |       |      |  |       |      |  |       |      |   |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| TETRA /PENTAVALENT 2              |  |       |      |  |       |      |  |       |      |   |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| TETRA /PENTAVALENT 3              |  |       |      |  |       |      |  |       |      |   |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| MEASLES                           |  |       |      |  |       |      |  |       |      |   |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| VITAMIN A (MOST RECENT)           |  |       |      |  |       |      |  |       |      |   |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |
| 507                               | CHECK 506:   |       |      | BCG TO MEASLES ALL RECORDED OTHER<br>(GO TO 511)                                   |       |      | BCG TO MEASLES ALL RECORDED OTHER<br>(GO TO 511)                                   |       |      | BCG TO MEASLES ALL RECORDED OTHER<br>(GO TO 511)  |  |  |  |            |  |  |                    |  |  |                        |  |  |  |     |       |      |     |       |      |     |       |      |     |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |

| NO.  | QUESTIONS AND FILTERS   | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____  | SECOND-FROM-LAST BIRTH<br>NAME _____  |
|------|---|---|---|---|
| 508  | Has (NAME) had any vaccinations that are not recorded on this card, including vaccinations given in a national immunization day campaign?<br><br>RECORD 'YES' ONLY IF THE RESPONDENT MENTIONS AT LEAST ONE OF THE VACCINATIONS IN 506 THAT ARE NOT RECORDED AS HAVING BEEN GIVEN. | YES ..... 1<br>(PROBE FOR ←<br>VACCINATIONS AND<br>WRITE '66' IN THE<br>CORRESPONDING<br>DAY COLUMN IN 506)<br><br>(SKIP TO 511) ←<br>NO ..... 2<br>(SKIP TO 511) ←<br>DON'T KNOW ..... 8 | YES ..... 1<br>(PROBE FOR ←<br>VACCINATIONS AND<br>WRITE '66' IN THE<br>CORRESPONDING<br>DAY COLUMN IN 506)<br><br>(SKIP TO 511) ←<br>NO ..... 2<br>(SKIP TO 511) ←<br>DON'T KNOW ..... 8 | YES ..... 1<br>(PROBE FOR ←<br>VACCINATIONS AND<br>WRITE '66' IN THE<br>CORRESPONDING<br>DAY COLUMN IN 506)<br><br>(SKIP TO 511) ←<br>NO ..... 2<br>(SKIP TO 511) ←<br>DON'T KNOW ..... 8 |
| 509  | Did (NAME) ever have any vaccinations to prevent him/her from getting diseases, including vaccinations received in a national immunization day campaign?  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 511) ←<br>DON'T KNOW ..... 8  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 511) ←<br>DON'T KNOW ..... 8  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 511) ←<br>DON'T KNOW ..... 8  |
| 510  | Please tell me if (NAME) had any of the following vaccinations:   |   |   |   |
| 510A | A BCG vaccination against tuberculosis, that is, an injection in the left arm or shoulder that usually causes a scar?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |
| 510B | Polio vaccine, that is, drops in the mouth?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 510E) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 510E) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 510E) ←<br>DON'T KNOW ..... 8   |
| 510D | How many times was the polio vaccine given?   | NUMBER<br>OF TIMES ..... <input type="text"/>   | NUMBER<br>OF TIMES ..... <input type="text"/>   | NUMBER<br>OF TIMES ..... <input type="text"/>   |
| 510E | A Tetravalent/Pentavalent vaccination, that is, an injection given in the thigh, sometimes at the same time as polio drops?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 510G) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 510G) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 510G) ←<br>DON'T KNOW ..... 8   |
| 510F | How many times was the Tetravalent/Pentavalent vaccination given?   | NUMBER<br>OF TIMES ..... <input type="text"/>   | NUMBER<br>OF TIMES ..... <input type="text"/>   | NUMBER<br>OF TIMES ..... <input type="text"/>   |
| 510G | A measles injection - that is, a shot in the arm at the age of 9-11 months - to prevent him/her from getting measles?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |
| 510H | A hepatitis B vaccination against hepatitis, that is, an injection given in the right thigh in the first weeks after birth?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____   | NEXT-TO-LAST BIRTH<br>NAME _____   | SECOND-FROM-LAST BIRTH<br>NAME _____   |
|-----|--|--|--|--|
| 511 | <p>Within the last six months, was (NAME) given a vitamin A dose like (this/any of these)?</p> <p>SHOW COMMON TYPES OF AMPULES/CAPSULES/SYRUPS.</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   |
| 512 | <p>In the last seven days, was (NAME) given micrinutrient powder like (this/any of these)?</p> <p>SHOW PACKAGE OF MICRONUTRIENT POWDER</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   |
| 513 | <p>Was (NAME) given any drug for intestinal worms in the last six months?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   |
| 514 | <p>Has (NAME) had diarrhea in the last 2 weeks?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(SKIP TO 525) ←</p> <p>DON'T KNOW ..... 8</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(SKIP TO 525) ←</p> <p>DON'T KNOW ..... 8</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(SKIP TO 525) ←</p> <p>DON'T KNOW ..... 8</p>  |
| 515 | <p>Was there any blood in the stools?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   |
| 516 | <p>Now I would like to know how much (NAME) was given to drink during the diarrhea (including breastmilk).</p> <p>Was he/she given less than usual to drink, about the same amount, or more than usual to drink?</p> <p>IF LESS, PROBE: Was he/she given much less than usual to drink or somewhat less?</p> | <p>MUCH LESS ..... 1</p> <p>SOMEWHAT LESS ..... 2</p> <p>ABOUT THE SAME ..... 3</p> <p>MORE ..... 4</p> <p>NOTHING TO DRINK ..... 5</p> <p>DON'T KNOW ..... 8</p>                            | <p>MUCH LESS ..... 1</p> <p>SOMEWHAT LESS ..... 2</p> <p>ABOUT THE SAME ..... 3</p> <p>MORE ..... 4</p> <p>NOTHING TO DRINK ..... 5</p> <p>DON'T KNOW ..... 8</p>                            | <p>MUCH LESS ..... 1</p> <p>SOMEWHAT LESS ..... 2</p> <p>ABOUT THE SAME ..... 3</p> <p>MORE ..... 4</p> <p>NOTHING TO DRINK ..... 5</p> <p>DON'T KNOW ..... 8</p>                            |
| 517 | <p>When (NAME) had diarrhea, was he/she given less than usual to eat, about the same amount, more than usual, or nothing to eat?</p> <p>IF LESS, PROBE: Was he/she given much less than usual to eat or somewhat less?</p>   | <p>MUCH LESS ..... 1</p> <p>SOMEWHAT LESS ..... 2</p> <p>ABOUT THE SAME ..... 3</p> <p>MORE ..... 4</p> <p>STOPPED FOOD ..... 5</p> <p>NEVER GAVE FOOD ..... 6</p> <p>DON'T KNOW ..... 8</p> | <p>MUCH LESS ..... 1</p> <p>SOMEWHAT LESS ..... 2</p> <p>ABOUT THE SAME ..... 3</p> <p>MORE ..... 4</p> <p>STOPPED FOOD ..... 5</p> <p>NEVER GAVE FOOD ..... 6</p> <p>DON'T KNOW ..... 8</p> | <p>MUCH LESS ..... 1</p> <p>SOMEWHAT LESS ..... 2</p> <p>ABOUT THE SAME ..... 3</p> <p>MORE ..... 4</p> <p>STOPPED FOOD ..... 5</p> <p>NEVER GAVE FOOD ..... 6</p> <p>DON'T KNOW ..... 8</p> |
| 518 | <p>Did you seek advice or treatment for the diarrhea from any source?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(SKIP TO 522) ←</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(SKIP TO 522) ←</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(SKIP TO 522) ←</p>  |

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____   | NEXT-TO-LAST BIRTH<br>NAME _____   | SECOND-FROM-LAST BIRTH<br>NAME _____   |
|-----|--|--|--|--|
| 519 | <p>Where did you seek advice or treatment?</p> <p>Anywhere else?</p> <p>PROBE TO IDENTIFY EACH TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>_____ (NAME OF PLACE(S))</p> | <p>PUBLIC SECTOR</p> <p>NATL HOSP (PP) A</p> <p>PROV HOSP (RH) B</p> <p>DIST HOSP (RH) C</p> <p>HLTH CENTER . D</p> <p>HLTH POST ... E</p> <p>OUTREACH ... F</p> <p>MILITARY HOSP G</p> <p>OTHER PUBLIC SECTOR ... H</p> <p>_____ (SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIV. HOSP ... I</p> <p>PRIV. CLINIC ... J</p> <p>PHARMACY ... K</p> <p>HOME OF TRAINED HEALTH WORKER ... L</p> <p>VISIT OF TRAINED HEALTH WORKER ... M</p> <p>OTHER PRIVATE MED. SECTOR N</p> <p>_____ (SPECIFY)</p> <p>OTHER SOURCE</p> <p>SHOP ..... O</p> <p>TRADITIONAL PRACTITIONER P</p> <p>OTHER _____ X</p> <p>_____ (SPECIFY)</p> | <p>PUBLIC SECTOR</p> <p>NATL HOSP (PP) A</p> <p>PROV HOSP (RH) B</p> <p>DIST HOSP (RH) C</p> <p>HLTH CENTER . D</p> <p>HLTH POST ... E</p> <p>OUTREACH ... F</p> <p>MILITARY HOSP G</p> <p>OTHER PUBLIC SECTOR ... H</p> <p>_____ (SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIV. HOSP ... I</p> <p>PRIV. CLINIC ... J</p> <p>PHARMACY ... K</p> <p>HOME OF TRAINED HEALTH WORKER ... L</p> <p>VISIT OF TRAINED HEALTH WORKER ... M</p> <p>OTHER PRIVATE MED. SECTOR N</p> <p>_____ (SPECIFY)</p> <p>OTHER SOURCE</p> <p>SHOP ..... O</p> <p>TRADITIONAL PRACTITIONER P</p> <p>OTHER _____ X</p> <p>_____ (SPECIFY)</p> | <p>PUBLIC SECTOR</p> <p>NATL HOSP (PP) A</p> <p>PROV HOSP (RH) B</p> <p>DIST HOSP (RH) C</p> <p>HLTH CENTER . D</p> <p>HLTH POST ... E</p> <p>OUTREACH ... F</p> <p>MILITARY HOSP G</p> <p>OTHER PUBLIC SECTOR ... H</p> <p>_____ (SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIV. HOSP ... I</p> <p>PRIV. CLINIC ... J</p> <p>PHARMACY ... K</p> <p>HOME OF TRAINED HEALTH WORKER ... L</p> <p>VISIT OF TRAINED HEALTH WORKER ... M</p> <p>OTHER PRIVATE MED. SECTOR N</p> <p>_____ (SPECIFY)</p> <p>OTHER SOURCE</p> <p>SHOP ..... O</p> <p>TRADITIONAL PRACTITIONER P</p> <p>OTHER _____ X</p> <p>_____ (SPECIFY)</p> |
| 520 | CHECK 519:   | <p>TWO OR ONLY</p> <p><input type="checkbox"/> MORE ONE <input type="checkbox"/></p> <p>CODES CODE</p> <p>CIRCLED CIRCLED</p> <p>↓ (SKIP TO 522) ←</p>   | <p>TWO OR ONLY</p> <p><input type="checkbox"/> MORE ONE <input type="checkbox"/></p> <p>CODES CODE</p> <p>CIRCLED CIRCLED</p> <p>↓ (SKIP TO 522) ←</p>   | <p>TWO OR ONLY</p> <p><input type="checkbox"/> MORE ONE <input type="checkbox"/></p> <p>CODES CODE</p> <p>CIRCLED CIRCLED</p> <p>↓ (SKIP TO 522) ←</p>   |
| 521 | <p>Where did you first seek advice or treatment?</p> <p>USE LETTER CODE FROM 519.</p>  | FIRST PLACE ... <input type="checkbox"/>   | FIRST PLACE ... <input type="checkbox"/>   | FIRST PLACE ... <input type="checkbox"/>   |
| 522 | <p>Was he/she given any of the following to drink at any time since he/she started having the diarrhea:</p> <p>a) A fluid made from a special packet called Oralyte?</p> <p>b) A ORS Tablet called Oralyte?</p>                            | <p>YES NO DK</p> <p>FLUID FROM</p> <p>ORS PKT 1 2 8</p> <p>ORS TAB 1 2 8</p>   | <p>YES NO DK</p> <p>FLUID FROM</p> <p>ORS PKT 1 2 8</p> <p>ORS TAB 1 2 8</p>   | <p>YES NO DK</p> <p>FLUID FROM</p> <p>ORS PKT 1 2 8</p> <p>ORS TAB 1 2 8</p>   |

| NO. | QUESTIONS AND FILTERS   | LAST BIRTH<br>NAME _____   | NEXT-TO-LAST BIRTH<br>NAME _____   | SECOND-FROM-LAST BIRTH<br>NAME _____   |
|-----|---|--|--|--|
| 523 | Was anything (else) given to treat the diarrhea?  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 525) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 525) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 525) ←<br>DON'T KNOW ..... 8   |
| 524 | What (else) was given to treat the diarrhea?<br><br>Anything else?<br><br>RECORD ALL TREATMENTS GIVEN.                                | PILL OR SYRUP<br>ANTIBIOTIC ..... A<br>ANTIMOTILITY ..... B<br>ZINC ..... C<br>OTHER (NOT ANTI-BIOTIC, ANTI-MOTILITY, OR ZINC) ..... D<br>UNKNOWN PILL OR SYRUP ... E<br><br>INJECTION<br>ANTIBIOTIC ..... F<br>NON-ANTIBIOTIC G<br>UNKNOWN INJECTION ... H<br><br>(IV) INTRAVENOUS I<br><br>HOME REMEDY/ HERBAL MED-ICINE ..... J<br><br>OTHER _____ X<br>(SPECIFY) | PILL OR SYRUP<br>ANTIBIOTIC ..... A<br>ANTIMOTILITY ..... B<br>ZINC ..... C<br>OTHER (NOT ANTI-BIOTIC, ANTI-MOTILITY, OR ZINC) ..... D<br>UNKNOWN PILL OR SYRUP ... E<br><br>INJECTION<br>ANTIBIOTIC ..... F<br>NON-ANTIBIOTIC G<br>UNKNOWN INJECTION ... H<br><br>(IV) INTRAVENOUS I<br><br>HOME REMEDY/ HERBAL MED-ICINE ..... J<br><br>OTHER _____ X<br>(SPECIFY) | PILL OR SYRUP<br>ANTIBIOTIC ..... A<br>ANTIMOTILITY ..... B<br>ZINC ..... C<br>OTHER (NOT ANTI-BIOTIC, ANTI-MOTILITY, OR ZINC) ..... D<br>UNKNOWN PILL OR SYRUP ... E<br><br>INJECTION<br>ANTIBIOTIC ..... F<br>NON-ANTIBIOTIC G<br>UNKNOWN INJECTION ... H<br><br>(IV) INTRAVENOUS I<br><br>HOME REMEDY/ HERBAL MED-ICINE ..... J<br><br>OTHER _____ X<br>(SPECIFY) |
| 525 | Has (NAME) been ill with a fever at any time in the last 2 weeks?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 527) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 527) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 527) ←<br>DON'T KNOW ..... 8   |
| 526 | At any time during the illness, did (NAME) have blood taken from his/her finger or heel for testing?                                  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |
| 527 | Has (NAME) had an illness with a cough at any time in the last 2 weeks?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 530) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 530) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 530) ←<br>DON'T KNOW ..... 8   |
| 528 | When (NAME) had an illness with a cough, did he/she breathe faster than usual with short, rapid breaths or have difficulty breathing? | YES ..... 1<br>NO ..... 2<br>(SKIP TO 531) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 531) ←<br>DON'T KNOW ..... 8   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 531) ←<br>DON'T KNOW ..... 8   |
| 529 | Was the fast or difficult breathing due to a problem in the chest or to a blocked or runny nose?                                      | CHEST ONLY ... 1<br>NOSE ONLY ..... 2<br>BOTH ..... 3<br>OTHER _____ 6<br>(SPECIFY)<br>DON'T KNOW ..... 8<br>(SKIP TO 531) ←   | CHEST ONLY ... 1<br>NOSE ONLY ..... 2<br>BOTH ..... 3<br>OTHER _____ 6<br>(SPECIFY)<br>DON'T KNOW ..... 8<br>(SKIP TO 531) ←   | CHEST ONLY ... 1<br>NOSE ONLY ..... 2<br>BOTH ..... 3<br>OTHER _____ 6<br>(SPECIFY)<br>DON'T KNOW ..... 8<br>(SKIP TO 531) ←   |

| NO. | QUESTIONS AND FILTERS   | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____  | SECOND-FROM-LAST BIRTH<br>NAME _____   |
|-----|---|---|---|--|
| 530 | CHECK 525:<br><br>HAD FEVER?  | YES <input type="checkbox"/><br>NO OR DK <input type="checkbox"/><br>(GO BACK TO 503 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 553)                        | YES <input type="checkbox"/><br>NO OR DK <input type="checkbox"/><br>(GO BACK TO 503 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 553)                        | YES <input type="checkbox"/><br>NO OR DK <input type="checkbox"/><br>(GO TO 503 IN NEXT-TO-LAST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE BIRTHS, GO TO 553) |
| 531 | Now I would like to know how much (NAME) was given to drink (including breastmilk) during the illness with a (fever/cough).<br>Was he/she given less than usual to drink, about the same amount, or more than usual to drink?<br><br>IF LESS, PROBE: Was he/she given much less than usual to drink or somewhat less? | MUCH LESS ..... 1<br>SOMEWHAT LESS ..... 2<br>ABOUT THE SAME ..... 3<br>MORE ..... 4<br>NOTHING TO DRINK ..... 5<br>DON'T KNOW ..... 8                        | MUCH LESS ..... 1<br>SOMEWHAT LESS ..... 2<br>ABOUT THE SAME ..... 3<br>MORE ..... 4<br>NOTHING TO DRINK ..... 5<br>DON'T KNOW ..... 8                        | MUCH LESS ..... 1<br>SOMEWHAT LESS ..... 2<br>ABOUT THE SAME ..... 3<br>MORE ..... 4<br>NOTHING TO DRINK ..... 5<br>DON'T KNOW ..... 8                         |
| 532 | When (NAME) had a (fever/cough), was he/she given less than usual to eat, about the same amount, more than usual, or nothing to eat?<br><br>IF LESS, PROBE: Was he/she given much less than usual to eat or somewhat less?  | MUCH LESS ..... 1<br>SOMEWHAT LESS ..... 2<br>ABOUT THE SAME ..... 3<br>MORE ..... 4<br>STOPPED FOOD ..... 5<br>NEVER GAVE FOOD ..... 6<br>DON'T KNOW ..... 8 | MUCH LESS ..... 1<br>SOMEWHAT LESS ..... 2<br>ABOUT THE SAME ..... 3<br>MORE ..... 4<br>STOPPED FOOD ..... 5<br>NEVER GAVE FOOD ..... 6<br>DON'T KNOW ..... 8 | MUCH LESS ..... 1<br>SOMEWHAT LESS ..... 2<br>ABOUT THE SAME ..... 3<br>MORE ..... 4<br>STOPPED FOOD ..... 5<br>NEVER GAVE FOOD ..... 6<br>DON'T KNOW ..... 8  |
| 533 | Did you seek advice or treatment for the illness from any source?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 537) ←  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 537) ←  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 537) ←   |



| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____   | NEXT-TO-LAST BIRTH<br>NAME _____   | SECOND-FROM-LAST BIRTH<br>NAME _____   |
|-----|--|--|--|--|
| 534 | <p>Where did you seek advice or treatment?</p> <p>Anywhere else?</p> <p>PROBE TO IDENTIFY EACH TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>_____ (NAME OF PLACE(S))</p> | <p>PUBLIC SECTOR</p> <p>NATL HOSP (PP) A</p> <p>PROV HOSP (RH) B</p> <p>DIST HOSP (RH) C</p> <p>HLTH CENTER . D</p> <p>HLTH POST ... E</p> <p>OUTREACH ... F</p> <p>MILITARY HOSP G</p> <p>OTHER PUBLIC SECTOR ... H</p> <p>_____ (SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIV. HOSP ... I</p> <p>PRIV. CLINIC ... J</p> <p>PHARMACY ... K</p> <p>HOME OF TRAINED HEALTH WORKER ... L</p> <p>VISIT OF TRAINED HEALTH WORKER ... M</p> <p>OTHER PRIVATE MED. SECTOR N</p> <p>_____ (SPECIFY)</p> <p>OTHER SOURCE</p> <p>SHOP ..... O</p> <p>TRADITIONAL PRACTITIONER P</p> <p>OTHER _____ X</p> <p>_____ (SPECIFY)</p> | <p>PUBLIC SECTOR</p> <p>NATL HOSP (PP) A</p> <p>PROV HOSP (RH) B</p> <p>DIST HOSP (RH) C</p> <p>HLTH CENTER . D</p> <p>HLTH POST ... E</p> <p>OUTREACH ... F</p> <p>MILITARY HOSP G</p> <p>OTHER PUBLIC SECTOR ... H</p> <p>_____ (SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIV. HOSP ... I</p> <p>PRIV. CLINIC ... J</p> <p>PHARMACY ... K</p> <p>HOME OF TRAINED HEALTH WORKER ... L</p> <p>VISIT OF TRAINED HEALTH WORKER ... M</p> <p>OTHER PRIVATE MED. SECTOR N</p> <p>_____ (SPECIFY)</p> <p>OTHER SOURCE</p> <p>SHOP ..... O</p> <p>TRADITIONAL PRACTITIONER P</p> <p>OTHER _____ X</p> <p>_____ (SPECIFY)</p> | <p>PUBLIC SECTOR</p> <p>NATL HOSP (PP) A</p> <p>PROV HOSP (RH) B</p> <p>DIST HOSP (RH) C</p> <p>HLTH CENTER . D</p> <p>HLTH POST ... E</p> <p>OUTREACH ... F</p> <p>MILITARY HOSP G</p> <p>OTHER PUBLIC SECTOR ... H</p> <p>_____ (SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIV. HOSP ... I</p> <p>PRIV. CLINIC ... J</p> <p>PHARMACY ... K</p> <p>HOME OF TRAINED HEALTH WORKER ... L</p> <p>VISIT OF TRAINED HEALTH WORKER ... M</p> <p>OTHER PRIVATE MED. SECTOR N</p> <p>_____ (SPECIFY)</p> <p>OTHER SOURCE</p> <p>SHOP ..... O</p> <p>TRADITIONAL PRACTITIONER P</p> <p>OTHER _____ X</p> <p>_____ (SPECIFY)</p> |
| 535 | CHECK 534:   | <p>TWO OR ONLY</p> <p><input type="checkbox"/> MORE ONE <input type="checkbox"/></p> <p>CODES CODE</p> <p>CIRCLED CIRCLED</p> <p>↓ (SKIP TO 537) ←</p>   | <p>TWO OR ONLY</p> <p><input type="checkbox"/> MORE ONE <input type="checkbox"/></p> <p>CODES CODE</p> <p>CIRCLED CIRCLED</p> <p>↓ (SKIP TO 537) ←</p>   | <p>TWO OR ONLY</p> <p><input type="checkbox"/> MORE ONE <input type="checkbox"/></p> <p>CODES CODE</p> <p>CIRCLED CIRCLED</p> <p>↓ (SKIP TO 537) ←</p>   |
| 536 | <p>Where did you first seek advice or treatment?</p> <p>USE LETTER CODE FROM 534.</p>  | FIRST PLACE ... <input type="checkbox"/>   | FIRST PLACE ... <input type="checkbox"/>   | FIRST PLACE ... <input type="checkbox"/>   |
| 537 | At any time during the illness, did (NAME) take any drugs for the illness?   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(GO BACK TO 503 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 553)</p> <p>DON'T KNOW ..... 8</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(GO BACK TO 503 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 553)</p> <p>DON'T KNOW ..... 8</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>(GO TO 503 IN NEXT-TO-LAST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE BIRTHS, GO TO 553)</p> <p>DON'T KNOW ..... 8</p>  |

| NO. | QUESTIONS AND FILTERS  | LAST BIRTH<br>NAME _____  | NEXT-TO-LAST BIRTH<br>NAME _____  | SECOND-FROM-LAST BIRTH<br>NAME _____  |
|-----|--|---|---|---|
| 538 | What drugs did (NAME) take?<br><br>Any other drugs?<br><br>RECORD ALL MENTIONED. | ANTIMALARIAL DRUGS<br>SP/FANSIDAR ... A<br>CHLOROQUINE B<br>QUININE ..... C<br>MALARINE ..... D<br>A+M (2, 3, 4) ... E<br>MEFLOQUINE ... F<br>ARTEMISININ ... G<br>ARTESUNATE<br>TABLET ..... H<br>ARTESUNATE<br>SUPPOSITORY I<br>ARTEKINE ..... J<br>COTEXIN ..... K<br>OTHER ANTI-MALARIAL<br>_____ ... L<br>(SPECIFY)<br><br>ANTIBIOTIC DRUGS<br>PILL/SYRUP ... M<br>INJECTION ... N<br><br>OTHER DRUGS<br>ASPIRIN ..... O<br>ACETA-MINOPHEN ... P<br>IBUPROFEN ... Q<br>DRUG COCKTAIL R<br>MULTIVITAMIN . S<br><br>OTHER _____ X<br>(SPECIFY)<br>DON'T KNOW ..... Z | ANTIMALARIAL DRUGS<br>SP/FANSIDAR ... A<br>CHLOROQUINE B<br>QUININE ..... C<br>MALARINE ..... D<br>A+M (2, 3, 4) ... E<br>MEFLOQUINE ... F<br>ARTEMISININ ... G<br>ARTESUNATE<br>TABLET ..... H<br>ARTESUNATE<br>SUPPOSITORY I<br>ARTEKINE ..... J<br>COTEXIN ..... K<br>OTHER ANTI-MALARIAL<br>_____ ... L<br>(SPECIFY)<br><br>ANTIBIOTIC DRUGS<br>PILL/SYRUP ... M<br>INJECTION ... N<br><br>OTHER DRUGS<br>ASPIRIN ..... O<br>ACETA-MINOPHEN ... P<br>IBUPROFEN ... Q<br>DRUG COCKTAIL R<br>MULTIVITAMIN . S<br><br>OTHER _____ X<br>(SPECIFY)<br>DON'T KNOW ..... Z | ANTIMALARIAL DRUGS<br>SP/FANSIDAR ... A<br>CHLOROQUINE B<br>QUININE ..... C<br>MALARINE ..... D<br>A+M (2, 3, 4) ... E<br>MEFLOQUINE ... F<br>ARTEMISININ ... G<br>ARTESUNATE<br>TABLET ..... H<br>ARTESUNATE<br>SUPPOSITORY I<br>ARTEKINE ..... J<br>COTEXIN ..... K<br>OTHER ANTI-MALARIAL<br>_____ ... L<br>(SPECIFY)<br><br>ANTIBIOTIC DRUGS<br>PILL/SYRUP ... M<br>INJECTION ... N<br><br>OTHER DRUGS<br>ASPIRIN ..... O<br>ACETA-MINOPHEN ... P<br>IBUPROFEN ... Q<br>DRUG COCKTAIL R<br>MULTIVITAMIN . S<br><br>OTHER _____ X<br>(SPECIFY)<br>DON'T KNOW ..... Z |
| 552 |  | GO BACK TO 503 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 553.  | GO BACK TO 503 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 553.  | GO TO 503 IN NEXT-TO-LAST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE BIRTHS, GO TO 553.  |

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP |
|-----|--|--|------|
| 553 | <p>CHECK 215 AND 218, ALL ROWS:</p> <p>NUMBER OF CHILDREN BORN IN 2009 OR LATER LIVING WITH THE RESPONDENT</p> <p>ONE OR MORE <input type="checkbox"/> NONE <input type="checkbox"/></p> <p>RECORD NAME OF YOUNGEST CHILD LIVING WITH HER AND CONTINUE WITH 554</p> <p>_____</p> <p>(NAME)</p> |  | 556  |
| 554 | <p>The last time (NAME FROM 553) passed stools, what was done to dispose of the stools?</p>  | <p>CHILD USED TOILET OR LATRINE ... 01</p> <p>PUT/RINSED</p> <p>INTO TOILET OR LATRINE ..... 02</p> <p>PUT/RINSED</p> <p>INTO DRAIN OR DITCH ..... 03</p> <p>THROWN INTO GARBAGE ..... 04</p> <p>BURIED ..... 05</p> <p>LEFT IN THE OPEN ..... 06</p> <p>OTHER _____ 96</p> <p>(SPECIFY)</p> |      |
| 555 | <p>CHECK 522(a) AND 522(b), ALL COLUMNS:</p> <p>NO CHILD RECEIVED FLUID FROM ORS PACKET OR PRE-PACKAGED ORS LIQUID <input type="checkbox"/></p> <p>ANY CHILD RECEIVED FLUID FROM ORS PACKET OR PRE-PACKAGED ORS LIQUID <input type="checkbox"/></p>  |  | 557  |
| 556 | <p>Have you ever heard of a special product called Oralyte/Orasel you can get for the treatment of diarrhea?</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p>   |      |
| 557 | <p>CHECK 215 AND 218, ALL ROWS:</p> <p>NUMBER OF CHILDREN BORN IN 2012 OR LATER LIVING WITH THE RESPONDENT</p> <p>ONE OR MORE <input type="checkbox"/> NONE <input type="checkbox"/></p> <p>RECORD NAME OF YOUNGEST CHILD LIVING WITH HER AND CONTINUE WITH 558</p> <p>_____</p> <p>(NAME)</p> |  | 563  |

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES | SKIP |
|-----|--|-------------------|------|
| 558 | <p>Now I would like to ask you about liquids or foods that (NAME FROM 557) had yesterday during the day or at night. I am interested in whether your child had the item I mention even if it was combined with other foods.</p> <p>Did (NAME FROM 557) (drink/eat):</p> <p>a) Plain water? <b>a)</b> YES 1 NO 2 DK 8</p> <p>b) Juice or juice drinks? <b>b)</b> YES 1 NO 2 DK 8</p> <p>c) Soup? <b>c)</b> YES 1 NO 2 DK 8</p> <p>d) Milk such as tinned, powdered, or fresh animal milk? <b>d)</b> YES 1 NO 2 DK 8<br/> IF YES: How many times did (NAME) drink milk?<br/> IF 7 OR MORE TIMES, RECORD '7'. NUMBER OF TIMES DRANK MILK <input type="text"/></p> <p>e) Infant formula? <b>e)</b> YES 1 NO 2 DK 8<br/> IF YES: How many times did (NAME) drink infant formula?<br/> IF 7 OR MORE TIMES, RECORD '7'. NUMBER OF TIMES DRANK FORMULA <input type="text"/></p> <p>f) Any other liquids? <b>f)</b> YES 1 NO 2 DK 8</p> <p>g) Yogurt? <b>g)</b> YES 1 NO 2 DK 8<br/> IF YES: How many times did (NAME) eat yogurt?<br/> IF 7 OR MORE TIMES, RECORD '7'. NUMBER OF TIMES ATE YOGURT <input type="text"/></p> <p>h) Any [BRAND NAME OF COMMERCIALY FORTIFIED BABY FOOD, E.G., Cerelec]? <b>h)</b> YES 1 NO 2 DK 8</p> <p>i) Bread, rice, noodles, porridge, or other foods made from grains? <b>i)</b> YES 1 NO 2 DK 8</p> <p>j) Pumpkin, carrots, squash or sweet potatoes that are yellow or orange inside? <b>j)</b> YES 1 NO 2 DK 8</p> <p>k) White potatoes, white yams, manioc, cassava, or any other foods made from roots? <b>k)</b> YES 1 NO 2 DK 8</p> <p>l) Any dark green, leafy vegetables? <b>l)</b> YES 1 NO 2 DK 8</p> <p>m) Ripe mangoes, papayas or [INSERT ANY OTHER LOCALLY AVAILABLE VITAMIN A-RICH FRUITS]? <b>m)</b> YES 1 NO 2 DK 8</p> <p>n) Any other fruits or vegetables? <b>n)</b> YES 1 NO 2 DK 8</p> <p>o) Liver, kidney, heart or other organ meats? <b>o)</b> YES 1 NO 2 DK 8</p> <p>p) Any meat, such as beef, pork, lamb, goat, chicken, or duck? <b>p)</b> YES 1 NO 2 DK 8<br/> IF YES: How many times did (NAME) eat meat?<br/> IF 7 OR MORE TIMES, RECORD '7'. NUMBER OF TIMES ATE MEAT <input type="text"/></p> <p>q) Eggs? <b>q)</b> YES 1 NO 2 DK 8</p> <p>r) Fresh or dried fish or shellfish? <b>r)</b> YES 1 NO 2 DK 8</p> <p>s) Any foods made from beans, peas, lentils, or nuts? <b>s)</b> YES 1 NO 2 DK 8</p> <p>t) Cheese or other food made from milk? <b>t)</b> YES 1 NO 2 DK 8</p> <p>u) Any foods made with oil, fat, or butter? <b>u)</b> YES 1 NO 2 DK 8</p> <p>v) Any snake, snail, frog, rat, or insects? <b>v)</b> YES 1 NO 2 DK 8</p> <p>w) Any sugary foods such as pastry, cakes, chocolates, sweets or candies ? <b>w)</b> YES 1 NO 2 DK 8</p> <p>x) Any other solid, semi-solid, or soft food? <b>x)</b> YES 1 NO 2 DK 8</p> |                   |      |

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP |
|-----|--|--|------|
| 559 | <p>CHECK 558 (CATEGORIES "g" THROUGH "x"):</p> <p>ALL <input type="checkbox"/> "NO" ↓</p> <p>AT LEAST ONE <input type="checkbox"/> "YES" →</p> <p>OR ALL DKs</p>                     |  | 561  |
| 560 | <p>Did (NAME) eat any solid, semi-solid, or soft foods yesterday during the day or at night?</p> <p>IF 'YES' PROBE: What kind of solid, semi-solid or soft foods did (NAME) eat?</p> | <p>YES ..... 1<br/>(GO BACK TO 558 TO RECORD FOOD EATEN YESTERDAY) ←</p> <p>NO ..... 2 →</p> | 563  |
| 561 | <p>How many times did (NAME FROM 557) eat solid, semisolid, or soft foods yesterday during the day or at night?</p> <p>IF 7 OR MORE TIMES, RECORD '7'.</p>                           | <p>NUMBER OF TIMES ..... <input type="checkbox"/></p> <p>DON'T KNOW ..... 8</p>              |      |

| NO.  | QUESTIONS AND FILTERS   | CODINGS CATEGORIES   | SKIP |     |     |     |                     |   |   |   |                      |   |   |   |  |   |   |   |  |
|--|---|--|------|-----|-----|-----|---------------------|---|---|---|----------------------|---|---|---|--|---|---|---|--|
| 563  | CHECK Q.217 AND Q.218, ALL ROW:<br>AT LEAST ONE CHILD AGED 0-5 YEARS OLD AND LIVE WITH THE RESPONDENT<br>YES <input type="checkbox"/> NO <input type="checkbox"/>   |  | 601  |     |     |     |                     |   |   |   |                      |   |   |   |  |   |   |   |  |
| 564  | CHECK Q.217<br>SELECT THE YOUNGEST CHILD AGED 0-5 YEARS OLD, RECORD THE CHILD NAME AND LINE NUMBER<br>NAME OF THE YOUNGEST CHILD FROM Q.212 _____ LINE NUMBER OF THE YOUNGEST CHILD (Q.219) <input type="text"/> <input type="text"/>   |  |      |     |     |     |                     |   |   |   |                      |   |   |   |  |   |   |   |  |
| 565  | Now I would like to ask you about (NAME); your youngest child that is 0-5 years old   |  |      |     |     |     |                     |   |   |   |                      |   |   |   |  |   |   |   |  |
| 566  | How many children's books or picture books do you have for (NAME)?  | NONE ..... 00<br>NUMBER OF CHILDREN'S BOOKS .. <input type="text"/> <input type="text"/><br>TEN OR MORE BOOKS ..... 10   |      |     |     |     |                     |   |   |   |                      |   |   |   |  |   |   |   |  |
| 567  | I am interested in learning about the things that (name) plays with when he/she is at home.<br>Does he/she play with:<br>a) Homemade toys (such as dolls, cars, or other toys made at home)?<br>b) Toys from a shop or manufactured toys?<br>c) Household objects (such as bowls or pots) or objects found outside (such as sticks, rocks, animal shells or leaves)?<br><br>IF THE RESPONDENT SAYS "YES" TO THE CATEGORIES ABOVE, THEN PROBE TO LEARN SPECIFICALLY WHAT THE CHILD PLAYS WITH TO ASCERTAIN THE RESPONSE. | <table border="0"> <thead> <tr> <th></th> <th>OUI</th> <th>NON</th> <th>NSP</th> </tr> </thead> <tbody> <tr> <td>HOMEMADE TOYS .....</td> <td>1</td> <td>2</td> <td>8</td> </tr> <tr> <td>TOYS FROM SHOP .....</td> <td>1</td> <td>2</td> <td>8</td> </tr> <tr> <td>HOUSEHOLD OBJECTS OR OUTSIDE OBJECTS .....</td> <td>1</td> <td>2</td> <td>8</td> </tr> </tbody> </table> |      | OUI | NON | NSP | HOMEMADE TOYS ..... | 1 | 2 | 8 | TOYS FROM SHOP ..... | 1 | 2 | 8 | HOUSEHOLD OBJECTS OR OUTSIDE OBJECTS ..... | 1 | 2 | 8 |  |
|  | OUI   | NON  | NSP  |     |     |     |                     |   |   |   |                      |   |   |   |  |   |   |   |  |
| HOMEMADE TOYS .....                        | 1   | 2  | 8    |     |     |     |                     |   |   |   |                      |   |   |   |  |   |   |   |  |
| TOYS FROM SHOP .....                       | 1   | 2  | 8    |     |     |     |                     |   |   |   |                      |   |   |   |  |   |   |   |  |
| HOUSEHOLD OBJECTS OR OUTSIDE OBJECTS ..... | 1   | 2  | 8    |     |     |     |                     |   |   |   |                      |   |   |   |  |   |   |   |  |
| 568  | Sometimes adults taking care of children have to leave the house to go shopping, wash clothes, or for other reasons and have to leave young children.<br>On how many days in the past week was (name):<br>a) Left alone for more than an hour?<br>b) Left in the care of another child, that is, someone less than 10 years old, for more than an hour?<br><br>IF 'NONE' ENTER '0'. IF 'DON'T KNOW' ENTER '8'   | NUMBER OF DAYS LEFT ALONE MORE THAN AN HOURS <input type="text"/><br><br>NUMBER OF DAYS LEFT WITH ANOTHER CHILD FOR MORE THAN AN HOURS <input type="text"/>  |      |     |     |     |                     |   |   |   |                      |   |   |   |  |   |   |   |  |
| 569  | CHECK Q.217 ET 218:<br>A CHILD AGED 3, 4 OR 5 YEARS OLD; LIVE IN THIS HOUSEHOLD (Q.217=3 OR 4 AND Q.218=1)?<br>YES <input type="checkbox"/> NO <input type="checkbox"/>   |  | 601  |     |     |     |                     |   |   |   |                      |   |   |   |  |   |   |   |  |
| 570  | CHECK Q.217:<br>SELECT THE YOUNGEST CHILD AGED 3, 4 OR 5 YEARS OLD. RECORD THE CHILD'S NAME AND LINE NUMBER<br>NAME OF THE YOUNGEST CHILD 3, 4 OR 5 YEARS OLD (Q.212) _____ LINE NUMBER OF THE YOUNGEST CHILD (Q.219) <input type="text"/> <input type="text"/>   |  |      |     |     |     |                     |   |   |   |                      |   |   |   |  |   |   |   |  |
| 571  | Now I would like to ask some questions regarding (NAME), your youngest child aged 3-5 years old.  |  |      |     |     |     |                     |   |   |   |                      |   |   |   |  |   |   |   |  |

| 572   | Does (NAME) attend any organized learning or early childhood education programme, such as a private or government facility, including kindergarten or community child care?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | <div style="border: 1px solid black; width: 20px; height: 20px; margin-left: 10px;"></div> → 574 |           |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
|---|---|---|--|-----------|-----|-----------|-----------|--|---|---|---|---|----------------------------|---|---|---|---|--|---|---|---|---|---|---|---|---|---|-----------------------|---|---|---|---|--|---|---|---|---|--|
| 573   | In the past 7 days, about how many hours did (NAME) go to that place:   | NUMBER OF HOURS ..... <div style="border: 1px solid black; width: 30px; height: 20px; display: inline-block;"></div>  |  |           |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| 574   | In the past 3 days, did you or any household member age 15 or over engage in any of the following activities with (NAME):<br><br>ENCERCLEZ TOUT CE QUI EST MENTIONNÉ.   | <table border="0"> <thead> <tr> <th></th><th>MOM</th><th>DAD</th><th>OTHE<br/>R</th><th>NO<br/>ONE</th></tr> </thead> <tbody> <tr> <td>a) Read books to or looked at picture with (NAME)?</td><td>A</td><td>B</td><td>X</td><td>Y</td></tr> <tr> <td>b) Told stories to (NAME)?</td><td>A</td><td>B</td><td>X</td><td>Y</td></tr> <tr> <td>c) Sang songs to (NAME) or with (NAME), including lullabies?</td><td>A</td><td>B</td><td>X</td><td>Y</td></tr> <tr> <td>d) Took (NAME) outside the home, compound, yard or enclosure?</td><td>A</td><td>B</td><td>X</td><td>Y</td></tr> <tr> <td>e) Played with (NAME)</td><td>A</td><td>B</td><td>X</td><td>Y</td></tr> <tr> <td>f) Named, counted, or drew things to or with (NAME)?</td><td>A</td><td>B</td><td>X</td><td>Y</td></tr> </tbody> </table> |  | MOM       | DAD | OTHE<br>R | NO<br>ONE | a) Read books to or looked at picture with (NAME)? | A | B | X | Y | b) Told stories to (NAME)? | A | B | X | Y | c) Sang songs to (NAME) or with (NAME), including lullabies? | A | B | X | Y | d) Took (NAME) outside the home, compound, yard or enclosure? | A | B | X | Y | e) Played with (NAME) | A | B | X | Y | f) Named, counted, or drew things to or with (NAME)? | A | B | X | Y |  |
|   | MOM   | DAD   | OTHE<br>R  | NO<br>ONE |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| a) Read books to or looked at picture with (NAME)?            | A   | B   | X  | Y         |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| b) Told stories to (NAME)?                                    | A   | B   | X  | Y         |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| c) Sang songs to (NAME) or with (NAME), including lullabies?  | A   | B   | X  | Y         |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| d) Took (NAME) outside the home, compound, yard or enclosure? | A   | B   | X  | Y         |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| e) Played with (NAME)   | A   | B   | X  | Y         |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| f) Named, counted, or drew things to or with (NAME)?          | A   | B   | X  | Y         |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| 575   | I would like to ask you some questions about the health and development of (NAME). Children do not all develop and learn at the same rate. For example, some walk earlier than others. These questions are related to several aspects of (NAME)'s development.<br><br>Can (NAME) identify or name at least ten letters of the alphabet? | YES ..... 1<br>NO ..... 2<br>DK ..... 8   |  |           |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| 576   | Can (NAME) read at least four simple, popular words?  | YES ..... 1<br>NO ..... 2<br>DK ..... 8   |  |           |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| 577   | Does (NAME) know the name and recognize the symbol of all numbers from 1 to 10?   | YES ..... 1<br>NO ..... 2<br>DK ..... 8   |  |           |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| 578   | Can (NAME) pick up a small object with two fingers, like a stick or a rock from the ground?   | YES ..... 1<br>NO ..... 2<br>DK ..... 8   |  |           |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| 579   | Is (NAME) sometimes too sick to play?   | YES ..... 1<br>NO ..... 2<br>DK ..... 8   |  |           |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| 580   | Does (NAME) follow simple directions on how to do something correctly?  | YES ..... 1<br>NO ..... 2<br>DK ..... 8   |  |           |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| 581   | When given something to do, is (NAME) able to do it independently?  | YES ..... 1<br>NO ..... 2<br>DK ..... 8   |  |           |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| 582   | Does (NAME) get along well with other children?   | YES ..... 1<br>NO ..... 2<br>DK ..... 8   |  |           |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| 583   | Does (NAME) kick, bite, or hit other children or adults?  | YES ..... 1<br>NO ..... 2<br>DK ..... 8   |  |           |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |
| 584   | Does (NAME) get distracted easily?  | YES ..... 1<br>NO ..... 2<br>DK ..... 8   |  |           |     |           |           |  |   |   |   |   |                            |   |   |   |   |  |   |   |   |   |   |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |

SECTION 6. MARRIAGE AND SEXUAL ACTIVITY

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP                           |
|-----|--|--|--------------------------------|
| 601 | Are you currently married or living together with a man as if married?   | YES, CURRENTLY MARRIED ..... 1<br>YES, LIVING WITH A MAN ..... 2<br>NO, NOT IN UNION ..... 3   | <input type="checkbox"/> → 604 |
| 602 | Have you ever been married or lived together with a man as if married?   | YES, FORMERLY MARRIED ..... 1<br>YES, LIVED WITH A MAN ..... 2<br>NO ..... 3   | <input type="checkbox"/> → 612 |
| 603 | What is your marital status now: are you widowed, divorced, or separated?  | WIDOWED ..... 1<br>DIVORCED ..... 2<br>SEPARATED ..... 3   | <input type="checkbox"/> → 609 |
| 604 | Is your (husband/partner) living with you now or is he staying elsewhere?  | LIVING WITH HER ..... 1<br>STAYING ELSEWHERE ..... 2   |                                |
| 605 | RECORD THE HUSBAND'S/PARTNER'S NAME AND LINE NUMBER FROM THE HOUSEHOLD QUESTIONNAIRE. IF HE IS NOT LISTED IN THE HOUSEHOLD, RECORD '00'.   | NAME _____<br><br>LINE NO. .... <input type="text"/> <input type="text"/>  |                                |
| 606 | Does your (husband/partner) have other wives or does he live with other women as if married?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  | <input type="checkbox"/> → 609 |
| 607 | Including yourself, in total, how many wives or live-in partners does he have?   | TOTAL NUMBER OF WIVES AND LIVE-IN PARTNERS ..... <input type="text"/> <input type="text"/><br>DON'T KNOW ..... 98  |                                |
| 608 | Are you the first, second, ... wife?   | RANK ..... <input type="text"/> <input type="text"/>   |                                |
| 609 | Have you been married or lived with a man only once or more than once?   | ONLY ONCE ..... 1<br>MORE THAN ONCE ..... 2  |                                |
| 610 | CHECK 609:<br><br><div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> MARRIED/<br/>LIVED WITH A MAN <input type="checkbox"/><br/>ONLY ONCE ↓<br/><br/> In what month and year did you start living with your (husband/partner)? </div> <div style="text-align: center;"> MARRIED/<br/>LIVED WITH A MAN <input type="checkbox"/><br/>MORE THAN ONCE ↓<br/><br/> Now I would like to ask about your first (husband/partner). In what month and year did you start living with him? </div> </div><br>IF RESPONDENT DOES NOT KNOW GREGORIAN DATE, ASK FOR KHMER DATE OF MARRIAGE. USE DATE CONVERSION CHART TO FIND GREGORIAN MONTH AND YEAR.<br><br>_____<br>(SPECIFY KHMER MONTH AND YEAR OF MARRIAGE) | GREGORIAN MONTH ..... <input type="text"/> <input type="text"/><br>DON'T KNOW MONTH ..... 98<br><br>GREGORIAN YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>DON'T KNOW YEAR ..... 9998 | <input type="checkbox"/> → 612 |
| 611 | How old were you when you first started living with him?   | AGE ..... <input type="text"/> <input type="text"/>  |                                |
| 612 | CHECK FOR THE PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY.  |  |                                |
| 613 | Now I would like to ask some questions about sexual activity in order to gain a better understanding of some important life issues.<br><br>How old were you when you had sexual intercourse for the very first time?   | NEVER HAD SEXUAL INTERCOURSE ..... 00<br><br>AGE IN YEARS ..... <input type="text"/> <input type="text"/><br><br>FIRST TIME WHEN STARTED LIVING WITH (FIRST) HUSBAND/PARTNER ..... 95  | <input type="checkbox"/> → 628 |



| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |  |  |  |  |  |  |  |  |
|-----|--|--|---|--|--|--|--|--|--|--|--|
| 614 | Now I would like to ask you some questions about your recent sexual activity. Let me assure you again that your answers are completely confidential and will not be told to anyone. If we should come to any question that you don't want to answer, just let me know and we will go to the next question. |  |   |  |  |  |  |  |  |  |  |
| 615 | When was the <u>last</u> time you had sexual intercourse?<br><br>IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS.<br><br>IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.   | DAYS AGO ..... 1<br><br>WEEKS AGO ..... 2<br><br>MONTHS AGO ..... 3<br><br>YEARS AGO ..... 4 | <table><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table> <div>→ 627</div> |  |  |  |  |  |  |  |  |
|     |  |  |   |  |  |  |  |  |  |  |  |
|     |  |  |   |  |  |  |  |  |  |  |  |
|     |  |  |   |  |  |  |  |  |  |  |  |
|     |  |  |   |  |  |  |  |  |  |  |  |

|     |  | LAST<br>SEXUAL PARTNER   | SECOND-TO-LAST<br>SEXUAL PARTNER   | THIRD-TO-LAST<br>SEXUAL PARTNER  |
|-----|--|--|--|--|
| 616 | When was the last time you had sexual intercourse with this person?  |  | DAYS <input type="text"/> <input type="text"/><br>AGO    1<br>WEEKS <input type="text"/> <input type="text"/><br>AGO    2<br>MONTHS <input type="text"/> <input type="text"/><br>AGO    3  | DAYS <input type="text"/> <input type="text"/><br>AGO    1<br>WEEKS <input type="text"/> <input type="text"/><br>AGO    2<br>MONTHS <input type="text"/> <input type="text"/><br>AGO    3  |
| 617 | The last time you had sexual intercourse (with this second/third person), was a condom used?   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 619) ←   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 619) ←   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 619) ←   |
| 618 | Was a condom used every time you had sexual intercourse with this person in the last 12 months?  | YES ..... 1<br>NO ..... 2  | YES ..... 1<br>NO ..... 2  | YES ..... 1<br>NO ..... 2  |
| 619 | What was your relationship to this person with whom you had sexual intercourse?<br><br>IF BOYFRIEND:<br>Were you living together as if married?<br>IF YES, CIRCLE '2'.<br>IF NO, CIRCLE '3'.           | HUSBAND ..... 1<br>LIVE-IN PARTNER ... 2<br>BOYFRIEND NOT LIVING WITH RESPONDENT ... 3<br>CASUAL ACQUAINTANCE ... 4<br>PROSTITUTE ..... 5<br>OTHER ..... 6<br>(SPECIFY)<br>(SKIP TO 622) ←   | HUSBAND ..... 1<br>LIVE-IN PARTNER ... 2<br>BOYFRIEND NOT LIVING WITH RESPONDENT ... 3<br>CASUAL ACQUAINTANCE ... 4<br>PROSTITUTE ..... 5<br>OTHER ..... 6<br>(SPECIFY)<br>(SKIP TO 622) ←   | HUSBAND ..... 1<br>LIVE-IN PARTNER ... 2<br>BOYFRIEND NOT LIVING WITH RESPONDENT ... 3<br>CASUAL ACQUAINTANCE ... 4<br>PROSTITUTE ..... 5<br>OTHER ..... 6<br>(SPECIFY)<br>(SKIP TO 622) ←   |
| 620 | CHECK 609:   | MARRIED ONLY <input type="text"/> <input type="text"/><br>MARRIED MORE THAN ONCE <input type="text"/> <input type="text"/><br>(SKIP TO 622) ←  | MARRIED ONLY <input type="text"/> <input type="text"/><br>MARRIED MORE THAN ONCE <input type="text"/> <input type="text"/><br>(SKIP TO 622) ←  | MARRIED ONLY <input type="text"/> <input type="text"/><br>MARRIED MORE THAN ONCE <input type="text"/> <input type="text"/><br>(SKIP TO 622) ←  |
| 621 | CHECK 613:   | FIRST TIME WHEN STARTED LIVING WITH FIRST HUSBAND <input type="text"/> <input type="text"/><br>OTHER <input type="text"/> <input type="text"/><br>(SKIP TO 623)  | FIRST TIME WHEN STARTED LIVING WITH FIRST HUSBAND <input type="text"/> <input type="text"/><br>OTHER <input type="text"/> <input type="text"/><br>(SKIP TO 623)  | FIRST TIME WHEN STARTED LIVING WITH FIRST HUSBAND <input type="text"/> <input type="text"/><br>OTHER <input type="text"/> <input type="text"/><br>(SKIP TO 623)  |
| 622 | How long ago did you first have sexual intercourse with this (second/third) person?  | DAYS <input type="text"/> <input type="text"/><br>AGO    1<br>WEEKS <input type="text"/> <input type="text"/><br>AGO    2<br>MONTHS <input type="text"/> <input type="text"/><br>AGO    3<br>YEARS <input type="text"/> <input type="text"/><br>AGO    4 | DAYS <input type="text"/> <input type="text"/><br>AGO    1<br>WEEKS <input type="text"/> <input type="text"/><br>AGO    2<br>MONTHS <input type="text"/> <input type="text"/><br>AGO    3<br>YEARS <input type="text"/> <input type="text"/><br>AGO    4 | DAYS <input type="text"/> <input type="text"/><br>AGO    1<br>WEEKS <input type="text"/> <input type="text"/><br>AGO    2<br>MONTHS <input type="text"/> <input type="text"/><br>AGO    3<br>YEARS <input type="text"/> <input type="text"/><br>AGO    4 |
| 623 | How many times during the last 12 months did you have sexual intercourse with this person?   | NUMBER OF TIMES <input type="text"/> <input type="text"/>  | NUMBER OF TIMES <input type="text"/> <input type="text"/>  | NUMBER OF TIMES <input type="text"/> <input type="text"/>  |
| 624 | How old is this person?  | AGE OF PARTNER <input type="text"/> <input type="text"/><br><br>DON'T KNOW ..... 98  | AGE OF PARTNER <input type="text"/> <input type="text"/><br><br>DON'T KNOW ..... 98  | AGE OF PARTNER <input type="text"/> <input type="text"/><br><br>DON'T KNOW ..... 98  |
| 625 | Apart from (this person/these two people), have you had sexual intercourse with any other person in the last 12 months?  | YES ..... 1<br>(GO BACK TO 616 IN NEXT COLUMN) ←<br>NO ..... 2<br>(SKIP TO 627) ←  | YES ..... 1<br>(GO BACK TO 616 IN NEXT COLUMN) ←<br>NO ..... 2<br>(SKIP TO 627) ←  |  |
| 626 | In total, with how many different people have you had sexual intercourse in the last 12 months?<br>IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.<br>IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95' |  |  | NUMBER OF PARTNERS LAST 12 MONTHS ... <input type="text"/> <input type="text"/><br><br>DON'T KNOW ..... 98   |

| NO.                 | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |     |    |                    |   |   |                   |   |   |                     |   |   |  |
|---------------------|--|--|-------|-----|----|--------------------|---|---|-------------------|---|---|---------------------|---|---|--|
| 627                 | <p>In total, with how many different people have you had sexual intercourse in your lifetime?</p> <p>IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.</p> <p>IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95'.</p>          | <p>NUMBER OF PARTNERS IN LIFETIME <input type="text"/> <input type="text"/></p> <p>DON'T KNOW ..... 98</p>   |       |     |    |                    |   |   |                   |   |   |                     |   |   |  |
| 628                 | <p>PRESENCE OF OTHERS DURING THIS SECTION</p>  | <table border="0"> <thead> <tr> <th></th><th>YES</th><th>NO</th></tr> </thead> <tbody> <tr> <td>CHILDREN &lt;10 .....</td><td>1</td><td>2</td></tr> <tr> <td>MALE ADULTS .....</td><td>1</td><td>2</td></tr> <tr> <td>FEMALE ADULTS .....</td><td>1</td><td>2</td></tr> </tbody> </table>  |       | YES | NO | CHILDREN <10 ..... | 1 | 2 | MALE ADULTS ..... | 1 | 2 | FEMALE ADULTS ..... | 1 | 2 |  |
|                     | YES  | NO   |       |     |    |                    |   |   |                   |   |   |                     |   |   |  |
| CHILDREN <10 .....  | 1  | 2  |       |     |    |                    |   |   |                   |   |   |                     |   |   |  |
| MALE ADULTS .....   | 1  | 2  |       |     |    |                    |   |   |                   |   |   |                     |   |   |  |
| FEMALE ADULTS ..... | 1  | 2  |       |     |    |                    |   |   |                   |   |   |                     |   |   |  |
| 629                 | <p>Do you know of a place where a person can get condoms?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p>   | → 632 |     |    |                    |   |   |                   |   |   |                     |   |   |  |
| 630                 | <p>Where is that?</p> <p>Any other place?</p> <p>PROBE TO IDENTIFY EACH TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>_____</p> <p>(NAME OF PLACE(S))</p> | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSPITAL (PP) ..... A</p> <p>PROVINCIAL HOSP (RH) ..... B</p> <p>DISTRICT HOSPITAL (RH) ..... C</p> <p>HEALTH CENTER ..... D</p> <p>HEALTH POST ..... E</p> <p>OUTREACH ..... F</p> <p>MILITARY HOSPITAL ..... G</p> <p>OTHER PUBLIC SECTOR ..... H</p> <p>(SPECIFY) _____</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIVATE HOSPITAL ..... I</p> <p>PRIVATE CLINIC ..... J</p> <p>PHARMACY ..... K</p> <p>OTHER PRIVATE MEDICAL SECTOR ..... L</p> <p>(SPECIFY) _____</p> <p>OTHER SOURCE</p> <p>SHOP ..... M</p> <p>COMMUNITY DISTRIBUTOR ..... N</p> <p>FRIENDS/RELATIVES ..... O</p> <p>OTHER ..... X</p> <p>(SPECIFY) _____</p> |       |     |    |                    |   |   |                   |   |   |                     |   |   |  |
| 631                 | <p>If you wanted to, could you yourself get a condom?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW/UNSURE ..... 8</p>  |       |     |    |                    |   |   |                   |   |   |                     |   |   |  |
| 632                 | <p>Do you know of a place where a person can get female condoms?</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p>   | → 701 |     |    |                    |   |   |                   |   |   |                     |   |   |  |

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP |
|-----|--|--|------|
| 633 | <p>Where is that?</p> <p>Any other place?</p> <p>PROBE TO IDENTIFY EACH TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>_____</p> <p>(NAME OF PLACE(S))</p> | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSPITAL (PP) ..... A</p> <p>PROVINCIAL HOSP (RH) ..... B</p> <p>DISTRICT HOSPITAL (RH) ..... C</p> <p>HEALTH CENTER ..... D</p> <p>HEALTH POST ..... E</p> <p>OUTREACH ..... F</p> <p>MILITARY HOSPITAL ..... G</p> <p>OTHER PUBLIC SECTOR ..... H</p> <p>(SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIVATE HOSPITAL ..... I</p> <p>PRIVATE CLINIC ..... J</p> <p>PHARMACY ..... K</p> <p>OTHER PRIVATE MEDICAL SECTOR ..... L</p> <p>(SPECIFY)</p> <p>OTHER SOURCE</p> <p>SHOP ..... M</p> <p>COMMUNITY DISTRIBUTOR ..... N</p> <p>FRIENDS/RELATIVES ..... O</p> <p>OTHER ..... X</p> <p>(SPECIFY)</p> |      |
| 634 | <p>If you wanted to, could you yourself get a female condom?</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW/UNSURE ..... 8</p>  |      |

SECTION 7. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP                    |
|-----|---|--|-------------------------|
| 701 | CHECK 304:<br><br>NEITHER STERILIZED <input type="checkbox"/> HE OR SHE STERILIZED <input type="checkbox"/>   |  | → 712                   |
| 702 | CHECK 226:<br><br>PREGNANT <input type="checkbox"/> NOT PREGNANT OR UNSURE <input type="checkbox"/>   |  | → 704                   |
| 703 | Now I have some questions about the future. After the child you are expecting now, would you like to have another child, or would you prefer not to have any more children?   | HAVE ANOTHER CHILD ..... 1<br>NO MORE ..... 2<br>UNDECIDED/DON'T KNOW ..... 8  | → 705<br>→ 711          |
| 704 | Now I have some questions about the future. Would you like to have (a/another) child, or would you prefer not to have any (more) children?  | HAVE (A/ANOTHER) CHILD ..... 1<br>NO MORE/NONE ..... 2<br>SAYS SHE CAN'T GET PREGNANT . 3<br>UNDECIDED/DON'T KNOW ..... 8  | → 707<br>→ 712<br>→ 710 |
| 705 | CHECK 226:<br><br>NOT PREGNANT OR UNSURE <input type="checkbox"/> PREGNANT <input type="checkbox"/><br><br>How long would you like to wait from now before the birth of (a/another) child? After the birth of the child you are expecting now, how long would you like to wait before the birth of another child? | MONTHS ..... 1<br>YEARS ..... 2<br><br>SOON/NOW ..... 993<br>SAYS SHE CAN'T GET PREGNANT 994<br>AFTER MARRIAGE ..... 995<br><br>OTHER ..... 996<br>(SPECIFY)<br>DON'T KNOW ..... 998 | → 710<br>→ 712<br>→ 710 |
| 706 | CHECK 226:<br><br>NOT PREGNANT OR UNSURE <input type="checkbox"/> PREGNANT <input type="checkbox"/>   |  | → 711                   |
| 707 | CHECK 303: USING A CONTRACEPTIVE METHOD?<br><br>NOT CURRENTLY USING <input type="checkbox"/> CURRENTLY USING <input type="checkbox"/>   |  | → 712                   |
| 708 | CHECK 705:<br><br>NOT ASKED <input type="checkbox"/> 24 OR MORE MONTHS OR 02 OR MORE YEARS <input type="checkbox"/> 00-23 MONTHS OR < 02 YEARS <input type="checkbox"/>   |  | → 711                   |

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP                      |
|-----|--|--|---------------------------|
| 709 | <p>CHECK 703 AND 704:</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>WANTS TO HAVE<br/>A/ANOTHER CHILD</p> <p><input type="checkbox"/></p> <p>↓</p> <p>You have said that you do not want (a/another) child soon.</p> <p>Can you tell me why you are not using a method to prevent pregnancy?</p> <p>Any other reason?</p> </div> <div style="text-align: center;"> <p>WANTS NO MORE/<br/>NONE</p> <p><input type="checkbox"/></p> <p>↓</p> <p>You have said that you do not want any (more) children.</p> <p>Can you tell me why you are not using a method to prevent pregnancy?</p> <p>Any other reason?</p> </div> </div> <p style="text-align: center;">RECORD ALL REASONS MENTIONED.</p> | <p>NOT MARRIED ..... A</p> <p>FERTILITY-RELATED REASONS</p> <p>NOT HAVING SEX ..... B</p> <p>INFREQUENT SEX ..... C</p> <p>MENOPAUSAL/HYSTERECTOMY ..... D</p> <p>CAN'T GET PREGNANT ..... E</p> <p>NOT MENSTRUATED SINCE<br/>LAST BIRTH ..... F</p> <p>BREASTFEEDING ..... G</p> <p>UP TO GOD/FATALISTIC ..... H</p> <p>OPPOSITION TO USE</p> <p>RESPONDENT OPPOSED ..... I</p> <p>HUSBAND/PARTNER OPPOSED ... J</p> <p>OTHERS OPPOSED ..... K</p> <p>RELIGIOUS PROHIBITION ..... L</p> <p>LACK OF KNOWLEDGE</p> <p>KNOWS NO METHOD ..... M</p> <p>KNOWS NO SOURCE ..... N</p> <p>METHOD-RELATED REASONS</p> <p>SIDE EFFECTS/HEALTH<br/>CONCERNS ..... O</p> <p>LACK OF ACCESS/TOO FAR ..... P</p> <p>COSTS TOO MUCH ..... Q</p> <p>PREFERRED METHOD</p> <p>NOT AVAILABLE ..... R</p> <p>NO METHOD AVAILABLE ..... S</p> <p>INCONVENIENT TO USE ..... T</p> <p>INTERFERES WITH BODY'S<br/>NORMAL PROCESSES ..... U</p> <p>OTHER ..... X<br/>(SPECIFY)</p> <p>DON'T KNOW ..... Z</p> |                           |
| 710 | <p>CHECK 303: USING A CONTRACEPTIVE METHOD?</p> <div style="display: flex; justify-content: space-around;"> <p>NOT<br/>ASKED <input type="checkbox"/></p> <p>NO,<br/>NOT CURRENTLY USING <input type="checkbox"/></p> <p>YES,<br/>CURRENTLY USING <input type="checkbox"/></p> </div>  |  | → 712                     |
| 711 | <p>Do you think you will use a contraceptive method to delay or avoid pregnancy at any time in the future?</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   |                           |
| 712 | <p>CHECK 216:</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>HAS LIVING CHILDREN <input type="checkbox"/></p> <p>↓</p> <p>If you could go back to the time you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be?</p> </div> <div style="text-align: center;"> <p>NO LIVING CHILDREN <input type="checkbox"/></p> <p>↓</p> <p>If you could choose exactly the number of children to have in your whole life, how many would that be?</p> </div> </div> <p>PROBE FOR A NUMERIC RESPONSE.</p>   | <p>NONE ..... 00</p> <p>NUMBER ..... <input style="width: 40px; border: 1px solid black;" type="text"/> <input style="width: 40px; border: 1px solid black;" type="text"/></p> <p>OTHER ..... 96<br/>(SPECIFY)</p>   | <p>→ 714</p> <p>→ 714</p> |

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP |
|-----|---|--|------|
| 713 | How many of these children would you like to be boys, how many would you like to be girls and for how many would it not matter if it's a boy or a girl?   | <div>BOYS      GIRLS      EITHER</div> <div> <div>NUMBER</div> <div> <div></div><div></div><div></div><div></div><div></div><div></div> </div> </div> <div>           OTHER _____ 96<br/>           (SPECIFY)         </div>   |      |
| 714 | In the last few months have you:<br><br>Heard about family planning on the radio?<br>Seen anything about family planning on the television?<br>Read about family planning in a newspaper or magazine?<br>Through family or friends?<br>From community council?<br>Billboards, posters, or leaflets?<br>Local campaign for family planing? | <div>YES NO</div> <div>           RADIO ..... 1 2<br/>           TELEVISION ..... 1 2<br/>           NEWSPAPER OR MAGAZINE ... 1 2<br/>           FAMILY/FRIENDS ..... 1 2<br/>           COMMUNITY COUNCIL ..... 1 2<br/>           BILLBOARDS/POSTERS ..... 1 2<br/>           LOCAL CAMPAIGN ..... 1 2         </div> |      |
| 716 | CHECK 601:<br><br><div>             YES, <input type="checkbox"/><br/>             CURRENTLY MARRIED           </div> <div>             YES, <input type="checkbox"/><br/>             LIVING WITH A MAN           </div> <div>             NO, <input type="checkbox"/><br/>             NOT IN UNION           </div>                   | → 801  |      |
| 717 | CHECK 303: USING A CONTRACEPTIVE METHOD?<br><br><div>             CURRENTLY <input type="checkbox"/><br/>             USING           </div> <div>             NOT <input type="checkbox"/><br/>             CURRENTLY USING<br/>             OR NOT ASKED           </div>   | → 720  |      |
| 718 | Would you say that using contraception is mainly your decision, mainly your (husband's/partner's) decision, or did you both decide together?  | MAINLY RESPONDENT ..... 1<br>MAINLY HUSBAND/PARTNER ..... 2<br>JOINT DECISION ..... 3<br>OTHER _____ 6<br>(SPECIFY)  |      |
| 719 | CHECK 304:<br><br><div>             NEITHER <input type="checkbox"/><br/>             STERILIZED           </div> <div>             HE OR SHE <input type="checkbox"/><br/>             STERILIZED           </div>   | → 801  |      |
| 720 | Does your (husband/partner) want the same number of children that you want, or does he want more or fewer than you want?  | SAME NUMBER ..... 1<br>MORE CHILDREN ..... 2<br>FEWER CHILDREN ..... 3<br>DON'T KNOW ..... 8   |      |

SECTION 8. HUSBAND'S BACKGROUND AND WOMAN'S WORK

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP  |
|-----|---|--|-------|
| 801 | CHECK 601 AND 602:<br><br><div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>CURRENTLY<br/>MARRIED/<br/>LIVING WITH<br/>A MAN</p> <input type="checkbox"/> </div> <div style="text-align: center;"> <p>FORMERLY<br/>MARRIED/<br/>LIVED WITH<br/>A MAN</p> <input type="checkbox"/> </div> <div style="text-align: center;"> <p>NEVER MARRIED<br/>AND NEVER<br/>LIVED WITH A MAN</p> <input type="checkbox"/> </div> </div>   | <div style="display: flex; justify-content: space-between;"> <span>→ 803</span> <span>→ 807</span> </div>  |       |
| 802 | How old was your (husband/partner) on his last birthday?  | AGE IN COMPLETED YEARS <input style="width: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; border: 1px solid black;" type="text"/>   |       |
| 803 | Did your (last) (husband/partner) ever attend school?   | YES ..... 1<br>NO ..... 2  | → 806 |
| 804 | What was the highest level of school he attended: primary, lower secondary, or higher?  | PRIMARY ..... 1<br>LOWER SECONDARY ..... 2<br>UPPER SECONDARY ..... 3<br>HIGHER ..... 4<br>DON'T KNOW ..... 8  | → 806 |
| 805 | What was the highest (grade/form/year) he completed at that level?<br><br>IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD '00'.   | GRADE ..... <input style="width: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; border: 1px solid black;" type="text"/><br><br>DON'T KNOW ..... 98   |       |
| 806 | CHECK 801:<br><br><div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>CURRENTLY MARRIED/<br/>LIVING WITH A MAN</p> <input type="checkbox"/> </div> <div style="text-align: center;"> <p>FORMERLY MARRIED/<br/>LIVED WITH A MAN</p> <input type="checkbox"/> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="width: 45%;"> <p>What is your (husband's/<br/>partner's) occupation?<br/>That is, what kind of work does<br/>he mainly do?</p> </div> <div style="width: 45%;"> <p>What was your (last) (husband's/<br/>partner's) occupation?<br/>That is, what kind of work did he<br/>mainly do?</p> </div> </div> | <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>_____</p> <p>_____</p> <p>_____</p> </div> <div style="width: 35%;"> <input style="width: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; border: 1px solid black;" type="text"/> </div> </div> |       |
| 807 | Aside from your own housework, have you done any work in the last seven days?   | YES ..... 1<br>NO ..... 2  | → 811 |
| 808 | As you know, some women take up jobs for which they are paid in cash or kind. Others sell things, have a small business or work on the family farm or in the family business.<br>In the last seven days, have you done any of these things or any other work?   | YES ..... 1<br>NO ..... 2  | → 811 |
| 809 | Although you did not work in the last seven days, do you have any job or business from which you were absent for leave, illness, vacation, maternity leave, or any other such reason?   | YES ..... 1<br>NO ..... 2  | → 811 |
| 810 | Have you done any work in the last 12 months?   | YES ..... 1<br>NO ..... 2  | → 815 |
| 811 | What is your occupation, that is, what kind of work do you mainly do?   | <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>_____</p> <p>_____</p> <p>_____</p> </div> <div style="width: 35%;"> <input style="width: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; border: 1px solid black;" type="text"/> </div> </div> |       |
| 812 | Do you do this work for a member of your family, for someone else, or are you self-employed?  | FOR FAMILY MEMBER ..... 1<br>FOR SOMEONE ELSE ..... 2<br>SELF-EMPLOYED ..... 3   |       |



| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP  |
|------|---|--|-------|
| 813  | Do you usually work throughout the year, or do you work seasonally, or only once in a while?  | THROUGHOUT THE YEAR ..... 1<br>SEASONALLY/PART OF THE YEAR ..... 2<br>ONCE IN A WHILE ..... 3  |       |
| 814  | Are you paid in cash or kind for this work or are you not paid at all?  | CASH ONLY ..... 1<br>CASH AND KIND ..... 2<br>IN KIND ONLY ..... 3<br>NOT PAID ..... 4   |       |
| 815  | CHECK 601:<br><br>CURRENTLY MARRIED/LIVING WITH A MAN <input type="checkbox"/> NOT IN UNION <input type="checkbox"/>                              |  | → 823 |
| 816  | CHECK 814:<br><br>CODE 1 OR 2 CIRCLED <input type="checkbox"/> OTHER <input type="checkbox"/>   |  | → 819 |
| 817  | Who usually decides how the money you earn will be used: you, your (husband/partner), or you and your (husband/partner) jointly?                  | RESPONDENT ..... 1<br>HUSBAND/PARTNER ..... 2<br>RESPONDENT AND HUSBAND/PARTNER JOINTLY ... 3<br>OTHER ..... 6<br>(SPECIFY) _____  |       |
| 817A | Have you ever given up/refused a job for money because your husband/partner did not want you to work?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |       |
| 817B | Has your husband/partner's ever disrupted your work or other income-generating activities?  | NO ..... 1<br>INTERRUPTED ..... 2<br>DISTURBED ..... 3<br>CANNOT WORK/STOP WORKING ... 4<br>LOST CONFIDENCE ..... 5<br>DON'T KNOW ..... 8                                    |       |
| 818  | Would you say that the money that you earn is more than what your (husband/partner) earns, less than what he earns, or about the same?            | MORE THAN HIM ..... 1<br>LESS THAN HIM ..... 2<br>ABOUT THE SAME ..... 3<br>HUSBAND/PARTNER DOESN'T BRING IN ANY MONEY ..... 4<br>DON'T KNOW ..... 8                         | → 820 |
| 819  | Who usually decides how your (husband's/partner's) earnings will be used: you, your (husband/partner), or you and your (husband/partner) jointly? | RESPONDENT ..... 1<br>HUSBAND/PARTNER ..... 2<br>RESPONDENT AND HUSBAND/PARTNER JOINTLY ... 3<br>HUSBAND/PARTNER HAS NO EARNINGS ..... 4<br>OTHER ..... 6<br>(SPECIFY) _____ |       |
| 820  | Who usually makes decisions about health care for yourself: you, your (husband/partner), you and your (husband/partner) jointly, or someone else? | RESPONDENT ..... 1<br>HUSBAND/PARTNER ..... 2<br>RESPONDENT AND HUSBAND/PARTNER JOINTLY ... 3<br>SOMEONE ELSE ..... 4<br>OTHER ..... 6                                       |       |

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP |
|-----|---|--|------|
| 821 | Who usually makes decisions about making major household purchases?   | RESPONDENT ..... 1<br>HUSBAND/PARTNER ..... 2<br>RESPONDENT AND<br>HUSBAND/PARTNER JOINTLY ... 3<br>SOMEONE ELSE ..... 4<br>OTHER ..... 6  |      |
| 822 | Who usually makes decisions about visits to your family or relatives?   | RESPONDENT ..... 1<br>HUSBAND/PARTNER ..... 2<br>SOMEONE ELSE<br>HUSBAND/PARTNER JOINTLY ... 3<br>SOMEONE ELSE ..... 4<br>OTHER ..... 6  |      |
| 823 | Do you own this or any other house either alone or jointly with someone else?   | ALONE ONLY ..... 1<br>JOINTLY ONLY ..... 2<br>BOTH ALONE AND JOINTLY ..... 3<br>DOES NOT OWN ..... 4   |      |
| 824 | Do you own any land either alone or jointly with someone else?  | ALONE ONLY ..... 1<br>JOINTLY ONLY ..... 2<br>BOTH ALONE AND JOINTLY ..... 3<br>DOES NOT OWN ..... 4   |      |
| 825 | PRESENCE OF OTHERS AT THIS POINT (PRESENT AND LISTENING, PRESENT BUT NOT LISTENING, OR NOT PRESENT)   | <div> PRES./ LISTEN.    PRES./ NOT LISTEN.    NOT PRES. </div> CHILDREN < 10 ..... 1    2    3<br>HUSBAND ..... 1    2    3<br>OTHER MALES ..... 1    2    3<br>OTHER FEMALES ... 1    2    3                          |      |
| 826 | <p>In your opinion, is a husband justified in hitting or beating his wife in the following situations:</p> <p>If she goes out without telling him?</p> <p>If she neglects the children?</p> <p>If she argues with him?</p> <p>If she refuses to have sex with him?</p> <p>If she burns the food?</p> <p>If she ask him to use condom?</p> | <div> YES    NO    DK </div> GOES OUT ..... 1    2    8<br>NEGL. CHILDREN ... 1    2    8<br>ARGUES ..... 1    2    8<br>REFUSES SEX ..... 1    2    8<br>BURNS FOOD ..... 1    2    8<br>ASK USE CONDOM . 1    2    8 |      |
| 827 | <p>In your opinion, is a parent justified in hitting or beating his son for the following reasons:</p> <p>If he disobeys?</p> <p>If he impolite?</p> <p>If he has embarrassed the family?</p> <p>If he does not do the housework or cooking?</p> <p>If he does not take care of younger sibling ?</p>                                     | <div> YES    NO    DK </div> DISOBEY ..... 1    2    8<br>IMPOLITE ..... 1    2    8<br>EMBARR. FAMILY ... 1    2    8<br>HOUSEWORK ... 1    2    8<br>CARE SIBLING ... 1    2    8                                    |      |
| 828 | <p>In your opinion, is a parent justified in hitting or beating his daughter for the following reasons:</p> <p>If she disobeys?</p> <p>If she impolite?</p> <p>If she has embarrassed the family?</p> <p>If she does not do the housework or cooking?</p> <p>If she does not take care of younger sibling ?</p>                           | <div> YES    NO    DK </div> DISOBEY ..... 1    2    8<br>IMPOLITE ..... 1    2    8<br>EMBARR. FAMILY ... 1    2    8<br>HOUSEWORK ... 1    2    8<br>CARE SIBLING ... 1    2    8                                    |      |

SECTION 9. HIV/AIDS

| NO.                 | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
|---------------------|---|---|-------|-----|----|----|-------------------|---|---|---|---------------------|---|---|---|-------------------|---|---|---|--|
| 901                 | Now I would like to talk about something else. Have you ever heard of an illness called AIDS?   | YES ..... 1<br>NO ..... 2   | → 937 |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| 902                 | Can people reduce their chance of getting the AIDS virus by having just one uninfected sex partner who has no other sex partners?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| 903                 | Can people get the AIDS virus from mosquito bites?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| 904                 | Can people reduce their chance of getting the AIDS virus by using a condom every time they have sex?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| 905                 | Can people get the AIDS virus by sharing food with a person who has AIDS?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| 906                 | Can people get the AIDS virus because of witchcraft or other supernatural means?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| 907                 | Is it possible for a healthy-looking person to have the AIDS virus?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| 908                 | Can the virus that causes AIDS be transmitted from a mother to her baby:<br><br>During pregnancy?<br>During delivery?<br>By breastfeeding?  | <table> <thead> <tr> <th></th><th>YES</th><th>NO</th><th>DK</th></tr> </thead> <tbody> <tr> <td>DURING PREG. ....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>DURING DELIVERY ...</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>BREASTFEEDING ...</td><td>1</td><td>2</td><td>8</td></tr> </tbody> </table> |       | YES | NO | DK | DURING PREG. .... | 1 | 2 | 8 | DURING DELIVERY ... | 1 | 2 | 8 | BREASTFEEDING ... | 1 | 2 | 8 |  |
|                     | YES   | NO  | DK    |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| DURING PREG. ....   | 1   | 2   | 8     |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| DURING DELIVERY ... | 1   | 2   | 8     |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| BREASTFEEDING ...   | 1   | 2   | 8     |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| 909                 | CHECK 908:<br>AT LEAST <input type="checkbox"/> OTHER <input type="checkbox"/><br>ONE 'YES' ↓   |   | → 911 |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| 910                 | Are there any special drugs that a doctor or a nurse can give to a woman infected with the AIDS virus to reduce the risk of transmission to the baby?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| 911                 | CHECK 208 AND 215:<br><br>LAST BIRTH SINCE <input type="checkbox"/> JANUARY 2012 ↓<br>LAST BIRTH BEFORE <input type="checkbox"/> JANUARY 2012   | NO BIRTHS <input type="checkbox"/><br>→ 926   | → 926 |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| 912                 | CHECK 408 FOR LAST BIRTH:<br>HAD ANTENATAL CARE <input type="checkbox"/> ↓<br>NO ANTENATAL CARE <input type="checkbox"/>  | → 920   |       |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| 913                 | CHECK FOR PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY.   |   |       |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| 914                 | During any of the antenatal visits for your last birth were you given any information about:<br><br>Babies getting the AIDS virus from their mother?<br>Things that you can do to prevent getting the AIDS virus?<br>Getting tested for the AIDS virus? | <table> <thead> <tr> <th></th><th>YES</th><th>NO</th><th>DK</th></tr> </thead> <tbody> <tr> <td>AIDS FROM MOTHER</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>THINGS TO DO</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>TESTED FOR AIDS</td><td>1</td><td>2</td><td>8</td></tr> </tbody> </table>           |       | YES | NO | DK | AIDS FROM MOTHER  | 1 | 2 | 8 | THINGS TO DO        | 1 | 2 | 8 | TESTED FOR AIDS   | 1 | 2 | 8 |  |
|                     | YES   | NO  | DK    |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| AIDS FROM MOTHER    | 1   | 2   | 8     |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| THINGS TO DO        | 1   | 2   | 8     |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |
| TESTED FOR AIDS     | 1   | 2   | 8     |     |    |    |                   |   |   |   |                     |   |   |   |                   |   |   |   |  |

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP  |
|-----|--|---|-------|
| 915 | Were you offered a test for the AIDS virus as part of your antenatal care?   | YES ..... 1<br>NO ..... 2   |       |
| 916 | I don't want to know the results, but were you tested for the AIDS virus as part of your antenatal care?   | YES ..... 1<br>NO ..... 2   | → 920 |
| 917 | Where was the test done?<br><br>PROBE TO IDENTIFY THE TYPE OF SOURCE AND CIRCLE THE APPROPRIATE CODE.<br><br>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.<br><br>_____ (NAME OF PLACE) | PUBLIC SECTOR<br>NATIONAL HOSPITAL (PP) ..... 11<br>PROVINCIAL HOSP (RH) ..... 12<br>DISTRICT HOSPITAL (RH) ... 13<br>HEALTH CENTER ..... 14<br>HEALTH POST ..... 15<br>OUTREACH ..... 16<br>MILITARY HOSPITAL ..... 17<br>VCCT CENTER ..... 18<br>PMTCT SITE ..... 19<br>OTHER PUBLIC SECTOR ..... 20<br>(SPECIFY)<br>PRIVATE MEDICAL SECTOR<br>PRIVATE HOSPITAL ..... 21<br>PRIVATE CLINIC ..... 22<br>PRIVATE LABORATORY ..... 23<br>OTHER PRIVATE MEDICAL SECTOR ..... 24<br>(SPECIFY)<br>OTHER ..... 96<br>(SPECIFY) |       |
| 918 | I don't want to know the results, but did you get the results of the test?   | YES ..... 1<br>NO ..... 2   | → 924 |
| 919 | All women are supposed to receive counseling after being tested. After you were tested, did you receive counseling?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   | → 924 |
| 920 | CHECK 434 FOR LAST BIRTH:<br>ANY CODE <input type="checkbox"/> OTHER <input type="checkbox"/> _____<br>21-33 CIRCLED ↓   |   | → 926 |
| 921 | Between the time you went for delivery but before the baby was born, were you offered a test for the AIDS virus?   | YES ..... 1<br>NO ..... 2   |       |
| 922 | I don't want to know the results, but were you tested for the AIDS virus at that time?   | YES ..... 1<br>NO ..... 2   | → 926 |
| 923 | I don't want to know the results, but did you get the results of the test?   | YES ..... 1<br>NO ..... 2   |       |
| 924 | Have you been tested for the AIDS virus since that time you were tested during your pregnancy?   | YES ..... 1<br>NO ..... 2   | → 927 |
| 925 | How many months ago was your most recent HIV test?   | MONTHS AGO ..... <input type="text"/> <input type="text"/><br>TWO OR MORE YEARS ..... 96  | → 932 |

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP  |  |  |
|-----|---|--|-------|--|--|
| 926 | I don't want to know the results, but have you ever been tested to see if you have the AIDS virus?  | YES ..... 1<br>NO ..... 2  | → 930 |  |  |
| 927 | How many months ago was your most recent HIV test?  | MONTHS AGO ..... <table border="1"><tr><td></td><td></td></tr></table><br>TWO OR MORE YEARS ..... 96   |       |  |  |
|     |   |  |       |  |  |
| 928 | I don't want to know the results, but did you get the results of the test?  | YES ..... 1<br>NO ..... 2  |       |  |  |
| 929 | Where was the test done?<br><br>PROBE TO IDENTIFY THE TYPE OF SOURCE.<br><br>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.<br><br>_____<br>(NAME OF PLACE) | PUBLIC SECTOR<br>NATIONAL HOSPITAL (PP) ..... 11<br>PROVINCIAL HOSP (RH) ..... 12<br>DISTRICT HOSPITAL (RH) ... 13<br>HEALTH CENTER ..... 14<br>HEALTH POST ..... 15<br>OUTREACH ..... 16<br>MILITARY HOSPITAL ..... 17<br>VCCT CENTER ..... 18<br>PMTCT SITE ..... 19<br>OTHER PUBLIC<br>SECTOR ..... 20<br>(SPECIFY)<br>PRIVATE MEDICAL SECTOR<br>PRIVATE HOSPITAL ..... 21<br>PRIVATE CLINIC ..... 22<br>PRIVATE LABORATORY ..... 23<br>OTHER PRIVATE<br>MEDICAL SECTOR<br>..... 24<br>(SPECIFY)<br>OTHER ..... 96<br>(SPECIFY) | → 932 |  |  |
| 930 | Do you know of a place where people can go to get tested for the AIDS virus?  | YES ..... 1<br>NO ..... 2  | → 932 |  |  |

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP |
|------|---|--|------|
| 931  | <p>Where is that?</p> <p>Any other place?</p> <p>PROBE TO IDENTIFY EACH TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>_____</p> <p>(NAME OF PLACE(S))</p>  | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSPITAL (PP) ..... A</p> <p>PROVINCIAL HOSP (RH) ..... B</p> <p>DISTRICT HOSPITAL (RH) .... C</p> <p>HEALTH CENTER ..... D</p> <p>HEALTH POST ..... E</p> <p>OUTREACH ..... F</p> <p>MILITARY HOSPITAL ..... G</p> <p>VCCT CENTER ..... H</p> <p>PMTCT SITE ..... I</p> <p>OTHER PUBLIC SECTOR ..... J</p> <p>(SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIVATE HOSPITAL ..... K</p> <p>PRIVATE CLINIC ..... L</p> <p>PRIVATE LABORATORY ..... M</p> <p>OTHER PRIVATE MEDICAL SECTOR ..... N</p> <p>(SPECIFY)</p> <p>OTHER ..... X</p> <p>(SPECIFY)</p> |      |
| 932  | Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had the AIDS virus?   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   |      |
| 933  | If a member of your family got infected with the AIDS virus, would you want it to remain a secret or not?   | <p>YES, REMAIN A SECRET ..... 1</p> <p>NO ..... 2</p> <p>DK/NOT SURE/DEPENDS ..... 8</p>   |      |
| 934  | If a member of your family became sick with AIDS, would you be willing to care for her or him in your own household?  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DK/NOT SURE/DEPENDS ..... 8</p>  |      |
| 935  | In your opinion, if a female teacher has the AIDS virus but is not sick, should she be allowed to continue teaching in the school?  | <p>SHOULD BE ALLOWED ..... 1</p> <p>SHOULD NOT BE ALLOWED ..... 2</p> <p>DK/NOT SURE/DEPENDS ..... 8</p>   |      |
| 936  | Do you personally know someone who has been denied health services in the last 12 months because he or she is suspected to have the AIDS virus or has the AIDS virus?   | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DK ANYONE WITH AIDS ..... 8</p>  |      |
| 936A | Do you agree or disagree with the following statement: People with the AIDS virus should be ashamed of themselves.  | <p>AGREE ..... 1</p> <p>DISAGREE ..... 2</p> <p>DON'T KNOW/NO OPINION ..... 8</p>  |      |
| 936B | Do you agree or disagree with the following statement: People with the AIDS virus should be blamed for bringing the disease into the community?   | <p>AGREE ..... 1</p> <p>DISAGREE ..... 2</p> <p>DON'T KNOW/NO OPINION ..... 8</p>  |      |
| 937  | <p>CHECK 901:</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>HEARD ABOUT AIDS <input type="checkbox"/></p> <p>↓</p> <p>Apart from AIDS, have you heard about other infections that can be transmitted through sexual contact?</p> </div> <div style="width: 45%; border-left: 1px dashed black; padding-left: 10px;"> <p>NOT HEARD ABOUT AIDS <input type="checkbox"/></p> <p>↓</p> <p>Have you heard about infections that can be transmitted through sexual contact?</p> </div> </div> | <p>YES ..... 1</p> <p>NO ..... 2</p>   |      |

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |
|-----|--|--|-------|
| 938 | CHECK 613:<br>HAS HAD SEXUAL INTERCOURSE <input type="checkbox"/> NEVER HAD SEXUAL INTERCOURSE <input type="checkbox"/>  |  | → 946 |
| 939 | CHECK 937: HEARD ABOUT OTHER SEXUALLY TRANSMITTED INFECTIONS?<br>YES <input type="checkbox"/> NO <input type="checkbox"/>  |  | → 941 |
| 940 | Now I would like to ask you some questions about your health in the last 12 months. During the last 12 months, have you had a disease which you got through sexual contact?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |       |
| 941 | Sometimes women experience a bad-smelling abnormal genital discharge.<br>During the last 12 months, have you had a bad smelling abnormal genital discharge?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |       |
| 942 | Sometimes women have a genital sore or ulcer. During the last 12 months, have you had a genital sore or ulcer?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |       |
| 943 | CHECK 940, 941, AND 942:<br>HAS HAD AN INFECTION (ANY 'YES') <input type="checkbox"/> HAS NOT HAD AN INFECTION OR DOES NOT KNOW <input type="checkbox"/>   |  | → 946 |
| 944 | The last time you had (PROBLEM FROM 940/941/942), did you seek any kind of advice or treatment?  | YES ..... 1<br>NO ..... 2  | → 946 |
| 945 | Where did you go?<br><br>Any other place?<br><br>PROBE TO IDENTIFY EACH TYPE OF SOURCE.<br><br>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.<br><br>_____<br>(NAME OF PLACE(S)) | PUBLIC SECTOR<br>NATIONAL HOSPITAL (PP) ..... A<br>PROVINCIAL HOSP (RH) ..... B<br>DISTRICT HOSPITAL (RH) ..... C<br>HEALTH CENTER ..... D<br>HEALTH POST ..... E<br>FIELDWORKER ..... F<br>OUTREACH ..... G<br>MILITARY HOSPITAL ..... H<br>VCCT CENTER ..... I<br>PMTCT SITE ..... J<br>OTHER PUBLIC ..... K<br>(SPECIFY)<br><br>PRIVATE MEDICAL SECTOR<br>PRIVATE HOSPITAL ..... L<br>PRIVATE CLINIC ..... M<br>PRIVATE LABORATORY ..... N<br>OTHER PRIVATE MEDICAL SECTOR ..... O<br>(SPECIFY)<br><br>OTHER SOURCE<br>OTHER ..... X<br>(SPECIFY) |       |
| 946 | If a wife knows her husband has a disease that she can get during sexual intercourse, is she justified in asking that they use a condom when they have sex?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |       |
| 947 | Is a wife justified in refusing to have sex with her husband when she knows he has sex with other women?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  |       |

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES                                     | SKIP |
|-----|---|---|------|
| 948 | CHECK 601:<br>CURRENTLY MARRIED/ <input type="checkbox"/><br>LIVING WITH A MAN <input type="checkbox"/> NOT IN UNION <input type="checkbox"/> |   | 1001 |
| 949 | Can you say no to your (husband/partner) if you do not want to have sexual intercourse?   | YES ..... 1<br>NO ..... 2<br>DEPENDS/NOT SURE ..... 8 |      |
| 950 | Could you ask your (husband/partner) to use a condom if you wanted him to?  | YES ..... 1<br>NO ..... 2<br>DEPENDS/NOT SURE ..... 8 |      |



SECTION 10. OTHER HEALTH ISSUES

| NO.                  | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP   |                     |                           |                      |   |   |                     |   |   |                |   |   |                |   |   |  |
|----------------------|--|--|--------|---------------------|---------------------------|----------------------|---|---|---------------------|---|---|----------------|---|---|----------------|---|---|--|
| 1001                 | <p>Now I would like to ask you some other questions relating to health matters. Have you had an injection for any reason in the last 12 months?</p> <p>IF YES: How many injections have you had?</p> <p>IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'.</p> <p>IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.</p>   | <p>NUMBER OF INJECTIONS ... <input type="text"/> <input type="text"/></p> <p>NONE ..... 00</p>   | → 1004 |                     |                           |                      |   |   |                     |   |   |                |   |   |                |   |   |  |
| 1002                 | <p>Among these injections, how many were administered by a doctor, a nurse, a pharmacist, a dentist, or any other health worker?</p> <p>IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'.</p> <p>IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.</p>   | <p>NUMBER OF INJECTIONS ... <input type="text"/> <input type="text"/></p> <p>NONE ..... 00</p>   | → 1004 |                     |                           |                      |   |   |                     |   |   |                |   |   |                |   |   |  |
| 1003                 | The last time you got an injection from a health worker, did he/she take the syringe and needle from a new, unopened package?  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   |        |                     |                           |                      |   |   |                     |   |   |                |   |   |                |   |   |  |
| 1004                 | Do you currently smoke cigarettes?   | <p>YES ..... 1</p> <p>NO ..... 2</p>   | → 1006 |                     |                           |                      |   |   |                     |   |   |                |   |   |                |   |   |  |
| 1005                 | In the last 24 hours, how many cigarettes did you smoke?   | <p>NUMBER OF CIGARETTES ..... <input type="text"/> <input type="text"/></p>  |        |                     |                           |                      |   |   |                     |   |   |                |   |   |                |   |   |  |
| 1006                 | Do you currently smoke or use any (other) type of tobacco?   | <p>YES ..... 1</p> <p>NO ..... 2</p>   | → 1008 |                     |                           |                      |   |   |                     |   |   |                |   |   |                |   |   |  |
| 1007                 | <p>What (other) type of tobacco do you currently smoke or use?</p> <p>RECORD ALL MENTIONED.</p>  | <p>PIPE ..... A</p> <p>CHEWING TOBACCO ..... B</p> <p>SNUFF ..... C</p> <p>OTHER _____ X</p> <p align="center">(SPECIFY)</p>   |        |                     |                           |                      |   |   |                     |   |   |                |   |   |                |   |   |  |
| 1008                 | <p>Many different factors can prevent women from getting medical advice or treatment for themselves. When you are sick and want to get medical advice or treatment, is each of the following a big problem or not?</p> <p>Getting permission to go to the doctor?</p> <p>Getting money needed for advice or treatment?</p> <p>The distance to the health facility?</p> <p>Not wanting to go alone?</p> | <table border="0"> <thead> <tr> <th></th><th align="center">BIG<br/>PROB-<br/>LEM</th><th align="center">NOT A BIG<br/>PROB-<br/>LEM</th></tr> </thead> <tbody> <tr> <td>PERMISSION TO GO ...</td><td align="center">1</td><td align="center">2</td></tr> <tr> <td>GETTING MONEY .....</td><td align="center">1</td><td align="center">2</td></tr> <tr> <td>DISTANCE .....</td><td align="center">1</td><td align="center">2</td></tr> <tr> <td>GO ALONE .....</td><td align="center">1</td><td align="center">2</td></tr> </tbody> </table> |        | BIG<br>PROB-<br>LEM | NOT A BIG<br>PROB-<br>LEM | PERMISSION TO GO ... | 1 | 2 | GETTING MONEY ..... | 1 | 2 | DISTANCE ..... | 1 | 2 | GO ALONE ..... | 1 | 2 |  |
|                      | BIG<br>PROB-<br>LEM  | NOT A BIG<br>PROB-<br>LEM  |        |                     |                           |                      |   |   |                     |   |   |                |   |   |                |   |   |  |
| PERMISSION TO GO ... | 1  | 2  |        |                     |                           |                      |   |   |                     |   |   |                |   |   |                |   |   |  |
| GETTING MONEY .....  | 1  | 2  |        |                     |                           |                      |   |   |                     |   |   |                |   |   |                |   |   |  |
| DISTANCE .....       | 1  | 2  |        |                     |                           |                      |   |   |                     |   |   |                |   |   |                |   |   |  |
| GO ALONE .....       | 1  | 2  |        |                     |                           |                      |   |   |                     |   |   |                |   |   |                |   |   |  |
| 1009                 | Are you covered by any health insurance?   | <p>YES ..... 1</p> <p>NO ..... 2</p>   | → 1101 |                     |                           |                      |   |   |                     |   |   |                |   |   |                |   |   |  |

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP |
|------|---|---|------|
| 1010 | <p>What type of health insurance are you covered by?</p> <p>RECORD ALL MENTIONED.</p> | <p>HEALTH EQUITY FUND ..... A</p> <p>MATERNAL HEALTH VOUCHER ..... B</p> <p>COMMUNITY-BASED HEALTH</p> <p>INSURANCE ..... C</p> <p>HEALTH INSURANCE THROUGH</p> <p>EMPLOYER ..... D</p> <p>OTHER PRIVATELY PURCHASED</p> <p>COMMERCIAL HEALTH INSURANCE E</p> <p>OTHER _____ X</p> <p>(SPECIFY)</p> |      |

SECTION 11. MATERNAL MORTALITY

| NO.   | QUESTIONS AND FILTERS   | CODING CATEGORIES  |  |  |  |  |  | SKIP   |
|-------|---|--|--|--|--|--|--|--------|
| 1101  | Now I would like to ask you some questions about your brothers and sisters, that is, all of the children born to your natural mother, including those who are living with you, those living elsewhere and those who have died.<br>How many children did your mother give birth to, including you? | NUMBER OF BIRTHS TO NATURAL MOTHER ..... <input type="text"/> <input type="text"/>                           |  |  |  |  |  |        |
| 1102  | CHECK 1101:<br>TWO OR MORE BIRTHS <input type="checkbox"/> ONLY ONE BIRTH (RESPONDENT ONLY) <input type="checkbox"/>  |  |  |  |  |  |  | → 1114 |
| 1103  | How many of these births did your mother have before you were born?   | NUMBER OF PRECEDING BIRTHS ..... <input type="text"/> <input type="text"/>                                   |  |  |  |  |  |        |
| 1104  | What was the name given to your oldest (next oldest) brother or sister?   | (1) _____  | (2) _____  | (3) _____  | (4) _____  | (5) _____  | (6) _____  |        |
| 1105  | Is (NAME) male or female?   | MALE 1<br>FEMALE 2   | MALE 1<br>FEMALE 2   | MALE 1<br>FEMALE 2   | MALE 1<br>FEMALE 2   | MALE 1<br>FEMALE 2   | MALE 1<br>FEMALE 2   |        |
| 1106  | Is (NAME) still alive?  | YES ... 1<br>NO ... 2<br>GO TO 1108 ←<br>DK ... 8<br>GO TO (2) ←   | YES ... 1<br>NO ... 2<br>GO TO 1108 ←<br>DK ... 8<br>GO TO (3) ←   | YES ... 1<br>NO ... 2<br>GO TO 1108 ←<br>DK ... 8<br>GO TO (4) ←   | YES ... 1<br>NO ... 2<br>GO TO 1108 ←<br>DK ... 8<br>GO TO (5) ←   | YES ... 1<br>NO ... 2<br>GO TO 1108 ←<br>DK ... 8<br>GO TO (6) ←   | YES ... 1<br>NO ... 2<br>GO TO 1108 ←<br>DK ... 8<br>GO TO (7) ←   |        |
| 1107  | How old is (NAME)?  | <input type="text"/> <input type="text"/><br>GO TO (2)   | <input type="text"/> <input type="text"/><br>GO TO (3)   | <input type="text"/> <input type="text"/><br>GO TO (4)   | <input type="text"/> <input type="text"/><br>GO TO (5)   | <input type="text"/> <input type="text"/><br>GO TO (6)   | <input type="text"/> <input type="text"/><br>GO TO (7)   |        |
| 1108  | How many years ago did (NAME) die?  | <input type="text"/> <input type="text"/>  | <input type="text"/> <input type="text"/>  | <input type="text"/> <input type="text"/>  | <input type="text"/> <input type="text"/>  | <input type="text"/> <input type="text"/>  | <input type="text"/> <input type="text"/>  |        |
| 1109  | How old was (NAME) when he/she died?  | <input type="text"/> <input type="text"/><br>IF MALE<br>OR DIED<br>BEFORE<br>12 YEARS<br>OF AGE<br>GO TO (2) | <input type="text"/> <input type="text"/><br>IF MALE<br>OR DIED<br>BEFORE<br>12 YEARS<br>OF AGE<br>GO TO (3) | <input type="text"/> <input type="text"/><br>IF MALE<br>OR DIED<br>BEFORE<br>12 YEARS<br>OF AGE<br>GO TO (4) | <input type="text"/> <input type="text"/><br>IF MALE<br>OR DIED<br>BEFORE<br>12 YEARS<br>OF AGE<br>GO TO (5) | <input type="text"/> <input type="text"/><br>IF MALE<br>OR DIED<br>BEFORE<br>12 YEARS<br>OF AGE<br>GO TO (6) | <input type="text"/> <input type="text"/><br>IF MALE<br>OR DIED<br>BEFORE<br>12 YEARS<br>OF AGE<br>GO TO (7) |        |
| 1110  | Was (NAME) pregnant when she died?  | YES ... 1<br>GO TO 1112A ←<br>NO ... 2   | YES ... 1<br>GO TO 1112A ←<br>NO ... 2   | YES ... 1<br>GO TO 1112A ←<br>NO ... 2   | YES ... 1<br>GO TO 1112A ←<br>NO ... 2   | YES ... 1<br>GO TO 1112A ←<br>NO ... 2   | YES ... 1<br>GO TO 1112A ←<br>NO ... 2   |        |
| 1111  | Did (NAME) die during childbirth?   | YES ... 1<br>GO TO 1113 ←<br>NO ... 2  | YES ... 1<br>GO TO 1113 ←<br>NO ... 2  | YES ... 1<br>GO TO 1113 ←<br>NO ... 2  | YES ... 1<br>GO TO 1113 ←<br>NO ... 2  | YES ... 1<br>GO TO 1113 ←<br>NO ... 2  | YES ... 1<br>GO TO 1113 ←<br>NO ... 2  |        |
| 1112  | Did (NAME) die within six weeks after the end of a pregnancy or childbirth?   | YES ... 1<br>NO ... 2<br>GO TO 1113 ←  | YES ... 1<br>NO ... 2<br>GO TO 1113 ←  | YES ... 1<br>NO ... 2<br>GO TO 1113 ←  | YES ... 1<br>NO ... 2<br>GO TO 1113 ←  | YES ... 1<br>NO ... 2<br>GO TO 1113 ←  | YES ... 1<br>NO ... 2<br>GO TO 1113 ←  |        |
| 1112A | Was the death of (NAME) related to accident such as traffic accident?   | YES ... 1<br>NO ... 2  | YES ... 1<br>NO ... 2  | YES ... 1<br>NO ... 2  | YES ... 1<br>NO ... 2  | YES ... 1<br>NO ... 2  | YES ... 1<br>NO ... 2  |        |
| 1113  | How many live born children did (NAME) give birth to during her lifetime (before this pregnancy)?   | <input type="text"/> <input type="text"/>  | <input type="text"/> <input type="text"/>  | <input type="text"/> <input type="text"/>  | <input type="text"/> <input type="text"/>  | <input type="text"/> <input type="text"/>  | <input type="text"/> <input type="text"/>  |        |

GO BACK TO 1004 IN NEXT COLUMN, OR, IF NO MORE BROTHERS OR SISTERS, END.

|  |   |  |  |   |   |   |   |
|--|---|--|--|---|---|---|---|
| 1104   | What was the name given to your oldest (next oldest) brother or sister?                           | (7)<br>_____   | (8)<br>_____   | (9)<br>_____  | (10)<br>_____   | (11)<br>_____   | (12)<br>_____   |
| 1105   | Is (NAME) male or female?   | MALE 1<br>FEMALE 2   | MALE 1<br>FEMALE 2   | MALE 1<br>FEMALE 2  | MALE 1<br>FEMALE 2  | MALE 1<br>FEMALE 2  | MALE 1<br>FEMALE 2  |
| 1106   | Is (NAME) still alive?  | YES ... 1<br>NO ... 2<br>GO TO 1108<br>DK ... 8<br>GO TO (8)                                   | YES ... 1<br>NO ... 2<br>GO TO 1108<br>DK ... 8<br>GO TO (9)                                   | YES ... 1<br>NO ... 2<br>GO TO 1108<br>DK ... 8<br>GO TO (10)                                   | YES ... 1<br>NO ... 2<br>GO TO 1108<br>DK ... 8<br>GO TO (11)                                   | YES ... 1<br>NO ... 2<br>GO TO 1108<br>DK ... 8<br>GO TO (12)                                   | YES ... 1<br>NO ... 2<br>GO TO 1108<br>DK ... 8<br>GO TO (13)                                   |
| 1107   | How old is (NAME)?  | <div>  </div> <div>  </div><br>GO TO (8)   | <div>  </div> <div>  </div><br>GO TO (9)   | <div>  </div> <div>  </div><br>GO TO (10)   | <div>  </div> <div>  </div><br>GO TO (11)   | <div>  </div> <div>  </div><br>GO TO (12)   | <div>  </div> <div>  </div><br>GO TO (13)   |
| 1108   | How many years ago did (NAME) die?  | <div>  </div> <div>  </div>  | <div>  </div> <div>  </div>  | <div>  </div> <div>  </div>   | <div>  </div> <div>  </div>   | <div>  </div> <div>  </div>   | <div>  </div> <div>  </div>   |
| 1109   | How old was (NAME) when he/she died?  | <div>  </div> <div>  </div><br>IF MALE<br>OR DIED<br>BEFORE<br>12 YEARS<br>OF AGE<br>GO TO (8) | <div>  </div> <div>  </div><br>IF MALE<br>OR DIED<br>BEFORE<br>12 YEARS<br>OF AGE<br>GO TO (9) | <div>  </div> <div>  </div><br>IF MALE<br>OR DIED<br>BEFORE<br>12 YEARS<br>OF AGE<br>GO TO (10) | <div>  </div> <div>  </div><br>IF MALE<br>OR DIED<br>BEFORE<br>12 YEARS<br>OF AGE<br>GO TO (11) | <div>  </div> <div>  </div><br>IF MALE<br>OR DIED<br>BEFORE<br>12 YEARS<br>OF AGE<br>GO TO (12) | <div>  </div> <div>  </div><br>IF MALE<br>OR DIED<br>BEFORE<br>12 YEARS<br>OF AGE<br>GO TO (13) |
| 1110   | Was (NAME) pregnant when she died?  | YES ... 1<br>GO TO 1112A<br>NO ... 2   | YES ... 1<br>GO TO 1112A<br>NO ... 2   | YES ... 1<br>GO TO 1112A<br>NO ... 2  | YES ... 1<br>GO TO 1112A<br>NO ... 2  | YES ... 1<br>GO TO 1112A<br>NO ... 2  | YES ... 1<br>GO TO 1112A<br>NO ... 2  |
| 1111   | Did (NAME) die during childbirth?   | YES ... 1<br>GO TO 1113<br>NO ... 2  | YES ... 1<br>GO TO 1113<br>NO ... 2  | YES ... 1<br>GO TO 1113<br>NO ... 2   | YES ... 1<br>GO TO 1113<br>NO ... 2   | YES ... 1<br>GO TO 1113<br>NO ... 2   | YES ... 1<br>GO TO 1113<br>NO ... 2   |
| 1112   | Did (NAME) die within six weeks after the end of a pregnancy or childbirth?                       | YES ... 1<br>NO ... 2<br>GO TO 1113  | YES ... 1<br>NO ... 2<br>GO TO 1113  | YES ... 1<br>NO ... 2<br>GO TO 1113   | YES ... 1<br>NO ... 2<br>GO TO 1113   | YES ... 1<br>NO ... 2<br>GO TO 1113   | YES ... 1<br>NO ... 2<br>GO TO 1113   |
| 1112A  | Was the death of (NAME) related to accident such as traffic accident?                             | YES ... 1<br>NO ... 2  | YES ... 1<br>NO ... 2  | YES ... 1<br>NO ... 2   | YES ... 1<br>NO ... 2   | YES ... 1<br>NO ... 2   | YES ... 1<br>NO ... 2   |
| 1113   | How many live born children did (NAME) give birth to during her lifetime (before this pregnancy)? | <div>  </div> <div>  </div>  | <div>  </div> <div>  </div>  | <div>  </div> <div>  </div>   | <div>  </div> <div>  </div>   | <div>  </div> <div>  </div>   | <div>  </div> <div>  </div>   |
| GO BACK TO 1004 IN NEXT COLUMN, OR, IF NO MORE BROTHERS OR SISTERS, END. |   |  |  |   |   |   |   |
| 1114   | RECORD THE TIME.  |  |  |   | HOUR ..... <div>  </div> <div>  </div><br>MINUTES ..... <div>  </div> <div>  </div>             |   |   |

SECTION 12. DOMESTIC VIOLENCE MODULE

| NO.                     | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP       |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
|-------------------------|---|--|------------|-----------------------|-------|------------|-----------------------|--------|-----|---|------------------|---|----|-----|-------------------------|---|---|--------|--------------------|---|---|---|------------------------|-----|---|---|---------------|--------|-----|---|---------------------|---|----|-----|--|--|--|--|
| DV00                    | CHECK COVER PAGE HOUSEHOLD QUESTIONNAIRE:<br>HOUSEHOLD SELECTED FOR MALE INTERVIEW AND<br>DOMESTIC VIOLENCE OF THE WOMEN  | YES ..... 1<br>NO ..... 2  | → END      |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| DV00A                   | CHECK HOUSEHOLD QUESTIONNAIRE, Q.145<br><br>WOMAN SELECTED <input type="checkbox"/> FOR THIS SECTION<br>WOMAN <input type="checkbox"/> NOT SELECTED   |  | → END      |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| DV01                    | CHECK FOR PRESENCE OF OTHERS:<br>DO NOT CONTINUE UNTIL PRIVACY IS ENSURED.<br><br>PRIVACY <input type="checkbox"/> OBTAINED<br>PRIVACY <input type="checkbox"/> NOT POSSIBLE  |  | → DV32     |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
|                         | READ TO THE RESPONDENT<br><br>Now I would like to ask you questions about some other important aspects of a woman's life. You may find some of these questions very personal. However, your answers are crucial for helping to understand the condition of women in [COUNTRY]. Let me assure you that your answers are completely confidential and will not be told to anyone and no one else in your household will know that you were asked these questions.  |  |            |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| DV02                    | CHECK 601 AND 602:<br><br>CURRENTLY <input type="checkbox"/> MARRIED/<br>LIVING WITH A MAN<br>FORMERLY <input type="checkbox"/> MARRIED/<br>LIVED WITH A MAN<br>(READ IN PAST TENSE<br>AND USE 'LAST' WITH<br>HUSBAND/PARTNER)<br>NEVER MARRIED/<br>NEVER LIVED WITH A MAN <input type="checkbox"/>   |  | → DV16     |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| DV03                    | First, I am going to ask you about some situations which happen to some women. Please tell me if these apply to your relationship with your (last) (husband/partner)?<br><br>a) He (is/was) jealous or angry if you (talk/talked) to other men?<br>b) He frequently (accuses/accused) you of being unfaithful?<br>c) He (does/did) not permit you to meet your female friends?<br>d) He (tries/tried) to limit your contact with your family?<br>e) He (insists/insisted) on knowing where you (are/were) at all times?<br>f) He (does/did) not give you money to cover the household expenses?<br>g) He (does/did) not trust you with money? | <table border="0"> <thead> <tr> <th></th><th>YES</th><th>NO</th><th>DK</th></tr> </thead> <tbody> <tr> <td>a) JEALOUS .....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>b) ACCUSES .....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>c) NOT MEET FRIENDS ...</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>d) NO FAMILY .....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>e) WHERE YOU ARE .....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>f) GIVE MONEY</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>g) TRUST WITH MONEY</td><td>1</td><td>2</td><td>8</td></tr> </tbody> </table>   |            | YES                   | NO    | DK         | a) JEALOUS .....      | 1      | 2   | 8 | b) ACCUSES ..... | 1 | 2  | 8   | c) NOT MEET FRIENDS ... | 1 | 2 | 8      | d) NO FAMILY ..... | 1 | 2 | 8 | e) WHERE YOU ARE ..... | 1   | 2 | 8 | f) GIVE MONEY | 1      | 2   | 8 | g) TRUST WITH MONEY | 1 | 2  | 8   |  |  |  |  |
|                         | YES   | NO   | DK         |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| a) JEALOUS .....        | 1   | 2  | 8          |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| b) ACCUSES .....        | 1   | 2  | 8          |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| c) NOT MEET FRIENDS ... | 1   | 2  | 8          |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| d) NO FAMILY .....      | 1   | 2  | 8          |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| e) WHERE YOU ARE .....  | 1   | 2  | 8          |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| f) GIVE MONEY           | 1   | 2  | 8          |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| g) TRUST WITH MONEY     | 1   | 2  | 8          |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| DV04                    | Now I need to ask some more questions about your relationship with your (last) (husband/partner).<br><br>A Did your (last) (husband/partner) ever:<br><br>a) say or do something to humiliate you in front of others?<br>b) threaten to hurt or harm you or someone you care about?<br>c) insult you or make you feel bad about yourself?   | <p>B How often did this happen during the last 12 months: often, only sometimes, or not at all?</p> <table border="1"> <thead> <tr> <th></th><th>EVER</th><th>OFTEN</th><th>SOME-TIMES</th><th>NOT IN LAST 12 MONTHS</th></tr> </thead> <tbody> <tr> <td>a) YES</td><td>1 →</td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>NO</td><td>2 ↓</td><td></td><td></td><td></td></tr> <tr> <td>b) YES</td><td>1 →</td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>NO</td><td>2 ↓</td><td></td><td></td><td></td></tr> <tr> <td>c) YES</td><td>1 →</td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>NO</td><td>2 ↓</td><td></td><td></td><td></td></tr> </tbody> </table> |            | EVER                  | OFTEN | SOME-TIMES | NOT IN LAST 12 MONTHS | a) YES | 1 → | 1 | 2                | 3 | NO | 2 ↓ |                         |   |   | b) YES | 1 →                | 1 | 2 | 3 | NO                     | 2 ↓ |   |   |               | c) YES | 1 → | 1 | 2                   | 3 | NO | 2 ↓ |  |  |  |  |
|                         | EVER  | OFTEN  | SOME-TIMES | NOT IN LAST 12 MONTHS |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| a) YES                  | 1 →   | 1  | 2          | 3                     |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| NO                      | 2 ↓   |  |            |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| b) YES                  | 1 →   | 1  | 2          | 3                     |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| NO                      | 2 ↓   |  |            |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| c) YES                  | 1 →   | 1  | 2          | 3                     |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |
| NO                      | 2 ↓   |  |            |                       |       |            |                       |        |     |   |                  |   |    |     |                         |   |   |        |                    |   |   |   |                        |     |   |   |               |        |     |   |                     |   |    |     |  |  |  |  |

| NO.    | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP       |                       |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
|--------|---|--|------------|-----------------------|-------|------------|-----------------------|--------|-----|---|---|---|----|-----|--|--|--|--------|-----|---|---|---|----|-----|--|--|--|--------|-----|---|---|---|----|-----|--|--|--|--------|-----|---|---|---|----|-----|--|--|--|--------|-----|---|---|---|----|-----|--|--|--|--------|-----|---|---|---|----|-----|--|--|--|--------|-----|---|---|---|----|-----|--|--|--|--------|-----|---|---|---|----|-----|--|--|--|--------|-----|---|---|---|----|-----|--|--|--|--------|-----|---|---|---|----|-----|--|--|--|--|
| DV05   | <p>A. Did your (last) (husband/partner) ever do any of the following things to you:</p> <p>a) push you, shake you, or throw something at you?</p> <p>b) slap you?</p> <p>c) twist your arm or pull your hair?</p> <p>d) punch you with his fist or with something that could hurt you?</p> <p>e) kick you, drag you, or beat you up?</p> <p>f) try to choke you or burn you on purpose?</p> <p>g) threaten or attack you with a knife, gun, or other weapon?</p> <p>h) physically force you to have sexual intercourse with him when you did not want to?</p> <p>i) physically force you to perform any other sexual acts you did not want to?</p> <p>j) force you with threats or in any other way to perform sexual acts you did not want to?</p> | <p>B. How often did this happen during the last 12 months: often, only sometimes, or not at all?</p> <table border="1"> <thead> <tr> <th></th><th>EVER</th><th>OFTEN</th><th>SOME-TIMES</th><th>NOT IN LAST 12 MONTHS</th></tr> </thead> <tbody> <tr> <td>a) YES</td><td>1 →</td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>NO</td><td>2 ↓</td><td></td><td></td><td></td></tr> <tr> <td>b) YES</td><td>1 →</td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>NO</td><td>2 ↓</td><td></td><td></td><td></td></tr> <tr> <td>c) YES</td><td>1 →</td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>NO</td><td>2 ↓</td><td></td><td></td><td></td></tr> <tr> <td>d) YES</td><td>1 →</td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>NO</td><td>2 ↓</td><td></td><td></td><td></td></tr> <tr> <td>e) YES</td><td>1 →</td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>NO</td><td>2 ↓</td><td></td><td></td><td></td></tr> <tr> <td>f) YES</td><td>1 →</td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>NO</td><td>2 ↓</td><td></td><td></td><td></td></tr> <tr> <td>g) YES</td><td>1 →</td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>NO</td><td>2 ↓</td><td></td><td></td><td></td></tr> <tr> <td>h) YES</td><td>1 →</td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>NO</td><td>2 ↓</td><td></td><td></td><td></td></tr> <tr> <td>i) YES</td><td>1 →</td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>NO</td><td>2 ↓</td><td></td><td></td><td></td></tr> <tr> <td>j) YES</td><td>1 →</td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>NO</td><td>2 ↓</td><td></td><td></td><td></td></tr> </tbody> </table> |            | EVER                  | OFTEN | SOME-TIMES | NOT IN LAST 12 MONTHS | a) YES | 1 → | 1 | 2 | 3 | NO | 2 ↓ |  |  |  | b) YES | 1 → | 1 | 2 | 3 | NO | 2 ↓ |  |  |  | c) YES | 1 → | 1 | 2 | 3 | NO | 2 ↓ |  |  |  | d) YES | 1 → | 1 | 2 | 3 | NO | 2 ↓ |  |  |  | e) YES | 1 → | 1 | 2 | 3 | NO | 2 ↓ |  |  |  | f) YES | 1 → | 1 | 2 | 3 | NO | 2 ↓ |  |  |  | g) YES | 1 → | 1 | 2 | 3 | NO | 2 ↓ |  |  |  | h) YES | 1 → | 1 | 2 | 3 | NO | 2 ↓ |  |  |  | i) YES | 1 → | 1 | 2 | 3 | NO | 2 ↓ |  |  |  | j) YES | 1 → | 1 | 2 | 3 | NO | 2 ↓ |  |  |  |  |
|        | EVER  | OFTEN  | SOME-TIMES | NOT IN LAST 12 MONTHS |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| a) YES | 1 →   | 1  | 2          | 3                     |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| NO     | 2 ↓   |  |            |                       |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| b) YES | 1 →   | 1  | 2          | 3                     |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| NO     | 2 ↓   |  |            |                       |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| c) YES | 1 →   | 1  | 2          | 3                     |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| NO     | 2 ↓   |  |            |                       |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| d) YES | 1 →   | 1  | 2          | 3                     |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| NO     | 2 ↓   |  |            |                       |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| e) YES | 1 →   | 1  | 2          | 3                     |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| NO     | 2 ↓   |  |            |                       |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| f) YES | 1 →   | 1  | 2          | 3                     |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| NO     | 2 ↓   |  |            |                       |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| g) YES | 1 →   | 1  | 2          | 3                     |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| NO     | 2 ↓   |  |            |                       |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| h) YES | 1 →   | 1  | 2          | 3                     |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| NO     | 2 ↓   |  |            |                       |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| i) YES | 1 →   | 1  | 2          | 3                     |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| NO     | 2 ↓   |  |            |                       |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| j) YES | 1 →   | 1  | 2          | 3                     |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| NO     | 2 ↓   |  |            |                       |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| DV06   | <p>CHECK DV05A (a-j):</p> <p>AT LEAST ONE 'YES' <input type="checkbox"/></p> <p>NOT A SINGLE 'YES' <input type="checkbox"/></p>   | <p>→ DV09</p>  |            |                       |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| DV07   | <p>How long after you first (got married/started living together) with your (last) (husband/partner) did (this/any of these things) first happen?</p> <p>IF LESS THAN ONE YEAR, RECORD '00'.</p>  | <p>NUMBER OF YEARS ..... <input type="text"/> <input type="text"/></p> <p>BEFORE MARRIAGE/BEFORE LIVING TOGETHER..... 95</p>   |            |                       |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |
| DV08   | <p>Did the following ever happen as a result of what your (last) (husband/partner) did to you:</p> <p>a) You had cuts, bruises, or aches?</p> <p>b) You had eye injuries, sprains, dislocations, or burns?</p> <p>c) You had deep wounds, broken bones, broken teeth, or any other serious injury?</p>  | <p>a) YES ..... 1</p> <p>NO ..... 2</p> <p>b) YES ..... 1</p> <p>NO ..... 2</p> <p>c) YES ..... 1</p> <p>NO ..... 2</p>  |            |                       |       |            |                       |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |        |     |   |   |   |    |     |  |  |  |  |

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP           |                |                   |                |                |   |                         |   |   |   |  |                    |   |   |   |  |
|--|---|---|----------------|----------------|-------------------|----------------|----------------|---|-------------------------|---|---|---|--|--------------------|---|---|---|--|
| DV09   | Have you ever hit, slapped, kicked, or done anything else to physically hurt your (last) (husband/partner) at times when he was not already beating or physically hurting you?  | YES ..... 1<br>NO ..... 2   | → DV11         |                |                   |                |                |   |                         |   |   |   |  |                    |   |   |   |  |
| DV10   | In the last 12 months, how often have you done this to your (last) (husband/partner): often, only sometimes, or not at all?   | OFTEN ..... 1<br>SOMETIMES ..... 2<br>NOT AT ALL ..... 3                            |                |                |                   |                |                |   |                         |   |   |   |  |                    |   |   |   |  |
| DV11   | Does (did) your (last) (husband/partner) drink alcohol?   | YES ..... 1<br>NO ..... 2   | → DV13         |                |                   |                |                |   |                         |   |   |   |  |                    |   |   |   |  |
| DV12   | How often does (did) he get drunk: often, only sometimes, or never?   | OFTEN ..... 1<br>SOMETIMES ..... 2<br>NEVER ..... 3                                 |                |                |                   |                |                |   |                         |   |   |   |  |                    |   |   |   |  |
| DV13   | Are (Were) you afraid of your (last) (husband/partner): most of the time, sometimes, or never?  | MOST OF THE TIME AFRAID ..... 1<br>SOMETIMES AFRAID ..... 2<br>NEVER AFRAID ..... 3 |                |                |                   |                |                |   |                         |   |   |   |  |                    |   |   |   |  |
| DV14   | CHECK 609:<br>MARRIED MORE THAN ONCE <input type="checkbox"/> MARRIED ONLY ONCE <input type="checkbox"/>  |   | → DV16         |                |                   |                |                |   |                         |   |   |   |  |                    |   |   |   |  |
| DV15   | <div> <div> A So far we have been talking about the behavior of your (current/last) (husband/partner). Now I want to ask you about the behavior of any previous (husband/partner). </div> <div> B How long ago did this last happen? </div> </div> <table border="1"> <thead> <tr> <th></th><th>EVER</th><th>0 - 11 MONTHS AGO</th><th>12+ MONTHS AGO</th><th>DON'T REMEMBER</th></tr> </thead> <tbody> <tr> <td>a) Did any previous (husband/partner) ever hit, slap, kick, or do anything else to hurt you physically?</td><td> a) YES 1 →<br/> NO 2<br/> ↓ </td><td>1</td><td>2</td><td>3</td></tr> <tr> <td>b) Did any previous (husband/partner) physically force you to have intercourse or perform any other sexual acts against your will?</td><td> b) YES 1 →<br/> NO 2 </td><td>1</td><td>2</td><td>3</td></tr> </tbody> </table> |   |                | EVER           | 0 - 11 MONTHS AGO | 12+ MONTHS AGO | DON'T REMEMBER | a) Did any previous (husband/partner) ever hit, slap, kick, or do anything else to hurt you physically? | a) YES 1 →<br>NO 2<br>↓ | 1 | 2 | 3 | b) Did any previous (husband/partner) physically force you to have intercourse or perform any other sexual acts against your will? | b) YES 1 →<br>NO 2 | 1 | 2 | 3 |  |
|  | EVER  | 0 - 11 MONTHS AGO   | 12+ MONTHS AGO | DON'T REMEMBER |                   |                |                |   |                         |   |   |   |  |                    |   |   |   |  |
| a) Did any previous (husband/partner) ever hit, slap, kick, or do anything else to hurt you physically?                            | a) YES 1 →<br>NO 2<br>↓   | 1   | 2              | 3              |                   |                |                |   |                         |   |   |   |  |                    |   |   |   |  |
| b) Did any previous (husband/partner) physically force you to have intercourse or perform any other sexual acts against your will? | b) YES 1 →<br>NO 2  | 1   | 2              | 3              |                   |                |                |   |                         |   |   |   |  |                    |   |   |   |  |

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP   |   |               |
|--|--|--|--|---|---------------|
| DV16   | <p>CHECK 601 AND 602:</p> <table border="0"> <tr> <td> <p>EVER MARRIED/EVER LIVED WITH A MAN</p> <p><input type="checkbox"/></p> <p>↓</p> <p>From the time you were 15 years old has anyone other than (your/any) (husband/partner) hit you, slapped you, kicked you, or done anything else to hurt you physically?</p> </td><td> <p>NEVER MARRIED/NEVER LIVED WITH A MAN</p> <p><input type="checkbox"/></p> <p>↓</p> <p>From the time you were 15 years old has anyone hit you, slapped you, kicked you, or done anything else to hurt you physically?</p> </td></tr> </table> | <p>EVER MARRIED/EVER LIVED WITH A MAN</p> <p><input type="checkbox"/></p> <p>↓</p> <p>From the time you were 15 years old has anyone other than (your/any) (husband/partner) hit you, slapped you, kicked you, or done anything else to hurt you physically?</p>   | <p>NEVER MARRIED/NEVER LIVED WITH A MAN</p> <p><input type="checkbox"/></p> <p>↓</p> <p>From the time you were 15 years old has anyone hit you, slapped you, kicked you, or done anything else to hurt you physically?</p> | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>REFUSED TO ANSWER/NO ANSWER ..... 3</p> | <p>→ DV19</p> |
| <p>EVER MARRIED/EVER LIVED WITH A MAN</p> <p><input type="checkbox"/></p> <p>↓</p> <p>From the time you were 15 years old has anyone other than (your/any) (husband/partner) hit you, slapped you, kicked you, or done anything else to hurt you physically?</p> | <p>NEVER MARRIED/NEVER LIVED WITH A MAN</p> <p><input type="checkbox"/></p> <p>↓</p> <p>From the time you were 15 years old has anyone hit you, slapped you, kicked you, or done anything else to hurt you physically?</p>   |  |  |   |               |
| DV17   | <p>Who has hurt you in this way?</p> <p>Anyone else?</p> <p>RECORD ALL MENTIONED.</p>  | <p>MOTHER/STEP-MOTHER ..... A</p> <p>FATHER/STEP-FATHER ..... B</p> <p>SISTER/BROTHER ..... C</p> <p>DAUGHTER/SON ..... D</p> <p>OTHER RELATIVE ..... E</p> <p>CURRENT BOYFRIEND ..... F</p> <p>FORMER BOYFRIEND ..... G</p> <p>MOTHER-IN-LAW ..... H</p> <p>FATHER-IN-LAW ..... I</p> <p>OTHER IN-LAW ..... J</p> <p>TEACHER ..... K</p> <p>EMPLOYER/SOMEONE AT WORK ..... L</p> <p>POLICE/SOLDIER ..... M</p> <p>OTHER ..... X</p> <p>(SPECIFY)</p>  |  |   |               |
| DV18   | <p>In the last 12 months, how often has (this person/have these persons) physically hurt you: often, only sometimes, or not at all?</p>  | <p>OFTEN ..... 1</p> <p>SOMETIMES ..... 2</p> <p>NOT AT ALL ..... 3</p>  |  |   |               |
| DV19   | <p>CHECK 201, 226, AND 230:</p> <table border="0"> <tr> <td> <p>EVER BEEN PREGNANT (YES ON 201 OR 226 OR 230)</p> <p><input type="checkbox"/></p> <p>↓</p> </td><td> <p>NEVER BEEN PREGNANT <input type="checkbox"/></p> </td></tr> </table>   | <p>EVER BEEN PREGNANT (YES ON 201 OR 226 OR 230)</p> <p><input type="checkbox"/></p> <p>↓</p>  | <p>NEVER BEEN PREGNANT <input type="checkbox"/></p>  |   | <p>→ DV22</p> |
| <p>EVER BEEN PREGNANT (YES ON 201 OR 226 OR 230)</p> <p><input type="checkbox"/></p> <p>↓</p>  | <p>NEVER BEEN PREGNANT <input type="checkbox"/></p>  |  |  |   |               |
| DV20   | <p>Has any one ever hit, slapped, kicked, or done anything else to hurt you physically while you were pregnant?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p>   | <p>→ DV22</p>  |   |               |
| DV21   | <p>Who has done any of these things to physically hurt you while you were pregnant?</p> <p>Anyone else?</p> <p>RECORD ALL MENTIONED.</p>   | <p>CURRENT HUSBAND/PARTNER ..... A</p> <p>MOTHER/STEP-MOTHER ..... B</p> <p>FATHER/STEP-FATHER ..... C</p> <p>SISTER/BROTHER ..... D</p> <p>DAUGHTER/SON ..... E</p> <p>OTHER RELATIVE ..... F</p> <p>FORMER HUSBAND/PARTNER ..... G</p> <p>CURRENT BOYFRIEND ..... H</p> <p>FORMER BOYFRIEND ..... I</p> <p>MOTHER-IN-LAW ..... J</p> <p>FATHER-IN-LAW ..... K</p> <p>OTHER IN-LAW ..... L</p> <p>TEACHER ..... M</p> <p>EMPLOYER/SOMEONE AT WORK ..... N</p> <p>POLICE/SOLDIER ..... O</p> <p>OTHER ..... X</p> <p>(SPECIFY)</p> |  |   |               |



| NO.   | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP          |
|-------|---|--|---------------|
| DV22  | CHECK 601 AND 602:<br><br><div> EVER MARRIED/EVER LIVED WITH A MAN <input type="checkbox"/> </div> <div> NEVER MARRIED/NEVER LIVED WITH A MAN <input type="checkbox"/> </div>   |  | DV22B         |
| DV22A | Now I want to ask you about things that may have been done to you by someone other than (your/any) (husband/partner).<br><br>At any time in your life, as a child or as an adult, has anyone ever forced you in any way to have sexual intercourse or perform any other sexual acts when you did not want to?   | YES ..... 1<br>NO ..... 2<br>REFUSED TO ANSWER/<br>NO ANSWER ..... 3   | DV23<br>DV24A |
| DV22B | At any time in your life, as a child or as an adult, has anyone ever forced you in any way to have sexual intercourse or perform any other sexual acts when you did not want to?  | YES ..... 1<br>NO ..... 2<br>REFUSED TO ANSWER/<br>NO ANSWER ..... 3   | DV26          |
| DV23  | Has you ever been forced in any way to have sexual intercourse or perform any other sexual acts when you did not want to by several person/group of person/gang?  | YES ..... 1<br>NO ..... 2<br>REFUSED TO ANSWER/<br>NO ANSWER ..... 3   | DV24          |
| DV23A | Who was the person who was forcing you the very first time this happened?   | CURRENT HUSBAND/PARTNER ..... 01<br>FORMER HUSBAND/PARTNER ..... 02<br>CURRENT/FORMER BOYFRIEND ..... 03<br>FATHER/STEP-FATHER ..... 04<br>BROTHER/STEP-BROTHER ..... 05<br>OTHER RELATIVE ..... 06<br>IN-LAW ..... 07<br>OWN FRIEND/ACQUAINTANCE ..... 08<br>FAMILY FRIEND ..... 09<br>TEACHER ..... 10<br>EMPLOYER/SOMEONE AT WORK ..... 11<br>POLICE/SOLDIER ..... 12<br>PRIEST/RELIGIOUS LEADER ..... 13<br>STRANGER ..... 14<br><br>OTHER ..... 96<br>(SPECIFY) |               |
| DV24  | CHECK 601 AND 602:<br><br><div> EVER MARRIED/EVER LIVED WITH A MAN <input type="checkbox"/> </div> <div> NEVER MARRIED/NEVER LIVED WITH A MAN <input type="checkbox"/> </div><br><div> In the last 12 months, has anyone other than (your/any) (husband/partner) physically forced you to have sexual intercourse when you did not want to? </div> <div> In the last 12 months has anyone physically forced you to have sexual intercourse when you did not want to? </div> | YES ..... 1<br>NO ..... 2  | DV25          |
| DV24A | CHECK DV05A (h-j) and DV15A(b)<br><br><div> AT LEAST ONE 'YES' <input type="checkbox"/> </div> <div> NOT A SINGLE 'YES' <input type="checkbox"/> </div>   |  | DV26          |

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP |
|------|---|---|------|
| DV25 | <p>CHECK 601 AND 602:</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>EVER MARRIED/EVER LIVED WITH A MAN <input type="checkbox"/></p> <p>How old were you the first time you were forced to have sexual intercourse or perform any other sexual acts by anyone, including (your/any) husband/partner?</p> </div> <div style="width: 45%;"> <p>NEVER MARRIED/NEVER LIVED WITH A MAN <input type="checkbox"/></p> <p>How old were you the first time you were forced to have sexual intercourse or perform any other sexual acts?</p> </div> </div> | <p>AGE IN COMPLETED YEARS <input style="width: 40px;" type="text"/><input style="width: 40px;" type="text"/></p> <p>DON'T KNOW ..... 98</p> |      |

|      |   |  |        |
|------|---|--|--------|
| DV26 | <p>CHECK DV05A (a-j), DV15A (a,b), DV16, DV20, DV22A, AND DV22B:</p> <div style="display: flex; justify-content: space-around;"> <p>AT LEAST ONE 'YES' <input type="checkbox"/></p> <p>NOT A SINGLE 'YES' <input type="checkbox"/></p> </div> |  | → DV30 |
|------|---|--|--------|

|      |  |                                      |        |
|------|--|--------------------------------------|--------|
| DV27 | Thinking about what you yourself have experienced among the different things we have been talking about, have you ever tried to seek help? | <p>YES ..... 1</p> <p>NO ..... 2</p> | → DV29 |
|------|--|--------------------------------------|--------|

|      |   |  |        |
|------|---|--|--------|
| DV28 | <p>From whom have you sought help?</p> <p>Anyone else?</p> <p>RECORD ALL MENTIONED.</p> | <p>OWN FAMILY ..... A</p> <p>HUSBAND'S/PARTNER'S FAMILY ..... B</p> <p>CURRENT/FORMER HUSBAND/PARTNER ..... C</p> <p>CURRENT/FORMER BOYFRIEND ..... D</p> <p>FRIEND ..... E</p> <p>NEIGHBOR ..... F</p> <p>RELIGIOUS LEADER ..... G</p> <p>DOCTOR/MEDICAL PERSONNEL ..... H</p> <p>POLICE ..... I</p> <p>LAWYER ..... J</p> <p>SOCIAL SERVICE ORGANIZATION ..... K</p> <p>OTHER _____ X</p> <p style="text-align: center;">(SPECIFY)</p> | → DV30 |
|------|---|--|--------|

|      |  |                                      |  |
|------|--|--------------------------------------|--|
| DV29 | Have you ever told any one about this? | <p>YES ..... 1</p> <p>NO ..... 2</p> |  |
|------|--|--------------------------------------|--|

|      |  |  |  |
|------|--|--|--|
| DV30 | As far as you know, did your father ever beat your mother? | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p> |  |
|------|--|--|--|

THANK THE RESPONDENT FOR HER COOPERATION AND REASSURE HER ABOUT THE CONFIDENTIALITY OF HER ANSWERS. FILL OUT THE QUESTIONS BELOW WITH REFERENCE TO THE DOMESTIC VIOLENCE MODULE ONLY.

| DV31                 | DID YOU HAVE TO INTERRUPT THE INTERVIEW BECAUSE SOME ADULT WAS TRYING TO LISTEN, OR CAME INTO THE ROOM, OR INTERFERED IN ANY OTHER WAY? | <table border="0"> <thead> <tr> <th></th> <th>YES<br/>ONCE</th> <th>YES, MORE<br/>THAN ONCE</th> <th>NO</th> </tr> </thead> <tbody> <tr> <td>HUSBAND .....</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>OTHER MALE ADULT ...</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>FEMALE ADULT .....</td> <td>1</td> <td>2</td> <td>3</td> </tr> </tbody> </table> |    | YES<br>ONCE | YES, MORE<br>THAN ONCE | NO | HUSBAND ..... | 1 | 2 | 3 | OTHER MALE ADULT ... | 1 | 2 | 3 | FEMALE ADULT ..... | 1 | 2 | 3 |  |
|----------------------|---|--|----|-------------|------------------------|----|---------------|---|---|---|----------------------|---|---|---|--------------------|---|---|---|--|
|                      | YES<br>ONCE   | YES, MORE<br>THAN ONCE   | NO |             |                        |    |               |   |   |   |                      |   |   |   |                    |   |   |   |  |
| HUSBAND .....        | 1   | 2  | 3  |             |                        |    |               |   |   |   |                      |   |   |   |                    |   |   |   |  |
| OTHER MALE ADULT ... | 1   | 2  | 3  |             |                        |    |               |   |   |   |                      |   |   |   |                    |   |   |   |  |
| FEMALE ADULT .....   | 1   | 2  | 3  |             |                        |    |               |   |   |   |                      |   |   |   |                    |   |   |   |  |

|      |  |  |
|------|--|--|
| DV32 | INTERVIEWER'S COMMENTS / EXPLANATION FOR NOT COMPLETING THE DOMESTIC VIOLENCE MODULE |  |
|      | _____  |  |
|      | _____  |  |
|      | _____  |  |

INTERVIEWER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING INTERVIEW

COMMENTS ABOUT RESPONDENT:

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COMMENTS ON SPECIFIC QUESTIONS:

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ANY OTHER COMMENTS:

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SUPERVISOR'S OBSERVATIONS

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NAME OF SUPERVISOR: \_\_\_\_\_ DATE: \_\_\_\_\_

EDITOR'S OBSERVATIONS

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NAME OF EDITOR: \_\_\_\_\_ DATE: \_\_\_\_\_

## INSTRUCTIONS:

ONLY ONE CODE SHOULD APPEAR IN ANY BOX.  
COLUMN 1 REQUIRES A CODE IN EVERY MONTH.

## INFORMATION TO BE CODED FOR EACH COLUMN

COLUMN 1: BIRTHS, PREGNANCIES, CONTRACEPTIVE USE\*\*

B BIRTHS  
P PREGNANCIES  
T TERMINATIONS

0 NO METHOD  
1 FEMALE STERILIZATION  
2 MALE STERILIZATION  
3 IUD  
4 INJECTABLES  
5 IMPLANTS  
6 PILL  
7 MONTHLY PILL  
8 CONDOM  
9 FEMALE CONDOM  
D DIAPHRAGM  
J FOAM OR JELLY  
K LACTATIONAL AMENORRHEA METHOD  
L RHYTHM METHOD  
M WITHDRAWAL  
X OTHER MODERN METHOD  
Y OTHER TRADITIONAL METHOD

COLUMN 2: DISCONTINUATION OF CONTRACEPTIVE USE

0 INFREQUENT SEX/HUSBAND AWAY  
1 BECAME PREGNANT WHILE USING  
2 WANTED TO BECOME PREGNANT  
3 HUSBAND/PARTNER DISAPPROVED  
4 WANTED MORE EFFECTIVE METHOD  
5 SIDE EFFECTS/HEALTH CONCERNS  
6 LACK OF ACCESS/TOO FAR  
7 COSTS TOO MUCH  
8 INCONVENIENT TO USE  
F UP TO GOD/FATALISTIC  
A DIFFICULT TO GET PREGNANT/MENOPAUSAL  
D MARITAL DISSOLUTION/SEPARATION  
X OTHER \_\_\_\_\_  
(SPECIFY)

Z DON'T KNOW

|    |     |     |    | 1 | 2 |
|----|-----|-----|----|---|---|
| 12 | DEC | 01  |    |   |   |
| 11 | NOV | 02  |    |   |   |
| 10 | OCT | 03  |    |   |   |
| 09 | SEP | 04  |    |   |   |
| 2  | 08  | AUG | 05 |   | 2 |
| 0  | 07  | JUL | 06 |   | 0 |
| 1  | 06  | JUN | 07 |   | 1 |
| 4  | 05  | MAY | 08 |   | 4 |
| *  | 04  | APR | 09 |   | * |
|    | 03  | MAR | 10 |   |   |
|    | 02  | FEB | 11 |   |   |
|    | 01  | JAN | 12 |   |   |
|    |     |     |    |   |   |
| 12 | DEC | 13  |    |   |   |
| 11 | NOV | 14  |    |   |   |
| 10 | OCT | 15  |    |   |   |
| 09 | SEP | 16  |    |   |   |
| 2  | 08  | AUG | 17 |   | 2 |
| 0  | 07  | JUL | 18 |   | 0 |
| 1  | 06  | JUN | 19 |   | 1 |
| 3  | 05  | MAY | 20 |   | 3 |
| *  | 04  | APR | 21 |   | * |
|    | 03  | MAR | 22 |   |   |
|    | 02  | FEB | 23 |   |   |
|    | 01  | JAN | 24 |   |   |
|    |     |     |    |   |   |
| 12 | DEC | 25  |    |   |   |
| 11 | NOV | 26  |    |   |   |
| 10 | OCT | 27  |    |   |   |
| 09 | SEP | 28  |    |   |   |
| 2  | 08  | AUG | 29 |   | 2 |
| 0  | 07  | JUL | 30 |   | 0 |
| 1  | 06  | JUN | 31 |   | 1 |
| 2  | 05  | MAY | 32 |   | 2 |
| *  | 04  | APR | 33 |   | * |
|    | 03  | MAR | 34 |   |   |
|    | 02  | FEB | 35 |   |   |
|    | 01  | JAN | 36 |   |   |
|    |     |     |    |   |   |
| 12 | DEC | 37  |    |   |   |
| 11 | NOV | 38  |    |   |   |
| 10 | OCT | 39  |    |   |   |
| 09 | SEP | 40  |    |   |   |
| 2  | 08  | AUG | 41 |   | 2 |
| 0  | 07  | JUL | 42 |   | 0 |
| 1  | 06  | JUN | 43 |   | 1 |
| 1  | 05  | MAY | 44 |   | 1 |
| *  | 04  | APR | 45 |   | * |
|    | 03  | MAR | 46 |   |   |
|    | 02  | FEB | 47 |   |   |
|    | 01  | JAN | 48 |   |   |
|    |     |     |    |   |   |
| 12 | DEC | 49  |    |   |   |
| 11 | NOV | 50  |    |   |   |
| 10 | OCT | 51  |    |   |   |
| 09 | SEP | 52  |    |   |   |
| 2  | 08  | AUG | 53 |   | 2 |
| 0  | 07  | JUL | 54 |   | 0 |
| 1  | 06  | JUN | 55 |   | 1 |
| 0  | 05  | MAY | 56 |   | 0 |
| *  | 04  | APR | 57 |   | * |
|    | 03  | MAR | 58 |   |   |
|    | 02  | FEB | 59 |   |   |
|    | 01  | JAN | 60 |   |   |
|    |     |     |    |   |   |
| 12 | DEC | 61  |    |   |   |
| 11 | NOV | 62  |    |   |   |
| 10 | OCT | 63  |    |   |   |
| 09 | SEP | 64  |    |   |   |
| 2  | 08  | AUG | 65 |   | 2 |
| 0  | 07  | JUL | 66 |   | 0 |
| 0  | 06  | JUN | 67 |   | 0 |
| 9  | 05  | MAY | 68 |   | 9 |
| *  | 04  | APR | 69 |   | * |
|    | 03  | MAR | 70 |   |   |
|    | 02  | FEB | 71 |   |   |
|    | 01  | JAN | 72 |   |   |



CAMBODIA DEMOGRAPHIC AND HEALTH SURVEYS 2014  
MEN QUESTIONNAIRE

MINISTRY OF PLANNING  
NATIONAL INSTITUTE OF STATISTICS

MINISTRY OF HEALTH  
DIRECTORATE FOR GENERAL HEALTH

| IDENTIFICATION                    |   |
|-----------------------------------|---|
| DOMAIN .....                      | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| NAME OF HOUSEHOLD HEAD .....      |   |
| PROVINCE .....                    | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| DISTRICT .....                    | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| COMMUNE .....                     | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| VILLAGE .....                     | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| CLUSTER NUMBER .....              | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| HOUSEHOLD NUMBER .....            | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| NAME AND LINE NUMBER OF MAN ..... | <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |

| INTERVIEWER VISITS  |       |       |   |  |
|---|-------|-------|---|--|
|   | 1     | 2     | 3   | FINAL VISIT  |
| DATE  | ..... | ..... | .....   | DAY <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>  |
| INTERVIEWER'S NAME  | ..... | ..... | .....   | MONTH <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>  |
| RESULT*   | ..... | ..... | .....   | YEAR <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block; text-align: center;">2</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block; text-align: center;">0</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |
| NEXT VISIT: DATE  | ..... | ..... | .....   | INT. NUMBER <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>                                    |
| TIME  | ..... | ..... | .....   | RESULT* <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div>   |
| *RESULT CODES:<br>1 COMPLETED      4 REFUSED<br>2 NOT AT HOME      5 PARTLY COMPLETED      7 OTHER .....<br>3 POSTPONED      6 INCAPACITATED      (SPECIFY) |       |       |   |  |
| NEXT VISIT: DATE<br>TIME  |       |       | TOTAL NUMBER OF VISITS <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> |  |

LANGUAGE OF QUESTIONNAIRE, LANGUAGE OF INTERVIEW, NATIVE :

KHMER LANGUAGE ..... 1  
 OTHER LANGUAGE ..... 2  
 (SPECIFY)

USED TRANSLATOR:

YES ..... 1  
 NO ..... 2

| SUPERVISOR  | FIELD EDITOR | OFFICE EDITOR | KEYED BY |
|-------------|--------------|---------------|----------|
| NAME .....  | NAME .....   |               |          |
| DATE: ..... | DATE: .....  |               |          |

## SECTION 1. RESPONDENT'S BACKGROUND

### INTRODUCTION AND CONSENT

#### INFORMED CONSENT

Hello. My name is \_\_\_\_\_. I am working with the ministry of planning and ministry of health. We are conducting a survey about health all over Cambodia. The information we collect will help the government to plan health services. Your household was selected for the survey. The questions usually take about 20 minutes. All of the answers you give will be confidential and will not be shared with anyone other than members of our survey team. You don't have to be in the survey, but we hope you will agree to answer the questions since your views are important. If I ask you any question you don't want to answer, just let me know and I will go on to the next question or you can stop the interview at any time.

In case you need more information about the survey, you may contact the person listed on the card that has already been given to your household.

Do you have any questions? May I begin the interview now?

SIGNATURE OF INTERVIEWER: \_\_\_\_\_ DATE: \_\_\_\_\_

RESPONDENT AGREES TO BE INTERVIEWED ..... 1      RESPONDENT DOES NOT AGREE TO BE INTERVIEWED ... 2 → END  
↓

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |
|-----|--|--|-------|
| 101 | RECORD THE TIME.   | <div style="display: flex; justify-content: space-between;"> <div>HOUR .....</div> <div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div>MINUTES .....</div> <div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> </div>   |       |
| 102 | In what month and year were you born?<br><br>IF RESPONDENT DOES NOT KNOW GREGORIAN MONTH AND YEAR OF BIRTH, ASK FOR KHMER MONTH AND YEAR. USE DATE CONVERSION CHART.<br><br>_____<br>(SPECIFY KHMER MONTH AND YEAR OF BIRTH) | <div style="display: flex; justify-content: space-between;"> <div>GREGORIAN MONTH .....</div> <div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div>DON'T KNOW MONTH .....</div> <div>98</div> </div> <div style="display: flex; justify-content: space-between;"> <div>GREGORIAN YEAR</div> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div>DON'T KNOW YEAR .....</div> <div>9998</div> </div> |       |
| 103 | How old were you at your last birthday?<br><br>COMPARE AND CORRECT 102 AND/OR 103 IF INCONSISTENT.   | <div style="display: flex; justify-content: space-between;"> <div>AGE IN COMPLETED YEARS</div> <div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> </div>  |       |
| 104 | Have you ever attended school?   | YES ..... 1<br>NO ..... 2  | → 108 |
| 105 | What is the highest level of school you attended: primary, secondary, or higher?   | PRIMARY ..... 1<br>LOWER SECONDARY ..... 2<br>UPPER SECONDARY ..... 3<br>HIGHER ..... 4  |       |
| 106 | What is the highest (grade/form/year) you completed at that level?<br><br>IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD '00'.  | <div style="display: flex; justify-content: space-between;"> <div>GRADE/FORM/YEAR .....</div> <div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> </div>   |       |

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |
|------|---|---|-------|
| 107  | CHECK 105:<br><br><div> PRIMARY <input type="checkbox"/> SECONDARY OR HIGHER <input type="checkbox"/> </div>  |   | → 110 |
| 108  | Now I would like you to read this sentence to me.<br><br>SHOW CARD TO RESPONDENT.<br><br>IF RESPONDENT CANNOT READ WHOLE SENTENCE, PROBE:<br>Can you read any part of the sentence to me? | CANNOT READ AT ALL ..... 1<br>ABLE TO READ ONLY PARTS OF SENTENCE ..... 2<br>ABLE TO READ WHOLE SENTENCE ..... 3<br>NO CARD WITH REQUIRED LANGUAGE ..... 4<br>(SPECIFY LANGUAGE)<br>BLIND/VISUALLY IMPAIRED ..... 5 |       |
| 109  | CHECK 108:<br><br><div> CODE '2', '3' OR '4' <input type="checkbox"/> CODE '1' OR '5' CIRCLED <input type="checkbox"/> </div>   |   | → 111 |
| 110  | Do you read a newspaper or magazine, at least once a week, less than once a week or not at all?   | AT LEAST ONCE A WEEK ..... 1<br>LESS THAN ONCE A WEEK ..... 2<br>NOT AT ALL ..... 3   |       |
| 111  | Do you listen to the radio, at least once a week, less than once a week or not at all?  | AT LEAST ONCE A WEEK ..... 1<br>LESS THAN ONCE A WEEK ..... 2<br>NOT AT ALL ..... 3   |       |
| 112  | Do you watch television, at least once a week, less than once a week or not at all?   | AT LEAST ONCE A WEEK ..... 1<br>LESS THAN ONCE A WEEK ..... 2<br>NOT AT ALL ..... 3   |       |
| 112A | Do you access to internet, at least once a week, less than once a week or not at all?   | AT LEAST ONCE A WEEK ..... 1<br>LESS THAN ONCE A WEEK ..... 2<br>NOT AT ALL ..... 3   |       |
| 113  | What is your religion?  | BUDDHIST ..... 1<br>MOSLEM ..... 2<br>CHRISTIAN ..... 3<br>OTHER ..... 4  |       |
| 115  | In the last 12 months, how many times have you been away from home for one or more nights?  | NUMBER OF TIMES ..... <input type="text"/> <input type="text"/><br>NONE ..... 00  | → 201 |
| 116  | In the last 12 months, have you been away from home for more than one month at a time?  | YES ..... 1<br>NO ..... 2   |       |



SECTION 2. REPRODUCTION

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP                           |  |  |  |  |  |  |  |  |
|------|--|--|--------------------------------|--|--|--|--|--|--|--|--|
| 201  | Now I would like to ask about any children you have had during your life. I am interested in all of the children that are biologically yours, even if they are not legally yours or do not have your last name.<br><br>Have you ever fathered any children with any woman? | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  | <input type="checkbox"/> → 206 |  |  |  |  |  |  |  |  |
| 202  | Do you have any sons or daughters that you have fathered who are now living with you?  | YES ..... 1<br>NO ..... 2  | → 204                          |  |  |  |  |  |  |  |  |
| 203  | How many sons live with you?<br><br>And how many daughters live with you?<br><br>IF NONE, RECORD '00'.   | SONS AT HOME ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br>DAUGHTERS AT HOME ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>  |                                |  |  |  |  |  |  |  |  |
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|      |  |  |                                |  |  |  |  |  |  |  |  |
|      |  |  |                                |  |  |  |  |  |  |  |  |
| 204  | Do you have any sons or daughters that you have fathered who are alive but do not live with you?   | YES ..... 1<br>NO ..... 2  | → 206                          |  |  |  |  |  |  |  |  |
| 205  | How many sons are alive but do not live with you?<br><br>And how many daughters are alive but do not live with you?<br><br>IF NONE, RECORD '00'.   | SONS ELSEWHERE ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br>DAUGHTERS ELSEWHERE... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table> |                                |  |  |  |  |  |  |  |  |
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|      |  |  |                                |  |  |  |  |  |  |  |  |
|      |  |  |                                |  |  |  |  |  |  |  |  |
|      |  |  |                                |  |  |  |  |  |  |  |  |
| 205A | Where do your sons or daughters who do not live with you live?   | EXTENDED FAMILY/CAMP ..... A<br>NEIGHBOR ..... B<br>ORPHANAGE/NGO ..... C<br>TEMPLE (WAT) ..... D<br>OTHER ..... E<br>SPECIFY _____<br>DON'T KNOW ..... X  |                                |  |  |  |  |  |  |  |  |
| 206  | Have you ever fathered a son or a daughter who was born alive but later died?<br><br>IF NO, PROBE: Any baby who cried or showed signs of life but did not survive?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  | <input type="checkbox"/> → 208 |  |  |  |  |  |  |  |  |
| 207  | How many boys have died?<br><br>And how many girls have died?<br><br>IF NONE, RECORD '00'.   | BOYS DEAD ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table><br>GIRLS DEAD ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>            |                                |  |  |  |  |  |  |  |  |
|      |  |  |                                |  |  |  |  |  |  |  |  |
|      |  |  |                                |  |  |  |  |  |  |  |  |
|      |  |  |                                |  |  |  |  |  |  |  |  |
|      |  |  |                                |  |  |  |  |  |  |  |  |
| 208  | SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL.<br><br>IF NONE, RECORD '00'.  | TOTAL CHILDREN ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table>  |                                |  |  |  |  |  |  |  |  |
|      |  |  |                                |  |  |  |  |  |  |  |  |
| 209  | CHECK 208:<br><br>HAS HAD MORE THAN ONE CHILD <input type="checkbox"/> → 212<br>HAS HAD ONLY ONE CHILD <input type="checkbox"/> → 212<br>HAS NOT HAD ANY CHILDREN <input type="checkbox"/> → 401   |  |                                |  |  |  |  |  |  |  |  |
| 210  | Did all of the children you have fathered have the same biological mother?   | YES ..... 1<br>NO ..... 2  | → 212                          |  |  |  |  |  |  |  |  |
| 211  | In all, how many women have you fathered children with?  | NUMBER OF WOMEN ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table>   |                                |  |  |  |  |  |  |  |  |
|      |  |  |                                |  |  |  |  |  |  |  |  |
| 212  | How old were you when your (first) child was born?   | AGE IN YEARS ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td></tr></table>  |                                |  |  |  |  |  |  |  |  |
|      |  |  |                                |  |  |  |  |  |  |  |  |





| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |
|-----|--|--|-------|
| 213 | CHECK 203 AND 205:<br><div> <div>AT LEAST ONE LIVING CHILD <input type="checkbox"/></div> <div>NO LIVING CHILDREN <input type="checkbox"/></div> </div>        |  | → 401 |
| 214 | How old is your (youngest) child?  | AGE IN YEARS ..... <input type="text"/> <input type="text"/>   |       |
| 215 | CHECK 214:<br><div> <div>(YOUNGEST) CHILD IS AGE 0-2 YEARS <input type="checkbox"/></div> <div>OTHER <input type="checkbox"/></div> </div>                     |  | → 401 |
| 216 | What is the name of your (youngest) child?<br>WRITE NAME OF (YOUNGEST) CHILD<br>_____<br>(NAME OF (YOUNGEST) CHILD)  |  |       |
| 217 | When (NAME)'s mother was pregnant with (NAME), did she have any antenatal check-ups?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  | → 219 |
| 218 | Were you ever present during any of those antenatal check-ups?   | PRESENT ..... 1<br>NOT PRESENT ..... 2   |       |
| 219 | Was (NAME) born in a hospital or health facility?  | HOSPITAL/HEALTH FACILITY ..... 1<br>OTHER ..... 2  |       |
| 220 | When a child has diarrhea, how much should he or she be given to drink: more than usual, about the same as usual, less than usual, or nothing to drink at all? | MORE THAN USUAL ..... 1<br>ABOUT THE SAME ..... 2<br>LESS THAN USUAL ..... 3<br>NOTHING TO DRINK ..... 4<br>DON'T KNOW ..... 8 |       |

SECTION 4. MARRIAGE AND SEXUAL ACTIVITY

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP |  |  |
|-----|---|--|------|--|--|
| 401 | Are you currently married or living together with a woman as if married?  | YES, CURRENTLY MARRIED ..... 1<br>YES, LIVING WITH A WOMAN ..... 2<br>NO, NOT IN UNION ..... 3   | 404  |  |  |
| 402 | Have you ever been married or lived together with a woman as if married?  | YES, FORMERLY MARRIED ..... 1<br>YES, LIVED WITH A WOMAN ..... 2<br>NO ..... 3   | 413  |  |  |
| 403 | What is your marital status now: are you widowed, divorced, or separated?   | WIDOWED ..... 1<br>DIVORCED ..... 2<br>SEPARATED ..... 3   | 410  |  |  |
| 404 | Is your (wife/partner) living with you now or is she staying elsewhere?   | LIVING WITH HIM ..... 1<br>STAYING ELSEWHERE ..... 2   |      |  |  |
| 405 | Do you have other wives or do you live with other women as if married?  | YES (MORE THAN ONE) ..... 1<br>NO (ONLY ONE) ..... 2   |      |  |  |
| 409 | Please tell me the name of the (your wife/the woman you are living with)<br><br>RECORD THE NAME AND THE LINE NUMBER FROM THE HOUSEHOLD QUESTIONNAIRE FOR SPOUSE OR LIVE-IN PARTNER IF THE PERSON IS NOT LISTED IN THE HOUSEHOLD, RECODE '00'. | NAME _____<br><br>LINE NUMBER ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> |      |  |  |
|     |   |  |      |  |  |
| 410 | Have you been married or lived with a woman only once or more than once?  | ONLY ONCE ..... 1<br>MORE THAN ONCE ..... 2  | 411A |  |  |

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP |
|------|--|--|------|
| 411  | In what month and year did you start living with your (wife/partner)?  | GREGORIAN MONTH ..... <input type="text"/> <input type="text"/>                                    | 413  |
| 411A | Now I would like to ask about your first (wife/partner). In what month and year did you start living with her?   | DON'T KNOW MONTH .....98   |      |
|      | IF RESPONDENT DOES NOT KNOW GREGORIAN DATE ASK FOR KHMER MONTH AND YEAR OF MARRIAGE. USE DATE CONVERSION CHART TO FIND GREGORIAN MONTH AND YEAR.   | GREGORIAN YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> |      |
|      | (SPECIFY KHMER MONTH AND YEAR OF MARRIAGE)   | DON'T KNOW YEAR ..... 9998   |      |
| 412  | How old were you when you first started living with her?   | AGE ..... <input type="text"/> <input type="text"/>  |      |
| 413  | CHECK FOR THE PRESENCE OF OTHERS.<br><br>BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY.   |  |      |
| 414  | Now I would like to ask some questions about sexual activity in order to gain a better understanding of some important life issues.  | NEVER HAD SEXUAL INTERCOURSE .....00   | 501  |
|      | How old were you when you had sexual intercourse for the very first time?  | AGE IN YEARS ..... <input type="text"/> <input type="text"/>                                       |      |
|      |  | FIRST TIME WHEN STARTED LIVING WITH (FIRST) WIFE/PARTNER .....95                                   |      |
| 415  | Now I would like to ask you some questions about your recent sexual activity. Let me assure you again that your answers are completely confidential and will not be told to anyone. If we should come to any question that you don't want to answer, just let me know and we will go to the next question. |  |      |
| 416  | When was the <u>last</u> time you had sexual intercourse?  | DAYS AGO ..... 1 <input type="text"/> <input type="text"/>   | 430  |
|      | IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS.  | WEEKS AGO ..... 2 <input type="text"/> <input type="text"/>  |      |
|      | IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.   | MONTHS AGO ..... 3 <input type="text"/> <input type="text"/>                                       |      |
|      |  | YEARS AGO ..... 4 <input type="text"/> <input type="text"/>  |      |

|      |   | LAST<br>SEXUAL PARTNER   | SECOND-TO-LAST<br>SEXUAL PARTNER   | THIRD-TO-LAST<br>SEXUAL PARTNER  |
|------|---|--|--|--|
| 417  | When was the last time you had sexual intercourse with this person?   |  | DAYS <input type="text"/> <input type="text"/><br>AGO    1<br>WEEKS <input type="text"/> <input type="text"/><br>AGO    2<br>MONTHS <input type="text"/> <input type="text"/><br>AGO    3  | DAYS <input type="text"/> <input type="text"/><br>AGO    1<br>WEEKS <input type="text"/> <input type="text"/><br>AGO    2<br>MONTHS <input type="text"/> <input type="text"/><br>AGO    3  |
| 418  | The last time you had sexual intercourse (with this second/third person), was a condom used?  | YES ..... 1<br>NO ..... 2<br>(SKIP TO 420) ←   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 420) ←   | YES ..... 1<br>NO ..... 2<br>(SKIP TO 420) ←   |
| 419  | Was a condom used every time you had sexual intercourse with this person in the last 12 months?   | YES ..... 1<br>NO ..... 2  | YES ..... 1<br>NO ..... 2  | YES ..... 1<br>NO ..... 2  |
| 420  | What was your relationship to this person with whom you had sexual intercourse?<br><br>IF GIRLFRIEND:<br>Were you living together as if married?<br><br>IF YES, CIRCLE '2'.<br>IF NO, CIRCLE '3'. | WIFE ..... 1<br>LIVE-IN PARTNER .... 2<br>GIRLFRIEND NOT<br>LIVING WITH<br>RESPONDENT .... 3<br>CASUAL<br>ACQUAINTANCE ... 4<br>PROSTITUTE ..... 5<br>OTHER ..... 6<br>(SPECIFY)<br>(SKIP TO 422A) ←   | WIFE ..... 1<br>LIVE-IN PARTNER .... 2<br>GIRLFRIEND NOT<br>LIVING WITH<br>RESPONDENT .... 3<br>CASUAL<br>ACQUAINTANCE ... 4<br>PROSTITUTE ..... 5<br>OTHER ..... 6<br>(SPECIFY)<br>(SKIP TO 422A) ←   | WIFE ..... 1<br>LIVE-IN PARTNER .... 2<br>GIRLFRIEND NOT<br>LIVING WITH<br>RESPONDENT .... 3<br>CASUAL<br>ACQUAINTANCE ... 4<br>PROSTITUTE ..... 5<br>OTHER ..... 6<br>(SPECIFY)<br>(SKIP TO 422A) ←   |
| 421  | CHECK 410:  | MARRIED    MARRIED<br>ONLY        MORE<br>ONCE        THAN <input type="text"/><br>ONCE<br>(SKIP<br>TO 423)  | MARRIED    MARRIED<br>ONLY        MORE<br>ONCE        THAN <input type="text"/><br>ONCE<br>(SKIP<br>TO 423)  | MARRIED    MARRIED<br>ONLY        MORE<br>ONCE        THAN <input type="text"/><br>ONCE<br>(SKIP<br>TO 423)  |
| 422  | CHECK 414:  | FIRST TIME    OTHER<br>WHEN STARTED <input type="text"/><br>LIVING WITH<br>FIRST<br>WIFE            (SKIP<br>(SKIP TO 424)    TO 423)  | FIRST TIME    OTHER<br>WHEN STARTED <input type="text"/><br>LIVING WITH<br>FIRST<br>WIFE            (SKIP<br>(SKIP TO 424)    TO 423)  | FIRST TIME    OTHER<br>WHEN STARTED <input type="text"/><br>LIVING WITH<br>FIRST<br>WIFE            (SKIP<br>(SKIP TO 424)    TO 423)  |
| 422A | Who was the person that you had sexual intercourse in the last 12 months?   | BROTHEL-BASED<br>SEX WORKER ... 01<br>KARAOKE WORKER 02<br>BEER PROMOTER . 03<br>BAR/NIGHT CLUB<br>WORKER ..... 04<br>MASSEUSE ..... 05<br>RESTAURANT<br>WORKER ..... 06<br>STREET-BASED<br>SEX WORKER ... 07<br>BARBER            08<br><br>OTHER ..... 98<br>(SPECIFY) | BROTHEL-BASED<br>SEX WORKER ... 01<br>KARAOKE WORKER 02<br>BEER PROMOTER . 03<br>BAR/NIGHT CLUB<br>WORKER ..... 04<br>MASSEUSE ..... 05<br>RESTAURANT<br>WORKER ..... 06<br>STREET-BASED<br>SEX WORKER ... 07<br>BARBER            08<br><br>OTHER ..... 98<br>(SPECIFY) | BROTHEL-BASED<br>SEX WORKER .... 01<br>KARAOKE WORKER 02<br>BEER PROMOTER . 03<br>BAR/NIGHT CLUB<br>WORKER ..... 04<br>MASSEUSE ..... 05<br>RESTAURANT<br>WORKER ..... 06<br>STREET-BASED<br>SEX WORKER .... 07<br>BARBER            08<br><br>OTHER ..... 98<br>(SPECIFY) |

|     |   | LAST<br>SEXUAL PARTNER  | SECOND-TO-LAST<br>SEXUAL PARTNER  | THIRD-TO-LAST<br>SEXUAL PARTNER  |
|-----|---|---|---|--|
| 423 | How long ago did you first have sexual intercourse with this (second/third) person?   | DAYS<br>AGO 1 <input type="text"/> <input type="text"/><br>WEEKS<br>AGO 2 <input type="text"/> <input type="text"/><br>MONTHS<br>AGO 3 <input type="text"/> <input type="text"/><br>YEARS<br>AGO 4 <input type="text"/> <input type="text"/>            | DAYS<br>AGO 1 <input type="text"/> <input type="text"/><br>WEEKS<br>AGO 2 <input type="text"/> <input type="text"/><br>MONTHS<br>AGO 3 <input type="text"/> <input type="text"/><br>YEARS<br>AGO 4 <input type="text"/> <input type="text"/>                | DAYS<br>AGO 1 <input type="text"/> <input type="text"/><br>WEEKS<br>AGO 2 <input type="text"/> <input type="text"/><br>MONTHS<br>AGO 3 <input type="text"/> <input type="text"/><br>YEARS<br>AGO 4 <input type="text"/> <input type="text"/> |
| 424 | How many times during the last 12 months did you have sexual intercourse with this person?  | NUMBER OF TIMES <input type="text"/> <input type="text"/>   | NUMBER OF TIMES <input type="text"/> <input type="text"/>   | NUMBER OF TIMES <input type="text"/> <input type="text"/>  |
| 425 | How old is this person?   | AGE OF PARTNER <input type="text"/> <input type="text"/><br>DON'T KNOW ..... 98   | AGE OF PARTNER <input type="text"/> <input type="text"/><br>DON'T KNOW ..... 98   | AGE OF PARTNER <input type="text"/> <input type="text"/><br>DON'T KNOW ..... 98  |
| 426 | Apart from (this person/these two people), have you had sexual intercourse with any other person in the last 12 months?   | YES ..... 1<br>(GO BACK TO 417  )<br>IN NEXT COLUMN)<br>NO ..... 2<br>(SKIP TO 427A)  | YES ..... 1<br>(GO BACK TO 417  )<br>IN NEXT COLUMN)<br>NO ..... 2<br>(SKIP TO 427A)  |  |
| 427 | In total, with how many different people have you had sexual intercourse in the last 12 months?<br><br>IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.<br><br>IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95'. |   |   | NUMBER OF PARTNERS LAST 12 MONTHS ... <input type="text"/> <input type="text"/><br><br>DON'T KNOW ... 98   |

| NO.  | QUESTIONS AND FILTERS                      | CODING CATEGORIES         | SKIP  |
|------|--|---------------------------|-------|
| 427A | Have you heard of men having sex with men? | YES ..... 1<br>NO ..... 2 | → 428 |
| 427B | Have you ever had sex with a man?          | YES ..... 1<br>NO ..... 2 |       |

| NO.  | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP           |
|------|--|---|----------------|
| 428  | CHECK 420 (ALL COLUMNS):<br><br><div style="display: flex; justify-content: space-between;"> <div>           AT LEAST ONE PARTNER<br/>IS PROSTITUTE <input type="checkbox"/> </div> <div>           NO PARTNERS<br/>ARE PROSTITUTES <input type="checkbox"/> </div> </div>   |   | → 430          |
| 429  | CHECK 420 AND 418 (ALL COLUMNS):<br><br><div style="display: flex; justify-content: space-between;"> <div>           CONDOM USED WITH<br/>EVERY PROSTITUTE <input type="checkbox"/> </div> <div>           OTHER <input type="checkbox"/> </div> </div>  |   | → 433<br>→ 434 |
| 430  | In the last 12 months, did you pay anyone in exchange for having sexual intercourse?   | YES ..... 1<br>NO ..... 2   | → 432          |
| 431  | Have you ever paid anyone in exchange for having sexual intercourse?   | YES ..... 1<br>NO ..... 2   | → 434          |
| 432  | The last time you paid someone in exchange for having sexual intercourse, was a condom used?   | YES ..... 1<br>NO ..... 2   | → 434          |
| 433  | Was a condom used during sexual intercourse every time you paid someone in exchange for having sexual intercourse in the last 12 months?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |                |
| 434  | In the last 12 months, did you ever give money, gifts or favors to anyone in exchange for having sexual intercourse?   | YES ..... 1<br>NO ..... 2   |                |
| 434A | In total, with how many different people have you had sexual intercourse in your lifetime?<br><br>IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.<br><br>IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95'.   | NUMBER OF PARTNERS<br>IN LIFETIME ..... <input type="text"/> <input type="text"/><br>DON'T KNOW ..... 98  |                |
| 435  | CHECK 418, MOST RECENT PARTNER (FIRST COLUMN):<br><br><div style="display: flex; justify-content: space-between;"> <div>           NOT<br/>ASKED <input type="checkbox"/> </div> <div>           CONDOM<br/>USED <input type="checkbox"/> </div> <div>           NO CONDOM<br/>USED <input type="checkbox"/> </div> </div> |   | → 438<br>→ 438 |
| 436  | You told me that a condom was used the last time you had sex. What is the brand name of the condom used at that time?<br><br>IF BRAND NOT KNOWN, ASK TO SEE THE PACKAGE.   | OK ..... 01<br>NUMBER ONE ..... 02<br>NEAK KAPEAR/NO NAME ..... 03<br>OTHER ..... 96<br>(SPECIFY)<br>DON'T KNOW ..... 98  |                |
| 436A | You told me that a condom was used the last time you had sex. How much did you pay for that condom?  | RIELS ..... <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br><br>FREE ..... 00000<br>IN KIND ..... 99996<br>DON'T KNOW ..... 99998 |                |

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP         |
|-----|---|--|--------------|
| 437 | <p>From where did you obtain the condom the last time?</p> <p>PROBE TO IDENTIFY TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>_____</p> <p>(NAME OF PLACE)</p> | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSPITAL (PP) ..... 11</p> <p>PROVINCIAL HOSP (RH) ..... 12</p> <p>DISTRICT HOSPITAL (RH) ..... 13</p> <p>HEALTH CENTRE ..... 14</p> <p>HEALTH POST ..... 15</p> <p>OUTREACH ..... 16</p> <p>MILITARY HOSPITAL ..... 17</p> <p>OTHER PUBLIC SECTOR ..... 18</p> <p>(SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIVATE HOSPITAL ..... 21</p> <p>PRIVATE CLINIC ..... 22</p> <p>PHARMACY ..... 23</p> <p>OTHER PRIVATE MEDICAL SECTOR ..... 24</p> <p>(SPECIFY)</p> <p>OTHER SOURCE</p> <p>SHOP ..... 31</p> <p>COMMUNITY DISTRIBUTOR ..... 32</p> <p>FRIEND/RELATIVE ..... 33</p> <p>OTHER ..... 36</p> <p>(SPECIFY)</p> |              |
| 438 | <p>The last time you had sex did you or your partner use any method (other than a condom) to avoid or prevent a pregnancy?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   | <p>→ 501</p> |
| 439 | <p>What method did you or your partner use?</p> <p>PROBE:</p> <p>Did you or your partner use any other method to prevent pregnancy?</p> <p>RECORD ALL MENTIONED.</p>  | <p>FEMALE STERILIZATION ..... A</p> <p>MALE STERILIZATION ..... B</p> <p>IUD ..... C</p> <p>INJECTABLES ..... D</p> <p>IMPLANTS ..... E</p> <p>PILL ..... F</p> <p>FEMALE CONDOM ..... G</p> <p>DIAPHRAGM ..... H</p> <p>FOAM/JELLY ..... I</p> <p>LAM ..... J</p> <p>RHYTHM METHOD ..... K</p> <p>WITHDRAWAL ..... L</p> <p>OTHER MODERN METHOD ..... X</p> <p>OTHER TRADITIONAL METHOD ..... Y</p>   |              |



SECTION 5. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP   |
|-----|---|--|--|
| 501 | CHECK 401:<br>CURRENTLY MARRIED OR LIVING WITH A PARTNER <input type="checkbox"/> NOT CURRENTLY MARRIED AND NOT LIVING WITH A PARTNER <input type="checkbox"/>  |  | → 509  |
| 502 | CHECK 439:<br>MAN NOT STERILIZED <input type="checkbox"/> MAN STERILIZED <input type="checkbox"/>   |  | → 509  |
| 503 | (Is your (wife/partner)/Are any of your (wives/partners)) currently pregnant?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8  | <input type="checkbox"/> → 505                                   |
| 504 | Now I have some questions about the future. After the (child/children) you and your (wife(wives)/partner(s)) are expecting now, would you like to have another child, or would you prefer not have any more children?   | HAVE ANOTHER CHILD ..... 1<br>NO MORE/NONE ..... 2<br>UNDECIDED/DON'T KNOW ..... 8   | <input type="checkbox"/> → 506<br><input type="checkbox"/> → 509 |
| 505 | Now I have some questions about the future. Would you like to have (a/another) child, or would you prefer not to have any (more) children?  | HAVE (A/ANOTHER) CHILD ..... 1<br>NO MORE/NONE ..... 2<br>SAYS COUPLE CAN'T GET PREGNANT ..... 3<br>WIFE (WIVES)/PARTNER(S) STERILIZED ..... 4<br>UNDECIDED/DON'T KNOW ..... 8 | <input type="checkbox"/> → 509                                   |
| 506 | CHECK 405:<br>ONE WIFE/PARTNER <input type="checkbox"/> MORE THAN ONE WIFE/PARTNER <input type="checkbox"/>   |  | → 508  |
| 507 | CHECK 503:<br>WIFE/PARTNER NOT PREGNANT OR DON'T KNOW <input type="checkbox"/> WIFE/PARTNER PREGNANT <input type="checkbox"/><br><br>How long would you like to wait from now before the birth of (a/another) child? After the birth of the child you are expecting now, how long would you like to wait before the birth of another child? | MONTHS ..... 1<br>YEARS ..... 2<br>SOON/NOW ..... 993<br>COUPLE INFECUND ..... 994<br>OTHER ..... 996<br>(SPECIFY)<br>DON'T KNOW ..... 998                                     | <input type="checkbox"/> → 509                                   |
| 508 | How long would you like to wait from now before the birth of (a/another) child?   | MONTHS ..... 1<br>YEARS ..... 2<br>SOON/NOW ..... 993<br>HE/ALL HIS WIVES/PARTNERS ARE INFECUND ..... 994<br>OTHER ..... 996<br>(SPECIFY)<br>DON'T KNOW ..... 998              |  |

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP                              |
|-----|---|---|-----------------------------------|
| 509 | <div>CHECK 203 AND 205:</div> <div>HAS LIVING CHILDREN <input type="checkbox"/></div> <div>NO LIVING CHILDREN <input type="checkbox"/></div> <div>If you could go back to the time you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be?</div> <div>If you could choose exactly the number of children to have in your whole life, how many would that be?</div> <div>PROBE FOR A NUMERIC RESPONSE.</div> | <div>NONE ..... 00</div> <div>NUMBER ..... <input type="text"/><input type="text"/></div> <div>OTHER _____ 96<br/>(SPECIFY)</div>   | <div>→ 601</div> <div>→ 601</div> |
| 510 | How many of these children would you like to be boys, how many would you like to be girls and for how many would it not matter if it's a boy or a girl?   | <div>BOYS    GIRLS    EITHER</div> <div>NUMBER <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></div> <div>OTHER _____ 96<br/>(SPECIFY)</div> |                                   |

SECTION 6. EMPLOYMENT AND GENDER ROLES

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |
|-----|--|--|-------|
| 601 | Have you done any work in the last seven days?   | YES ..... 1<br>NO ..... 2  | → 604 |
| 602 | Although you did not work in the last seven days, do you have any job or business from which you were absent for leave, illness, vacation, or any other such reason? | YES ..... 1<br>NO ..... 2  | → 604 |
| 603 | Have you done any work in the last 12 months?  | YES ..... 1<br>NO ..... 2  | → 610 |
| 604 | What is your occupation, that is, what kind of work do you mainly do?  | <div style="display: flex; align-items: center;"> <div style="flex-grow: 1;">           _____<br/>           _____<br/>           _____         </div> <div style="border: 1px solid black; width: 40px; height: 20px; margin-left: 10px;"></div> </div> |       |
| 605 | Do you usually work throughout the year, or do you work seasonally, or only once in a while?   | THROUGHOUT THE YEAR ..... 1<br>SEASONALLY/PART OF THE YEAR ..... 2<br>ONCE IN A WHILE ..... 3  |       |
| 606 | Are you paid in cash or kind for this work or are you not paid at all?   | CASH ONLY ..... 1<br>CASH AND KIND ..... 2<br>IN KIND ONLY ..... 3<br>NOT PAID ..... 4   |       |
| 607 | CHECK 401:<br>CURRENTLY MARRIED OR LIVING WITH A PARTNER <input type="checkbox"/> NOT CURRENTLY MARRIED AND NOT LIVING WITH A PARTNER <input type="checkbox"/>       |  | → 612 |
| 608 | CHECK 606:<br>CODE 1 OR 2 CIRCLED <input type="checkbox"/> OTHER <input type="checkbox"/>  |  | → 610 |
| 609 | Who usually decides how the money you earn will be used: you, your (wife/partner), or you and your (wife/partner) jointly?   | RESPONDENT ..... 1<br>WIFE/PARTNER ..... 2<br>RESPONDENT AND WIFE/<br>PARTNER JOINTLY ..... 3<br>OTHER ..... 6<br>SPECIFY _____  |       |
| 610 | Who usually makes decisions about health care for yourself: you, your (wife/partner), you and your (wife/partner) jointly, or someone else?                          | RESPONDENT ..... 1<br>WIFE/PARTNER ..... 2<br>RESPONDENT AND WIFE/<br>PARTNER JOINTLY ..... 3<br>SOMEONE ELSE ..... 4<br>OTHER ..... 6<br>SPECIFY _____  |       |
| 611 | Who usually makes decisions about making major household purchases?  | RESPONDENT ..... 1<br>WIFE/PARTNER ..... 2<br>RESPONDENT AND WIFE/<br>PARTNER JOINTLY ..... 3<br>SOMEONE ELSE ..... 4<br>OTHER ..... 6<br>SPECIFY _____  |       |

| NO.                | QUESTIONS AND FILTERS  | CODING CATEGORIES   | SKIP |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
|--------------------|--|---|------|-----|----|----|----------------|---|---|---|--------------------|---|---|---|--------------------|---|---|---|-------------------|---|---|---|------------------|---|---|---|------------------|---|---|---|--|
| 612                | Do you own this or any other house either alone or jointly with someone else?  | ALONE ONLY ..... 1<br>JOINTLY ONLY ..... 2<br>BOTH ALONE AND JOINTLY ..... 3<br>DOES NOT OWN ..... 4  |      |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| 613                | Do you own any land either alone or jointly with someone else?   | ALONE ONLY ..... 1<br>JOINTLY ONLY ..... 2<br>BOTH ALONE AND JOINTLY ..... 3<br>DOES NOT OWN ..... 4  |      |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| 614                | In your opinion, is a husband justified in hitting or beating his wife in the following situations:<br><br>If she goes out without telling him?<br>If she neglects the children?<br>If she argues with him?<br>If she refuses to have sex with him?<br>If she burns the food?<br>If she ask him to use condom? | <table> <tr> <th></th><th>YES</th><th>NO</th><th>DK</th></tr> <tr> <td>GOES OUT .....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>NEGL. CHILDREN ...</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>ARGUES .....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>REFUSES SEX .....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>BURNS FOOD .....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>ASK USE CONDOM .</td><td>1</td><td>2</td><td>8</td></tr> </table> |      | YES | NO | DK | GOES OUT ..... | 1 | 2 | 8 | NEGL. CHILDREN ... | 1 | 2 | 8 | ARGUES .....       | 1 | 2 | 8 | REFUSES SEX ..... | 1 | 2 | 8 | BURNS FOOD ..... | 1 | 2 | 8 | ASK USE CONDOM . | 1 | 2 | 8 |  |
|                    | YES  | NO  | DK   |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| GOES OUT .....     | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| NEGL. CHILDREN ... | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| ARGUES .....       | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| REFUSES SEX .....  | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| BURNS FOOD .....   | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| ASK USE CONDOM .   | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| 615                | In your opinion, is a parent justified in hitting or beating his son for the following reasons:<br><br>If he disobeys?<br>If he impolite?<br>If he has embarrassed the family?<br>If he does not do the housework or cooking?<br>If he does not take care of younger sibling ?                                 | <table> <tr> <th></th><th>YES</th><th>NO</th><th>DK</th></tr> <tr> <td>DISOBEY .....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>IMPOLITE .....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>EMBARR. FAMILY ...</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>HOUSEWORK .....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>CARE SIBLING ...</td><td>1</td><td>2</td><td>8</td></tr> </table>  |      | YES | NO | DK | DISOBEY .....  | 1 | 2 | 8 | IMPOLITE .....     | 1 | 2 | 8 | EMBARR. FAMILY ... | 1 | 2 | 8 | HOUSEWORK .....   | 1 | 2 | 8 | CARE SIBLING ... | 1 | 2 | 8 |                  |   |   |   |  |
|                    | YES  | NO  | DK   |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| DISOBEY .....      | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| IMPOLITE .....     | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| EMBARR. FAMILY ... | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| HOUSEWORK .....    | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| CARE SIBLING ...   | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| 616                | In your opinion, is a parent justified in hitting or beating his daughter for the following reasons:<br><br>If she disobeys?<br>If she impolite?<br>If she has embarrassed the family?<br>If she does not do the housework or cooking?<br>If she does not take care of younger sibling ?                       | <table> <tr> <th></th><th>YES</th><th>NO</th><th>DK</th></tr> <tr> <td>DISOBEY .....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>IMPOLITE .....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>EMBARR. FAMILY ...</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>HOUSEWORK .....</td><td>1</td><td>2</td><td>8</td></tr> <tr> <td>CARE SIBLING ...</td><td>1</td><td>2</td><td>8</td></tr> </table>  |      | YES | NO | DK | DISOBEY .....  | 1 | 2 | 8 | IMPOLITE .....     | 1 | 2 | 8 | EMBARR. FAMILY ... | 1 | 2 | 8 | HOUSEWORK .....   | 1 | 2 | 8 | CARE SIBLING ... | 1 | 2 | 8 |                  |   |   |   |  |
|                    | YES  | NO  | DK   |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| DISOBEY .....      | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| IMPOLITE .....     | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| EMBARR. FAMILY ... | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| HOUSEWORK .....    | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |
| CARE SIBLING ...   | 1  | 2   | 8    |     |    |    |                |   |   |   |                    |   |   |   |                    |   |   |   |                   |   |   |   |                  |   |   |   |                  |   |   |   |  |

SECTION 7. HIV/AIDS

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |
|------|---|---|-------|
| 701  | Now I would like to talk about something else. Have you ever heard of an illness called AIDS?   | YES ..... 1<br>NO ..... 2   | → 723 |
| 702  | Can people reduce their chances of getting the AIDS virus by having just one uninfected sex partner who has no other sex partners?                    | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |
| 703  | Can people get the AIDS virus from mosquito bites?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |
| 704  | Can people reduce their chance of getting the AIDS virus by using a condom every time they have sex?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |
| 705  | Can people get the AIDS virus by sharing food with a person who has AIDS?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |
| 706  | Can people get the AIDS virus because of witchcraft or other supernatural means?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |
| 707  | Is it possible for a healthy-looking person to have the AIDS virus?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |
| 708  | Can the virus that causes AIDS be transmitted from a mother to her baby:<br><br>During pregnancy?<br>During delivery?<br>By breastfeeding?            | <div style="text-align: right; margin-bottom: 5px;">YES    NO    DK</div> DURING PREG. .... 1    2    8<br>DURING DELIVERY ... 1    2    8<br>BREASTFEEDING ... 1    2    8 |       |
| 709  | CHECK 708:<br>AT LEAST <input type="checkbox"/><br>ONE 'YES'    OTHER <input type="checkbox"/> _____  |   | → 711 |
| 710  | Are there any special drugs that a doctor or a nurse can give to a woman infected with the AIDS virus to reduce the risk of transmission to the baby? | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |
| 711  | CHECK FOR PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY.   |   |       |
| 712  | I don't want to know the results, but have you ever been tested to see if you have the AIDS virus?  | YES ..... 1<br>NO ..... 2   | → 716 |
| 713  | How many months ago was your most recent HIV test?  | MONTHS AGO ..... <input type="text"/> <input type="text"/><br><br>TWO OR MORE YEARS ..... 96  |       |
| 714  | I don't want to know the results, but did you get the results of the test?  | YES ..... 1<br>NO ..... 2   |       |
| 714A | How often did you have had an HIV test?   | ONLY ONCE ..... 1<br>EVERY YEAR ..... 2<br>EVERY 6 MONTHS ..... 3<br>EVERY 3 MONTHS ..... 4<br>OTHER _____ 6<br>SPECIFY _____   |       |

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES  | SKIP         |
|-----|---|--|--------------|
| 715 | <p>Where was the test done?</p> <p>PROBE TO IDENTIFY THE TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>_____</p> <p>(NAME OF PLACE)</p>                | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSPITAL (PP) ..... 11</p> <p>PROVINCIAL HOSP (RH) ..... 12</p> <p>DISTRICT HOSPITAL (RH) ... 13</p> <p>HEALTH CENTER ..... 14</p> <p>HEALTH POST ..... 15</p> <p>OUTREACH ..... 16</p> <p>MILITARY HOSPITAL ..... 17</p> <p>VCCT CENTER ..... 18</p> <p>PMTCT SITE ..... 19</p> <p>OTHER PUBLIC SECTOR ..... 20</p> <p>(SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIVATE HOSPITAL ..... 21</p> <p>PRIVATE CLINIC ..... 22</p> <p>PRIVATE LABORATORY ... 23</p> <p>OTHER PRIVATE MEDICAL SECTOR ..... 24</p> <p>(SPECIFY)</p> <p>OTHER ..... 96</p> <p>(SPECIFY)</p> | <p>→ 718</p> |
| 716 | <p>Do you know of a place where people can go to get tested for the AIDS virus?</p>   | <p>YES ..... 1</p> <p>NO ..... 2</p>   | <p>→ 718</p> |
| 717 | <p>Where is that?</p> <p>Any other place?</p> <p>PROBE TO IDENTIFY EACH TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>_____</p> <p>(NAME OF PLACE)</p> | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSPITAL (PP) ..... A</p> <p>PROVINCIAL HOSP (RH) ..... B</p> <p>DISTRICT HOSPITAL (RH) ..... C</p> <p>HEALTH CENTEF..... D</p> <p>HEALTH POST ..... E</p> <p>OUTREACH ..... F</p> <p>MILITARY HOSPITAL ..... G</p> <p>VCT CENTER ..... H</p> <p>PMTCT SITE ..... I</p> <p>OTHER PUBLIC ..... J</p> <p>(SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIVATE HOSPITAL ..... K</p> <p>PRIVATE CLIN ..... L</p> <p>PRIVATE LABORAT ..... M</p> <p>OTHER PRIVATE MEDICAL SECTOR ..... N</p> <p>(SPECIFY)</p> <p>OTHER ..... X</p> <p>(SPECIFY)</p>                          |              |
| 718 | <p>Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had the AIDS virus?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   |              |

| NO.  | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP  |
|------|---|---|-------|
| 719  | If a member of your family got infected with the AIDS virus, would you want it to remain a secret or not?   | YES, REMAIN A SECRET ..... 1<br>NO ..... 2<br>DK/NOT SURE/DEPENDS ..... 8                 |       |
| 720  | If a member of your family became sick with AIDS, would you be willing to care for her or him in your own household?  | YES ..... 1<br>NO ..... 2<br>DK/NOT SURE/DEPENDS ..... 8                                  |       |
| 721  | In your opinion, if a female teacher has the AIDS virus but is not sick, should she be allowed to continue teaching in the school?  | SHOULD BE ALLOWED ..... 1<br>SHOULD NOT BE ALLOWED ..... 2<br>DK/NOT SURE/DEPENDS ..... 8 |       |
| 722  | Do you personally know someone who has been denied health services in the last 12 months because he or she is suspected to have the AIDS virus or has the AIDS virus?   | YES ..... 1<br>NO ..... 2<br>DK ANYONE WITH AIDS ..... 8                                  |       |
| 722A | Do you agree or disagree with the following statement: People with the AIDS virus should be ashamed of themselves.  | AGREE ..... 1<br>DISAGREE ..... 2<br>DON'T KNOW/NO OPINION ..... 8                        |       |
| 722B | Do you agree or disagree with the following statement: People with the AIDS virus should be ashamed of themselves.  | AGREE ..... 1<br>DISAGREE ..... 2<br>DON'T KNOW/NO OPINION ..... 8                        |       |
| 723  | CHECK 701:<br><br><div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> HEARD ABOUT AIDS <input type="checkbox"/><br/> ↓<br/> Apart from AIDS, have you heard about other infections that can be transmitted through sexual contact? </div> <div style="text-align: center;"> NOT HEARD ABOUT AIDS <input type="checkbox"/><br/> ↓<br/> Have you heard about infections that can be transmitted through sexual contact? </div> </div> | YES ..... 1<br>NO ..... 2   |       |
| 724  | CHECK 414:<br><div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> HAS HAD SEXUAL INTERCOURSE <input type="checkbox"/><br/> ↓ </div> <div style="text-align: center;"> HAS NOT HAD SEXUAL INTERCOURSE <input type="checkbox"/> </div> </div>   |   | → 732 |
| 725  | CHECK 723: HEARD ABOUT OTHER SEXUALLY TRANSMITTED INFECTIONS?<br><br><div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> YES <input type="checkbox"/><br/> ↓ </div> <div style="text-align: center;"> NO <input type="checkbox"/> </div> </div>   |   | → 727 |
| 726  | Now I would like to ask you some questions about your health in the last 12 months. During the last 12 months, have you had a disease which you got through sexual contact?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |
| 727  | Sometimes men experience an abnormal discharge from their penis.<br>During the last 12 months, have you had an abnormal discharge from your penis?  | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |
| 728  | Sometimes men have a sore or ulcer near their penis. During the last 12 months, have you had a sore or ulcer near your penis?   | YES ..... 1<br>NO ..... 2<br>DON'T KNOW ..... 8   |       |
| 729  | CHECK 726, 727, AND 728:<br><div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> HAS HAD AN INFECTION (ANY 'YES') <input type="checkbox"/><br/> ↓ </div> <div style="text-align: center;"> HAS NOT HAD AN INFECTION OR DOES NOT KNOW <input type="checkbox"/> </div> </div>  |   | → 732 |
| 730  | The last time you had (PROBLEM FROM 726/727/728), did you seek any kind of advice or treatment?   | YES ..... 1<br>NO ..... 2   | → 732 |

| NO. | QUESTIONS AND FILTERS   | CODING CATEGORIES   | SKIP |
|-----|---|---|------|
| 731 | <p>Where did you go?</p> <p>Any other place?</p> <p>PROBE TO IDENTIFY EACH TYPE OF SOURCE.</p> <p>IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.</p> <p>_____</p> <p>(NAME OF PLACE(S))</p> | <p>PUBLIC SECTOR</p> <p>NATIONAL HOSPITAL (PP) ..... A</p> <p>PROVINCIAL HOSP (RH) ..... B</p> <p>DISTRICT HOSPITAL (RH) ..... C</p> <p>HEALTH CENTRE ..... D</p> <p>HEALTH POST ..... E</p> <p>OUTREACH ..... F</p> <p>MILITARY HOSPITAL ..... G</p> <p>OTHER PUBLIC ..... H</p> <p>SECTOR _____</p> <p>(SPECIFY)</p> <p>PRIVATE MEDICAL SECTOR</p> <p>PRIVATE HOSPITAL ..... I</p> <p>PRIVATE CLINIC ..... J</p> <p>PHARMACY ..... K</p> <p>OTHER PRIVATE MEDICAL</p> <p>SECTOR _____ L</p> <p>(SPECIFY)</p> <p>OTHER SOURCE</p> <p>SHOP ..... M</p> <p>FRIEND/RELATIVE ..... N</p> <p>OTHER _____ X</p> <p>(SPECIFY)</p> |      |
| 732 | <p>If a wife knows her husband has a disease that she can get during sexual intercourse, is she justified in asking that they use a condom when they have sex?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>  |      |
| 733 | <p>Is a wife justified in refusing to have sex with her husband when she knows her husband has sex with other women?</p>  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>  |      |



SECTION 8. OTHER HEALTH ISSUES

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |
|-----|--|--|-------|
| 805 | <p>Now I would like to ask you some other questions relating to health matters. Have you had an injection for any reason in the last 12 months?</p> <p>IF YES: How many injections have you had?</p> <p>IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'.</p> <p>IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.</p> | <p>NUMBER OF INJECTIONS ... <input type="text"/> <input type="text"/></p> <p>NONE ..... 00</p>                               | → 808 |
| 806 | <p>Among these injections, how many were administered by a doctor, a nurse, a pharmacist, a dentist, or any other health worker?</p> <p>IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'.</p> <p>IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.</p>   | <p>NUMBER OF INJECTIONS ... <input type="text"/> <input type="text"/></p> <p>NONE ..... 00</p>                               | → 808 |
| 807 | The last time you got an injection from a health worker, did he/she take the syringe and needle from a new, unopened package?  | <p>YES ..... 1</p> <p>NO ..... 2</p> <p>DON'T KNOW ..... 8</p>   |       |
| 808 | Do you currently smoke cigarettes?   | <p>YES ..... 1</p> <p>NO ..... 2</p>   | → 810 |
| 809 | In the last 24 hours, how many cigarettes did you smoke?   | <p>NUMBER OF CIGARETTES ... <input type="text"/> <input type="text"/></p>  |       |
| 810 | Do you currently smoke or use any (other) type of tobacco?   | <p>YES ..... 1</p> <p>NO ..... 2</p>   | → 812 |
| 811 | <p>What (other) type of tobacco do you currently smoke or use?</p> <p>RECORD ALL MENTIONED.</p>  | <p>PIPE ..... A</p> <p>CHEWING TOBACCO ..... B</p> <p>SNUFF ..... C</p> <p>OTHER _____ X</p> <p align="center">(SPECIFY)</p> |       |

| NO. | QUESTIONS AND FILTERS  | CODING CATEGORIES  | SKIP  |
|-----|--|--|-------|
| 812 | Are you covered by any health insurance?                                       | YES ..... 1<br>NO ..... 2  | → 814 |
| 813 | What type of health insurance are you covered by?<br><br>RECORD ALL MENTIONED. | HEALTH EQUITY FUND ..... A<br>COMMUNITY-BASED HEALTH INSURANCE ..... B<br>HEALTH INSURANCE THROUGH EMPLOYER ..... C<br>OTHER PRIVATELY PURCHASED COMMERCIAL HEALTH INSURANCE D<br>OTHER _____ X<br>(SPECIFY)   |       |
| 814 | RECORD THE TIME.   | HOUR .....<br><br>MINUTES .....<br><div style="float: right; border: 1px solid black; width: 60px; height: 60px; margin-top: -20px;"> <div style="border-right: 1px solid black; width: 30px; height: 30px;"></div> <div style="border-right: 1px solid black; width: 30px; height: 30px;"></div> <div style="border-right: 1px solid black; width: 30px; height: 30px;"></div> <div style="border-right: 1px solid black; width: 30px; height: 30px;"></div> </div> |       |

INTERVIEWER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING INTERVIEW

COMMENTS ABOUT RESPONDENT:

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COMMENTS ON SPECIFIC QUESTIONS:

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ANY OTHER COMMENTS:

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SUPERVISOR'S OBSERVATIONS

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NAME OF SUPERVISOR: \_\_\_\_\_ DATE: \_\_\_\_\_

EDITOR'S OBSERVATIONS

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NAME OF EDITOR: \_\_\_\_\_ DATE: \_\_\_\_\_

CAMBODIA DEMOGRAPHIC AND HEALTH SURVEYS 2014  
MICRONUTRIENT QUESTIONNAIRE

MINISTRY OF PLANNING  
NATIONAL INSTITUTE OF STATISTICS

MINISTRY OF HEALTH  
DIRECTORATE FOR GENERAL HEALTH

| IDENTIFICATION  |  |
|---|--|
| DOMAIN .....  | <div style="display: flex; justify-content: flex-end; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>   |
| NAME OF HOUSEHOLD HEAD _____                              |  |
| PROVINCE _____  | <div style="display: flex; justify-content: flex-end; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>   |
| DISTRICT _____  | <div style="display: flex; justify-content: flex-end; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>   |
| COMMUNE _____   | <div style="display: flex; justify-content: flex-end; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>   |
| VILLAGE _____   | <div style="display: flex; justify-content: flex-end; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>   |
| CLUSTER NUMBER .....                                      | <div style="display: flex; justify-content: flex-end; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>   |
| HOUSEHOLD NUMBER .....                                    | <div style="display: flex; justify-content: flex-end; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>   |
| ARE THERE ELIGIBLE CHILDREN FOR MICRONUTRIENT TEST? ..... | <div style="display: flex; justify-content: space-between; align-items: center;"> <div>YES = 1</div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div>NO = 2</div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div> |
| ARE THERE ELIGIBLE WOMEN FOR MICRONUTRIENT TEST? .....    | <div style="display: flex; justify-content: space-between; align-items: center;"> <div>YES = 1</div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div>NO = 2</div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div> |
| RESPONDENT AGREES TO BE REVISITED ? .....                 | <div style="display: flex; justify-content: space-between; align-items: center;"> <div>YES = 1</div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div>NO = 2</div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div> |
| ID OF HOUSEHOLD INTERVIEWER .....                         | <div style="display: flex; justify-content: flex-end; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>                      |
| NAME OF MICRONUTRIENT INTERVIEWER _____                   | <div style="display: flex; justify-content: flex-end; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>                      |

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**MICRONUTRIENTS FOR CHILDREN AGE 6-59 MONTH**

|     |   |  |  |  |
|-----|---|--|--|--|
| 251 | CHECK COLUMN 11 IN HOUSEHOLD SCHEDULE. RECORD THE LINE NUMBER AND NAME FOR ALL ELIGIBLE CHILDREN 0-5 YEARS IN QUESTION 252. IF MORE THAN SIX CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S). |  |  |  |
|     |   | CHILD 1  | CHILD 2  | CHILD 3  |
| 252 | LINE NUMBER FROM COLUMN 11<br><br>NAME FROM COLUMN 2  | LINE NUMBER ..... <input type="text"/> <input type="text"/><br>NAME _____  | LINE NUMBER ..... <input type="text"/> <input type="text"/><br>NAME _____  | LINE NUMBER ..... <input type="text"/> <input type="text"/><br>NAME _____  |
| 253 | IF MOTHER INTERVIEWED, COPY MONTH AND YEAR OF BIRTH FROM BIRTH HISTORY AND ASK DAY; IF MOTHER NOT INTERVIEWED, ASK:<br>What is (NAME's) birth date?                                     | DAY ..... <input type="text"/> <input type="text"/><br>MONTH ..... <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>   | DAY ..... <input type="text"/> <input type="text"/><br>MONTH ..... <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | DAY ..... <input type="text"/> <input type="text"/><br>MONTH ..... <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> |
| 254 | CHECK 253:<br>CHILD BORN IN JANUARY 2009 OR LATER?  | YES ..... 1<br>NO ..... 2<br>(GO TO 253 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 270)   | YES ..... 1<br>NO ..... 2<br>(GO TO 253 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 270)   | YES ..... 1<br>NO ..... 2<br>(GO TO 253 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 270)   |
| 255 | CHECK 253:<br>IS CHILD AGE 0-5 MONTHS, I.E., WAS CHILD BORN IN MONTH OF INTERVIEW OR FIVE PREVIOUS MONTHS?  | 0-5 MONTHS ..... 1<br>(GO TO 253 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 270)<br>OLDER ..... 2   | 0-5 MONTHS ..... 1<br>(GO TO 253 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 270)<br>OLDER ..... 2   | 0-5 MONTHS ..... 1<br>(GO TO 253 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 270)<br>OLDER ..... 2   |
| 256 | LINE NUMBER OF PARENT/ OTHER ADULT RESPONSIBLE FOR THE CHILD (FROM COLUMN 1 OF HOUSEHOLD SCHEDULE.)<br>RECORD '00' IF NOT LISTED.   | LINE NUMBER ..... <input type="text"/> <input type="text"/>  | LINE NUMBER ..... <input type="text"/> <input type="text"/>  | LINE NUMBER ..... <input type="text"/> <input type="text"/>  |
| 257 | ASK CONSENT FOR VENOUS BLOOD FOR MICRONUTRIENT TESTS FROM PARENT/OTHER ADULT IDENTIFIED IN 256 AS RESPONSIBLE FOR CHILD.  | <p>As part of this survey, we are asking people all over the country to take micronutrient tests. Micronutrient deficiency is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat micronutrient deficiency.</p> <p>We ask that all children born in 2009 or later take part in micronutrient testing in this survey and give 4 ml of venous blood. The blood will be tested for iron, zinc, calcium, vitamin A, vitamin B9, vitamin D, inflammatory factors, and hemoglobinopathy. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each blood draw.</p> <p>The blood will be transported to the central laboratory, and the result will not be available to you. No one else will be able to know (NAME OF CHILD/NAME OF CHILDREN) test results either</p> <p>Do you have any questions?<br/>You can say yes to the test, or you can say no. It is up to you to decide.<br/>Will you allow (NAME OF CHILD/NAMES OF CHILDREN) to participate in the micronutrient tests?</p> |  |  |
| 258 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.   | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2   | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2   | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2   |
| 259 | ASK CONSENT FOR IODINE TEST FROM PARENT/OTHER ADULT IDENTIFIED IN 256 AS RESPONSIBLE FOR CHILD.   | <p>As part of this survey, we are asking people all over the country to take iodine test. Iodine deficiency is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat anemia.</p> <p>We ask that all children born in 2009 or later take part in iodine testing in this survey and give 4 ml of urine. The urine will be tested for iodine. The equipment used to take the urine is clean and completely safe.</p> <p>The urine will be transported to the central laboratory, and the result will not be available to you. No one else will be able to know (NAME OF CHILD/NAME OF CHILDREN) test results either</p> <p>Do you have any questions?<br/>You can say yes to the test, or you can say no. It is up to you to decide.<br/>Will you allow (NAME OF CHILD/NAMES OF CHILDREN) to participate in the iodine test?</p>  |  |  |

**MICRONUTRIENTS FOR CHILDREN AGE 6-59 MONTH**

|      |  | CHILD 1  | CHILD 2   | CHILD 3   |
|------|--|--|---|---|
| 260  | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.  | GRANTED ..... 1<br>_____ (SIGN) ←  <br>REFUSED ..... 2   | GRANTED ..... 1<br>_____ (SIGN) ←  <br>REFUSED ..... 2  | GRANTED ..... 1<br>_____ (SIGN) ←  <br>REFUSED ..... 2  |
| 261  | ASK CONSENT FOR<br>INTESTINAL PARASITE<br>TEST FROM PARENT/OTHER<br>ADULT IDENTIFIED IN 256 AS<br>RESPONSIBLE FOR CHILD.     | <p>As part of this survey, we are asking people all over the country to take part in the tests for intestinal parasite. Intestinal parasite is a serious health problem. This survey will assist the government to develop programs to prevent and treat anemia.</p> <p>We ask that all children born in 2009 or later take part in Intestinal parasite testing in this survey and give 1 gram of stool. The stool will be tested for intestinal parasite. The equipment used to take the stool is clean and completely safe.</p> <p>The stool will be transported to the central laboratory, and the result will not be available to you. No one else will be able to know (NAME OF CHILD/NAME OF CHILDREN) test results either</p> <p>Do you have any questions?<br/>           You can say yes to the test, or you can say no. It is up to you to decide.<br/>           Will you allow (NAME OF CHILD/NAMES OF CHILDREN) to participate in the test?</p> |   |   |
| 262  | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.  | GRANTED ..... 1<br>_____ (SIGN) ←  <br>REFUSED ..... 2   | GRANTED ..... 1<br>_____ (SIGN) ←  <br>REFUSED ..... 2  | GRANTED ..... 1<br>_____ (SIGN) ←  <br>REFUSED ..... 2  |
| 263  | CHECK Q.258<br><br>PUT THE 2ND LABEL ON<br>VAVUTAINER TUBE.<br>PUT THE 3RD LABEL ON THE<br>BLOOD TRANSMITTAL FORM            | AGREE FOR BLOOD TEST<br><br><div style="border: 1px dashed black; padding: 5px; text-align: center;">             PUT THE 1ST BARCODE<br/>LABEL HERE           </div><br>NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996  | AGREE FOR BLOOD TEST<br><br><div style="border: 1px dashed black; padding: 5px; text-align: center;">             PUT THE 1ST BARCODE<br/>LABEL HERE           </div><br>NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996 | AGREE FOR BLOOD TEST<br><br><div style="border: 1px dashed black; padding: 5px; text-align: center;">             PUT THE 1ST BARCODE<br/>LABEL HERE           </div><br>NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996 |
| 263A | CHECK Q.260<br><br>PUT THE 5TH LABEL ON<br>URINE CONTAINER<br>PUT THE 6TH LABEL ON THE<br>URINE TRANSMITTAL FORM             | AGREE FOR URINE TEST<br><br><div style="border: 1px dashed black; padding: 5px; text-align: center;">             PUT THE 4TH BARCODE<br/>LABEL HERE           </div><br>NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996  | AGREE FOR URINE TEST<br><br><div style="border: 1px dashed black; padding: 5px; text-align: center;">             PUT THE 4TH BARCODE<br/>LABEL HERE           </div><br>NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996 | AGREE FOR URINE TEST<br><br><div style="border: 1px dashed black; padding: 5px; text-align: center;">             PUT THE 4TH BARCODE<br/>LABEL HERE           </div><br>NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996 |
| 263B | CHECK Q.262<br><br>PUT THE 8TH LABEL ON<br>STOOL CONTAINER<br>PUT THE 9TH LABEL ON THE<br>STOOL TRANSMITTAL FORM             | AGREE FOR STOOL TEST<br><br><div style="border: 1px dashed black; padding: 5px; text-align: center;">             PUT THE 7TH BARCODE<br/>LABEL HERE           </div><br>NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996  | AGREE FOR STOOL TEST<br><br><div style="border: 1px dashed black; padding: 5px; text-align: center;">             PUT THE 7TH BARCODE<br/>LABEL HERE           </div><br>NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996 | AGREE FOR STOOL TEST<br><br><div style="border: 1px dashed black; padding: 5px; text-align: center;">             PUT THE 7TH BARCODE<br/>LABEL HERE           </div><br>NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996 |
| 264  | GO BACK TO 253 IN NEXT COLUMN OF THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF THE NEXT PAGE; IF NO MORE CHILDREN, GO TO 270. |  |   |   |

**MICRONUTRIENTS FOR CHILDREN AGE 6-59 MONTH**

|     |   | CHILD 4  | CHILD 5  | CHILD 6  |
|-----|---|--|--|--|
| 252 | LINE NUMBER FROM COLUMN 11<br><br>NAME FROM COLUMN 2  | LINE NUMBER ..... <input type="text"/> <input type="text"/><br>NAME .....  | LINE NUMBER ..... <input type="text"/> <input type="text"/><br>NAME .....  | LINE NUMBER ..... <input type="text"/> <input type="text"/><br>NAME .....  |
| 253 | IF MOTHER INTERVIEWED, COPY MONTH AND YEAR OF BIRTH FROM BIRTH HISTORY AND ASK DAY; IF MOTHER NOT INTERVIEWED, ASK:<br>What is (NAME's) birth date? | DAY ..... <input type="text"/> <input type="text"/><br>MONTH ..... <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>   | DAY ..... <input type="text"/> <input type="text"/><br>MONTH ..... <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | DAY ..... <input type="text"/> <input type="text"/><br>MONTH ..... <input type="text"/> <input type="text"/><br>YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> |
| 254 | CHECK 253:<br>CHILD BORN IN JANUARY 2009 OR LATER?  | YES ..... 1<br>NO ..... 2<br>(GO TO 253 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 270)   | YES ..... 1<br>NO ..... 2<br>(GO TO 253 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 270)   | YES ..... 1<br>NO ..... 2<br>(GO TO 253 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 270)   |
| 255 | CHECK 253:<br>IS CHILD AGE 0-5 MONTHS, I.E., WAS CHILD BORN IN MONTH OF INTERVIEW OR FIVE PREVIOUS MONTHS?  | 0-5 MONTHS ..... 1<br>(GO TO 253 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 270)<br>OLDER ..... 2   | 0-5 MONTHS ..... 1<br>(GO TO 253 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 270)<br>OLDER ..... 2   | 0-5 MONTHS ..... 1<br>(GO TO 253 FOR NEXT CHILD OR, IF NO MORE CHILDREN, GO TO 270)<br>OLDER ..... 2   |
| 256 | LINE NUMBER OF PARENT/ OTHER ADULT RESPONSIBLE FOR THE CHILD (FROM COLUMN 1 OF HOUSEHOLD SCHEDULE.)<br>RECORD '00' IF NOT LISTED.                   | LINE NUMBER ..... <input type="text"/> <input type="text"/>  | LINE NUMBER ..... <input type="text"/> <input type="text"/>  | LINE NUMBER ..... <input type="text"/> <input type="text"/>  |
| 257 | ASK CONSENT FOR VENOUS BLOOD FOR MICRONUTRIENT TESTS FROM PARENT/OTHER ADULT IDENTIFIED IN 256 AS RESPONSIBLE FOR CHILD.                            | <p>As part of this survey, we are asking people all over the country to take micronutrient tests. Micronutrient deficiency is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat micronutrient deficiency.</p> <p>We ask that all children born in 2009 or later take part in micronutrient testing in this survey and give 4 ml of venous blood. The blood will be tested for iron, zinc, calcium, vitamin A, vitamin B9, vitamin D, inflammatory factors, and hemoglobinopathy. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each blood draw.</p> <p>The blood will be transported to the central laboratory, and the result will not be available to you. No one else will be able to know (NAME OF CHILD/NAME OF CHILDREN) test results either</p> <p>Do you have any questions?<br/>You can say yes to the test, or you can say no. It is up to you to decide.<br/>Will you allow (NAME OF CHILD/NAMES OF CHILDREN) to participate in the micronutrient tests?</p> |  |  |
| 258 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.   | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2   | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2   | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2   |
| 259 | ASK CONSENT FOR IODINE TEST FROM PARENT/OTHER ADULT IDENTIFIED IN 256 AS RESPONSIBLE FOR CHILD.   | <p>As part of this survey, we are asking people all over the country to take iodine test. Iodine deficiency is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat anemia.</p> <p>We ask that all children born in 2009 or later take part in iodine testing in this survey and give 4 ml of urine. The urine will be tested for iodine. The equipment used to collect the urine is clean and completely safe.</p> <p>The urine will be transported to the central laboratory, and the result will not be available to you. No one else will be able to know (NAME OF CHILD/NAME OF CHILDREN) test results either</p> <p>Do you have any questions?<br/>You can say yes to the test, or you can say no. It is up to you to decide.<br/>Will you allow (NAME OF CHILD/NAMES OF CHILDREN) to participate in the iodine test?</p>   |  |  |
| 260 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.   | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2   | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2   | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2   |



**MICRONUTRIENTS FOR CHILDREN AGE 6-59 MONTH**

|      |  | CHILD 4   | CHILD 5   | CHILD 6   |
|------|--|---|---|---|
| 261  | ASK CONSENT FOR<br>INTESTINAL PARASITE<br>TEST FROM PARENT/OTHER<br>ADULT IDENTIFIED IN 256 AS<br>RESPONSIBLE FOR CHILD.     | <p>As part of this survey, we are asking people all over the country to take part in the tests for intestinal parasite. Intestinal parasite is a serious health problem. This survey will assist the government to develop programs to prevent and treat anemia.</p> <p>We ask that all children born in 2009 or later take part in Intestinal parasite testing in this survey and give 1 gram of stool. The stool will be tested for intestinal parasite. The equipment used to collect the stool is clean and completely safe.</p> <p>The stool will be transported to the central laboratory, and the result will not be available to you. No one else will be able to know (NAME OF CHILD/NAME OF CHILDREN) test results either</p> <p>Do you have any questions?<br/>You can say yes to the test, or you can say no. It is up to you to decide.<br/>Will you allow (NAME OF CHILD/NAMES OF CHILDREN) to participate in the test?</p> |   |   |
| 262  | CIRCLE THE APPROPRIATE<br>CODE AND SIGN YOUR NAME.   | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2  | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2  | GRANTED ..... 1<br>_____ (SIGN) _____<br>REFUSED ..... 2  |
| 263  | CHECK Q.258<br><br>PUT THE 2ND LABEL ON<br>VAVUTAINER TUBE.<br>PUT THE 3RD LABEL ON THE<br>BLOOD TRANSMITTAL FORM            | AGREE FOR BLOOD TEST<br><div style="border: 1px dashed black; padding: 10px; text-align: center;">             PUT THE 1ST BARCODE<br/>LABEL HERE           </div> NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996   | AGREE FOR BLOOD TEST<br><div style="border: 1px dashed black; padding: 10px; text-align: center;">             PUT THE 1ST BARCODE<br/>LABEL HERE           </div> NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996 | AGREE FOR BLOOD TEST<br><div style="border: 1px dashed black; padding: 10px; text-align: center;">             PUT THE 1ST BARCODE<br/>LABEL HERE           </div> NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996 |
| 263A | CHECK Q.260<br><br>PUT THE 5TH LABEL ON<br>URINE CONTAINER<br>PUT THE 6TH LABEL ON THE<br>URINE TRANSMITTAL FORM             | AGREE FOR URINE TEST<br><div style="border: 1px dashed black; padding: 10px; text-align: center;">             PUT THE 4TH BARCODE<br/>LABEL HERE           </div> NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996   | AGREE FOR URINE TEST<br><div style="border: 1px dashed black; padding: 10px; text-align: center;">             PUT THE 4TH BARCODE<br/>LABEL HERE           </div> NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996 | AGREE FOR URINE TEST<br><div style="border: 1px dashed black; padding: 10px; text-align: center;">             PUT THE 4TH BARCODE<br/>LABEL HERE           </div> NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996 |
| 263B | CHECK Q.262<br><br>PUT THE 8TH LABEL ON<br>STOOL CONTAINER<br>PUT THE 9TH LABEL ON THE<br>STOOL TRANSMITTAL FORM             | AGREE FOR STOOL TEST<br><div style="border: 1px dashed black; padding: 10px; text-align: center;">             PUT THE 7TH BARCODE<br/>LABEL HERE           </div> NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996   | AGREE FOR STOOL TEST<br><div style="border: 1px dashed black; padding: 10px; text-align: center;">             PUT THE 7TH BARCODE<br/>LABEL HERE           </div> NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996 | AGREE FOR STOOL TEST<br><div style="border: 1px dashed black; padding: 10px; text-align: center;">             PUT THE 7TH BARCODE<br/>LABEL HERE           </div> NOT PRESENT ...99994<br>REFUSED .....99995<br>OTHER .....99996 |
| 264  | GO BACK TO 253 IN NEXT COLUMN OF THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF THE NEXT PAGE; IF NO MORE CHILDREN, GO TO 270. |   |   |   |




**MICRONUTRIENT FOR WOMEN AGE 15-49**

|     |  |  |  |  |
|-----|--|--|--|--|
|     | CHECK COLUMN 9 IN HOUSEHOLD SCHEDULE. RECORD THE LINE NUMBER AND NAME FOR ALL ELIGIBLE WOMEN IN 270.<br>IF THERE ARE MORE THAN THREE WOMEN, USE ADDITIONAL QUESTIONNAIRE(S). |  |  |  |
|     |  | WOMAN 1  | WOMAN 2  | WOMAN 3  |
| 270 | LINE NUMBER FROM COLUMN 9<br><br>NAME FROM COLUMN 2  | LINE NUMBER <input type="text"/> <input type="text"/><br><br>NAME _____  | LINE NUMBER <input type="text"/> <input type="text"/><br><br>NAME _____  | LINE NUMBER <input type="text"/> <input type="text"/><br><br>NAME _____  |
| 271 | CHECK 224: WOMEN QUESTIONNAIRES  | ONE OR MORE BIRTHS IN 2009 OR LATER <input type="checkbox"/><br>↓<br>GO TO 271 IN NEXT COLUMN; IF NO MORE WOMEN GO TO THE LAST SECTION   | ONE OR MORE BIRTHS IN 2009 OR LATER <input type="checkbox"/><br>↓<br>GO TO 271 IN NEXT COLUMN; IF NO MORE WOMEN GO TO THE LAST SECTION | ONE OR MORE BIRTHS IN 2009 OR LATER <input type="checkbox"/><br>↓<br>GO TO 271 IN THE FIRST COLUMN OF AN ADDITIONAL QUESTIONNAIRE; IF NO MORE WOMEN GO TO THE LAST SECTION |
| 272 | AGE: CHECK COLUMN 7.   | 15-17 YEARS ..... 1<br>18-49 YEARS ..... 2<br>(GO TO 277) ←  | 15-17 YEARS ..... 1<br>18-49 YEARS ..... 2<br>(GO TO 277) ←  | 15-17 YEARS ..... 1<br>18-49 YEARS ..... 2<br>(GO TO 277) ←  |
| 273 | MARITAL STATUS: CHECK COLUMN 8.  | CODE 4 (NEVER IN UNION) ..... 1<br>OTHER ..... 2<br>(GO TO 277) ←  | CODE 4 (NEVER IN UNION) ..... 1<br>OTHER ..... 2<br>(GO TO 277) ←  | CODE 4 (NEVER IN UNION) ..... 1<br>OTHER ..... 2<br>(GO TO 277) ←  |
| 274 | RECORD LINE NUMBER OF PARENT/OTHER ADULT RESPONSIBLE FOR ADOLESCENT. RECORD '00' IF NOT LISTED.  | LINE NUMBER OF PARENT OR OTHER RESPONSIBLE ADULT <input type="text"/> <input type="text"/><br><br>NAME: _____  | LINE NUMBER OF PARENT OR OTHER RESPONSIBLE ADULT <input type="text"/> <input type="text"/><br><br>NAME: _____                          | LINE NUMBER OF PARENT OR OTHER RESPONSIBLE ADULT <input type="text"/> <input type="text"/><br><br>NAME: _____  |
| 275 | ASK CONSENT FOR MICRONUTRIENT TEST FROM PARENT/ OTHER ADULT IDENTIFIED IN 274 AS RESPONSIBLE FOR NEVER IN UNION WOMEN AGE 15-17.   | <p>As part of this survey, we are asking people all over the country to take micronutrient tests. Micronutrient deficiency is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat micronutrient deficiency. For the micronutrient testing, we will need 6 ml of blood from a venous puncture. The blood will be tested for iron, zinc, calcium, vitamins A, D, and B9, inflammatory factors, and hemoglobinopathy. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The blood will be transported to the central laboratory, and the result will not be available to you. No one else will be able to know (NAME OF ADOLESCENT) test results either.</p> <p>Do you have any questions?<br/>You can say yes to the test for (NAME OF ADOLESCENT), or you can say no. It is up to you to decide.<br/>Will you allow (NAME OF ADOLESCENT) to take the micronutrient tests?</p> |  |  |
| 276 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.  | GRANTED ..... 1<br>_____ (SIGN) ←<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2<br>(IF REFUSED, GO TO 279) ←   | GRANTED ..... 1<br>_____ (SIGN) ←<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2<br>(IF REFUSED, GO TO 279) ←                       | GRANTED ..... 1<br>_____ (SIGN) ←<br>PARENT/OTHER RESPONSIBLE ADULT REFUSED ..... 2<br>(IF REFUSED, GO TO 279) ←   |
| 277 | ASK CONSENT FOR MICRONUTRIENT TEST FROM RESPONDENT.  | <p>As part of this survey, we are asking people all over the country to take micronutrient tests. Micronutrient deficiency is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat micronutrient deficiency. For the micronutrient testing, we will need 6 ml of blood from a venous puncture. The blood will be tested for iron, zinc, calcium, vitamins A, D, and B9, inflammatory factors, and hemoglobinopathy. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The blood will be transported to the central laboratory, and the result will not be available to you. No one else will be able to know your test results either.</p> <p>Do you have any questions?<br/>You can say yes to the test, or you can say no. It is up to you to decide.<br/>Will you take the micronutrient tests?</p>  |  |  |
| 278 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.  | GRANTED ..... 1<br>_____ (SIGN) ←<br>RESPONDENT REFUSED ..... 2  | GRANTED ..... 1<br>_____ (SIGN) ←<br>RESPONDENT REFUSED ..... 2  | GRANTED ..... 1<br>_____ (SIGN) ←<br>RESPONDENT REFUSED ..... 2  |

**MICRONUTRIENT FOR WOMEN AGE 15-49**

|     |   | WOMAN 1   | WOMAN 2   | WOMAN 3   |
|-----|---|---|---|---|
| 279 | CHECK:<br><br>272 AND 273   | 272 : 15-17 YEARS →<br>273 : OTHER → 282<br>272 : 18-49 YEARS → 282<br><br>272 : 15-17 YEARS →<br>273 : CODE 4 (NEVER IN UNION) →   | 272 : 15-17 YEARS →<br>273 : OTHER → 282<br>272 : 18-49 YEARS → 282<br><br>272 : 15-17 YEARS →<br>273 : CODE 4 (NEVER IN UNION) → | 272 : 15-17 YEARS →<br>273 : OTHER → 282<br>272 : 18-49 YEARS → 282<br><br>272 : 15-17 YEARS →<br>273 : CODE 4 (NEVER IN UNION) → |
| 280 | ASK CONSENT FOR IODINE TEST FROM PARENT/ OTHER ADULT IDENTIFIED IN 274 AS RESPONSIBLE FOR NEVER IN UNION WOMEN AGE 15-17.         | <p>As part of this survey, we are asking people all over the country to take an iodine test. Iodine deficiency is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat iodine deficiency. For the iodine testing, we will need 2 ml of urine. The equipment used to collect the urine is clean and completely safe. It has never been used before and will be thrown away after each test. The urine will be transported to the central laboratory, and the result will not be available to you. No one else will be able to know (NAME OF ADOLESCENT) test results either.</p> <p>Do you have any questions?<br/>           You can say yes to the test for (NAME OF ADOLESCENT), or you can say no. It is up to you to decide.<br/>           Will you allow (NAME OF ADOLESCENT) to take the iodine test?</p> |   |   |
| 281 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.   | GRANTED ..... 1<br>_____ (SIGN) _____<br>PARENT/OTHER RESPONSIBLE<br>ADULT REFUSED ..... 2<br>(IF REFUSED, GO TO 284)   | GRANTED ..... 1<br>_____ (SIGN) _____<br>PARENT/OTHER RESPONSIBLE<br>ADULT REFUSED ..... 2<br>(IF REFUSED, GO TO 284)             | GRANTED ..... 1<br>_____ (SIGN) _____<br>PARENT/OTHER RESPONSIBLE<br>ADULT REFUSED ..... 2<br>(IF REFUSED, GO TO 284)             |
| 282 | ASK CONSENT FOR IODINE TEST FROM RESPONDENT.  | <p>As part of this survey, we are asking people all over the country to take an iodine test. Iodine deficiency is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat iodine deficiency. For the iodine testing, we will need 2 ml of urine. The equipment used to collect urine is clean and completely safe. It has never been used before and will be thrown away after each test. The urine will be transported to the central laboratory, and the result will not be available to you. No one else will be able to know your test results either.</p> <p>Do you have any questions?<br/>           You can say yes to the test, or you can say no. It is up to you to decide.<br/>           Will you take the iodine test?</p>  |   |   |
| 283 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.   | GRANTED ..... 1<br>_____ (SIGN) _____<br>RESPONDENT REFUSED ..... 2   | GRANTED ..... 1<br>_____ (SIGN) _____<br>RESPONDENT REFUSED ..... 2   | GRANTED ..... 1<br>_____ (SIGN) _____<br>RESPONDENT REFUSED ..... 2   |
| 284 | CHECK:<br><br>272 AND 273   | 272 : 15-17 YEARS →<br>273 : OTHER → 287<br>272 : 18-49 YEARS → 287<br><br>272 : 15-17 YEARS →<br>273 : CODE 4 (NEVER IN UNION) →   | 272 : 15-17 YEARS →<br>273 : OTHER → 287<br>272 : 18-49 YEARS → 287<br><br>272 : 15-17 YEARS →<br>273 : CODE 4 (NEVER IN UNION) → | 272 : 15-17 YEARS →<br>273 : OTHER → 287<br>272 : 18-49 YEARS → 287<br><br>272 : 15-17 YEARS →<br>273 : CODE 4 (NEVER IN UNION) → |
| 285 | ASK CONSENT FOR INTESTINAL PARASITE FROM PARENT/OTHER ADULTS IDENTIFIED IN 274 AS RESPONSIBLE FOR NEVER IN UNION WOMEN AGE 15-17. | <p>As part of this survey, we are asking people all over the country to take a test for intestinal parasite. Intestinal parasite is a serious health problem. This survey will assist the government to develop programs to prevent and treat intestinal parasite. For the intestinal parasite testing, we will need 1 gram of stool. The equipment used to collect the stool is clean and completely safe. It has never been used before and will be thrown away after each test. The stool will be transported to the central laboratory, and the result will not be available to you. No one else will be able to know (NAME OF ADOLESCENT) test results either.</p> <p>Do you have any questions?<br/>           You can say yes to the test for (NAME OF ADOLESCENT), or you can say no. It is up to you to decide.<br/>           Will you allow (NAME OF ADOLESCENT) to take the test for intestinal parasite?</p>                     |   |   |
| 286 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.   | GRANTED ..... 1<br>_____ (SIGN) _____<br>PARENT/OTHER RESPONSIBLE<br>ADULT REFUSED ..... 2<br>(IF REFUSED, GO TO 289)   | GRANTED ..... 1<br>_____ (SIGN) _____<br>PARENT/OTHER RESPONSIBLE<br>ADULT REFUSED ..... 2<br>(IF REFUSED, GO TO 289)             | GRANTED ..... 1<br>_____ (SIGN) _____<br>PARENT/OTHER RESPONSIBLE<br>ADULT REFUSED ..... 2<br>(IF REFUSED, GO TO 289)             |

**MICRONUTRIENT FOR WOMEN AGE 15-49**

|     |   | WOMAN 1  | WOMAN 2  | WOMAN 3  |
|-----|---|--|--|--|
| 287 | ASK CONSENT FOR INTESTINAL PARASITE TEST FROM RESPONDENT.   | <p>As part of this survey, we are asking people all over the country to take a test for intestinal parasite. Intestinal parasite is a serious health problem. This survey will assist the government to develop programs to prevent and treat intestinal parasite. For the test for intestinal parasite, we will need 1 gram of stool. The equipment used to collect stool is clean and completely safe. It has never been used before and will be thrown away after each test. The stool will be transported to the central laboratory, and the result will not be available to you. No one else will be able to know your test results either.</p> <p>Do you have any questions?<br/>           You can say yes to the test, or you can say no. It is up to you to decide.<br/>           Will you take the test for intestinal parasite ?</p> |  |  |
| 288 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.   | GRANTED ..... 1<br><br>(SIGN)<br>RESPONDENT REFUSED ..... 2   | GRANTED ..... 1<br><br>(SIGN)<br>RESPONDENT REFUSED ..... 2  | GRANTED ..... 1<br><br>(SIGN)<br>RESPONDENT REFUSED ..... 2   |
| 289 | CHECK Q.276 = 1<br>AND Q.278 = 1<br><br>PUT 2ND BARCODE ON VACUTAINER TUBE<br><br>PUT 3RD BARCODE ON BLOOD TRANSMITTAL FORM                 | AGREE FOR BLOOD TEST<br><div style="border: 1px dashed black; padding: 5px; margin: 5px 0;">PUT THE 1ST BARCODE LABEL HERE</div> NOT PRESENT ..... 99994<br>REFUSED ..... 99995<br>OTHER ..... 99996   | AGREE FOR BLOOD TEST<br><div style="border: 1px dashed black; padding: 5px; margin: 5px 0;">PUT THE 1ST BARCODE LABEL HERE</div> NOT PRESENT ..... 99994<br>REFUSED ..... 99995<br>OTHER ..... 99996 | AGREE FOR BLOOD TEST<br><div style="border: 1px dashed black; padding: 5px; margin: 5px 0;">PUT THE 1ST BARCODE LABEL HERE</div> NOT PRESENT ..... 99994<br>REFUSED ..... 99995<br>OTHER ..... 99996 |
| 290 | CHECK Q.281 = 1<br>AND Q.283 = 1<br><br>PUT 5TH BARCODE ON VACUTAINER TUBE<br><br>PUT 6TH BARCODE ON BLOOD TRANSMITTAL FORM                 | AGREE FOR URINE TEST<br><div style="border: 1px dashed black; padding: 5px; margin: 5px 0;">PUT THE 4TH BARCODE LABEL HERE</div> NOT PRESENT ..... 99994<br>REFUSED ..... 99995<br>OTHER ..... 99996   | AGREE FOR URINE TEST<br><div style="border: 1px dashed black; padding: 5px; margin: 5px 0;">PUT THE 4TH BARCODE LABEL HERE</div> NOT PRESENT ..... 99994<br>REFUSED ..... 99995<br>OTHER ..... 99996 | AGREE FOR URINE TEST<br><div style="border: 1px dashed black; padding: 5px; margin: 5px 0;">PUT THE 4TH BARCODE LABEL HERE</div> NOT PRESENT ..... 99994<br>REFUSED ..... 99995<br>OTHER ..... 99996 |
| 291 | CHECK Q.286 = 1<br>AND Q.288 = 1<br><br>PUT 8TH BARCODE ON VACUTAINER TUBE<br><br>PUT 9TH BARCODE ON BLOOD TRANSMITTAL FORM                 | AGREE FOR STOOL TEST<br><div style="border: 1px dashed black; padding: 5px; margin: 5px 0;">PUT THE 7TH BARCODE LABEL HERE</div> NOT PRESENT ..... 99994<br>REFUSED ..... 99995<br>OTHER ..... 99996   | AGREE FOR STOOL TEST<br><div style="border: 1px dashed black; padding: 5px; margin: 5px 0;">PUT THE 7TH BARCODE LABEL HERE</div> NOT PRESENT ..... 99994<br>REFUSED ..... 99995<br>OTHER ..... 99996 | AGREE FOR STOOL TEST<br><div style="border: 1px dashed black; padding: 5px; margin: 5px 0;">PUT THE 7TH BARCODE LABEL HERE</div> NOT PRESENT ..... 99994<br>REFUSED ..... 99995<br>OTHER ..... 99996 |
| 292 | GO BACK TO 271 IN NEXT COLUMN OF THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF AN ADDITIONAL QUESTIONNAIRE; IF NO MORE WOMEN, END INTERVIEW. |  |  |  |