## Myanmar



Demographic and Health Survey

2015-16

# MYANMAR DEMOGRAPHIC AND HEALTH SURVEY 

2015-16

Ministry of Health and Sports Nay Pyi Taw, Myanmar

The DHS Program<br>ICF<br>Rockville, Maryland, USA

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Additional information about the 2015-16 MDHS may be obtained from the Ministry of Health and Sports, Building No 47, Nay Pyi Taw, Myanmar; Telephone: (+) 95-067-431075; Fax: (+) 95-067-431076; Website: www.mohs.gov.mm.

Information about The DHS Program may be obtained from ICF, 530 Gaither Road, Suite 500, Rockville, MD 20850, USA; Telephone: +1-301-407-6500; Fax: +1-301-407-6501; E-mail: info@DHSprogram.com; Internet: www.DHSprogram.com.

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## FOREWORD

The Myanmar Demographic and Health Survey (MDHS) 2015-16 is the first survey of its kind to be implemented in the country as part of the worldwide Demographic and Health Surveys (DHS) Program. It was implemented by the Ministry of Health and Sports (MoHS), with the objective of providing reliable, accurate, and up-to-date data for the country. We hope that the information in this report will assist policymakers and program managers in policy formulation and monitoring and designing programs and strategies for improving maternal, child health, and family planning services in Myanmar. This report presents the findings of the survey.

The 2015-16 MDHS is a national sample survey that provides up-to-date information on fertility levels; marriage; fertility preferences; awareness and use of family planning methods; child feeding practices; nutrition; adult and childhood mortality; awareness and attitudes regarding HIV/AIDS; women's empowerment; and domestic violence. The target groups were women and men age 15-49 residing in randomly selected households across the country. In addition to national estimates, the report provides estimates of key indicators for both urban and rural areas in Myanmar and also for the 15 states and regions.

The successful completion of the 2015-16 MDHS was made possible through contributions from a number of like-minded organizations and professionals. In this regard, the MoHS especially appreciates the overall support, including funding, given by the United States Agency for International Development in Myanmar (USAID) and the Three Millennium Development Goal Fund (3MDG). We would like to put on record that the United Nations Children's Fund (UNICEF) provided technical support for training of surveyors. The technical advice provided by the Technical Committee and the Steering Committee during different phases of the survey was critical for the success of the survey. The MoHS would also like to appreciate the invaluable assistance provided by the Department of Population, Ministry of Labor, Immigration and Population, for providing the sampling frame and household lists and maps of the selected enumeration areas for the survey. Furthermore, the support and collaboration rendered by the national, state, and regional administration, nongovernmental and international development organizations, and other major stakeholders is greatly acknowledged.

We are grateful to the 2015 MDHS core team for managing technical, administrative, and logistical aspects of the survey; the master trainers for their support in training and monitoring of the field work; the field staff, for data collection; the data processing team; and, in particular, the survey respondents. Similarly, we wish to express our deep appreciation to ICF International for its technical assistance in all stages of the survey. We wish to also acknowledge Baker Tilly Consulting (Myanmar) for providing accounting and disbursement services that allowed for the timely and efficient transfer of project funds throughout the survey period.

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Dr. Myint Htwe
Union Minister for the Ministry of Health and Sports

# READING AND UNDERSTANDING THE 2015-16 MYANMAR DEMOGRAPHIC AND HEALTH SURVEY (MDHS) 

In 2016, The DHS Program began producing final reports with a new format and style. The new style features about 90 figures to highlight subnational patterns and background characteristics. The text has been simplified to highlight key points in bullets and to clearly identify indicator definitions in boxes.

## All of the standard tables that have historically

 been included in the DHS continue to be included in this new style. They are located at the end of each chapter. Each DHS final report is based on approximately 200 tables of data. While the text and figures featured in each chapter highlight some of the most important findings from the tables, not every finding can be discussed or displayed graphically. For this reason, DHS data users should be comfortable reading and interpreting tables.The following pages provide an introduction to the organization of DHS tables, the presentation of background characteristics, and a brief summary of sampling and understanding denominators. In addition, this section provides some exercises for users as they practice their new skills in interpreting DHS tables.


## Example 1: Exposure to Mass Media

| Table 3.4.1 Exposure to mass media: Women |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percentage of women age $15-49$ who are exposed to specific media on a weekly basis, by background characteristics, Myanmar 2015-16 |  |  |  |  |  |  |
| 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 |
| Age |  |  |  |  |  |  |
| 15-19 | 18.5 | 68.8 | 30.2 | 8.9 | 24.3 | 1,810 |
| 20-24 | 17.6 | 63.3 | 28.6 | 8.0 | 28.2 | 1,867 |
| 25-29 | 16.4 | 59.9 | 24.2 | 7.0 | 32.9 | 1,867 |
| 30-34 | 13.7 | 60.7 | 24.1 | 5.5 | 30.7 | 2,037 |
| 35-39 | 15.9 | 58.2 | 21.5 | 5.1 | 33.8 | 1,954 |
| 40-44 | 11.9 | 52.4 | 21.5 | 3.6 | 37.6 | 1,733 |
| 45-49 | 14.3 | 53.8 | 22.9 | 4.5 | 36.0 | 1,617 |
| Residence |  |  |  |  |  |  |
| Urban | 29.8 | 80.6 | 21.0 | 10.2 | 14.9 | 3,768 |
| Rural | 9.6 | 51.1 | 26.3 | 4.4 | 38.8 | 9,117 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 19.2 | 48.3 | 25.6 | 7.5 | 40.3 | 374 |
| Kayah | 15.7 | 67.4 | 26.1 | 6.2 | 27.0 | 65 |
| Kayin | 12.5 | 53.2 | 15.5 | 4.8 | 40.5 | 303 |
| Chin | 17.7 | 54.8 | 19.2 | 8.2 | 40.3 | 102 |
| Sagaing | 8.5 | 55.3 | 26.8 | 4.0 | 35.1 | 1,410 |
| Tanintharyi | 9.6 | 54.1 | 19.9 | 3.8 | 39.3 | 283 |
| Bago | 15.3 | 63.9 | 26.7 | 6.4 | 28.0 | 1,244 |
| Magway | 14.5 | 50.9 | 40.6 | 6.6 | 31.3 | 1,081 |
| Mandalay | 16.2 | 55.1 | 25.8 | 4.7 | 33.8 | 1,541 |
| Mon | 18.7 | 47.9 | 28.5 | 6.0 | 37.3 | 463 |
| Rakhine | 8.5 | 28.5 | 13.3 | 2.9 | 64.7 | 777 |
| Yangon | 22.2 | 88.3 | 12.7 | 6.2 | 9.8 | 1,927 |
| Shan | 11.6 | 51.1 | 19.0 | 5.1 | 43.9 | 1,368 |
| Ayeyarwady | 20.1 | 65.4 | 35.3 | 11.3 | 24.9 | 1,650 |
| Nay Pyi Taw | 14.7 | 68.1 | 27.4 | 5.6 | 25.4 | 300 |
| Education ${ }^{1}$ |  |  |  |  |  |  |
| No education | 1.1 | 33.8 | 13.6 | 0.3 | 59.9 | 1,606 |
| Primary | 7.4 | 52.3 | 24.3 | 2.8 | 37.3 | 5,305 |
| Secondary | 21.1 | 71.4 | 27.9 | 8.8 | 21.3 | 4,646 |
| More than secondary | 45.6 | 80.1 | 28.9 | 17.0 | 12.2 | 1,325 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 5.0 | 33.1 | 22.1 | 2.1 | 56.2 | 2,274 |
| Second | 9.6 | 45.9 | 26.0 | 4.4 | 42.9 | 2,408 |
| Middle | 10.5 | 57.0 | 27.5 | 4.7 | 31.6 | 2,633 |
| Fourth | 15.5 | 73.6 | 25.7 | 6.7 | 20.4 | 2,702 |
| Highest | 33.4 | 81.8 | 22.3 | 11.6 | 13.9 | 2,868 |
| Total | 15.5 | 59.7 | 24.7 | 6.1 | 31.8 | 12,885 |

Step 1: Read the title and subtitle. They tell you the topic and the specific population group being described. In this case, the table is about exposure to mass media among women age 15-49. All eligible female respondents age 15-49 were asked these questions.

Step 2: Scan the column headings-highlighted in green in Example 1. They describe how the information is categorized. In this table, the first column of data shows the percentage of women who read a newspaper at least once a week. The second column shows the percentage of women who watch television at least once a week. The third column shows the percentage of women who listen to the radio at least once a week. The fourth column shows the percentage of women who access all three types of mass media (newspaper, television, and radio) weekly, while the fifth column indicates women who do not access any of these three forms of media weekly. The last column lists the number of women age 15-49 who were included in the survey in each subgroup.

Step 3: Scan the row headings-the first vertical column highlighted in blue in Example 1. These show the different ways the data are divided into categories based on population characteristics. In this case, the table presents women's exposure to mass media by age, urban-rural residence, state/region, educational level, and wealth quintile.

Step 4: Look at the row at the bottom of the table highlighted in pink. These percentages represent the total percentage of women age 15-49 who are exposed to each type of media. In this case, $15.5 \%$ * of women read a newspaper at least once a week, while $59.7 \%$ watch television at least once a week.

Step 5: To find out what percentage of women age 15-49 in rural areas listen to the radio weekly, draw two imaginary lines, as shown on the table. This shows that $26.3 \%$ of women age 15-49 in rural areas listen to the radio at least once a week.

Step 6: By looking at patterns by background characteristics, we can see how exposure to the media varies across Myanmar. Access to media is not universal; knowing how women access media can help program planners and policy makers determine how to most effectively use resources to communicate health messages.
*For the purpose of this document data are presented exactly as they appear in the table including decimal places. However, the text in the standard DHS final report chapters rounds data to the nearest whole percentage point.

Practice: Use the table in Example 1 to answer the following questions about women's exposure to media:
a) Which of the three types of mass media is most commonly accessed?
b) Is there a clear pattern in access to media by a woman's education?
c) What are the lowest and highest percentages (range) of access to all 3 types of media by state/region?
d) Is there a clear pattern in access to media by wealth quintile?


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Example 2: Prevalence and Treatment of ARI

Table 10.5 Prevalence and treatment of symptoms of ARI
Among children under age five, 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, Myanmar 2015-16

| Background characteristic | Among children under age five: |  | Among children under age five with symptoms of ARI: |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage with symptoms of ARI ${ }^{1}$ | Number of children | Percentage for whom advice or treatment was sought from a health facility or provider ${ }^{2}$ | Percentage who received antibiotics | Number of children |
| Age in months |  |  |  |  |  |
| <6 | 2.0 | 404 | * | * | 8 |
| 6-11 | 1.6 | 403 | * | * | 7 |
| 12-23 | 4.7 | 852 | 71.1 | 54.2 | 40 |
| 24-35 | 3.9 | 782 | 66.2 | 38.3 | 30 |
| 36-47 | 3.4 | 866 | (47.2) | (30.1) | 29 |
| 48-59 | 2.1 | 792 | (44.4) | (45.1) | 17 |
| Sex |  |  |  |  |  |
| Male | 3.8 | 2,131 | 64.8 | 44.5 | 81 |
| Female | 2.6 | 1,968 | 47.6 | 41.5 | 51 |
| Mother's smoking status |  |  |  |  |  |
| Smokes cigarettes/tobacco | 5.4 | 85 | * | * | 5 |
| Does not smoke | 3.2 | 4,014 | 58.2 | 44.7 | 127 |
| Cooking fuel ${ }^{3}$ |  |  |  |  |  |
| Electricity or gas | 2.5 | 728 | (77.4) | (54.7) | 18 |
| Charcoal | 4.0 | 593 | (63.0) | (55.3) | 24 |
| Wood/straw ${ }^{4}$ | 3.2 | 2,758 | 53.5 | 37.3 | 88 |
| Animal dung | * | 13 | * | * | 1 |
| No food cooked in household | * | 5 | * | * | 0 |
| Residence |  |  |  |  |  |
| Urban | 3.0 | 925 | (76.6) | (53.8) 4 | 28 |
| Rural | 3.2 | 3,174 | 53.2 | 40.5 | 103 |
| States/Regions |  |  |  |  |  |
| Kachin | 7.5 | 162 | (34.2) | 25.1) | 12 |
| Kayah | 7.6 | - 31 | (61.1) | 71.4) | 2 |
| Kayin | 5.3 | 140 | * | * | 7 |
| Chin | 15.6 | 60 | 40.4 | 47.2 | 9 |
| Sagaing | 0.3 | 456 | * | * | 1 |
| Tanintharyi | 5.9 | 125 | * | * | 7 |
| Bago | 2.2 | 360 | * | * | 8 |
| Magway | 4.8 | 299 | * | * | 14 |
| Mandalay | 2.0 | 411 | * | * | 8 |
| Mon | 2.2 | 140 | * | * | 3 |
| Rakhine | 8.3 | 294 | (79.1) | (69.1) | 24 |
| Yangon | 0.4 | 423 | * | * | 2 |
| Shan | 1.7 | 564 | * | * | 10 |
| Ayeyarwady | 3.7 | 542 | * | * | 20 |
| Nay Pyi Taw | 1.9 | 92 | * | * | 2 |
| Mother's education |  |  |  |  |  |
| No education | 3.3 | 730 | (45.3) | (40.4) | 24 |
| Primary | 3.3 | 1,879 | 55.3 | 45.2 | 62 |
| Secondary | 3.1 | 1,175 | 63.0 | 41.8 | 37 |
| More than secondary | 2.7 | 314 | * | * | 8 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 4.1 | 1,211 | 45.3 | 38.0 | 50 |
| Second | 3.5 | 906 | 62.1 | 54.7 | 32 |
| Middle | 2.9 | 691 | (58.8) | (20.1) | 20 |
| Fourth | 2.7 | 699 | (71.4) | (57.1) | 19 |
| Highest | 1.9 | 593 | * | * | 11 |
| Total | 3.2 | 4,099 | 58.2 | 43.3 | 131 |

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.
${ }^{1}$ Symptoms of ARI include cough accompanied by short, rapid breathing which was chest-related and/or by difficult breathing which was chest-related
${ }^{2}$ Excludes pharmacy, shop, market, and traditional practitioner

Step 1: Read the title and subtitle. In this case, the table is about two separate groups of children: all children under age five (a) and children under age five who had symptoms of acute respiratory infection (ARI) in the two weeks before the survey (b).

Step 2: Identify the two panels. First, identify the columns that refer to all children under age five (a), and then isolate the columns that refer only to those children under age five who had symptoms of ARI in the two weeks before the survey (b).

Step 3: Look at the first panel. What percentage of children under age five had symptoms of ARI in the two weeks before the survey? It's $3.2 \%$. Now look at the second panel. How many children under age five are there who had symptoms of ARI in the two weeks before the survey? It's 131 children or $3.2 \%$ of the 4,099 children under age five (with rounding). The second panel is a subset of the first panel.

Step 4: Only $3.2 \%$ of children under age five had symptoms of ARI in the two weeks before the survey. Once these children are further divided into the background characteristic categories, there may be too few cases for the percentages to be reliable.

- What percentage of children under age five in urban areas who had symptoms of ARI in the two weeks before the survey received antibiotics? $53.8 \%$. This percentage is in parentheses because there are between 25 and 49 children (unweighted) in this category. Readers should use this number with caution-it may not be reliable. (For more information on weighted and unweighted numbers, see Example 3.)
- What percentage of children under age five in Kayin state who had symptoms of ARI in the two weeks before the survey received antibiotics? There is no number in this cell-only an asterisk. This is because fewer than 25 children under age five in Kayin state had symptoms of ARI in the two weeks before the survey. Results for this group are not reported. The subgroup is too small, and therefore the data are not reliable.

Note: When parentheses or asterisks are used in a table, the explanation will be noted under the table. If there are no parentheses or asterisks in a table, you can proceed with confidence that enough cases were included in all categories that the data are reliable.

## Example 3: Understanding Sampling Weights in MDHS Tables

A sample is a group of people who have been selected for a survey. In the 2015-16 MDHS, the sample is designed to represent the national population age 15-49. In addition to national data, most countries want to collect and report data on smaller geographical or administrative areas. However, doing so requires a minimum sample size per area. For the 2015-16 MDHS, the survey sample is representative at the national, state/regional levels, and for urban and rural areas.

To generate statistics that are representative of the country as a whole and the 15 states/regions, the number of women surveyed in each state/region should contribute to the size of the total (national) sample in proportion to size of the district. However, if some states/regions have small populations, then a sample allocated in proportion to each state's/region's population may not include sufficient women from each state/region for analysis. To solve this problem, states/regions with small populations are oversampled. For example, let's say that you have enough money to interview 12,885 women and want to produce results that are representative of Myanmar as a whole and its 15 states/regions (as in Table 3.1). However, the total population of Myanmar is not evenly distributed among the states/regions: some regions, such as Yangon, are heavily populated while others, such as Kayah State, are not. Thus, Kayah State must be oversampled.

A sampling statistician determines how many women should be interviewed in each state/region in order to get reliable statistics. The blue column (1) in the table at the right shows the actual number of women interviewed in each state/district. Within the states/districts,

| Table 3.1 Background characteristics of respondents |  |  |  |
| :---: | :---: | :---: | :---: |
| Percent distribution of women age 15-49 by selected background characteristics, Myanmar 2015-16 |  |  |  |
|  | Women |  |  |
| Background characteristic | Weighted percent | Weighted number | Unweighted number |
| States/Regions |  | $2$ |  |
| Kachin | 2.9 | 374 | 804 |
| Kayah | 0.5 | 65 | 757 |
| Kayin | 2.4 | 303 | 751 |
| Chin | 0.8 | 102 | 750 |
| Sagaing | 10.9 | 1,410 | 1,039 |
| Tanintharyi | 2.2 | 283 | 717 |
| Bago | 9.7 | 1,244 | 939 |
| Magway | 8.4 | 1,081 | 947 |
| Mandalay | 12.0 | 1,541 | 963 |
| Mon | 3.6 | 463 | 789 |
| Rakhine | 6.0 | 777 | 911 |
| Yangon | 15.0 | 1,927 | 1,065 |
| Shan | 10.6 | 1,368 | 778 |
| Ayeyarwady | 12.8 | 1,650 | 919 |
| Nay Pyi Taw | 2.3 | 300 | 756 |
| Total | 100.0 | 12,885 | 12,885 | the number of women interviewed ranges from 717 in Tanintharyi Region to 1,065 in Yangon Region. The number of interviews is sufficient to get reliable results in each district.

With this distribution of interviews, some regions/states are overrepresented and some regions/states are underrepresented. For example, the population in Yangon Region is about $15 \%$ of the population in Myanmar, while Kayah State's population contributes less than $1 \%$ of the population in Myanmar. But as the blue column shows, the number of women interviewed in Yangon Region accounts for only about $8 \%$ of the total sample of women interviewed $(1,065 / 12,885)$ and the number of women interviewed in Kayah State accounts $6 \%$ of the total sample of women interviewed $(757 / 12,885)$. This unweighted distribution of women does not accurately represent the population.

In order to get statistics that are representative of Myanmar, the distribution of the women in the sample needs to be weighted (or mathematically adjusted) such that it resembles the true distribution in the country. Women from a small state, like Kayah, should only contribute a small amount to the national total. Women from a large region, like Yangon, should contribute much more. Therefore, DHS statisticians mathematically calculate a "weight" which is used to adjust the number of women from each state/region so that each state/region's contribution to the total is proportional to the actual population of the state/region. The numbers in the purple column (2) represent the "weighted" values. The weighted values can be smaller or larger than the unweighted values at state/regional level. The total national sample size of 12,885 women has not changed after weighting, but the distribution of the women in the states/regions has been changed to represent their contribution to the total population size.

How do statisticians weight each category? They take into account the probability that a woman was selected in the sample. If you were to compare the pink column (3) to the actual population distribution of Myanmar, you would see that women in each region/state are contributing to the total sample with the same weight that they contribute to the population of the country. The weighted number of women in the
survey now accurately represents the proportion of women who live in Yangon Region and the proportion of women who live in Kayah State.

With sampling and weighting, it is possible to interview enough women to provide reliable statistics at national and regional/state levels. In general, only the weighted numbers are shown in each of the MDHS tables, so don't be surprised if these numbers seem low: they may actually represent a larger number of women interviewed.

## CONTRIBUTORS TO THE REPORT

Dr. Thet Thet Mu, Director, Health Management Information Systems, Ministry of Health and Sports
Dr. Yin Nyein Htut, Medical Officer, Occupational and Environmental Health, Ministry of Health and Sports

Dr. Nan Naing Naing Shein, Deputy Director, Noncommunicable Disease Program
Dr. Thida, Deputy Director, Department of Medical Research, Pyin Oo Lwin
Daw Kay Thi Aung, Staff Officer, Planning Department
Daw Myo Thandar, Staff Officer, Department of Population
Dr. Hnin Hnin Lwin, Deputy Director, Maternal and Reproductive Health, Ministry of Health and Sports Daw Thin Thin Kyu, Assistant Director, Central Statistical Organization

Dr. Nyan Hein, Medical Officer, Maternal and Reproductive Health, Ministry of Health and Sports
Dr. Tin Tun Win, Medical Officer, Expanded Program on Immunization, Ministry of Health and Sports
Dr. Khine Mar Zaw, Deputy Director, National Nutrition Center, Ministry of Health and Sports

Dr. Tint Wai, Team Leader, Malaria Program, Ministry of Health and Sports
Dr. Kyaw Zin Linn, Team Leader, National AIDS Program, Pyin Oo Lwin

Dr. Ei Shwe Sin Win, Assistant Director, Health Management Information Systems, Ministry of Health and Sports

Dr. Zaw Myo Aung, Assistant Director, Child Health Development
Dr. Kyaw Thu Soe, Research Officer, Department of Medical Research, Pyin Oo Lwin
Dr. Lwin Lwin Aung, Assistant Director, Health Management Information Systems, Ministry of Health and Sports

Daw Ei Pyae Win, Staff Officer, Ministry of Education

## ACRONYMS AND ABBREVIATIONS

| ACT | artemisinin-based combination therapy |
| :---: | :---: |
| AIDS | acquired immunodeficiency syndrome |
| AMW | auxiliary mid-wives |
| ANC | antenatal care |
| API | annual parasite incidence |
| ARI | acute respiratory infection |
| ART | antiretroviral therapy |
| ASFR | age-specific fertility rate |
| BCG | Bacille-Calmette-Guerin vaccine against tuberculosis |
| BMI | body mass index |
| CAFE | computer-assisted field editing |
| CCM | community case management |
| CHW | community health worker |
| CSG | community-based support group |
| DHS | Demographic and Health Survey |
| DPT | Diphtheria, pertussis, and tetanus vaccine |
| EA | enumeration area |
| EPI | Expanded Program on Immunization |
| F-IMNCI | facility-based integrated management of neonatal and childhood illnesses |
| GAR | gross attendance ratio |
| GFR | general fertility rate |
| GPI | gender parity index |
| HIV | human immunodeficiency virus |
| HMIS | health management information system |
| ICD | International Classification of Diseases |
| IMNCI | integrated management of neonatal and childhood illnesses |
| ITN | insecticide-treated net |
| IU | international unit |
| IUD | intrauterine device |
| IYCF | infant and young child feeding |
| LAM | lactational amenorrhea method |
| LHV | lady health visitor |
| LLIN | long-lasting insecticide-treated net |
| LPG | liquid petroleum gas |
| MARC | Myanmar Artemisinin Resistance Containment |
| MCH | maternal and child health |
| 3MDG | Three Millennium Development Goal Fund |
| MDHS | Myanmar Demographic and Health Survey |
| MICS | Multiple Indicators Cluster Survey |


| MR | measles and rubella |
| :---: | :---: |
| MoHS | Ministry of Health and Sports |
| MTCT | mother-to-child transmission |
| MUAC | mid-upper-arm circumference |
| NAR | net attendance ratio |
| NGO | nongovernmental organization |
| NN | neonatal mortality |
| OPV | oral polio vaccine |
| ORS | oral rehydration salts |
| ORT | oral rehydration therapy |
| PCV | pneumococcal conjugate vaccine |
| PNN | postneonatal mortality |
| PPS | probability proportional to size |
| PRM | pregnancy-related mortality |
| PSU | primary sampling unit |
| RHC | rural health center |
| RHF | recommended homemade fluids |
| SD | standard deviation |
| STI | sexually transmitted infection |
| TB | tuberculosis |
| TFR | total fertility rate |
| UHC | urban health center |
| UNAIDS | Joint United Nations Programme on HIV/AIDS |
| UNICEF | United Nations Children's Fund |
| USAID | United States Agency for International Development |
| VAD | vitamin A deficiency |
| VIP | ventilated improved pit |
| WHO | World Health Organization |
| $\mathrm{ZnSO}_{4}$ | zinc sulphate |

## MYANMAR



## INTRODUCTION AND SURVEY METHODOLOGY

TThe 2015-16 Myanmar Demographic and Health Survey (2015-16 MDHS) is the first Demographic and Health Survey to be conducted in Myanmar. The survey was implemented by the Ministry of Health and Sports (MoHS), and data collection took place from December 7, 2015, to July 7, 2016. Funding was provided by the United States Agency for International Development (USAID) and the Three Millennium Development Goal Fund (3MDG). ICF provided technical assistance through The DHS Program.

### 1.1 Survey Objectives

The primary objective of the 2015-16 MDHS was to provide up-to-date estimates of basic demographic and health indicators. Specifically, the survey collected information on fertility levels, marital status, fertility preferences, awareness and use of family planning methods, breastfeeding practices, nutrition, mother and child mortality and health, HIV/AIDS and other sexually transmitted infections (STIs), and other health-related issues, such as smoking and knowledge of tuberculosis.

The information collected through the 2015-16 MDHS is intended to assist policy makers and program managers in evaluating and designing programs and strategies for improving the health of the country's population. Moreover, this survey has come at a beneficial time for Myanmar, as the results will be used to develop the next 5-year National Health Plan (2017-2021) and to update the national comprehensive development plan.

### 1.2 Sample Design

The sampling frame consisted of 76,990 primary sampling units (PSUs) across the country. A PSU is either a census enumeration area (EA) or a ward or village tract in a sensitive area not enumerated during the census. Each PSU had cartographic materials that delineated its geographic location, boundaries, main access points, and landmarks. The sampling frame contained information about each PSU's administrative subordinations (state or region and district), the type of residence (urban or rural), and the estimated number of residential households. The sampling frame excluded institutional populations, such as persons in hotels, barracks, and prisons, but included those from internally-displaced population camps.

A master sample was created under the aegis of the Department of Population within the Ministry of Labor, Immigration and Population. The sample was based on the 2014 census frame, which is used to coordinate household-based surveys conducted in Myanmar, including the current 2015-16 MDHS. The master sample is a large, nationally representative sample consisting of 4,000 PSUs drawn from the entire census frame; these can be used for sub-selecting multi-stage household-based survey samples. The master sample is large enough to provide design flexibility for the various household-based surveys in Myanmar. The master sample is a stratified sample, selected with probability proportional to size (PPS). Stratification is achieved by separating each state or region into urban and rural areas, each of which formed a separate sampling stratum. In total, 30 sampling strata were created. Samples were selected independently in each sampling stratum. Implicit stratification and proportional allocation were achieved at each of the lower administrative unit levels. This was done before sample selection by sorting the sampling frame within the explicit stratum, according to administrative unit, and by using a PPS selection procedure.

The 2015-16 MDHS followed a stratified two-stage sample design and was intended to allow estimates of key indicators at the national level, in urban and rural areas, and for each of the seven States and eight Regions of Myanmar. The first stage involved selecting sample points (clusters) consisting of EAs or ward/village tracts. A total of 442 clusters (123 urban and 319 rural) were selected from the master sample.

At the second stage, a fixed number of 30 households was selected from each of the selected clusters (a total of 13,260 households), using equal probability systematic sampling. For the clusters, which were completely enumerated during the population census, the census household listings were taken as the base and updated in the field by the household listing teams. These updated lists were used for selecting the sample households. For the clusters that were not enumerated or partially enumerated during the census, an independent household listing operation was carried out. Because of the non-proportional sample allocation, the sample was not a self-weighting sample. Weighting factors had to be calculated, added to the data file, and applied so that results are representative at the national as well as regional level.

All women age 15-49 who were either permanent residents of the selected households or visitors who stayed in the households the night before the survey were eligible to be interviewed. In half of the selected households (every second household), all men age 15-49 who were either residents or visitors who stayed in the household the night before the survey were eligible to be interviewed.

During the course of the fieldwork, 4 clusters were identified as insecure and were replaced with other clusters in the vicinity. In addition, 1 urban cluster had to be dropped due to worsening security. Overall, the survey was successfully carried out in 441 clusters.

### 1.3 Questionnaires

Three sets of questionnaires were used in the 2015-16 MDHS: a Household Questionnaire, a Woman's Questionnaire, and a Man's Questionnaire. These questionnaires, developed for the worldwide DHS program, were revised to accord with Myanmar culture as well as to reflect some country-specific health issues. A questionnaire design workshop was conducted with multiple stakeholders from MoHS and other related ministries, UN agencies, donor groups, and local and international nongovernmental organizations. The final draft was approved by the MDHS Technical Committee, translated into Myanmar, and back translated to English. The survey protocol was reviewed and approved by the Ethics Review Committee on Medical Research including Human Subjects in the Department of Medical Research, Ministry of Health and Sports. Similarly, the survey protocol was approved by the ICF Institutional Review Board.

The Household Questionnaire listed all usual household members and any visitors who stayed in the household the night before the survey, along with basic information on their age, sex, education, relationship to the head of the household, marital status, and, for children under age 18 , survival status of the parents. Data on age and sex were used to identify women and men eligible for individual interviews. The Household Questionnaire also collected information on the household's dwelling characteristics, such as water source, toilet facilities, fuel use, and flooring materials, and on possessions, such as durable goods and mosquito nets. In addition, a small sample of salt was requested from each household and was tested for iodine content using a rapid test kit. Measurements of height, weight, and mid-upper arm circumference (MUAC) were taken, and results of blood testing for anemia were entered.

The Woman's Questionnaire was used to collect information from all women age 15-49. These women were asked questions on the following topics:

- Background characteristics (including age, education, and media exposure)
- Complete birth history and child mortality
- Knowledge and use of family planning methods
- Fertility preferences
- Antenatal, delivery, and postnatal care
- Breastfeeding and infant feeding practices
- Vaccinations and childhood illnesses
- Women's work and husbands' background characteristics
- Knowledge, awareness, and behavior regarding HIV/AIDS and other sexually transmitted infections (STIs)
- Adult mortality, including maternal mortality
- Knowledge, attitudes, and behavior related to other health issues (e.g., tuberculosis)
- Domestic violence (questions asked of one woman per household in the subsample of households selected for the male survey)

The Man's Questionnaire was administered to all men age 15-49 in half of the selected households. The questionnaire was similar to the Woman's Questionnaire but shorter because it did not contain the complete birth history, sections on maternal and child health, or the section on domestic violence.

### 1.4 Anthropometry, and Anemia Testing

The 2015-16 MDHS incorporated several "biomarkers": anthropometry, including mid-upper-arm circumference measurement, and anemia testing.

Anthropometry. Height and weight measurements were recorded for children age 0-59 months and women age 15-49. In addition, mid-upper-arm circumference (MUAC) was recorded for children age 0-59 months. Measurements were taken using measuring boards specially made by Shorr Productions for use in survey settings and lightweight SECA scales with digital screens.

Anemia testing. Blood specimens for anemia testing were collected from women age 15-49 who voluntarily consented to be tested and from all children age 6-59 months for whom consent was obtained from their parents or the adult responsible for the children. Blood samples were drawn from a drop of blood taken from a finger prick (or a heel prick in the case of children age 6-11 months) and collected in a microcuvette. Hemoglobin analysis was carried out on site using a battery-operated portable HemoCue analyzer. Results were provided verbally and in writing. Parents/guardians of children with a hemoglobin level under $7 \mathrm{~g} / \mathrm{dl}$ were instructed to take the child to a health facility for follow-up care. Likewise, nonpregnant women and pregnant women were referred for follow-up care if their hemoglobin levels were below $7 \mathrm{~g} / \mathrm{dl}$ and $9 \mathrm{~g} / \mathrm{dl}$, respectively. All households in which anthropometry and anemia testing were conducted were given a brochure explaining the causes and prevention of anemia.

### 1.5 Training of Trainers and Pretest

The training of trainers was conducted from October 18 to November 3, 2014, for nine master trainers from the Department of Public Health of MoHS. The purpose of the training was to familiarize the participants with some key components of the Demographic and Health Survey (DHS), as it was the first such survey in the country. The DHS Program survey manager facilitated the sessions, highlighting the concept of adult learning principles and guidelines on conducting effective training of field staff.

The training focused on key components like probing for age, types of interview techniques, and procedures for completing the MDHS questionnaires; filling out a contraceptive calendar; completing the vaccination section; and standardization procedures for anthropometry. The participants worked in groups to develop teach-backs on these topics using various training techniques, for example, slide presentation, use of flip charts, interactive question-and-answer session, case study, and role play. They were encouraged to develop participatory methods for the training. These participants were trained to be involved during the pretest, lead the sessions during the main training, and also monitor the fieldwork of the survey.

Over a 3-week period in January 2015, 19 women and 3 men participated in a training to pretest the MDHS survey protocol. Most of the participants were staff of the various divisions of the Department of

Public Health such as Health Information, HIV, TB, and Maternal and Reproductive Health. One representative from the Central Statistical Organization also participated. Twelve days of classroom training were provided at the training hall of the MoHS. The training was led by The DHS Program staff, and supported by the in-country MDHS core team that had members who participated in the training of trainers. Further, resource persons from the Child Health Department, Expanded Immunization Program, and Maternal and Reproductive Health Department of MoHS attended the sessions to provide technical background on topics such as family planning, reproductive health, child health, and nutrition.

The fieldwork for the pretest was carried out in one urban and two rural locations of Mandalay, using the Myanmar language questionnaires. Following the field practice, a debriefing session was held with the pretest field staff, and modifications to the questionnaires were made based on lessons drawn from the exercise.

### 1.6 Training of Field Staff

Fourteen trainers, who were previously taught during the training of trainers session in October/November 2014 and in the pretest training in January 2015, participated in a 5-day refresher training held from September 14-18, 2015, which was conducted in preparation for the main training. Because the main training was carried out 8 months after the pretest, a refresher course for the trainers was held so that they could facilitate the main training efficiently.

For the main fieldwork, the MoHS recruited 148 people, including 108 candidates from the government and 40 candidates from the nongovernment sector, which included the Central Statistical Organization, the Health Assistants Association, and various ethnic group associations from Kachin State, Kayin State, and Shan State (Pao and Danu). They served as supervisors, field editors, interviewers, and reserve interviewers. The field staff main training took place from September 28 to October 23, 2015, at the Shwe Pyi Taw Hotel in Nay Pyi Taw.

The main fieldwork training was led by the master trainers of the MoHS and by The DHS Program trainers. The training course consisted of instructions regarding interviewing techniques and field procedures, a detailed review of questionnaire content, and instruction on how to administer the paper questionnaires. Also taught were measuring height and weight, anemia testing of eligible women and children, and computer-assisted field editing (CAFE) procedures. The sessions included discussion of concepts, procedures, and methodology of conducting the survey. Participants were guided through the questionnaires. Further, resource persons from the MoHS and UNICEF attended the sessions to provide technical advice. The master trainers used various techniques they had learned to facilitate the training sessions. These included presentations, lectures, hands-on exercises, mock interviews, role plays, group work, and quizzes. In-class exercises included probing for age, checking age consistency, filling out vaccination dates, completing the reproductive calendar, and practicing interviews. The trainees were taken for field practice in nonsampled areas near the training site, where they had an opportunity to implement the survey in a real world situation. Additional practice for anemia testing among children was carried out in the Outpatient Department of the General Hospital run under the aegis of the MoHS.

Participants were evaluated through in-class exercises, quizzes, and observations made during field practice. Ultimately, 19 supervisors and 19 field editors were identified based on their performance. Similarly, 110 participants were selected to serve as interviewers; some were specially recruited to carry out fieldwork in sensitive areas in Shan and Rakhine. The supervisors received additional training in data quality control procedures, fieldwork coordination, and management, while the field editors received extra training on editing the questionnaires.

### 1.7 FieLDWORK

Although the training of the field staff was completed on October 23, 2015, there was no permission to carry out the field practice or launch the fieldwork because of the uncertain outcome of the upcoming
general election. The election was held peacefully on November 8, 2015. After approval for conducting the fieldwork was received, a refresher training was carried out on November 30 in three locations: Yangon, Mawlamyine, and Mandalay. A field practice was then held for 2 days with review sessions conducted in the end. The fieldwork was launched in these three locations under close supervision on December 7, 2015.

Data collection was carried out by 19 field teams, each consisting of one team supervisor, one field editor, three to four female interviewers, and one male interviewer. However, the team composition had to be adjusted during the different phases of the fieldwork operation. Data collection took place from December 7, 2015, through July 7, 2016, although most of the teams completed the fieldwork by April 2015. The extension of fieldwork in some states and regions reflected sensitivity toward ethnic groups and occurred in non-state-controlled areas where additional advocacy strategies had to be implemented. Karen Department Health and Welfare facilitated the data collection in some enumeration areas of Kayin State. The Wa Health Department and Health Poverty Action also supported data collection in two enumeration areas from Wa Special Region. Despite substantial challenges in the field, the MDHS field teams successfully completed the fieldwork.

Travel plans for data collection by the teams were shared with the central health office and state and regional offices, including local administrative offices. Each team had to inform the MDHS core team as well as the respective state and regional public health departments of their fieldwork's location and progress.

Field supervision was carried out by the state and regional public health directors and officers. A standard supervisory protocol was developed to monitor coverage, and an orientation was conducted by the MDHS team. Technical monitoring was carried out by the MDHS core team and the master trainers. In addition, field supervision visits were conducted by the Deputy Health Minister, two Deputy Survey Managers, the DHS resident advisor from ICF, and other members of the MDHS Technical Committee. The DHS Program survey manager from ICF conducted field monitoring at different stages of field data collection. Additionally, a mechanism was developed to generate weekly field check tables to monitor the data quality, and immediate feedback was provided to the field teams.

### 1.8 Data Processing

The 2015-16 MDHS used computer-assisted field editing (CAFE) procedures with tablet computers. Thus, data processing began simultaneously with the fieldwork. All completed questionnaires were entered into the tablets while in the field by the field editors after they edited them on paper. Entries were checked by the supervisors before the questionnaires were dispatched to the data processing center at the MoHS central office in Nay Pyi Taw. These completed questionnaires were reviewed and re-entered by 13 data processing personnel specially trained for this task. All data were thus entered twice ( 100 percent verification), once in the field by the field editors and then again in the data processing center in Nay Pyi Taw. Data were entered using the CSPro computer package. The operation included secondary editing, using CSPro software, to resolve computer-identified inconsistencies and to code open-ended questions. The concurrent processing of the data offered a distinct advantage, because it maximized the likelihood of the data being error-free and accurate. Moreover, the double entry of data enabled easy comparison and identification of errors and inconsistencies. Inconsistencies were resolved by tallying with the paper questionnaire entries.

The secondary editing was implemented by four editors and was completed in the second week of July 2016. The final cleaning of the data set was carried out by the DHS Program data processing specialist by the end of July 2016.

### 1.9 Response Rates

Table 1.1 shows the response rates for household and individual interviews. The total number of households selected was 13,238 , of which 12,780 households were occupied. Of those occupied, 12,500 households were interviewed, yielding a $98 \%$ response rate.

In the interviewed households, 13,454 women were identified as eligible for the individual Woman's Questionnaire. Interviews were successfully completed with 12,885 women, yielding a $96 \%$ response rate. In the subsample of one-half of the households, 5,218 men were identified as eligible for individual interview. Interviews were completed for 4,737 men, with a $91 \%$ response rate.

The response rates are lower in the urban areas than in the rural areas. The difference is slightly more noticeable among men than women, probably reflecting the fact that men in urban areas are often away from their households for employment.

| Number of households, number of interviews, and response rates, according to residence (unweighted), Myanmar DHS 2015-16 |  |  |  |
| :---: | :---: | :---: | :---: |
| Result | Residence |  | Total |
|  | Urban | Rural |  |
| Household interviews |  |  |  |
| Households selected | 3,672 | 9,566 | 13,238 |
| Households occupied | 3,524 | 9,256 | 12,780 |
| Households interviewed | 3,399 | 9,101 | 12,500 |
| Household response rate ${ }^{1}$ | 96.5 | 98.3 | 97.8 |
| Interviews with women age 15-49 |  |  |  |
| Number of eligible women | 4,039 | 9,415 | 13,454 |
| Number of eligible women interviewed | 3,785 | 9,100 | 12,885 |
| Eligible women response rate ${ }^{2}$ | 93.7 | 96.7 | 95.8 |
| Interviews with men age 15-49 |  |  |  |
| Number of eligible men | 1,512 | 3,706 | 5,218 |
| Number of eligible men interviewed | 1,321 | 3,416 | 4,737 |
| Eligible men response rate ${ }^{2}$ | 87.4 | 92.2 | 90.8 |

${ }^{1}$ Households interviewed/households occupied
${ }^{2}$ Respondents interviewed/eligible respondents

## Key Findings

- Drinking water: Eighty percent of all households have access to an improved drinking water source, as do 89\% of urban households and $77 \%$ of rural households.
- Sanitation: Almost half of all households have an improved sanitation facility; however, less than $1 \%$ have a flush toilet linked to a sewer system.
- Household population and composition: Twenty-nine percent of the Myanmar population is under age 15. The sex ratio in Myanmar is 85 men per 100 women.
- Indoor smoke: Seventy-seven percent of all households use solid fuel for cooking. Forty-five percent of households are exposed daily to secondhand smoke.
- Birth registration: Eighty-one percent of children under age 5 have had their births registered.
- Orphans: Seventy-five percent of children under age 18 live with both parents, $8 \%$ are orphans, and $9 \%$ do not live with either parent.
- School attendance: The net attendance rate decreases from $83 \%$ in primary school to $60 \%$ in secondary school. There is no difference by gender in school attendance in primary school, but more girls than boys attend secondary school.

Information on the socioeconomic characteristics of the household population in the 2015-16 MDHS provides context to interpret demographic and health indicators and can furnish an approximate indication of the representativeness of the survey. In addition, this information sheds light on the living conditions of the population.

This chapter presents information on source of drinking water, sanitation, exposure to smoke inside the home, wealth, handwashing, household population composition, educational attainment, school attendance, birth registration, and family living arrangements.

### 2.1 Drinking Water Sources and Treatment

## Improved sources of drinking water

Include piped water, public taps, standpipes, tube wells, boreholes, protected dug wells and springs, rainwater, and bottled water
Sample: Households

Improved sources of water protect against outside contamination so that water is more likely to be safe to drink. In Myanmar, $80 \%$ of households have an improved source of drinking water, including $89 \%$ of households in urban areas and $77 \%$ in rural areas. One in five households has an unimproved source of drinking water (Figure 2.1). The most common improved source of drinking water in urban areas is bottled water ( $48 \%$ ), and in rural areas is a tubewell or borehole (33\%) (Table 2.1).

Thirty-seven percent of all households have drinking water on their premises, including $30 \%$ of urban households and $39 \%$ of rural households. Over half (56\%) of households in Myanmar must get their water off their premises and spend less than 30 minutes round-trip. Only $6 \%$ of households spend 30 minutes or longer getting water.

Figure 2.1 Household drinking water by residence

Percent distribution of households by source of drinking water


One in four households does not treat water to make it drinkable. Urban households are less likely to treat their drinking water ( $45 \%$ ) than rural households ( $19 \%$ ). This is likely because almost half of urban households use bottled water for drinking.

Straining through a cloth is the most common water treatment method, used by $56 \%$ of all households, followed by boiling ( $25 \%$ ). Overall $33 \%$ of households use an appropriate method to treat their drinking water.

### 2.2 SANITATION

## Improved toilet facilities

Include any non-shared toilet of the following types: flush/pour flush toilets to piped sewer systems, septic tanks, and pit latrines; ventilated improved pit (VIP) latrines; pit latrines with slabs; and composting toilets
Sample: Households

Use of improved toilet facilities, defined as nonshared facilities that prevent people from coming into contact with human waste, helps reduce the transmission of communicable diseases such as cholera and typhoid. Nearly half of households in Myanmar (48\%) have improved toilet facilities, including $65 \%$ in urban areas and $42 \%$ in rural areas (Table 2.2).

Eleven percent of households have no toilet facility, and rural households are more likely to lack a toilet facility than urban households ( $14 \%$ versus $1 \%$ )
(Figure 2.2). The most common type of toilet facility in rural areas is an open pit or a pit latrine without a slab ( $31 \%$ ). By contrast, a toilet that flushes to a pit latrine is the most common type of toilet in urban areas (37\%).

Figure 2.2 Household toilet facilities by residence


### 2.3 Exposure to Smoke inside the Home

Cooking with solid fuel and smoking of tobacco are the main sources of smoke inside the home. Exposure to smoke has potentially harmful health effects, particularly for young children, mothers, and the elderly who spend most of their time indoors.

In Myanmar, $62 \%$ of households cook inside their home, including $73 \%$ in urban areas and $57 \%$ in rural areas. Most households ( $77 \%$ ) use solid fuels for cooking, which can be harmful to health. Use of solid fuels is more common in rural households (90\%) than in urban households (39\%).

Wood is the most common type of fuel used in rural areas (77\%), while electricity (58\%) is the most common type of fuel in urban areas. Charcoal is also often used in urban households (23\% ) (Table 2.3).

Exposure to smoke from persons smoking tobacco inside the home is also high in Myanmar. In nearly half of the households ( $45 \%$ ), someone smokes daily inside the home, and in $6 \%$ of households someone smokes at least weekly inside the home. Persons living in rural households ( $48 \%$ ) are more likely to be exposed to secondhand smoke than persons living in urban households (36\%).

## Other Housing Characteristics

The survey also collected data on access to electricity, flooring materials, and the number of rooms used for sleeping.

Electrification in Myanmar is far from complete. Only $56 \%$ of households have electricity. Urban households are more likely to have access to electricity than rural households ( $92 \%$ versus $42 \%$ ).

Wood planks are the most common flooring material used in the country (39\%), and this material is more widely used in rural areas ( $41 \%$ ) than urban areas ( $35 \%$ ). Palm and bamboo is the second most common flooring material used in Myanmar.

Table 2.3 provides complete information about housing characteristics.

### 2.4 Household Wealth

## Wealth index

Households are given scores based on the number and kinds of consumer goods they own, ranging from a television to a bicycle or car, plus housing characteristics such as source of drinking water, toilet facilities, and flooring materials. These scores are derived using principal component analysis. National wealth quintiles are compiled by assigning the household score to each usual (de jure) household member, ranking each person in the household population by their score, and then dividing the distribution into five equal categories, each with $20 \%$ of the population.

## Sample: Households

More than half of the urban de jure population (56\%) belong to the wealthiest quintile, compared with only 7\% of the rural population (Figure 2.3). Twenty-six percent of the rural population is in the lowest quintile, compared with only $4 \%$ of the urban population.

Among states and regions, Yangon Region has the highest share of population in the wealthiest quintile ( $47 \%$ ) and the lowest in the lowest quintile ( $6 \%$ ), whereas, Rakhine State has the highest share of population in the lowest quintile (53\%) and the lowest in the highest quintile (4\%) (Table 2.5).

Table 2.5 also includes the Gini coefficient, a measure of the level of concentration of wealth, with 0 being an equal wealth distribution and 1 a totally unequal wealth distribution. The Gini coefficient of Myanmar is 0.27 , which suggests that wealth is fairly evenly distributed across the population.

## Household Durable Goods

Information about household effects, means of transportation, agricultural land, and farm animals is shown in Table 2.4. Seventy-three percent of households have mobile telephones. While almost all households in urban areas ( $93 \%$ ) have a mobile phone, only two-thirds of households in rural areas have one. Only $4 \%$ of households own a computer, $14 \%$ of urban households and $1 \%$ of rural households.

Half of households own a motorcycle or scooter for transportation, including 53\% in urban areas and 49\% in rural areas. Only $5 \%$ of households own a car or truck. Urban households are more likely than rural households to own a car or truck ( $12 \%$ versus $3 \%$ ).

Rural households are more likely to own agricultural land (51\%) than urban households (9\%).

### 2.5 Hand Washing

Handwashing is one of the most effective ways to prevent germs from spreading. In Myanmar, $84 \%$ of households have soap and water for washing hands, while $3 \%$ of households have no water, soap, or other cleansing agent on the premises (Table 2.6). This information is based on $94 \%$ of the households in which the place for handwashing was observed, making the data fairly representative.

## Patterns by background characteristics

- Ninety-five percent of urban households have soap and water available for washing hands, compared with $80 \%$ of rural households.
- Twelve percent of households in Kayin State have no water, soap, or other cleansing agent, followed by $10 \%$ of households in Kayah State.
- The availability of soap and water on the premises increases with wealth. Almost all the households in the wealthiest quintile have soap and water for handwashing on the premises, whereas in the lowest quintile only $67 \%$ of households do.


### 2.6 Household Population and Composition

## Household

A person or group of related or unrelated persons who live together in the same dwelling unit(s), who acknowledge one adult male or female as the head of the household, who share the same housekeeping arrangements, and who are considered a single unit.

## De facto population

All persons who stayed in the selected households the night before the interview (whether usual residents or visitors)

## De jure population

All persons who are usual residents of the selected households, whether or not they stayed in the household the night before the interview

The 2015-16 MDHS found a defacto population of 51,130 people in the 12,500 interviewed households. Forty-six percent of the total population is male and $54 \%$ is female, yielding a sex ratio of 85 males per 100 females. Twenty-nine percent of the population is under age 15 (Table 2.7 and Figure 2.4).

Women head $23 \%$ of households. Households headed by a woman are slightly more common in urban areas ( $27 \%$ ) than in rural areas (21\%). On average, households in Myanmar have 4.2 members. There is little difference in household size by urban-rural residence. Thirteen percent of households have one or more foster or orphan children under age 18 (Table 2.8).

Figure 2.4 Population Pyramid

Percent distribution of the household population


### 2.7 Birth Registration

## Registered birth

Child has a birth certificate or the birth is registered with the civil authority
Sample: De jure children under age 5

Birth registration helps ensure access to basic services, including immunizations, health care, and school enrollment at the appropriate age (UNICEF 2006). Eighty-one percent of children under age 5 have had their births registered; 74\% also have a birth certificate (Table 2.9).

Patterns by background characteristics

- Urban children are more likely to have their births registered than rural children ( $94 \%$ versus 78\%).
- Ninety-seven percent of children in the wealthiest quintile, but only $69 \%$ of children in the poorest quintile, have had their birth registered (Figure 2.5).
- Birth registration varies by states and regions. Children are most likely to have their births registered in Kayah State (96\%) and least likely in Rakhine State (45\%) (Figure 2.6).

Figure 2.5 Birth registration by household wealth
Percentage of de jure children under age 5 whose births are registered with the civil authorities


Figure 2.6 Birth registration by states and regions
Percentage of de jure children under age 5 whose births are registered with the civil authorities


### 2.8 Children’s Living Arrangements and Parental Survival

## Orphan

A child with one or both parents dead
Sample: Children under age 18

Seventy-five percent of children under age 18 live with both of their parents. Eight percent of children under age 18 in Myanmar are orphans, and $9 \%$ of children under age 18 do not live with either biological parent (Table 2.10).

## Patterns by background characteristics

- Orphanhood is more prevalent among children age 15-17 (14\%) than among children under age 2 (1\%).
- Rural children are more likely to live with both parents than urban children ( $77 \%$ versus $70 \%$ ).
- The highest proportion of orphaned children is in Kachin State (10\%), and the lowest proportion is in Chin State (5\%).


### 2.9 Education

### 2.9.1 Educational Attainment

## Median educational attainment

 Number of years of schooling completed by half of the population Sample: De facto household population age 6 and olderIn Myanmar, about one in five women and men age 6 and older have no education. A relatively high proportion of women and men have some secondary education or more: $36 \%$ of women and $41 \%$ of men. There is little difference by sex in the median years of education completed (4.2 versus 4.5) (Tables 2.11.1 and 2.11.2).

## Patterns by background characteristics

- Urban residents are much more likely to have completed secondary school than rural residents: among women in urban households, $22 \%$ have completed secondary school or have higher education compared with $4 \%$ of women in rural households. Men in urban areas are also more likely than men in rural areas ( $19 \%$ versus $4 \%$ ) to have completed secondary school.
- Educational attainment varies by states and regions. Forty-three percent of women and $40 \%$ of men in Shan State have no education; by contrast, only $10 \%$ of women and $8 \%$ of men in Yangon Region have no education.
- Educational attainment is associated with wealth. Thirty-four percent of women and $29 \%$ of men from the poorest households have never been to school, compared with only $10 \%$ of women and $9 \%$ of men from the wealthiest households.


### 2.9.2 School Attendance

## Net attendance ratio (NAR)

Percentage of the school-age population that attends primary or secondary school
Sample: Children age 5-9 for primary school NAR and children age 10-15 for secondary school NAR

Gross attendance ratio (GAR)
The total number of primary and secondary school students expressed as a percentage of the official primary and secondary school-age population
Sample: Children age 5-9 for primary school GAR and children age 10-15 for secondary school GAR

The net attendance ratio for primary school is $83 \%$, and there is little difference by sex of child. The NAR is much lower for secondary school. Only $60 \%$ of children age $10-15$ attend secondary school. The NAR for secondary school is slightly higher for girls (62\%) than for boys (58\%) (Table 2.12).

## Patterns by background characteristics

- Seventy-five percent of urban children age 10-15 attend secondary school compared with $56 \%$ of rural children. The primary school NAR does not differ much by urban-rural residence.
- Shan has the lowest NAR for both primary (72\%) and secondary (36\%) school. Mon has the highest NAR for primary school (89\%) and Yangon has the highest for secondary school (72\%).
- Children in the wealthiest quintile are more likely to attend school at appropriate ages than children in the poorest quintile. The primary school NAR varies from $89 \%$ in the highest quintile to $75 \%$ in the poorest quintile, and the secondary school NAR varies from $81 \%$ in the highest quintile to $37 \%$ in the lowest quintile (Table 2.12). The pattern is similar for girls and boys (Figure 2.7).


## Other Measures of School Attendance

The gross attendance ratio (GAR) and Gender Parity Index (GPI) are also shown in Table 2.12. A value of more than 100 percent for the GAR for primary school means that a significant number of primary school students are not of the official primary-school-age. In Myanmar, the primary school GAR is $109 \%$, and the secondary school GAR is $70 \%$.

A GPI of more than 1 means that more girls are attending school than boys. In Myanmar, the GPI is 0.99 in primary school, suggesting that boys and girls are equally likely to attend primary school; however, the GPI for secondary school is 1.07 , indicating that more girls than boys attend secondary school.

## List of Tables

For more information on household population and housing characteristics, see the following tables:

- Table 2.1 Household drinking water
- Table 2.2 Household sanitation facilities
- Table 2.3 Household characteristics
- Table 2.4 Household possessions
- Table 2.5 Wealth quintiles
- Table 2.6 Handwashing
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- Table 2.11.1 Educational attainment of the female household population
- Table 2.11.2 Educational attainment of the male household population
- Table 2.12 School attendance ratios

Table 2.1 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, Myanmar DHS 2015-16

| Characteristic | Households |  |  | Population |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Source of drinking water |  |  |  |  |  |  |
| Improved source | 89.2 | 76.9 | 80.2 | 89.5 | 77.0 | 80.4 |
| Piped into dwelling/yard plot | 8.1 | 5.7 | 6.3 | 8.4 | 6.1 | 6.7 |
| Public tap/standpipe | 3.2 | 3.1 | 3.2 | 3.0 | 3.0 | 3.0 |
| Tubewell/borehole | 15.7 | 32.7 | 28.1 | 16.1 | 32.5 | 28.1 |
| Protected dug well | 12.7 | 25.8 | 22.3 | 13.1 | 25.7 | 22.3 |
| Protected spring | 0.7 | 3.5 | 2.7 | 0.7 | 3.5 | 2.8 |
| Rain water | 0.7 | 2.4 | 2.0 | 0.5 | 2.5 | 1.9 |
| Bottled water | 48.1 | 3.8 | 15.5 | 47.7 | 3.6 | 15.5 |
| Non-improved source | 10.7 | 22.9 | 19.6 | 10.4 | 22.8 | 19.5 |
| Unprotected dug well | 4.0 | 10.2 | 8.5 | 3.9 | 10.5 | 8.8 |
| Unprotected spring | 0.5 | 2.5 | 1.9 | 0.5 | 2.6 | 2.0 |
| Tanker truck/cart with drum | 4.0 | 1.6 | 2.3 | 3.8 | 1.7 | 2.2 |
| Surface water | 2.2 | 8.6 | 6.9 | 2.2 | 8.0 | 6.4 |
| Other source | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Time to obtain drinking water (round trip) |  |  |  |  |  |  |
| Water on premises | 30.0 | 39.2 | 36.8 | 30.0 | 40.4 | 37.6 |
| Less than 30 minutes | 66.0 | 52.5 | 56.1 | 65.9 | 51.1 | 55.1 |
| 30 minutes or longer | 2.4 | 7.6 | 6.2 | 2.5 | 7.8 | 6.3 |
| Don't know/missing | 1.6 | 0.7 | 1.0 | 1.7 | 0.7 | 1.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Water treatment prior to drinking ${ }^{1}$ |  |  |  |  |  |  |
| Boiled | 23.8 | 25.6 | 25.1 | 22.6 | 25.1 | 24.4 |
| Bleach/chlorine added | 0.3 | 0.6 | 0.6 | 0.3 | 0.7 | 0.6 |
| Strained through cloth | 39.0 | 61.5 | 55.5 | 39.3 | 61.3 | 55.4 |
| Ceramic, sand or other filter | 6.6 | 9.5 | 8.7 | 7.3 | 9.0 | 8.6 |
| Let it stand and settle | 4.8 | 8.4 | 7.4 | 4.3 | 8.3 | 7.2 |
| Other | 1.3 | 1.4 | 1.4 | 1.1 | 1.3 | 1.3 |
| No treatment | 44.8 | 18.6 | 25.6 | 44.5 | 19.3 | 26.1 |
| Percentage using an appropriate treatment method ${ }^{2}$ | 29.0 | 34.1 | 32.7 | 28.2 | 33.3 | 31.9 |
| Number | 3,315 | 9,185 | 12,500 | 14,216 | 38,581 | 52,797 |

[^0] households used solar disinfection, the category not shown separately.

Table 2.2 Household sanitation facilities
Percent distribution of households and de jure population by type and location of toilet/latrine facilities, according to residence, Myanmar DHS 2015-16

| Type and location of toilet/latrine facility | Households |  |  | Population |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Improved, not shared facility |  |  |  |  |  |  |
| Flush/pour flush to piped sewer system | 0.7 | 0.1 | 0.3 | 0.7 | 0.1 | 0.3 |
| Flush/pour flush to septic tank | 15.7 | 2.3 | 5.9 | 15.7 | 2.3 | 6.0 |
| Flush/pour flush to pit latrine | 36.5 | 24.6 | 27.7 | 37.5 | 25.2 | 28.5 |
| Ventilated improved pit (VIP) latrine | 2.9 | 2.3 | 2.5 | 2.9 | 2.4 | 2.6 |
| Pit latrine with slab | 8.6 | 11.3 | 10.6 | 8.9 | 11.1 | 10.5 |
| Composting toilet | 0.1 | 1.6 | 1.2 | 0.1 | 1.7 | 1.2 |
| Total | 64.5 | 42.2 | 48.1 | 65.9 | 42.9 | 49.1 |
| Shared facility ${ }^{1}$ |  |  |  |  |  |  |
| Flush/pour flush to piped sewer system | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| Flush/pour flush to septic tank | 2.3 | 0.2 | 0.8 | 2.2 | 0.2 | 0.7 |
| Flush/pour flush to pit latrine | 7.1 | 5.1 | 5.6 | 6.4 | 4.7 | 5.1 |
| Ventilated improved pit (VIP) latrine | 0.6 | 0.7 | 0.7 | 0.5 | 0.7 | 0.6 |
| Pit latrine with slab | 2.0 | 2.8 | 2.6 | 1.9 | 2.3 | 2.2 |
| Composting toilet | 0.0 | 0.4 | 0.3 | 0.0 | 0.4 | 0.3 |
| Total | 12.2 | 9.2 | 10.0 | 11.0 | 8.2 | 9.0 |
| Unimproved facility |  |  |  |  |  |  |
| Flush/pour flush not to sewer/septic tank/pit latrine | 2.1 | 1.3 | 1.5 | 2.1 | 1.3 | 1.5 |
| Pit latrine without slab/open pit | 19.4 | 31.4 | 28.2 | 19.1 | 31.3 | 28.0 |
| Bucket | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 |
| Hanging toilet/hanging latrine | 0.4 | 1.5 | 1.2 | 0.5 | 1.7 | 1.3 |
| No facility/bush/field | 1.2 | 13.9 | 10.5 | 1.1 | 14.2 | 10.7 |
| Other | 0.3 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 |
| Total | 23.4 | 48.6 | 41.9 | 23.1 | 48.9 | 41.9 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 3,315 | 9,185 | 12,500 | 14,216 | 38,581 | 52,797 |

${ }^{1}$ Facilities that would be considered improved if they were not shared by two or more households

## Table 2.3 Household characteristics

Percent distribution of households by housing characteristics, percentage using solid fuel for cooking, and percent distribution by frequency of smoking in the home, according to residence, Myanmar DHS 2015-16

| Housing characteristic | Residence |  | Total |
| :---: | :---: | :---: | :---: |
|  | Urban | Rural |  |
| Electricity |  |  |  |
| Yes | 92.3 | 42.3 | 55.6 |
| No | 7.7 | 57.7 | 44.4 |
| Total | 100.0 | 100.0 | 100.0 |
| Flooring material |  |  |  |
| Earth/sand | 5.6 | 12.3 | 10.6 |
| Dung | 0.1 | 0.2 | 0.2 |
| Wood planks | 34.9 | 40.8 | 39.2 |
| Palm/bamboo | 5.4 | 22.0 | 17.6 |
| Parquet or polished wood | 19.3 | 13.8 | 15.3 |
| Vinyl or asphalt strips | 0.1 | 0.0 | 0.1 |
| Ceramic tiles | 3.1 | 0.4 | 1.1 |
| Cement | 30.6 | 10.2 | 15.6 |
| Carpet | 0.5 | 0.0 | 0.2 |
| Other | 0.3 | 0.1 | 0.2 |
| Total | 100.0 | 100.0 | 100.0 |
| Rooms used for sleeping |  |  |  |
| One | 41.8 | 52.3 | 49.5 |
| Two | 36.0 | 34.2 | 34.7 |
| Three or more | 20.5 | 11.6 | 14.0 |
| Missing | 1.8 | 1.8 | 1.8 |
| Total | 100.0 | 100.0 | 100.0 |
| Place for cooking ${ }^{1}$ |  |  |  |
| In the house | 73.0 | 57.4 | 61.5 |
| In a separate building | 15.6 | 28.9 | 25.4 |
| Outdoors | 10.4 | 13.2 | 12.5 |
| No food cooked in household | 0.9 | 0.5 | 0.6 |
| Total | 100.0 | 100.0 | 100.0 |
| Cooking fuel ${ }^{2}$ |  |  |  |
| Electricity | 57.7 | 9.5 | 22.3 |
| LPG/natural gas/biogas | 1.9 | 0.1 | 0.6 |
| Coal/lignite | 0.2 | 0.1 | 0.1 |
| Charcoal | 22.6 | 10.2 | 13.5 |
| Wood | 16.5 | 77.4 | 61.2 |
| Straw/shrubs/grass | 0.0 | 0.2 | 0.2 |
| Agricultural crop | 0.1 | 1.9 | 1.4 |
| Animal dung | 0.0 | 0.2 | 0.1 |
| No food cooked in household | 0.9 | 0.5 | 0.6 |
| Total | 100.0 | 100.0 | 100.0 |
| Percentage using solid fuel for cooking ${ }^{3}$ | 39.4 | 89.9 | 76.5 |
| Frequency of smoking in the home |  |  |  |
| Daily | 36.0 | 48.4 | 45.1 |
| Weekly | 6.3 | 5.3 | 5.5 |
| Monthly | 1.1 | 1.4 | 1.3 |
| Less than monthly | 3.6 | 3.3 | 3.4 |
| Never | 53.0 | 41.7 | 44.7 |
| Total | 100.0 | 100.0 | 100.0 |
| Number | 3,315 | 9,185 | 12,500 |

LPG = Liquefied petroleum gas
${ }^{1}$ As only one household used other place for cooking, it is not shown separately.
${ }^{2}$ As only four households used other type of cooking fuel, it is not shown separately.
${ }_{3}$ Includes coal/lignite, charcoal, wood, straw/shrubs/grass, agricultural crops, and animal dung

## Table 2.4 Household possessions

Percentage of households possessing various household effects, means of transportation, and ownership of agricultural land and livestock/farm animals by residence, Myanmar DHS 2015-16

|  | Residence |  |
| :--- | :--- | :--- |
| Possession | Urban $\quad$ Rural |  |


| Household effects |  |  |  |
| :--- | ---: | ---: | ---: |
| Radio | 30.6 | 35.1 | 33.9 |
| Television | 85.3 | 46.9 | 57.1 |
| Mobile telephone | 92.7 | 65.9 | 73.0 |
| Non-mobile telephone | 12.0 | 5.1 | 6.9 |
| Refrigerator | 4.8 | 5.5 | 16.0 |
| Table | 79.7 | 66.5 | 70.0 |
| Chair | 80.2 | 54.2 | 61.1 |
| Sofa | 8.5 | 1.4 | 3.3 |
| Bed | 59.7 | 35.2 | 41.7 |
| Cupboard | 81.6 | 58.1 | 64.3 |
| Electric fan | 67.0 | 12.5 | 27.0 |
| Air conditioner | 12.4 | 0.5 | 3.7 |
| Sewing machine | 23.2 | 12.0 | 15.0 |
| Computer | 13.7 | 0.8 | 4.2 |
| Means of transport |  |  |  |
| Bicycle | 54.9 | 37.7 | 42.2 |
| Animal drawn cart | 1.0 | 21.4 | 16.0 |
| Motorcycle/scooter | 52.9 | 49.2 | 50.2 |
| Tuk Tuk/htawlargyi (trailer) | 2.0 | 5.1 | 4.3 |
| Car/truck | 12.2 | 2.6 | 5.1 |
| Boat with a motor | 0.2 | 1.1 | 0.9 |
| Boat without a motor | 1.0 | 7.5 | 5.8 |
| Ownership of agricultural land | 9.2 | 50.6 | 39.6 |
| Ownership of farm animals ${ }^{1}$ | 13.4 | 64.4 | 50.9 |
| Number | 3,315 | 9,185 | 12,500 |

${ }^{1}$ Cattle, cows, bulls, horses, donkeys/mules, goats, sheep, pigs, chickens, or ducks

Table 2.5 Wealth quintiles
Percent distribution of the de jure population by wealth quintiles, and the Gini Coefficient, according to residence and region, Myanmar DHS 2015-16

| Residence/States or Regions | Wealth quintile |  |  |  |  | Total | Number of persons | Gini coefficient |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Lowest | Second | Middle | Fourth | Highest |  |  |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 3.6 | 5.4 | 10.0 | 25.5 | 55.6 | 100.0 | 14,216 | 0.17 |
| Rural | 26.1 | 25.4 | 23.7 | 18.0 | 6.9 | 100.0 | 38,581 | 0.26 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | 13.2 | 23.0 | 22.0 | 25.1 | 16.7 | 100.0 | 1,619 | 0.29 |
| Kayah | 11.3 | 21.3 | 25.2 | 26.5 | 15.7 | 100.0 | 285 | 0.26 |
| Kayin | 24.3 | 18.5 | 17.1 | 21.5 | 18.5 | 100.0 | 1,510 | 0.31 |
| Chin | 21.3 | 29.4 | 27.6 | 13.7 | 8.0 | 100.0 | 506 | 0.29 |
| Sagaing | 8.0 | 22.4 | 28.0 | 27.9 | 13.7 | 100.0 | 5,856 | 0.20 |
| Tanintharyi | 24.9 | 22.3 | 17.8 | 20.6 | 14.4 | 100.0 | 1,349 | 0.32 |
| Bago | 18.9 | 23.6 | 23.4 | 20.1 | 14.0 | 100.0 | 4,929 | 0.30 |
| Magway | 18.5 | 23.4 | 27.4 | 18.4 | 12.3 | 100.0 | 4,179 | 0.24 |
| Mandalay | 6.9 | 17.8 | 23.3 | 24.3 | 27.7 | 100.0 | 5,986 | 0.23 |
| Mon | 20.2 | 15.7 | 21.0 | 21.2 | 21.9 | 100.0 | 2,004 | 0.30 |
| Rakhine | 52.8 | 21.8 | 12.9 | 8.2 | 4.2 | 100.0 | 3,377 | 0.35 |
| Yangon | 6.0 | 9.1 | 14.9 | 23.1 | 46.9 | 100.0 | 7,066 | 0.22 |
| Shan | 18.5 | 20.4 | 15.2 | 20.8 | 25.0 | 100.0 | 5,924 | 0.28 |
| Ayeyarwady | 41.8 | 24.6 | 15.8 | 11.4 | 6.4 | 100.0 | 7,005 | 0.32 |
| Nay Pyi Taw | 22.8 | 20.7 | 19.4 | 16.3 | 20.7 | 100.0 | 1,202 | 0.38 |
| Total | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 100.0 | 52,797 | 0.27 |

Table 2.6 Handwashing
Percentage of households in which the place most often used for washing hands was observed, and among households in which the place for handwashing was observed, percent distribution by availability of water, soap, and other cleansing agents, Myanmar DHS 2015-16

| Background characteristic | Percentage of <br> households in which place for washing hands was observed | Number of households | Among households where place for handwashing was observed, percentage with: |  |  |  |  |  |  | Number of households with place for handwashing observed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Soap and water ${ }^{1}$ | Water and cleansing agent ${ }^{2}$ other than soap only | Water only | Soap but no water $^{3}$ | Cleansing agent other than soap only ${ }^{2}$ | No water, no soap, no other cleansing agent | Total |  |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 97.2 | 3,315 | 94.6 | 0.3 | 2.4 | 1.5 | 0.1 | 1.1 | 100.0 | 3,221 |
| Rural | 92.8 | 9,185 | 79.5 | 0.6 | 12.1 | 3.6 | 0.1 | 4.1 | 100.0 | 8,520 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |
| Kachin | 91.0 | 365 | 85.6 | 1.4 | 4.1 | 5.0 | 0.6 | 3.3 | 100.0 | 332 |
| Kayah | 88.0 | 65 | 63.2 | 0.1 | 23.3 | 3.5 | 0.0 | 9.8 | 100.0 | 57 |
| Kayin | 94.6 | 335 | 74.3 | 1.6 | 6.6 | 5.8 | 0.1 | 11.6 | 100.0 | 317 |
| Chin | 98.6 | 105 | 73.1 | 2.9 | 21.1 | 1.5 | 0.1 | 1.2 | 100.0 | 104 |
| Sagaing | 99.6 | 1,295 | 82.0 | 0.9 | 13.3 | 2.4 | 0.0 | 1.4 | 100.0 | 1,289 |
| Tanintharyi | 92.0 | 306 | 91.0 | 0.6 | 5.2 | 2.0 | 0.0 | 1.2 | 100.0 | 281 |
| Bago | 89.5 | 1,269 | 73.8 | 0.7 | 11.1 | 8.7 | 0.4 | 5.3 | 100.0 | 1,135 |
| Magway | 99.3 | 1,062 | 82.9 | 0.2 | 13.8 | 0.6 | 0.0 | 2.6 | 100.0 | 1,054 |
| Mandalay | 95.2 | 1,461 | 84.8 | 0.4 | 7.1 | 3.4 | 0.2 | 4.0 | 100.0 | 1,390 |
| Mon | 97.7 | 466 | 89.7 | 1.3 | 7.7 | 0.7 | 0.0 | 0.7 | 100.0 | 456 |
| Rakhine | 77.7 | 695 | 77.1 | 0.6 | 18.9 | 1.3 | 0.0 | 2.1 | 100.0 | 540 |
| Yangon | 99.3 | 1,730 | 98.3 | 0.1 | 1.1 | 0.2 | 0.0 | 0.2 | 100.0 | 1,718 |
| Shan | 87.1 | 1,339 | 77.8 | 0.0 | 10.8 | 4.9 | 0.1 | 6.3 | 100.0 | 1,167 |
| Ayeyarwady | 94.4 | 1,705 | 82.3 | 0.2 | 11.0 | 2.6 | 0.0 | 3.9 | 100.0 | 1,610 |
| Nay Pyi Taw | 95.6 | 303 | 81.7 | 1.0 | 7.4 | 4.8 | 0.7 | 4.6 | 100.0 | 290 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 85.2 | 2,583 | 66.7 | 0.8 | 17.8 | 5.5 | 0.2 | 9.0 | 100.0 | 2,202 |
| Second | 92.3 | 2,593 | 76.3 | 0.8 | 13.8 | 4.2 | 0.1 | 4.6 | 100.0 | 2,394 |
| Middle | 96.7 | 2,503 | 85.4 | 0.4 | 8.7 | 3.0 | 0.2 | 2.4 | 100.0 | 2,420 |
| Fourth | 97.6 | 2,424 | 90.9 | 0.3 | 6.1 | 1.9 | 0.1 | 0.7 | 100.0 | 2,365 |
| Highest | 98.4 | 2,397 | 97.7 | 0.2 | 1.3 | 0.6 | 0.0 | 0.2 | 100.0 | 2,360 |
| Total | 93.9 | 12,500 | 83.6 | 0.5 | 9.4 | 3.0 | 0.1 | 3.3 | 100.0 | 11,740 |

${ }^{1}$ 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.
${ }^{2}$ Cleansing agents other than soap include locally available materials such as ash, mud, or sand
${ }^{3}$ Includes households with soap only as well as those with soap and another cleansing agent

## Table 2.7 Household population by age, sex, and residence

Percent distribution of the de facto household population by 5 -year age groups, according to sex and residence, Myanmar DHS 2015-16

| Age ${ }^{1}$ | Urban |  |  | Rural |  |  | Male | Female | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |  |  |  |
| <5 | 8.5 | 6.5 | 7.4 | 10.9 | 8.6 | 9.7 | 10.3 | 8.0 | 9.0 |
| 5-9 | 9.1 | 7.1 | 8.0 | 11.3 | 10.1 | 10.7 | 10.8 | 9.2 | 9.9 |
| 10-14 | 10.2 | 7.9 | 8.9 | 11.7 | 10.4 | 11.0 | 11.3 | 9.7 | 10.4 |
| 15-19 | 8.3 | 8.0 | 8.1 | 7.3 | 6.6 | 6.9 | 7.6 | 7.0 | 7.2 |
| 20-24 | 8.1 | 7.9 | 7.9 | 6.4 | 7.0 | 6.7 | 6.9 | 7.2 | 7.1 |
| 25-29 | 7.6 | 7.6 | 7.6 | 6.8 | 7.3 | 7.1 | 7.0 | 7.4 | 7.2 |
| 30-34 | 7.3 | 7.3 | 7.3 | 6.6 | 7.9 | 7.3 | 6.8 | 7.7 | 7.3 |
| 35-39 | 6.5 | 7.7 | 7.2 | 6.9 | 7.2 | 7.1 | 6.8 | 7.4 | 7.1 |
| 40-44 | 6.6 | 6.7 | 6.7 | 5.8 | 6.5 | 6.2 | 6.0 | 6.6 | 6.3 |
| 45-49 | 6.5 | 6.9 | 6.7 | 5.9 | 5.9 | 5.9 | 6.0 | 6.2 | 6.1 |
| 50-54 | 6.1 | 7.3 | 6.8 | 5.7 | 6.3 | 6.0 | 5.8 | 6.5 | 6.2 |
| 55-59 | 4.8 | 6.2 | 5.6 | 4.5 | 4.9 | 4.7 | 4.6 | 5.2 | 4.9 |
| 60-64 | 3.8 | 4.7 | 4.3 | 3.6 | 3.8 | 3.7 | 3.6 | 4.0 | 3.8 |
| 65-69 | 2.7 | 2.9 | 2.8 | 2.5 | 2.9 | 2.7 | 2.6 | 2.9 | 2.8 |
| 70-74 | 1.8 | 2.1 | 2.0 | 1.6 | 1.8 | 1.7 | 1.7 | 1.9 | 1.8 |
| 75-79 | 1.1 | 1.4 | 1.3 | 1.2 | 1.4 | 1.3 | 1.2 | 1.4 | 1.3 |
| $80+$ | 1.0 | 1.9 | 1.5 | 1.2 | 1.6 | 1.4 | 1.2 | 1.7 | 1.4 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 6,300 | 7,662 | 13,962 | 17,247 | 19,921 | 37,168 | 23,547 | 27,583 | 51,130 |

${ }^{1}$ Total includes six cases with missing information on age, not shown separately.

Table 2.8 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, Myanmar DHS 2015-16

|  | Residence |  |  |
| :--- | ---: | ---: | ---: |
| Characteristic | Urban | Rural | Total |
| Household headship |  |  |  |
| Male | 72.6 | 79.3 | 77.5 |
| Female | 27.4 | 20.7 | 22.5 |
| Total | 100.0 | 100.0 | 100.0 |
| Number of usual members |  |  |  |
| 1 | 6.3 | 5.0 | 5.4 |
| 2 | 14.6 | 13.0 | 13.4 |
| 3 | 19.0 | 20.5 | 20.1 |
| 4 | 21.4 | 23.0 | 22.6 |
| 5 | 15.0 | 17.1 | 16.6 |
| 6 | 9.9 | 10.4 | 10.3 |
| 7 | 5.9 | 5.4 | 5.5 |
| 8 | 3.0 | 3.0 | 3.0 |
| 9+ | 4.9 | 2.7 | 3.3 |
| Total | 100.0 | 100.0 | 100.0 |
| Mean size of households | 4.3 | 4.2 | 4.2 |
| Percentage of households with |  |  |  |
| orphans and foster children |  |  |  |
| under age 18 | 9.8 | 8.9 | 9.2 |
| Foster children ${ }^{1}$ | 0.5 | 0.6 | 0.5 |
| Double orphans | 7.1 | 5.8 | 6.2 |
| Single orphans ${ }^{2}$ | 14.5 | 12.8 | 13.2 |
| Foster and/or orphan children | 3,315 | 9,185 | 12,500 |
| Number of households |  |  |  |

Note: Table is based on de jure household members, that is, usual residents.
${ }^{1}$ Foster children are those under age 18 living in households with neither their mother nor their father present.
${ }^{2}$ Single orphans are children with one dead parent and an unknown survival status of the other parent.

Table 2.9 Birth registration of children under age 5
Percentage of de jure children under age 5 whose births are registered with the civi authorities, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Children whose births are registered |  |  | Number of children |
| :---: | :---: | :---: | :---: | :---: |
|  | Percentage who had a birth certificate | Percentage who did not have birth certificate | Percentage registered |  |
| Age |  |  |  |  |
| <2 | 71.8 | 9.5 | 81.3 | 1,810 |
| 2-4 | 75.6 | 5.7 | 81.3 | 2,823 |
| Sex |  |  |  |  |
| Male | 75.5 | 6.4 | 81.9 | 2,420 |
| Female | 72.6 | 7.9 | 80.6 | 2,213 |
| Residence |  |  |  |  |
| Urban | 89.6 | 4.3 | 93.9 | 1,029 |
| Rural | 69.7 | 8.0 | 77.7 | 3,604 |
| States/Regions |  |  |  |  |
| Kachin | 77.9 | 14.2 | 92.1 | 165 |
| Kayah | 92.6 | 3.8 | 96.4 | 33 |
| Kayin | 77.7 | 9.0 | 86.8 | 192 |
| Chin | 62.3 | 9.5 | 71.7 | 64 |
| Sagaing | 84.2 | 2.0 | 86.3 | 506 |
| Tanintharyi | 76.8 | 11.7 | 88.5 | 149 |
| Bago | 72.4 | 6.3 | 78.7 | 409 |
| Magway | 86.9 | 5.7 | 92.6 | 335 |
| Mandalay | 85.2 | 7.8 | 92.9 | 444 |
| Mon | 78.1 | 9.2 | 87.3 | 194 |
| Rakhine | 33.0 | 12.1 | 45.0 | 323 |
| Yangon | 85.1 | 6.5 | 91.6 | 485 |
| Shan | 59.5 | 4.8 | 64.2 | 651 |
| Ayeyarwady | 78.6 | 7.3 | 85.9 | 584 |
| Nay Pyi Taw | 64.3 | 14.1 | 78.5 | 97 |
| Wealth quintile |  |  |  |  |
| Lowest | 59.0 | 9.6 | 68.5 | 1,344 |
| Second | 68.5 | 7.4 | 75.8 | 1,005 |
| Middle | 79.6 | 6.3 | 85.9 | 807 |
| Fourth | 85.6 | 5.7 | 91.4 | 796 |
| Highest | 92.5 | 4.6 | 97.2 | 681 |
| Total | 74.1 | 7.1 | 81.3 | 4,633 |

Table 2.11.1 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, Myanmar DHS 2015-16

| Background characteristic | No education | Some primary | Completed primary ${ }^{1}$ | Some secondary | Completed secondary ${ }^{2}$ | More than secondary | Total | Number | Median years completed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age ${ }^{3}$ |  |  |  |  |  |  |  |  |  |
| 6-9 | 24.2 | 74.7 | 1.0 | 0.1 | 0.0 | 0.0 | 100.0 | 2,074 | 1.1 |
| 10-14 | 4.2 | 25.4 | 19.2 | 51.3 | 0.0 | 0.0 | 100.0 | 2,670 | 5.1 |
| 15-19 | 7.1 | 12.3 | 12.3 | 53.8 | 13.1 | 1.5 | 100.0 | 1,928 | 7.6 |
| 20-24 | 7.7 | 14.8 | 16.8 | 40.6 | 8.0 | 12.2 | 100.0 | 1,994 | 6.9 |
| 25-29 | 12.1 | 16.1 | 20.5 | 33.6 | 3.4 | 14.3 | 100.0 | 2,031 | 5.2 |
| 30-34 | 12.0 | 23.5 | 23.1 | 25.8 | 3.3 | 12.4 | 100.0 | 2,127 | 4.6 |
| 35-39 | 14.1 | 28.7 | 20.4 | 22.2 | 2.3 | 12.3 | 100.0 | 2,031 | 4.4 |
| 40-44 | 16.5 | 29.8 | 21.4 | 23.2 | 1.6 | 7.6 | 100.0 | 1,820 | 4.2 |
| 45-49 | 21.2 | 26.5 | 22.1 | 21.5 | 1.0 | 7.7 | 100.0 | 1,698 | 4.1 |
| 50-54 | 29.2 | 27.8 | 20.4 | 16.6 | 0.9 | 5.1 | 100.0 | 1,806 | 3.5 |
| 55-59 | 32.3 | 23.7 | 19.2 | 17.7 | 1.7 | 5.5 | 100.0 | 1,445 | 3.5 |
| 60-64 | 39.8 | 22.5 | 18.8 | 14.6 | 1.4 | 2.8 | 100.0 | 1,114 | 2.9 |
| 65+ | 57.5 | 19.4 | 12.4 | 7.5 | 1.5 | 1.7 | 100.0 | 2,159 | 0.0 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 10.5 | 19.9 | 11.6 | 36.0 | 6.0 | 16.0 | 100.0 | 7,079 | 6.5 |
| Rural | 24.0 | 29.5 | 19.6 | 22.5 | 1.7 | 2.6 | 100.0 | 17,822 | 3.7 |
| States/Regions |  |  |  |  |  |  |  |  |  |
| Kachin | 10.5 | 34.2 | 10.9 | 34.8 | 3.9 | 5.7 | 100.0 | 721 | 4.5 |
| Kayah | 22.1 | 25.1 | 10.2 | 32.8 | 3.7 | 6.1 | 100.0 | 128 | 4.2 |
| Kayin | 25.5 | 32.0 | 12.2 | 22.6 | 2.8 | 4.9 | 100.0 | 685 | 3.2 |
| Chin | 21.9 | 25.9 | 14.0 | 30.9 | 3.5 | 3.8 | 100.0 | 215 | 4.2 |
| Sagaing | 19.2 | 23.3 | 24.7 | 27.4 | 1.7 | 3.7 | 100.0 | 2,689 | 4.3 |
| Tanintharyi | 10.6 | 36.1 | 18.3 | 28.5 | 0.7 | 5.7 | 100.0 | 601 | 4.2 |
| Bago | 14.4 | 26.7 | 20.5 | 29.8 | 2.6 | 6.0 | 100.0 | 2,420 | 4.4 |
| Magway | 20.7 | 25.1 | 20.9 | 24.5 | 2.8 | 5.9 | 100.0 | 2,035 | 4.2 |
| Mandalay | 20.9 | 24.3 | 19.6 | 25.3 | 2.3 | 7.6 | 100.0 | 2,948 | 4.2 |
| Mon | 15.4 | 33.2 | 14.4 | 26.8 | 2.8 | 7.5 | 100.0 | 944 | 4.1 |
| Rakhine | 30.6 | 31.7 | 12.9 | 19.1 | 2.5 | 3.1 | 100.0 | 1,606 | 2.8 |
| Yangon | 9.6 | 24.0 | 12.6 | 34.8 | 5.0 | 13.9 | 100.0 | 3,521 | 5.7 |
| Shan | 43.1 | 22.9 | 9.9 | 17.9 | 3.3 | 2.9 | 100.0 | 2,653 | 1.5 |
| Ayeyarwady | 16.6 | 30.6 | 21.4 | 24.4 | 2.7 | 4.3 | 100.0 | 3,172 | 4.1 |
| Nay Pyi Taw | 16.8 | 27.2 | 18.7 | 25.2 | 2.9 | 9.2 | 100.0 | 563 | 4.3 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 33.7 | 37.6 | 15.6 | 12.5 | 0.4 | 0.2 | 100.0 | 4,557 | 2.2 |
| Second | 24.4 | 33.0 | 19.9 | 20.9 | 1.1 | 0.7 | 100.0 | 4,840 | 3.4 |
| Middle | 18.5 | 28.0 | 22.1 | 27.0 | 2.3 | 2.1 | 100.0 | 5,008 | 4.2 |
| Fourth | 17.0 | 22.4 | 17.7 | 33.7 | 3.2 | 6.1 | 100.0 | 5,102 | 4.6 |
| Highest | 9.7 | 15.1 | 11.6 | 35.4 | 7.1 | 21.0 | 100.0 | 5,393 | 7.5 |
| Total | 20.2 | 26.8 | 17.3 | 26.4 | 2.9 | 6.4 | 100.0 | 24,901 | 4.2 |

${ }^{1}$ Completed grade 5 at the primary level
${ }^{2}$ Completed grade 11 at the secondary level
${ }^{3}$ Total includes four cases with missing information on age, not shown separately.

Table 2.11.2 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, Myanmar DHS 2015-16

| Background characteristic | No education | Some primary | Completed primary ${ }^{1}$ | Some secondary | Completed secondary ${ }^{2}$ | More than secondary | Don't know/ missing | Total | Number | Median years completed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| 6-9 | 26.1 | 73.2 | 0.6 | 0.1 | 0.0 | 0.0 | 0.0 | 100.0 | 2,049 | 1.0 |
| 10-14 | 4.3 | 30.8 | 19.0 | 45.8 | 0.0 | 0.0 | 0.1 | 100.0 | 2,663 | 4.8 |
| 15-19 | 7.3 | 11.6 | 12.4 | 60.2 | 7.8 | 0.6 | 0.0 | 100.0 | 1,778 | 7.4 |
| 20-24 | 9.4 | 13.5 | 13.4 | 48.3 | 9.3 | 6.0 | 0.1 | 100.0 | 1,619 | 7.1 |
| 25-29 | 10.2 | 13.3 | 17.8 | 42.4 | 5.8 | 10.5 | 0.0 | 100.0 | 1,649 | 6.7 |
| 30-34 | 13.2 | 19.4 | 19.4 | 36.0 | 3.9 | 8.1 | 0.0 | 100.0 | 1,604 | 4.9 |
| 35-39 | 14.4 | 21.8 | 21.6 | 29.7 | 3.6 | 8.9 | 0.0 | 100.0 | 1,598 | 4.6 |
| 40-44 | 14.4 | 19.9 | 21.5 | 35.8 | 2.2 | 6.2 | 0.0 | 100.0 | 1,422 | 4.7 |
| 45-49 | 19.2 | 17.7 | 21.6 | 34.2 | 2.7 | 4.4 | 0.1 | 100.0 | 1,424 | 4.6 |
| 50-54 | 24.9 | 20.3 | 22.6 | 24.8 | 2.1 | 5.1 | 0.1 | 100.0 | 1,361 | 4.2 |
| 55-59 | 25.6 | 20.4 | 20.0 | 26.9 | 2.2 | 4.9 | 0.0 | 100.0 | 1,076 | 4.2 |
| 60-64 | 31.7 | 17.1 | 18.5 | 23.9 | 3.6 | 5.2 | 0.0 | 100.0 | 854 | 4.1 |
| 65+ | 49.1 | 13.1 | 15.0 | 16.6 | 2.2 | 4.0 | 0.0 | 100.0 | 1,551 | 1.0 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 8.0 | 17.5 | 10.2 | 45.8 | 7.1 | 11.4 | 0.1 | 100.0 | 5,661 | 7.2 |
| Rural | 21.5 | 26.8 | 19.1 | 28.8 | 1.9 | 1.9 | 0.0 | 100.0 | 14,989 | 4.1 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |
| Kachin | 10.7 | 29.8 | 12.4 | 39.3 | 3.5 | 4.3 | 0.0 | 100.0 | 628 | 4.8 |
| Kayah | 16.2 | 31.5 | 9.9 | 35.0 | 3.3 | 4.1 | 0.0 | 100.0 | 113 | 4.2 |
| Kayin | 29.5 | 29.5 | 11.7 | 23.6 | 3.2 | 2.5 | 0.1 | 100.0 | 565 | 2.9 |
| Chin | 13.2 | 25.3 | 14.2 | 38.9 | 4.9 | 3.4 | 0.0 | 100.0 | 189 | 4.8 |
| Sagaing | 16.0 | 20.2 | 23.8 | 34.2 | 3.2 | 2.6 | 0.0 | 100.0 | 2,312 | 4.6 |
| Tanintharyi | 14.4 | 34.6 | 14.5 | 31.8 | 0.9 | 3.8 | 0.0 | 100.0 | 516 | 4.1 |
| Bago | 11.5 | 24.4 | 20.2 | 36.0 | 3.1 | 4.9 | 0.0 | 100.0 | 1,930 | 4.7 |
| Magway | 19.3 | 21.2 | 21.4 | 30.9 | 3.0 | 4.1 | 0.1 | 100.0 | 1,580 | 4.4 |
| Mandalay | 15.6 | 20.7 | 20.2 | 34.0 | 3.1 | 6.3 | 0.0 | 100.0 | 2,355 | 4.7 |
| Mon | 17.9 | 30.2 | 11.8 | 32.6 | 3.9 | 3.7 | 0.0 | 100.0 | 746 | 4.2 |
| Rakhine | 23.9 | 28.0 | 13.6 | 29.3 | 2.6 | 2.6 | 0.0 | 100.0 | 1,182 | 3.8 |
| Yangon | 7.6 | 20.9 | 10.6 | 45.4 | 5.4 | 10.0 | 0.1 | 100.0 | 2,882 | 6.9 |
| Shan | 40.3 | 24.5 | 10.6 | 20.0 | 2.4 | 2.2 | 0.1 | 100.0 | 2,335 | 2.0 |
| Ayeyarwady | 14.9 | 28.0 | 18.3 | 33.1 | 3.3 | 2.4 | 0.0 | 100.0 | 2,815 | 4.4 |
| Nay Pyi Taw | 12.2 | 21.1 | 20.2 | 37.2 | 3.4 | 5.9 | 0.0 | 100.0 | 502 | 4.8 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 28.5 | 34.7 | 17.2 | 18.9 | 0.4 | 0.2 | 0.0 | 100.0 | 3,877 | 2.9 |
| Second | 21.2 | 30.2 | 19.9 | 27.1 | 1.0 | 0.6 | 0.0 | 100.0 | 4,077 | 3.9 |
| Middle | 16.9 | 24.4 | 19.7 | 35.5 | 2.2 | 1.3 | 0.0 | 100.0 | 4,223 | 4.4 |
| Fourth | 14.3 | 19.5 | 17.0 | 41.1 | 3.7 | 4.4 | 0.0 | 100.0 | 4,269 | 5.0 |
| Highest | 9.0 | 13.4 | 9.4 | 43.3 | 9.2 | 15.6 | 0.1 | 100.0 | 4,203 | 7.9 |
| Total | 17.8 | 24.2 | 16.6 | 33.5 | 3.4 | 4.5 | 0.0 | 100.0 | 20,649 | 4.5 |

[^1]
## Table 2.12 School attendance ratios

Net attendance ratio (NAR) and gross attendance ratio (GAR) for the de facto household population by sex and level of schooling; and the Gender Parity Index (GPI), according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Net attendance ratio ${ }^{1}$ |  |  |  | Gross attendance ratio ${ }^{2}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Gender Parity Index ${ }^{3}$ | Male | Female | Total | Gender Parity Index ${ }^{3}$ |
| PRIMARY SCHOOL |  |  |  |  |  |  |  |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 87.4 | 85.0 | 86.2 | 0.97 | 109.9 | 99.1 | 104.6 | 0.90 |
| Rural | 82.6 | 82.5 | 82.6 | 1.00 | 113.6 | 108.0 | 110.8 | 0.95 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | 87.0 | 90.9 | 88.8 | 1.05 | 110.3 | 109.9 | 110.1 | 1.00 |
| Kayah | 85.9 | 85.5 | 85.7 | 1.00 | 118.2 | 107.4 | 113.2 | 0.91 |
| Kayin | 82.3 | 82.9 | 82.6 | 1.01 | 111.4 | 118.1 | 114.6 | 1.06 |
| Chin | 81.5 | 81.4 | 81.4 | 1.00 | 113.7 | 110.8 | 112.3 | 0.97 |
| Sagaing | 87.4 | 86.3 | 86.8 | 0.99 | 112.3 | 102.8 | 107.6 | 0.92 |
| Tanintharyi | 82.7 | 88.2 | 85.2 | 1.07 | 121.8 | 128.6 | 124.9 | 1.06 |
| Bago | 83.0 | 81.6 | 82.3 | 0.98 | 115.1 | 103.7 | 109.2 | 0.90 |
| Magway | 85.6 | 87.5 | 86.6 | 1.02 | 111.6 | 104.3 | 108.0 | 0.93 |
| Mandalay | 86.4 | 89.7 | 88.1 | 1.04 | 109.7 | 107.3 | 108.5 | 0.98 |
| Mon | 88.5 | 89.4 | 89.0 | 1.01 | 126.0 | 111.7 | 118.4 | 0.89 |
| Rakhine | 76.6 | 75.6 | 76.1 | 0.99 | 111.2 | 109.8 | 110.5 | 0.99 |
| Yangon | 86.5 | 83.2 | 84.9 | 0.96 | 109.0 | 98.1 | 103.6 | 0.90 |
| Shan | 72.9 | 72.0 | 72.4 | 0.99 | 107.0 | 97.5 | 101.8 | 0.91 |
| Ayeyarwady | 85.9 | 81.9 | 84.0 | 0.95 | 118.1 | 109.7 | 114.1 | 0.93 |
| Nay Pyi Taw | 86.7 | 89.1 | 87.8 | 1.03 | 107.8 | 114.6 | 111.0 | 1.06 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 76.7 | 74.0 | 75.3 | 0.96 | 114.2 | 106.2 | 110.2 | 0.93 |
| Second | 85.3 | 85.4 | 85.3 | 1.00 | 118.6 | 110.1 | 114.2 | 0.93 |
| Middle | 84.6 | 86.4 | 85.5 | 1.02 | 114.2 | 107.1 | 110.6 | 0.94 |
| Fourth | 87.4 | 85.4 | 86.5 | 0.98 | 105.4 | 105.3 | 105.3 | 1.00 |
| Highest | 88.8 | 88.7 | 88.8 | 1.00 | 108.2 | 98.4 | 103.3 | 0.91 |
| Total | 83.7 | 83.0 | 83.4 | 0.99 | 112.8 | 106.0 | 109.4 | 0.94 |
| SECONDARY SCHOOL |  |  |  |  |  |  |  |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 72.9 | 76.2 | 74.5 | 1.05 | 86.1 | 93.8 | 89.8 | 1.09 |
| Rural | 53.4 | 58.1 | 55.7 | 1.09 | 61.8 | 66.4 | 64.1 | 1.08 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | 62.5 | 76.8 | 70.1 | 1.23 | 77.2 | 87.8 | 82.8 | 1.14 |
| Kayah | 55.1 | 71.9 | 63.0 | 1.30 | 62.9 | 87.1 | 74.3 | 1.39 |
| Kayin | 44.7 | 55.2 | 50.3 | 1.23 | 50.3 | 63.3 | 57.3 | 1.26 |
| Chin | 57.0 | 66.8 | 62.1 | 1.17 | 71.7 | 89.3 | 80.9 | 1.25 |
| Sagaing | 66.9 | 68.4 | 67.6 | 1.02 | 77.2 | 81.9 | 79.4 | 1.06 |
| Tanintharyi | 52.2 | 57.0 | 54.6 | 1.09 | 59.9 | 67.9 | 63.8 | 1.13 |
| Bago | 58.6 | 69.1 | 64.3 | 1.18 | 64.1 | 80.9 | 73.2 | 1.26 |
| Magway | 65.8 | 72.7 | 69.2 | 1.11 | 74.0 | 81.3 | 77.6 | 1.10 |
| Mandalay | 64.1 | 75.1 | 69.5 | 1.17 | 78.1 | 85.0 | 81.5 | 1.09 |
| Mon | 49.8 | 59.9 | 54.6 | 1.20 | 53.9 | 71.7 | 62.3 | 1.33 |
| Rakhine | 51.5 | 45.9 | 48.6 | 0.89 | 66.4 | 54.5 | 60.2 | 0.82 |
| Yangon | 72.1 | 70.9 | 71.5 | 0.98 | 85.4 | 85.0 | 85.2 | 1.00 |
| Shan | 35.6 | 36.2 | 35.9 | 1.02 | 38.3 | 43.1 | 40.7 | 1.12 |
| Ayeyarwady | 57.5 | 60.6 | 59.0 | 1.05 | 68.3 | 68.7 | 68.5 | 1.01 |
| Nay Pyi Taw | 69.2 | 67.3 | 68.3 | 0.97 | 77.1 | 81.7 | 79.3 | 1.06 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 36.6 | 37.7 | 37.1 | 1.03 | 42.5 | 41.0 | 41.8 | 0.96 |
| Second | 53.0 | 58.6 | 55.9 | 1.11 | 60.0 | 65.4 | 62.8 | 1.09 |
| Middle | 59.9 | 66.7 | 63.3 | 1.11 | 71.0 | 79.7 | 75.3 | 1.12 |
| Fourth | 71.9 | 75.9 | 73.9 | 1.06 | 81.4 | 90.7 | 86.0 | 1.11 |
| Highest | 78.3 | 84.0 | 81.0 | 1.07 | 94.4 | 102.8 | 98.4 | 1.09 |
| Total | 58.2 | 62.3 | 60.2 | 1.07 | 67.8 | 72.8 | 70.3 | 1.07 |

${ }^{1}$ The NAR for primary school is the percentage of the primary-school (age 5-9) population that is attending primary school. The NAR for secondary school is the percentage of the secondary-school (age 10-15) population that is attending secondary school. By definition the NAR cannot exceed 100\%.
${ }^{2}$ 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 over- and underage students at a given level of schooling, the GAR can exceed $100 \%$.
${ }^{3}$ 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.

## Key Findings

- Education: Forty-six percent of women and $52 \%$ of men age 15-49 in Myanmar have attended secondary school. However, only $10 \%$ of women and $7 \%$ of men have completed more than secondary education.
- Literacy: About 9 in 10 women (88\%) and men (91\%) age 15-49 can read.
- Exposure to mass media: About 3 in 10 women (32\%) and men (29\%) have no regular exposure to any mass media.
- Employment: Sixty-seven percent of women and 91\% of men are currently employed.
- Tobacco use: Two percent of women and $32 \%$ of men smoke cigarettes, while $2 \%$ of women and $14 \%$ of men smoke pipes or cheroots, and $18 \%$ of women and $59 \%$ of men chew betel quid.

TThis chapter presents information on demographic and socioeconomic characteristics of the survey respondents, such as age, education, place of residence, marital status, employment, and wealth status. This information is useful for understanding the factors that affect use of contraceptives and reproductive health services as well as other health behaviors.

### 3.1 Basic Characteristics of Survey Respondents

The 2015-16 MDHS interviewed 12,885 women and 4,737 men age 15-49 (Table 3.1). Women and men are more or less similarly distributed across all age groups ( $14 \%$ to $16 \%$ ), except for the age group $45-49$, to which $13 \%$ of women and $12 \%$ of men belong. In Myanmar, adolescents (age 15-19) constitute $14 \%$ of women and $15 \%$ of men, while youth age $15-24$ constitute $29 \%$ of women and $30 \%$ of men.

About 6 in 10 women and men are currently married. Women are more likely to be divorced or separated and widowed ( $3 \%$ each) than men ( $2 \%$ and $1 \%$, respectively). Women and men are similarly distributed by residence and across regions and states. About 7 in 10 live in rural areas. The highest proportion lives in Yangon Region ( $15 \%$ each of women and men), while the lowest proportion resides in Kayah State ( $0.5 \%$ each).

About one in eight women (13\%) and men (12\%) have no education. Women and men are more or less equally likely to share wealth across a range of wealth quintiles ( $18 \%$ to $22 \%$ ).

### 3.2 Education and Literacy

## Literacy

Respondents who have attended secondary or a higher level of school are assumed to be literate. All other respondents were given a sentence to read, and they were considered to be literate if they could read all or part of the sentence.
Sample: Women and men age 15-49

About half of women ( $46 \%$ ) and men ( $52 \%$ ) have attended secondary school or higher (Figure 3.1, Tables 3.2.1 and 3.2.2). Women and men age 15-49 have, on average, completed 5 years of schooling, although youth (age group 15-24) have completed more than 7 years (Tables 3.2.1 and 3.2.2). In Myanmar, the literacy rate is high among both women (85\%) and men (91\%) age 15-49 (Tables 3.3.1 and 3.3.2).

## Patterns by background characteristics

- Young respondents have the most education. Women and men age 15-24 are twice as likely to have completed secondary school or higher compared with those age 45-49 ( $18 \%$ versus $9 \%$ for women and $13 \%$ versus $7 \%$ for men) Tables 3.2.1 and 3.2.2.
- Urban women are almost five times more likely

Figure 3.1 Education of survey respondents
Percent distribution of women and men age 15-49 by highest level of schooling attended or completed
 than rural women to have studied beyond secondary school ( $24 \%$ versus $5 \%$ ), and urban men are about four times as likely as rural men to have higher education ( $15 \%$ versus $4 \%$ ). Notably, a much higher proportion of urban women have more than a secondary education compared with urban men in the same age group.

- The proportion of both women and men who have no education is highest in Shan State (35\%) followed by Rakhine State (26\%) and Kayin State (22\%) for women and Kayin State (32\%) and Rakhine State (15\%) for men. The percentage of women with completed secondary or higher education is highest in Yangon Region (25\%) followed by Mon State (17\%) (Figure 3.2).
- Literacy also varies by state and region. The proportion of literate women is highest in Kachin State (95\%) and lowest in Shan State (61\%), while for men, it is highest in Yangon Region ( $98 \%$ ) and lowest in Shan State (67\%) (Tables 3.3.1 and 3.3.2).
- The literacy rate increases with wealth for both women and men, rising from $66 \%$ for women in the lowest wealth quintile to $95 \%$ for women in the highest quintile; the corresponding increase for men is from $78 \%$ to $95 \%$.


### 3.3 Mass Media Exposure

## Exposure to mass media

Respondents were asked how often they read a newspaper, listened to the radio, or watched television. Those who responded at least once a week are considered to be regularly exposed to that form of media.
Sample: Women and men age 15-49

Mass media convey messages on preventing communicable diseases, including HIV/AIDS, tuberculosis, and malaria; healthy life styles for preventing noncommunicable diseases; and other health topics. In Myanmar, men are slightly more likely than women to be regularly exposed to all forms of media, but especially newspapers. Television is the most common form of media used by women and men ( $60 \%$ each). About one-fourth of women ( $25 \%$ ) and men ( $28 \%$ ) listen to the radio. Exposure to newspapers varies most by gender: $16 \%$ of women and $27 \%$ of men read newspapers at least once a week (Tables
3.4.1 and 3.4.2). About 3 in 10 women ( $32 \%$ ) and men ( $29 \%$ ) are not regularly exposed to any of these forms of media (Figure 3.3).

## Patterns by background characteristics

- The exposure to all three media is highest among women age 15-19 (9\%). Media exposure generally declines with age for women, but varies inconsistently by age for men.
- More urban than rural women read newspapers ( $30 \%$ versus $10 \%$ ) and watch television ( $81 \%$ versus $51 \%$ ), while more rural than urban women listen to the radio ( $26 \%$ versus $21 \%$ ). Consequently, women in urban areas $(10 \%)$ are more than twice as likely to be exposed to all three media as their rural counterparts (4\%). A similar pattern by residence occurs for men.
- The proportion of women and men who access none of the three media at least once a week is highest in Rakhine State ( $65 \%$ and $61 \%$, respectively) and lowest in Yangon Region ( $10 \%$ and $6 \%$, respectively).
- For both women and men, exposure to newspapers and television increases sharply with both education and wealth; exposure to radio also increases with education, but does not vary much or vary consistently by wealth.


### 3.4 Employment

## Currently employed

Respondents who were employed in the 7 days before the survey
Sample: Women and men age 15-49

Men are more likely to be currently employed than women are. Ninety-one percent of men age 15-49 currently work compared with $67 \%$ of women in the same age group (Tables 3.5.1 and 3.5.2).

## Patterns by background characteristics

- More than half of women age 15-19 and about two-thirds of older women are currently employed; 7 in 10 men age 15-19 and 9 in 10 older men are currently employed.
- Women are more likely to work if they are divorced, separated, or widowed than if they are married ( $78 \%$ versus $64 \%$ ), but the reverse is true for men ( $87 \%$ versus $97 \%$ ). Never-married men are less likely to be employed than ever-married men.
- Women with no living children are more likely to be employed (69\%) than women with children ( $62 \%$ to $66 \%$ ), but the reverse is true for men. Eighty-three percent of men with no children are employed compared with $94 \%$ to $97 \%$ of men with one or more children.
- Both women and men in rural areas are more likely to be employed than those in urban areas, although the differences in percentage currently employed are not large: $69 \%$ versus $61 \%$ for women and $92 \%$ versus $87 \%$ for men.
- The proportion of currently employed women is highest in Mandalay Region (84\%) and lowest in Rakhine State (47\%), while the proportion of currently employed men is highest in Nay Pyi Taw (95\%) and lowest in Kayin State (76\%).
- The employment status of women does not vary consistently by education or wealth. Among men, the percentage currently employed tends to decline with wealth, but does not vary consistently by education (Figure 3.4).

Figure 3.4 Employment by education
Percentage of women and men age 15-49 who are currently employed
$■$ Women $■$ Men


## Occupation

Categorized as professional/technical/managerial, clerical, sales and services, skilled manual, unskilled manual, domestic service, and agriculture
Sample: Women and men age 15-49 who were currently employed or had worked in the 12 months before the survey

Women age 15-49 most often work in unskilled manual labor (34\%), followed by sales and services ( $25 \%$ ) and agriculture ( $20 \%$ ) (Table 3.6.1). Men age $15-49$ are also most commonly employed in unskilled manual labor (31\%), followed by agriculture (29\%) and skilled manual labor (21\%) (Table 3.6.2). Eight percent of women and $7 \%$ of men work in professional, technical, or managerial occupations (Figure 3.5).

## Patterns by background characteristics

- Unskilled manual labor is the most common occupation for women irrespective of age, marital status, and number of living children. This pattern is also generally true for men. Only divorced, separated, or widowed women are more likely to labor in sales and services (34\%).
- In urban areas, the most common occupations are sales and services for women ( $44 \%$ ) and skilled manual labor for men (39\%). In rural areas, the leading occupation is unskilled manual labor for women (41\%) and agriculture (38\%) for men.
- Unskilled manual labor is the common occupation for women in most states and regions except Kachin State, Kayin State, Chin State, and Sagaing Region, where agricultural jobs predominate, and Tanintharyi Region and Yangon Region where sales and services is the most common occupation. For men, unskilled manual labor or agriculture is the most common occupation in all states and regions, except Yangon Region where skilled manual labor accounts for the highest proportion of employed men.
- Professional, technical or managerial occupations account for the highest proportion of employed women ( $45 \%$ ) and men ( $33 \%$ ) with more than secondary education. Women and men with no education most often work at unskilled manual labor ( $50 \%$ and $46 \%$, respectively).
- Employed women and men in the lowest wealth quintile are concentrated in unskilled manual labor ( $56 \%$ and $51 \%$, respectively), whereas, in the highest wealth quintile, the most common occupations are sales and services for women (41\%) and skilled manual labor for men (34\%).

Most employed women ( $86 \%$ ) earn cash only. Work for cash only is more prevalent in nonagricultural occupations ( $90 \%$ ) than in agricultural occupations ( $69 \%$ ). Thirty-eight percent of employed women work for a nonfamily member, $32 \%$ are self-employed, and $30 \%$ work for a family member. About two-thirds of employed women ( $65 \%$ ) work all year, while $28 \%$ work specific seasons, and $7 \%$ work occasionally. Women employed in agriculture are more likely than other employed women to work only seasonally (Table 3.7).

### 3.6 Tobacco Use

In Myanmar, most women age 15-49 (96\%) do not smoke or use other tobacco products (Table 3.8.1). Two percent each of women smoke cigarettes and pipes or cheroots. By contrast, $32 \%$ of men age 15-49 smoke cigarettes and 14\% smoke pipes or cheroots (Table 3.8.2). About 1 in 6 male cigarette smokers reported smoking 10 or more cigarettes in the 24 hours prior to the interview.

In Myanmar, $18 \%$ of women and 59\% of men age 15-49 chew betel quid (contains betel leaf, areca nut, and slaked lime, and may contain tobacco). Among those who chew betel quid, more than 1 in 5 women and about 2 in 5 men chewed 10 or more pieces in the 24 hours before the interview (Tables 3.9.1 and 3.9.2).

## Patterns by background characteristics

- Cigarette and pipe or cheroot smoking and betel quid chewing rises with age in women. Among men, cigarette smoking is most prevalent ( $37 \%$ to $38 \%$ ) in younger age groups (age 20-29) while pipe or cheroot smoking is mostly found ( $21 \%$ to $22 \%$ ) in older age groups (age 40-49).
- Smoking does not vary among women by maternity status, and betel quid chewing also remains as high among pregnant women and breastfeeding mothers as among other women (18-22\%).
- Tobacco use is slightly more prevalent among rural women than among urban women (5\% versus $1 \%$ ). Men in urban areas are more likely to smoke cigarettes (35\%) than men in rural areas (30\%), whereas rural men are more likely to smoke pipes or cheroots ( $16 \%$ ) and use other tobacco products $(3 \%)$ than urban men ( $11 \%$ and $1 \%$, respectively). The prevalence of betel quid chewing is higher among rural women ( $20 \%$ ) and rural men ( $60 \%$ ) than among their urban counterparts ( $13 \%$ and $57 \%$, respectively).
- Among women, cigarette smoking is highest in Kayin State (10\%), smoking pipes or cheroots is highest in Rakhine State (11\%), and use of other tobacco products is highest in Chin State (15\%). Among men, cigarette smoking is most prevalent in Tanintharyi Region (51\%), followed by Kayin State ( $49 \%$ ) and Rakhine State (48\%); pipe or cheroot smoking is most prevalent in Bago Region ( $28 \%$ ); and use of other tobacco products is most prevalent in Sagaing Region (12\%).
- By state and region, women in Rakhine State are most likely (50\%) to chew betel quid, followed by those in Kayin State ( $41 \%$ ) and Kayah State (36\%). Among men, betel quid chewing is most prevalent in Rakhine State (79\%), followed by Bago Region (75\%) and Ayeyarwady Region (68\%).
- Tobacco use and betel quid chewing decline with increasing education and wealth in women, but among men, smoking tends to decline with increasing education but not consistently by wealth; betel quid chewing declines with wealth.


### 3.7 Knowledge of Tuberculosis

More than nine in ten women and men age 15-49 have heard of tuberculosis (TB). The lowest level of knowledge about TB is among women and men in Shan State, where only two-thirds have heard of TB. Knowledge of TB is also relatively low among those with no education, with only about 7 in 10 having heard of TB.

Among women and men who have heard of TB, a majority ( $71 \%$ of women and $63 \%$ of men) know that TB spreads through coughing. About 9 in 10 know that TB is curable. Three percent of women and $4 \%$ of men learned from a doctor or nurse that they have TB (Tables 3.10.1 and 3.10.2).

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Table 3.1 Background characteristics of respondents
Percent distribution of women and men age $15-49$ by selected background characteristics, Myanmar DHS 2015-16

| Background characteristic | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weighted percent | Weighted number | Unweighted number | Weighted percent | Weighted number | Unweighted number |
| Age |  |  |  |  |  |  |
| 15-19 | 14.0 | 1,810 | 1,835 | 15.4 | 731 | 768 |
| 20-24 | 14.5 | 1,867 | 1,893 | 14.6 | 692 | 690 |
| 25-29 | 14.5 | 1,867 | 1,880 | 14.3 | 677 | 687 |
| 30-34 | 15.8 | 2,037 | 1,971 | 14.7 | 698 | 674 |
| 35-39 | 15.2 | 1,954 | 1,918 | 14.3 | 679 | 671 |
| 40-44 | 13.5 | 1,733 | 1,746 | 14.5 | 689 | 681 |
| 45-49 | 12.6 | 1,617 | 1,642 | 12.1 | 571 | 566 |
| Marital status |  |  |  |  |  |  |
| Never married | 33.2 | 4,278 | 4,146 | 34.7 | 1,646 | 1,695 |
| Married | 60.2 | 7,759 | 7,870 | 62.4 | 2,957 | 2,916 |
| Divorced/separated | 3.3 | 431 | 448 | 2.1 | 100 | 94 |
| Widowed | 3.2 | 417 | 421 | 0.7 | 35 | 32 |
| Residence |  |  |  |  |  |  |
| Urban | 29.2 | 3,768 | 3,785 | 28.5 | 1,350 | 1,321 |
| Rural | 70.8 | 9,117 | 9,100 | 71.5 | 3,387 | 3,416 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 2.9 | 374 | 804 | 3.4 | 161 | 328 |
| Kayah | 0.5 | 65 | 757 | 0.5 | 23 | 264 |
| Kayin | 2.4 | 303 | 751 | 2.4 | 115 | 300 |
| Chin | 0.8 | 102 | 750 | 0.8 | 39 | 296 |
| Sagaing | 10.9 | 1,410 | 1,039 | 10.9 | 514 | 394 |
| Tanintharyi | 2.2 | 283 | 717 | 2.2 | 103 | 249 |
| Bago | 9.7 | 1,244 | 939 | 9.6 | 454 | 346 |
| Magway | 8.4 | 1,081 | 947 | 6.8 | 320 | 291 |
| Mandalay | 12.0 | 1,541 | 963 | 12.7 | 601 | 372 |
| Mon | 3.6 | 463 | 789 | 3.4 | 162 | 269 |
| Rakhine | 6.0 | 777 | 911 | 4.7 | 222 | 261 |
| Yangon | 15.0 | 1,927 | 1,065 | 14.8 | 703 | 404 |
| Shan | 10.6 | 1,368 | 778 | 11.4 | 542 | 286 |
| Ayeyarwady | 12.8 | 1,650 | 919 | 13.8 | 653 | 364 |
| Nay Pyi Taw | 2.3 | 300 | 756 | 2.7 | 126 | 313 |
| Education ${ }^{1}$ |  |  |  |  |  |  |
| No education | 12.5 | 1,606 | 1,592 | 12.1 | 575 | 559 |
| Primary | 41.2 | 5,305 | 5,129 | 35.5 | 1,684 | 1,630 |
| Secondary | 36.1 | 4,646 | 4,838 | 45.2 | 2,139 | 2,224 |
| More than secondary | 10.3 | 1,325 | 1,324 | 7.2 | 339 | 324 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 17.7 | 2,274 | 2,364 | 18.8 | 890 | 904 |
| Second | 18.7 | 2,408 | 2,451 | 19.3 | 916 | 933 |
| Middle | 20.4 | 2,633 | 2,633 | 20.7 | 979 | 1,016 |
| Fourth | 21.0 | 2,702 | 2,739 | 20.8 | 986 | 995 |
| Highest | 22.3 | 2,868 | 2,698 | 20.4 | 966 | 889 |
| Total | 100.0 | 12,885 | 12,885 | 100.0 | 4,737 | 4,737 |

Note: Education categories refer to the highest level of education attended, whether or not that level was completed.
${ }^{1}$ Total includes three women with missing information on education.

Table 3.2.1 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, Myanmar DHS 2015-16

| Background characteristic | Highest level of schooling |  |  |  |  |  | Total | Median years completed | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No education | Some primary | Completed primary ${ }^{1}$ | Some secondary | Completed secondary ${ }^{2}$ | More than secondary |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-24 | 7.2 | 13.9 | 13.7 | 47.4 | 9.3 | 8.6 | 100.0 | 7.3 | 3,677 |
| 15-19 | 6.9 | 12.1 | 11.4 | 53.2 | 12.5 | 3.9 | 100.0 | 7.6 | 1,810 |
| 20-24 | 7.5 | 15.6 | 15.9 | 41.9 | 6.1 | 13.0 | 100.0 | 6.8 | 1,867 |
| 25-29 | 10.7 | 17.2 | 19.8 | 34.8 | 2.6 | 15.0 | 100.0 | 5.4 | 1,867 |
| 30-34 | 11.8 | 24.2 | 22.4 | 25.5 | 3.4 | 12.5 | 100.0 | 4.6 | 2,037 |
| 35-39 | 14.4 | 31.8 | 18.2 | 22.0 | 2.0 | 11.7 | 100.0 | 4.2 | 1,954 |
| 40-44 | 16.9 | 31.7 | 18.4 | 24.0 | 1.6 | 7.3 | 100.0 | 4.1 | 1,733 |
| 45-49 | 20.3 | 30.0 | 19.9 | 21.2 | 1.1 | 7.5 | 100.0 | 4.0 | 1,617 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 5.1 | 13.8 | 9.0 | 40.3 | 7.9 | 23.9 | 100.0 | 9.0 | 3,768 |
| Rural | 15.5 | 27.0 | 21.8 | 28.4 | 2.7 | 4.7 | 100.0 | 4.3 | 9,117 |
| States/Regions |  |  |  |  |  |  |  |  |  |
| Kachin | 2.8 | 25.0 | 13.6 | 43.2 | 4.1 | 11.2 | 100.0 | 6.3 | 374 |
| Kayah | 14.7 | 18.5 | 11.7 | 40.1 | 4.7 | 10.4 | 100.0 | 6.0 | 65 |
| Kayin | 22.2 | 25.6 | 11.3 | 27.0 | 4.6 | 9.3 | 100.0 | 4.2 | 303 |
| Chin | 13.9 | 14.4 | 15.8 | 43.0 | 6.1 | 6.9 | 100.0 | 6.6 | 102 |
| Sagaing | 9.6 | 20.7 | 26.6 | 34.0 | 2.0 | 7.1 | 100.0 | 4.7 | 1,410 |
| Tanintharyi | 4.5 | 26.2 | 18.2 | 39.0 | 0.9 | 11.2 | 100.0 | 5.2 | 283 |
| Bago | 6.0 | 23.7 | 20.8 | 35.4 | 4.5 | 9.6 | 100.0 | 5.0 | 1,244 |
| Magway | 11.6 | 22.7 | 23.0 | 28.2 | 4.7 | 9.7 | 100.0 | 4.7 | 1,081 |
| Mandalay | 10.7 | 20.7 | 22.6 | 31.1 | 2.9 | 12.0 | 100.0 | 4.8 | 1,541 |
| Mon | 9.2 | 27.1 | 12.8 | 33.6 | 4.5 | 12.9 | 100.0 | 5.1 | 463 |
| Rakhine | 25.9 | 31.7 | 11.6 | 22.6 | 3.4 | 4.8 | 100.0 | 3.4 | 777 |
| Yangon | 4.7 | 19.9 | 10.4 | 39.7 | 6.3 | 18.9 | 100.0 | 7.9 | 1,927 |
| Shan | 35.3 | 18.5 | 11.9 | 22.8 | 5.2 | 6.2 | 100.0 | 3.4 | 1,368 |
| Ayeyarwady | 8.7 | 28.6 | 22.0 | 29.3 | 4.2 | 7.3 | 100.0 | 4.6 | 1,650 |
| Nay Pyi Taw | 9.8 | 26.3 | 19.6 | 28.4 | 4.5 | 11.4 | 100.0 | 4.7 | 300 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 28.3 | 37.8 | 18.3 | 14.5 | 0.6 | 0.5 | 100.0 | 2.9 | 2,274 |
| Second | 15.7 | 31.2 | 23.6 | 26.1 | 2.0 | 1.3 | 100.0 | 4.1 | 2,408 |
| Middle | 9.4 | 23.9 | 24.8 | 34.4 | 3.4 | 4.1 | 100.0 | 4.7 | 2,633 |
| Fourth | 8.0 | 17.9 | 16.4 | 42.4 | 5.1 | 10.3 | 100.0 | 6.3 | 2,702 |
| Highest | 4.3 | 9.0 | 8.5 | 38.1 | 8.9 | 31.2 | 100.0 | 9.4 | 2,868 |
| Total | 12.5 | 23.1 | 18.0 | 31.8 | 4.2 | 10.3 | 100.0 | 4.8 | 12,885 |

[^2]Table 3.2.2 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, Myanmar DHS 2015-16

| Background characteristic | Highest level of schooling |  |  |  |  |  | Total | Median years completed | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No education | Some primary | Completed primary ${ }^{1}$ | Some secondary | Completed secondary ${ }^{2}$ | More than secondary |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-24 | 7.6 | 12.7 | 11.0 | 55.9 | 6.9 | 5.8 | 100.0 | 7.5 | 1,423 |
| 15-19 | 8.0 | 10.8 | 10.2 | 62.1 | 6.8 | 2.2 | 100.0 | 7.6 | 731 |
| 20-24 | 7.3 | 14.6 | 12.0 | 49.3 | 7.1 | 9.7 | 100.0 | 7.2 | 692 |
| 25-29 | 9.6 | 15.3 | 17.4 | 38.4 | 7.1 | 12.2 | 100.0 | 6.7 | 677 |
| 30-34 | 12.8 | 20.5 | 20.0 | 35.0 | 4.4 | 7.2 | 100.0 | 4.8 | 698 |
| 35-39 | 14.7 | 25.9 | 20.4 | 27.8 | 2.9 | 8.4 | 100.0 | 4.5 | 679 |
| 40-44 | 15.1 | 22.9 | 21.2 | 33.0 | 1.8 | 6.0 | 100.0 | 4.6 | 689 |
| 45-49 | 19.0 | 17.6 | 21.7 | 35.2 | 2.2 | 4.3 | 100.0 | 4.6 | 571 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 4.5 | 11.0 | 9.1 | 51.4 | 8.7 | 15.3 | 100.0 | 9.0 | 1,350 |
| Rural | 15.2 | 21.1 | 20.6 | 36.1 | 3.1 | 3.9 | 100.0 | 4.7 | 3,387 |
| States/Regions |  |  |  |  |  |  |  |  |  |
| Kachin | 6.7 | 24.1 | 11.3 | 47.9 | 3.4 | 6.6 | 100.0 | 6.2 | 161 |
| Kayah | 11.1 | 19.9 | 11.7 | 48.5 | 2.4 | 6.4 | 100.0 | 6.0 | 23 |
| Kayin | 31.7 | 16.4 | 9.7 | 32.5 | 6.2 | 3.5 | 100.0 | 4.2 | 115 |
| Chin | 3.5 | 15.6 | 15.1 | 52.9 | 7.6 | 5.3 | 100.0 | 7.2 | 39 |
| Sagaing | 9.4 | 11.3 | 25.4 | 43.5 | 6.4 | 4.0 | 100.0 | 5.5 | 514 |
| Tanintharyi | 7.0 | 25.3 | 12.8 | 45.5 | 0.7 | 8.6 | 100.0 | 5.8 | 103 |
| Bago | 8.2 | 19.3 | 20.1 | 42.3 | 3.8 | 6.3 | 100.0 | 5.3 | 454 |
| Magway | 10.2 | 15.7 | 26.0 | 35.8 | 4.7 | 7.7 | 100.0 | 4.9 | 320 |
| Mandalay | 8.2 | 15.5 | 20.1 | 41.6 | 7.0 | 7.6 | 100.0 | 5.9 | 601 |
| Mon | 13.6 | 20.1 | 13.4 | 42.1 | 4.7 | 6.0 | 100.0 | 5.4 | 162 |
| Rakhine | 15.1 | 23.5 | 13.6 | 36.9 | 3.9 | 6.9 | 100.0 | 4.8 | 222 |
| Yangon | 3.8 | 15.6 | 9.2 | 53.4 | 4.4 | 13.5 | 100.0 | 8.4 | 703 |
| Shan | 35.4 | 23.3 | 11.2 | 20.9 | 4.1 | 5.0 | 100.0 | 3.2 | 542 |
| Ayeyarwady | 10.1 | 21.5 | 21.4 | 38.2 | 3.0 | 5.7 | 100.0 | 4.9 | 653 |
| Nay Pyi Taw | 7.4 | 13.2 | 22.9 | 43.4 | 6.7 | 6.4 | 100.0 | 5.9 | 126 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 24.1 | 32.0 | 20.1 | 23.2 | 0.5 | 0.1 | 100.0 | 3.6 | 890 |
| Second | 13.4 | 25.7 | 25.2 | 32.8 | 1.4 | 1.5 | 100.0 | 4.4 | 916 |
| Middle | 11.3 | 15.1 | 21.5 | 44.7 | 4.6 | 2.8 | 100.0 | 5.2 | 979 |
| Fourth | 7.7 | 13.4 | 14.5 | 51.2 | 5.8 | 7.4 | 100.0 | 7.1 | 986 |
| Highest | 5.3 | 6.4 | 6.0 | 48.4 | 10.6 | 23.2 | 100.0 | 9.4 | 966 |
| Total | 12.1 | 18.2 | 17.4 | 40.5 | 4.7 | 7.2 | 100.0 | 5.4 | 4,737 |

[^3]Table 3.3.1 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, Myanmar DHS 2015-16

| Background characteristic | Secondary school or higher | No schooling or primary school |  |  |  |  | Total | Percentage literate ${ }^{1}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Can read a whole sentence | Can read part of a sentence | $\begin{gathered} \text { Cannot read } \\ \text { at all } \\ \hline \end{gathered}$ | No card with required language | Blind/ visually impaired |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-24 | 65.2 | 19.1 | 5.3 | 10.3 | 0.1 | 0.0 | 100.0 | 89.6 | 3,677 |
| 15-19 | 69.6 | 15.9 | 4.7 | 9.7 | 0.1 | 0.0 | 100.0 | 90.2 | 1,810 |
| 20-24 | 61.0 | 22.2 | 5.8 | 10.8 | 0.2 | 0.0 | 100.0 | 88.9 | 1,867 |
| 25-29 | 52.4 | 28.8 | 5.6 | 13.2 | 0.0 | 0.0 | 100.0 | 86.7 | 1,867 |
| 30-34 | 41.5 | 38.0 | 7.4 | 13.2 | 0.0 | 0.0 | 100.0 | 86.8 | 2,037 |
| 35-39 | 35.7 | 37.3 | 9.5 | 17.4 | 0.0 | 0.0 | 100.0 | 82.5 | 1,954 |
| 40-44 | 33.0 | 39.6 | 8.8 | 18.4 | 0.0 | 0.1 | 100.0 | 81.4 | 1,733 |
| 45-49 | 29.8 | 39.8 | 10.7 | 19.1 | 0.0 | 0.6 | 100.0 | 80.3 | 1,617 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 72.1 | 16.2 | 5.2 | 6.4 | 0.0 | 0.1 | 100.0 | 93.5 | 3,768 |
| Rural | 35.7 | 38.0 | 8.4 | 17.8 | 0.0 | 0.1 | 100.0 | 82.1 | 9,117 |
| States/Regions |  |  |  |  |  |  |  |  |  |
| Kachin | 58.5 | 25.7 | 10.9 | 4.8 | 0.0 | 0.1 | 100.0 | 95.1 | 374 |
| Kayah | 55.2 | 25.1 | 5.0 | 14.6 | 0.1 | 0.0 | 100.0 | 85.3 | 65 |
| Kayin | 40.9 | 26.8 | 7.7 | 24.5 | 0.1 | 0.0 | 100.0 | 75.4 | 303 |
| Chin | 56.0 | 8.6 | 8.1 | 26.8 | 0.1 | 0.4 | 100.0 | 72.6 | 102 |
| Sagaing | 43.1 | 40.1 | 8.0 | 8.8 | 0.0 | 0.0 | 100.0 | 91.2 | 1,410 |
| Tanintharyi | 51.2 | 33.6 | 5.3 | 7.8 | 1.3 | 0.7 | 100.0 | 90.0 | 283 |
| Bago | 49.5 | 38.0 | 5.3 | 7.2 | 0.0 | 0.0 | 100.0 | 92.8 | 1,244 |
| Magway | 42.6 | 38.1 | 8.3 | 10.6 | 0.0 | 0.2 | 100.0 | 89.1 | 1,081 |
| Mandalay | 45.9 | 40.3 | 3.1 | 10.5 | 0.1 | 0.0 | 100.0 | 89.4 | 1,541 |
| Mon | 50.9 | 28.0 | 7.2 | 13.1 | 0.0 | 0.8 | 100.0 | 86.1 | 463 |
| Rakhine | 30.8 | 20.8 | 11.4 | 36.9 | 0.0 | 0.1 | 100.0 | 63.0 | 777 |
| Yangon | 65.0 | 16.6 | 12.5 | 5.8 | 0.0 | 0.1 | 100.0 | 94.1 | 1,927 |
| Shan | 34.2 | 21.1 | 5.2 | 39.4 | 0.0 | 0.0 | 100.0 | 60.5 | 1,368 |
| Ayeyarwady | 40.8 | 41.8 | 6.4 | 11.0 | 0.0 | 0.0 | 100.0 | 89.0 | 1,650 |
| Nay Pyi Taw | 44.4 | 37.6 | 4.6 | 13.4 | 0.0 | 0.0 | 100.0 | 86.6 | 300 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 15.6 | 39.5 | 10.9 | 33.9 | 0.0 | 0.1 | 100.0 | 66.0 | 2,274 |
| Second | 29.5 | 40.9 | 10.3 | 19.1 | 0.0 | 0.1 | 100.0 | 80.7 | 2,408 |
| Middle | 41.9 | 39.7 | 8.5 | 9.8 | 0.0 | 0.1 | 100.0 | 90.1 | 2,633 |
| Fourth | 57.7 | 28.1 | 5.3 | 8.7 | 0.1 | 0.1 | 100.0 | 91.1 | 2,702 |
| Highest | 78.3 | 13.4 | 3.4 | 4.8 | 0.0 | 0.1 | 100.0 | 95.0 | 2,868 |
| Total | 46.3 | 31.6 | 7.4 | 14.4 | 0.0 | 0.1 | 100.0 | 85.4 | 12,885 |

${ }^{1}$ Refers to women who attended secondary school or higher and women who can read a whole sentence or part of a sentence

Table 3.3.2 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, Myanmar DHS 2015-16

| Background characteristic | Secondary school or higher | No schooling or primary school |  |  |  |  |  | Total | Percentage literate ${ }^{1}$ | 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 | Missing |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-24 | 68.6 | 16.4 | 6.2 | 8.6 | 0.0 | 0.0 | 0.0 | 100.0 | 91.3 | 1,423 |
| 15-19 | 71.1 | 15.7 | 4.8 | 8.5 | 0.0 | 0.0 | 0.0 | 100.0 | 91.5 | 731 |
| 20-24 | 66.1 | 17.2 | 7.8 | 8.8 | 0.1 | 0.0 | 0.0 | 100.0 | 91.1 | 692 |
| 25-29 | 57.7 | 24.8 | 8.7 | 8.8 | 0.0 | 0.0 | 0.0 | 100.0 | 91.2 | 677 |
| 30-34 | 46.7 | 35.6 | 8.0 | 9.7 | 0.0 | 0.0 | 0.0 | 100.0 | 90.3 | 698 |
| 35-39 | 39.1 | 38.3 | 12.2 | 10.4 | 0.0 | 0.0 | 0.0 | 100.0 | 89.6 | 679 |
| 40-44 | 40.8 | 38.4 | 10.5 | 10.0 | 0.1 | 0.1 | 0.0 | 100.0 | 89.8 | 689 |
| 45-49 | 41.7 | 38.8 | 9.6 | 9.7 | 0.1 | 0.1 | 0.0 | 100.0 | 90.2 | 571 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 75.4 | 17.4 | 3.3 | 3.9 | 0.0 | 0.0 | 0.0 | 100.0 | 96.1 | 1,350 |
| Rural | 43.1 | 34.3 | 10.9 | 11.6 | 0.0 | 0.0 | 0.0 | 100.0 | 88.3 | 3,387 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |
| Kachin | 57.9 | 25.3 | 13.0 | 3.8 | 0.0 | 0.0 | 0.0 | 100.0 | 96.2 | 161 |
| Kayah | 57.3 | 20.1 | 10.4 | 12.2 | 0.0 | 0.0 | 0.0 | 100.0 | 87.8 | 23 |
| Kayin | 42.2 | 14.7 | 15.1 | 27.2 | 0.7 | 0.0 | 0.0 | 100.0 | 72.1 | 115 |
| Chin | 65.8 | 12.2 | 7.2 | 13.4 | 0.0 | 1.0 | 0.3 | 100.0 | 85.2 | 39 |
| Sagaing | 54.0 | 33.6 | 8.2 | 4.2 | 0.0 | 0.0 | 0.0 | 100.0 | 95.8 | 514 |
| Tanintharyi | 54.8 | 25.5 | 8.5 | 10.5 | 0.3 | 0.4 | 0.0 | 100.0 | 88.8 | 103 |
| Bago | 52.4 | 35.3 | 4.0 | 8.3 | 0.0 | 0.0 | 0.0 | 100.0 | 91.7 | 454 |
| Magway | 48.1 | 42.4 | 5.1 | 4.4 | 0.0 | 0.0 | 0.0 | 100.0 | 95.6 | 320 |
| Mandalay | 56.3 | 37.1 | 3.6 | 3.1 | 0.0 | 0.0 | 0.0 | 100.0 | 96.9 | 601 |
| Mon | 52.8 | 33.8 | 3.7 | 9.7 | 0.0 | 0.0 | 0.0 | 100.0 | 90.3 | 162 |
| Rakhine | 47.8 | 23.2 | 7.2 | 21.5 | 0.0 | 0.4 | 0.0 | 100.0 | 78.2 | 222 |
| Yangon | 71.3 | 24.7 | 2.1 | 1.9 | 0.0 | 0.0 | 0.0 | 100.0 | 98.1 | 703 |
| Shan | 30.1 | 22.7 | 14.0 | 33.2 | 0.0 | 0.0 | 0.0 | 100.0 | 66.8 | 542 |
| Ayeyarwady | 47.0 | 25.1 | 22.3 | 5.6 | 0.0 | 0.0 | 0.0 | 100.0 | 94.4 | 653 |
| Nay Pyi Taw | 56.5 | 36.3 | 4.5 | 2.7 | 0.0 | 0.0 | 0.0 | 100.0 | 97.3 | 126 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 23.9 | 37.0 | 17.3 | 21.8 | 0.0 | 0.0 | 0.0 | 100.0 | 78.1 | 890 |
| Second | 35.6 | 41.1 | 12.8 | 10.4 | 0.0 | 0.1 | 0.0 | 100.0 | 89.5 | 916 |
| Middle | 52.1 | 35.8 | 7.1 | 4.9 | 0.0 | 0.1 | 0.0 | 100.0 | 95.0 | 979 |
| Fourth | 64.4 | 24.2 | 5.2 | 6.2 | 0.1 | 0.0 | 0.0 | 100.0 | 93.8 | 986 |
| Highest | 82.3 | 10.6 | 2.4 | 4.8 | 0.0 | 0.0 | 0.0 | 100.0 | 95.2 | 966 |
| Total | 52.3 | 29.5 | 8.7 | 9.4 | 0.0 | 0.0 | 0.0 | 100.0 | 90.5 | 4,737 |

${ }^{1}$ Refers to men who attended secondary school or higher and men who can read a whole sentence or part of a sentence

Table 3.4.1 Exposure to mass media: Women
Percentage of women age $15-49$ who are exposed to specific media on a weekly basis, by background characteristics, Myanmar DHS 2015-16

| 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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |
| 15-19 | 18.5 | 68.8 | 30.2 | 8.9 | 24.3 | 1,810 |
| 20-24 | 17.6 | 63.3 | 28.6 | 8.0 | 28.2 | 1,867 |
| 25-29 | 16.4 | 59.9 | 24.2 | 7.0 | 32.9 | 1,867 |
| 30-34 | 13.7 | 60.7 | 24.1 | 5.5 | 30.7 | 2,037 |
| 35-39 | 15.9 | 58.2 | 21.5 | 5.1 | 33.8 | 1,954 |
| 40-44 | 11.9 | 52.4 | 21.5 | 3.6 | 37.6 | 1,733 |
| 45-49 | 14.3 | 53.8 | 22.9 | 4.5 | 36.0 | 1,617 |
| Residence |  |  |  |  |  |  |
| Urban | 29.8 | 80.6 | 21.0 | 10.2 | 14.9 | 3,768 |
| Rural | 9.6 | 51.1 | 26.3 | 4.4 | 38.8 | 9,117 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 19.2 | 48.3 | 25.6 | 7.5 | 40.3 | 374 |
| Kayah | 15.7 | 67.4 | 26.1 | 6.2 | 27.0 | 65 |
| Kayin | 12.5 | 53.2 | 15.5 | 4.8 | 40.5 | 303 |
| Chin | 17.7 | 54.8 | 19.2 | 8.2 | 40.3 | 102 |
| Sagaing | 8.5 | 55.3 | 26.8 | 4.0 | 35.1 | 1,410 |
| Tanintharyi | 9.6 | 54.1 | 19.9 | 3.8 | 39.3 | 283 |
| Bago | 15.3 | 63.9 | 26.7 | 6.4 | 28.0 | 1,244 |
| Magway | 14.5 | 50.9 | 40.6 | 6.6 | 31.3 | 1,081 |
| Mandalay | 16.2 | 55.1 | 25.8 | 4.7 | 33.8 | 1,541 |
| Mon | 18.7 | 47.9 | 28.5 | 6.0 | 37.3 | 463 |
| Rakhine | 8.5 | 28.5 | 13.3 | 2.9 | 64.7 | 777 |
| Yangon | 22.2 | 88.3 | 12.7 | 6.2 | 9.8 | 1,927 |
| Shan | 11.6 | 51.1 | 19.0 | 5.1 | 43.9 | 1,368 |
| Ayeyarwady | 20.1 | 65.4 | 35.3 | 11.3 | 24.9 | 1,650 |
| Nay Pyi Taw | 14.7 | 68.1 | 27.4 | 5.6 | 25.4 | 300 |
| Education ${ }^{1}$ |  |  |  |  |  |  |
| No education | 1.1 | 33.8 | 13.6 | 0.3 | 59.9 | 1,606 |
| Primary | 7.4 | 52.3 | 24.3 | 2.8 | 37.3 | 5,305 |
| Secondary | 21.1 | 71.4 | 27.9 | 8.8 | 21.3 | 4,646 |
| More than secondary | 45.6 | 80.1 | 28.9 | 17.0 | 12.2 | 1,325 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 5.0 | 33.1 | 22.1 | 2.1 | 56.2 | 2,274 |
| Second | 9.6 | 45.9 | 26.0 | 4.4 | 42.9 | 2,408 |
| Middle | 10.5 | 57.0 | 27.5 | 4.7 | 31.6 | 2,633 |
| Fourth | 15.5 | 73.6 | 25.7 | 6.7 | 20.4 | 2,702 |
| Highest | 33.4 | 81.8 | 22.3 | 11.6 | 13.9 | 2,868 |
| Total | 15.5 | 59.7 | 24.7 | 6.1 | 31.8 | 12,885 |

[^4]Table 3.4.2 Exposure to mass media: Men
Percentage of men age 15-49 who are exposed to specific media on a weekly basis, by background characteristics, Myanmar DHS 2015-16

| 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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |
| 15-19 | 25.2 | 67.1 | 28.9 | 9.9 | 25.5 | 731 |
| 20-24 | 29.2 | 65.1 | 25.3 | 6.1 | 25.9 | 692 |
| 25-29 | 31.3 | 64.0 | 28.2 | 11.6 | 27.0 | 677 |
| 30-34 | 28.3 | 57.9 | 23.8 | 9.5 | 33.8 | 698 |
| 35-39 | 23.4 | 57.2 | 26.9 | 7.8 | 30.5 | 679 |
| 40-44 | 25.6 | 53.8 | 29.2 | 9.4 | 33.7 | 689 |
| 45-49 | 27.1 | 53.3 | 37.1 | 8.0 | 28.6 | 571 |
| Residence |  |  |  |  |  |  |
| Urban | 51.2 | 77.8 | 21.7 | 13.2 | 15.9 | 1,350 |
| Rural | 17.5 | 52.9 | 30.9 | 7.2 | 34.6 | 3,387 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 46.2 | 59.9 | 42.8 | 25.7 | 24.2 | 161 |
| Kayah | 18.1 | 46.3 | 28.1 | 6.8 | 39.2 | 23 |
| Kayin | 10.0 | 45.0 | 11.7 | 2.1 | 50.3 | 115 |
| Chin | 9.3 | 34.5 | 16.3 | 1.7 | 53.6 | 39 |
| Sagaing | 19.9 | 63.2 | 29.8 | 5.6 | 25.3 | 514 |
| Tanintharyi | 25.6 | 79.4 | 38.7 | 14.2 | 14.3 | 103 |
| Bago | 15.9 | 61.6 | 30.4 | 6.0 | 28.8 | 454 |
| Magway | 28.2 | 58.3 | 46.3 | 13.0 | 21.7 | 320 |
| Mandalay | 36.8 | 60.2 | 33.0 | 13.3 | 25.4 | 601 |
| Mon | 28.4 | 73.2 | 42.0 | 13.1 | 14.4 | 162 |
| Rakhine | 10.9 | 28.5 | 20.9 | 3.3 | 60.8 | 222 |
| Yangon | 55.9 | 89.5 | 16.3 | 9.7 | 6.2 | 703 |
| Shan | 11.8 | 52.6 | 14.8 | 3.3 | 42.2 | 542 |
| Ayeyarwady | 15.4 | 40.4 | 31.3 | 7.9 | 46.9 | 653 |
| Nay Pyi Taw | 41.1 | 60.0 | 42.7 | 14.6 | 20.0 | 126 |
| Education |  |  |  |  |  |  |
| No education | 4.5 | 37.4 | 16.0 | 1.1 | 53.0 | 575 |
| Primary | 13.8 | 52.4 | 27.4 | 5.2 | 36.1 | 1,684 |
| Secondary | 37.3 | 68.7 | 31.5 | 11.4 | 20.3 | 2,139 |
| More than secondary | 67.5 | 81.4 | 32.9 | 25.0 | 11.5 | 339 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 11.2 | 30.7 | 26.2 | 4.2 | 54.8 | 890 |
| Second | 14.7 | 47.1 | 31.4 | 5.7 | 38.1 | 916 |
| Middle | 20.8 | 61.8 | 32.4 | 7.6 | 25.6 | 979 |
| Fourth | 31.5 | 72.6 | 28.3 | 12.3 | 20.8 | 986 |
| Highest | 55.6 | 84.5 | 23.0 | 14.3 | 9.7 | 966 |
| Total | 27.1 | 60.0 | 28.3 | 8.9 | 29.3 | 4,737 |

Table 3.5.1 Employment status: Women
Percent distribution of women age 15-49 by employment status, according to background characteristics, Myanmar DHS 2015-16

| 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 ${ }^{1}$ | Not currently employed |  |  |  |
| Age |  |  |  |  |  |
| 15-19 | 54.1 | 5.4 | 40.6 | 100.0 | 1,810 |
| 20-24 | 63.9 | 8.6 | 27.5 | 100.0 | 1,867 |
| 25-29 | 66.2 | 7.3 | 26.4 | 100.0 | 1,867 |
| 30-34 | 70.1 | 6.0 | 23.9 | 100.0 | 2,037 |
| 35-39 | 71.0 | 5.9 | 23.1 | 100.0 | 1,954 |
| 40-44 | 70.9 | 4.7 | 24.4 | 100.0 | 1,733 |
| 45-49 | 69.1 | 5.4 | 25.6 | 100.0 | 1,617 |
| Marital status |  |  |  |  |  |
| Never married | 69.5 | 4.7 | 25.9 | 100.0 | 4,278 |
| Married | 63.6 | 7.1 | 29.2 | 100.0 | 7,759 |
| Divorced/separated/ widowed | 77.8 | 5.5 | 16.6 | 100.0 | 848 |
| Number of living children |  |  |  |  |  |
| 0 | 68.9 | 5.6 | 25.5 | 100.0 | 5,331 |
| 1-2 | 64.9 | 7.0 | 28.1 | 100.0 | 4,510 |
| 3-4 | 65.8 | 5.3 | 28.9 | 100.0 | 2,279 |
| 5+ | 61.8 | 7.8 | 30.4 | 100.0 | 765 |
| Residence |  |  |  |  |  |
| Urban | 60.7 | 4.5 | 34.8 | 100.0 | 3,768 |
| Rural | 68.9 | 6.9 | 24.2 | 100.0 | 9,117 |
| States/Regions |  |  |  |  |  |
| Kachin | 58.9 | 3.3 | 37.7 | 100.0 | 374 |
| Kayah | 58.9 | 18.9 | 22.2 | 100.0 | 65 |
| Kayin | 48.2 | 8.2 | 43.5 | 100.0 | 303 |
| Chin | 65.7 | 8.7 | 25.6 | 100.0 | 102 |
| Sagaing | 65.0 | 9.2 | 25.8 | 100.0 | 1,410 |
| Tanintharyi | 61.3 | 9.6 | 29.1 | 100.0 | 283 |
| Bago | 68.7 | 7.6 | 23.7 | 100.0 | 1,244 |
| Magway | 79.0 | 6.0 | 14.9 | 100.0 | 1,081 |
| Mandalay | 84.4 | 3.2 | 12.4 | 100.0 | 1,541 |
| Mon | 58.7 | 6.3 | 35.0 | 100.0 | 463 |
| Rakhine | 46.8 | 10.7 | 42.4 | 100.0 | 777 |
| Yangon | 52.8 | 2.3 | 44.9 | 100.0 | 1,927 |
| Shan | 78.3 | 4.8 | 16.8 | 100.0 | 1,368 |
| Ayeyarwady | 65.3 | 8.1 | 26.7 | 100.0 | 1,650 |
| Nay Pyi Taw | 65.9 | 6.6 | 27.4 | 100.0 | 300 |
| Education ${ }^{2}$ |  |  |  |  |  |
| No education | 70.5 | 5.7 | 23.8 | 100.0 | 1,606 |
| Primary | 69.2 | 7.1 | 23.7 | 100.0 | 5,305 |
| Secondary | 60.9 | 5.8 | 33.3 | 100.0 | 4,646 |
| More than secondary | 70.7 | 4.6 | 24.7 | 100.0 | 1,325 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 63.8 | 9.2 | 26.9 | 100.0 | 2,274 |
| Second | 67.3 | 7.4 | 25.2 | 100.0 | 2,408 |
| Middle | 70.5 | 5.7 | 23.8 | 100.0 | 2,633 |
| Fourth | 67.6 | 5.0 | 27.5 | 100.0 | 2,702 |
| Highest | 63.3 | 4.3 | 32.4 | 100.0 | 2,868 |
| Total | 66.5 | 6.2 | 27.3 | 100.0 | 12,885 |

${ }^{1}$ 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.
${ }^{2}$ Total includes three women with missing information on education.

Table 3.5.2 Employment status: Men
Percent distribution of men age 15-49 by employment status, according to background characteristics, Myanmar DHS 2015-16

| 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 ${ }^{1}$ | Not currently employed |  |  |  |
| Age |  |  |  |  |  |
| 15-19 | 69.3 | 5.1 | 25.6 | 100.0 | 731 |
| 20-24 | 89.6 | 3.5 | 6.8 | 100.0 | 692 |
| 25-29 | 95.2 | 3.3 | 1.6 | 100.0 | 677 |
| 30-34 | 95.5 | 3.1 | 1.3 | 100.0 | 698 |
| 35-39 | 95.7 | 3.4 | 1.0 | 100.0 | 679 |
| 40-44 | 96.5 | 2.0 | 1.6 | 100.0 | 689 |
| 45-49 | 94.6 | 3.7 | 1.7 | 100.0 | 571 |
| Marital status |  |  |  |  |  |
| Never married | 80.2 | 4.7 | 15.1 | 100.0 | 1,646 |
| Married | 96.6 | 2.7 | 0.8 | 100.0 | 2,957 |
| Divorced/separated/widowed | 87.4 | 5.4 | 7.2 | 100.0 | 135 |
| Number of living children |  |  |  |  |  |
| 0 | 83.4 | 4.5 | 12.1 | 100.0 | 2,077 |
| 1-2 | 96.9 | 2.0 | 1.1 | 100.0 | 1,669 |
| 3-4 | 95.4 | 3.4 | 1.2 | 100.0 | 792 |
| 5+ | 93.5 | 5.2 | 1.3 | 100.0 | 200 |
| Residence |  |  |  |  |  |
| Urban | 86.8 | 3.4 | 9.8 | 100.0 | 1,350 |
| Rural | 92.1 | 3.5 | 4.4 | 100.0 | 3,387 |
| States/Regions |  |  |  |  |  |
| Kachin | 90.9 | 5.5 | 3.6 | 100.0 | 161 |
| Kayah | 83.9 | 11.6 | 4.6 | 100.0 | 23 |
| Kayin | 75.8 | 11.9 | 12.3 | 100.0 | 115 |
| Chin | 94.0 | 3.3 | 2.7 | 100.0 | 39 |
| Sagaing | 89.6 | 2.5 | 7.9 | 100.0 | 514 |
| Tanintharyi | 90.5 | 3.3 | 6.1 | 100.0 | 103 |
| Bago | 89.5 | 5.3 | 5.2 | 100.0 | 454 |
| Magway | 91.2 | 0.3 | 8.6 | 100.0 | 320 |
| Mandalay | 92.2 | 1.7 | 6.1 | 100.0 | 601 |
| Mon | 91.5 | 4.5 | 3.9 | 100.0 | 162 |
| Rakhine | 81.7 | 10.8 | 7.5 | 100.0 | 222 |
| Yangon | 91.3 | 1.4 | 7.3 | 100.0 | 703 |
| Shan | 93.8 | 3.4 | 2.8 | 100.0 | 542 |
| Ayeyarwady | 91.6 | 3.6 | 4.8 | 100.0 | 653 |
| Nay Pyi Taw | 94.6 | 2.2 | 3.2 | 100.0 | 126 |
| Education |  |  |  |  |  |
| No education | 93.5 | 4.5 | 2.0 | 100.0 | 575 |
| Primary | 96.0 | 2.8 | 1.2 | 100.0 | 1,684 |
| Secondary | 85.8 | 3.8 | 10.4 | 100.0 | 2,139 |
| More than secondary | 89.2 | 2.5 | 8.3 | 100.0 | 339 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 93.0 | 4.4 | 2.6 | 100.0 | 890 |
| Second | 92.1 | 4.6 | 3.2 | 100.0 | 916 |
| Middle | 91.8 | 2.9 | 5.3 | 100.0 | 979 |
| Fourth | 89.4 | 2.4 | 8.2 | 100.0 | 986 |
| Highest | 87.0 | 3.0 | 10.0 | 100.0 | 966 |
| Total | 90.6 | 3.4 | 5.9 | 100.0 | 4,737 |

${ }^{1}$ 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

Table 3.6.1 Occupation: Women
Percent distribution of women age 15-49 employed in the 12 months preceding the survey by occupation, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Professional/ technical/ managerial | Clerical | Sales and services | Skilled manual | Unskilled manual | Domestic service | Agriculture | Missing | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 4.6 | 1.5 | 21.4 | 16.7 | 37.3 | 0.4 | 17.5 | 0.6 | 100.0 | 1,076 |
| 20-24 | 9.7 | 3.9 | 20.8 | 14.2 | 31.5 | 0.3 | 18.9 | 0.7 | 100.0 | 1,354 |
| 25-29 | 9.8 | 3.1 | 21.5 | 14.0 | 31.8 | 0.4 | 19.2 | 0.2 | 100.0 | 1,373 |
| 30-34 | 7.7 | 1.6 | 26.1 | 10.2 | 33.4 | 0.4 | 20.2 | 0.3 | 100.0 | 1,550 |
| 35-39 | 8.0 | 2.0 | 28.5 | 8.2 | 33.5 | 0.1 | 19.4 | 0.3 | 100.0 | 1,502 |
| 40-44 | 6.2 | 1.5 | 31.0 | 6.6 | 33.8 | 0.6 | 19.9 | 0.4 | 100.0 | 1,310 |
| 45-49 | 7.8 | 2.2 | 27.2 | 5.0 | 34.8 | 0.2 | 22.7 | 0.1 | 100.0 | 1,204 |
| Marital status |  |  |  |  |  |  |  |  |  |  |
| Never married | 10.8 | 4.0 | 23.0 | 15.0 | 30.0 | 0.3 | 16.6 | 0.4 | 100.0 | 3,171 |
| Married | 6.4 | 1.5 | 25.6 | 8.4 | 35.8 | 0.3 | 21.8 | 0.4 | 100.0 | 5,489 |
| Divorced/separated/ widowed | 5.0 | 1.1 | 34.0 | 8.3 | 32.5 | 1.1 | 17.6 | 0.4 | 100.0 | 707 |
| Number of living children |  |  |  |  |  |  |  |  |  |  |
| 0 | 10.1 | 3.7 | 23.0 | 15.0 | 30.3 | 0.3 | 17.1 | 0.4 | 100.0 | 3,972 |
| 1-2 | 7.7 | 1.7 | 28.3 | 8.4 | 34.1 | 0.3 | 18.9 | 0.5 | 100.0 | 3,243 |
| 3-4 | 4.3 | 0.7 | 26.8 | 6.4 | 37.7 | 0.3 | 23.6 | 0.2 | 100.0 | 1,620 |
| 5+ | 1.7 | 0.1 | 19.7 | 3.6 | 42.2 | 0.8 | 31.6 | 0.3 | 100.0 | 533 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 15.1 | 6.8 | 43.9 | 16.9 | 13.0 | 1.1 | 2.5 | 0.7 | 100.0 | 2,457 |
| Rural | 5.2 | 0.7 | 18.7 | 8.4 | 40.9 | 0.1 | 25.8 | 0.3 | 100.0 | 6,910 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |
| Kachin | 14.9 | 1.2 | 34.7 | 6.5 | 13.3 | 0.0 | 29.4 | 0.0 | 100.0 | 233 |
| Kayah | 11.9 | 1.3 | 18.8 | 6.0 | 57.6 | 0.0 | 4.0 | 0.3 | 100.0 | 50 |
| Kayin | 11.4 | 0.7 | 36.9 | 4.8 | 14.9 | 0.0 | 30.8 | 0.5 | 100.0 | 171 |
| Chin | 12.9 | 3.6 | 12.7 | 3.1 | 7.8 | 0.0 | 59.9 | 0.0 | 100.0 | 76 |
| Sagaing | 4.7 | 1.6 | 26.8 | 13.1 | 26.7 | 0.0 | 26.8 | 0.3 | 100.0 | 1,046 |
| Tanintharyi | 6.6 | 3.7 | 36.2 | 10.4 | 35.3 | 0.2 | 7.6 | 0.0 | 100.0 | 201 |
| Bago | 4.9 | 2.1 | 23.8 | 8.8 | 31.6 | 0.2 | 28.6 | 0.1 | 100.0 | 949 |
| Magway | 5.8 | 1.5 | 15.8 | 5.0 | 41.9 | 0.1 | 28.9 | 1.1 | 100.0 | 919 |
| Mandalay | 5.6 | 1.8 | 21.5 | 13.0 | 55.0 | 0.0 | 2.8 | 0.3 | 100.0 | 1,350 |
| Mon | 10.0 | 2.5 | 33.5 | 13.6 | 37.3 | 0.0 | 3.0 | 0.2 | 100.0 | 301 |
| Rakhine | 9.0 | 1.4 | 26.3 | 11.4 | 40.2 | 0.2 | 11.3 | 0.1 | 100.0 | 446 |
| Yangon | 10.7 | 7.5 | 39.8 | 22.6 | 14.5 | 1.7 | 2.8 | 0.3 | 100.0 | 1,061 |
| Shan | 10.8 | 1.1 | 14.7 | 8.7 | 35.5 | 0.0 | 28.1 | 1.1 | 100.0 | 1,137 |
| Ayeyarwady | 7.0 | 1.1 | 27.8 | 5.2 | 30.1 | 0.2 | 28.7 | 0.0 | 100.0 | 1,210 |
| Nay Pyi Taw | 13.8 | 2.0 | 23.6 | 3.1 | 30.2 | 3.1 | 24.1 | 0.1 | 100.0 | 218 |
| Education ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| No education | 5.4 | 0.0 | 12.8 | 3.1 | 50.2 | 0.4 | 27.8 | 0.3 | 100.0 | 1,223 |
| Primary | 1.3 | 0.2 | 21.6 | 8.1 | 43.5 | 0.3 | 24.8 | 0.3 | 100.0 | 4,047 |
| Secondary | 5.2 | 2.2 | 34.9 | 17.8 | 23.4 | 0.5 | 15.6 | 0.4 | 100.0 | 3,097 |
| More than secondary | 45.2 | 13.9 | 26.1 | 7.8 | 4.7 | 0.0 | 1.8 | 0.6 | 100.0 | 998 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 2.0 | 0.1 | 12.5 | 5.3 | 55.8 | 0.2 | 24.0 | 0.1 | 100.0 | 1,661 |
| Second | 2.3 | 0.3 | 17.5 | 7.1 | 42.8 | 0.3 | 29.5 | 0.3 | 100.0 | 1,800 |
| Middle | 4.2 | 0.9 | 21.4 | 11.0 | 37.1 | 0.2 | 24.9 | 0.3 | 100.0 | 2,008 |
| Fourth | 9.9 | 1.9 | 32.1 | 13.4 | 24.8 | 0.7 | 17.0 | 0.2 | 100.0 | 1,959 |
| Highest | 19.4 | 7.8 | 40.8 | 15.2 | 11.3 | 0.2 | 4.3 | 1.0 | 100.0 | 1,939 |
| Total | 7.8 | 2.3 | 25.3 | 10.6 | 33.6 | 0.3 | 19.7 | 0.4 | 100.0 | 9,367 |

${ }^{1}$ Total includes three women with missing information on education.

Table 3.6.2 Occupation: Men
Percent distribution of men age 15-49 employed in the 12 months preceding the survey by occupation, according to background characteristics,
Myanmar DHS 2015-16

| Background characteristic | Professional/ technical/ managerial | Clerical | Sales and services | Skilled manual | Unskilled manual | Domestic service | Agriculture | Missing | Total | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 3.1 | 0.7 | 8.9 | 22.4 | 34.9 | 0.3 | 29.6 | 0.0 | 100.0 | 544 |
| 20-24 | 8.0 | 2.0 | 8.9 | 23.3 | 29.2 | 0.6 | 27.9 | 0.0 | 100.0 | 644 |
| 25-29 | 8.3 | 2.7 | 12.1 | 22.2 | 28.0 | 0.3 | 26.4 | 0.0 | 100.0 | 667 |
| 30-34 | 5.8 | 1.6 | 7.7 | 23.0 | 29.4 | 0.3 | 31.5 | 0.6 | 100.0 | 689 |
| 35-39 | 9.2 | 1.9 | 8.9 | 21.8 | 31.6 | 0.2 | 26.0 | 0.5 | 100.0 | 672 |
| 40-44 | 7.6 | 0.9 | 10.7 | 20.1 | 33.0 | 0.1 | 27.3 | 0.3 | 100.0 | 678 |
| 45-49 | 6.9 | 1.0 | 10.7 | 16.8 | 32.1 | 0.2 | 31.9 | 0.3 | 100.0 | 561 |
| Marital status |  |  |  |  |  |  |  |  |  |  |
| Never married | 6.8 | 2.0 | 10.8 | 21.9 | 29.3 | 0.1 | 29.0 | 0.0 | 100.0 | 1,397 |
| Married | 7.2 | 1.5 | 9.1 | 21.1 | 32.0 | 0.4 | 28.4 | 0.3 | 100.0 | 2,933 |
| Divorced/separated/ widowed | 8.2 | 0.0 | 12.1 | 23.6 | 27.3 | 0.0 | 27.7 | 1.1 | 100.0 | 125 |
| Number of living children |  |  |  |  |  |  |  |  |  |  |
| 0 | 7.6 | 2.1 | 10.4 | 22.1 | 29.4 | 0.1 | 28.2 | 0.0 | 100.0 | 1,825 |
| 1-2 | 8.0 | 1.6 | 10.3 | 23.6 | 30.4 | 0.4 | 25.2 | 0.4 | 100.0 | 1,651 |
| 3-4 | 4.5 | 0.8 | 8.3 | 18.2 | 34.5 | 0.5 | 32.7 | 0.5 | 100.0 | 782 |
| 5+ | 4.7 | 0.1 | 3.8 | 10.2 | 37.8 | 0.0 | 43.4 | 0.0 | 100.0 | 197 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 13.6 | 3.6 | 22.5 | 38.7 | 16.9 | 0.8 | 3.7 | 0.3 | 100.0 | 1,218 |
| Rural | 4.6 | 0.8 | 4.9 | 15.0 | 36.4 | 0.1 | 37.9 | 0.2 | 100.0 | 3,237 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |
| Kachin | 8.8 | 0.7 | 4.5 | 31.0 | 11.9 | 0.0 | 43.2 | 0.0 | 100.0 | 155 |
| Kayah | 9.0 | 1.6 | 3.8 | 16.1 | 63.8 | 0.0 | 5.7 | 0.0 | 100.0 | 22 |
| Kayin | 4.4 | 0.8 | 10.2 | 17.9 | 19.2 | 0.0 | 47.1 | 0.4 | 100.0 | 101 |
| Chin | 16.6 | 3.3 | 3.0 | 25.5 | 14.2 | 0.4 | 37.0 | 0.0 | 100.0 | 38 |
| Sagaing | 5.0 | 0.5 | 8.2 | 18.4 | 15.9 | 0.3 | 51.3 | 0.3 | 100.0 | 474 |
| Tanintharyi | 2.9 | 1.5 | 4.6 | 25.7 | 48.8 | 0.0 | 16.1 | 0.4 | 100.0 | 96 |
| Bago | 4.5 | 1.5 | 7.3 | 17.5 | 23.1 | 0.6 | 45.5 | 0.0 | 100.0 | 430 |
| Magway | 6.7 | 0.5 | 3.1 | 15.7 | 47.0 | 0.0 | 25.7 | 1.2 | 100.0 | 292 |
| Mandalay | 4.7 | 3.5 | 9.7 | 29.2 | 47.8 | 0.0 | 5.0 | 0.0 | 100.0 | 564 |
| Mon | 4.6 | 0.9 | 13.2 | 26.7 | 44.8 | 0.0 | 9.9 | 0.0 | 100.0 | 156 |
| Rakhine | 6.9 | 2.5 | 8.0 | 13.1 | 52.9 | 0.0 | 16.6 | 0.0 | 100.0 | 205 |
| Yangon | 8.4 | 3.3 | 23.8 | 35.0 | 14.4 | 1.4 | 13.6 | 0.2 | 100.0 | 652 |
| Shan | 15.6 | 0.9 | 4.4 | 16.9 | 33.8 | 0.0 | 27.8 | 0.6 | 100.0 | 527 |
| Ayeyarwady | 4.0 | 0.3 | 8.8 | 10.9 | 35.5 | 0.0 | 40.5 | 0.0 | 100.0 | 621 |
| Nay Pyi Taw | 11.9 | 1.0 | 4.0 | 20.6 | 21.7 | 0.0 | 40.8 | 0.0 | 100.0 | 122 |
| Education |  |  |  |  |  |  |  |  |  |  |
| No education | 8.5 | 0.0 | 2.3 | 10.8 | 45.9 | 0.2 | 31.8 | 0.5 | 100.0 | 564 |
| Primary | 2.3 | 0.1 | 6.6 | 16.2 | 39.8 | 0.2 | 34.5 | 0.3 | 100.0 | 1,663 |
| Secondary | 6.6 | 1.8 | 12.5 | 30.3 | 22.6 | 0.5 | 25.5 | 0.1 | 100.0 | 1,917 |
| More than secondary | 33.1 | 11.1 | 22.4 | 14.0 | 9.6 | 0.0 | 9.9 | 0.0 | 100.0 | 311 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 3.2 | 0.0 | 2.5 | 9.3 | 51.4 | 0.1 | 33.4 | 0.2 | 100.0 | 867 |
| Second | 3.1 | 0.3 | 4.4 | 15.4 | 35.8 | 0.2 | 40.5 | 0.2 | 100.0 | 886 |
| Middle | 4.0 | 1.0 | 6.7 | 21.0 | 32.4 | 0.2 | 34.5 | 0.3 | 100.0 | 928 |
| Fourth | 7.6 | 2.0 | 10.9 | 27.8 | 24.6 | 0.7 | 26.1 | 0.3 | 100.0 | 905 |
| Highest | 17.8 | 4.7 | 24.2 | 33.6 | 11.2 | 0.2 | 8.0 | 0.2 | 100.0 | 869 |
| Total | 7.1 | 1.6 | 9.7 | 21.4 | 31.1 | 0.3 | 28.6 | 0.2 | 100.0 | 4,455 |

Table 3.7 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), Myanmar DHS 2015-16

| Employment characteristic | Agricultural <br> work | Nonagricultural <br> work | Total |
| :--- | ---: | ---: | ---: |
| Type of earnings |  |  |  |
| Cash only | 69.3 | 90.1 | 86.0 |
| Cash and in-kind | 13.1 | 4.0 | 5.8 |
| In-kind only | 10.4 | 1.4 | 3.2 |
| Not paid | 7.2 | 4.4 | 5.0 |
| $\quad$ Total | 100.0 | 100.0 | 100.0 |
| Type of employer |  |  |  |
| $\quad$ Employed by family member | 59.8 | 22.4 | 29.8 |
| Employed by nonfamily member | 18.0 | 42.9 | 38.0 |
| Self-employed | 22.2 | 34.7 | 32.2 |
| $\quad$ Total | 100.0 | 100.0 | 100.0 |
| Continuity of employment |  |  |  |
| $\quad$ All year | 45.3 | 70.3 | 65.4 |
| Seasonal | 49.4 | 22.4 | 27.7 |
| Occasional | 5.4 | 7.4 | 6.9 |
| $\quad$ Total | 100.0 | 100.0 | 100.0 |
| Number of women employed |  |  | 7,486 |
| $\quad$ during the last 12 months | 1,846 | 9,367 |  |

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

Table 3.8.1 Use of tobacco: Women
Percentage of women age 15-49 who smoke cigarettes or a pipe/cheroot or use other tobacco products, according to background characteristics and maternity status, Myanmar DHS 201516

| Background characteristic | Uses tobacco |  |  | Does not use tobacco | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cigarettes | Pipe/ Cheroot | Other tobacco |  |  |
| Age |  |  |  |  |  |
| 15-19 | 0.2 | 0.4 | 0.0 | 99.5 | 1,810 |
| 20-24 | 0.3 | 0.4 | 0.2 | 99.2 | 1,867 |
| 25-29 | 0.8 | 0.9 | 0.2 | 98.1 | 1,867 |
| 30-34 | 1.4 | 1.3 | 0.4 | 96.9 | 2,037 |
| 35-39 | 2.3 | 3.1 | 0.3 | 94.3 | 1,954 |
| 40-44 | 3.0 | 3.5 | 0.5 | 93.5 | 1,733 |
| 45-49 | 4.1 | 4.4 | 0.6 | 91.0 | 1,617 |
| Maternity status |  |  |  |  |  |
| Pregnant | 1.6 | 1.8 | 0.2 | 96.6 | 466 |
| Breastfeeding (not pregnant) | 1.5 | 2.5 | 0.5 | 95.6 | 1,855 |
| Neither | 1.7 | 1.8 | 0.3 | 96.3 | 10,564 |
| Residence |  |  |  |  |  |
| Urban | 0.8 | 0.3 | 0.2 | 98.8 | 3,768 |
| Rural | 2.0 | 2.6 | 0.4 | 95.1 | 9,117 |
| States/Regions |  |  |  |  |  |
| Kachin | 1.1 | 0.8 | 0.0 | 98.3 | 374 |
| Kayah | 0.4 | 0.1 | 0.0 | 99.5 | 65 |
| Kayin | 9.7 | 7.5 | 0.1 | 83.2 | 303 |
| Chin | 4.3 | 2.7 | 15.3 | 79.2 | 102 |
| Sagaing | 1.4 | 0.2 | 0.3 | 98.2 | 1,410 |
| Tanintharyi | 3.1 | 0.0 | 0.9 | 96.0 | 283 |
| Bago | 1.2 | 2.4 | 0.2 | 96.4 | 1,244 |
| Magway | 0.8 | 0.7 | 0.3 | 98.3 | 1,081 |
| Mandalay | 0.3 | 0.2 | 0.0 | 99.5 | 1,541 |
| Mon | 3.3 | 3.9 | 0.2 | 92.9 | 463 |
| Rakhine | 1.9 | 10.8 | 0.5 | 87.0 | 777 |
| Yangon | 1.3 | 0.0 | 0.0 | 98.7 | 1,927 |
| Shan | 1.4 | 1.6 | 0.3 | 96.8 | 1,368 |
| Ayeyarwady | 2.3 | 3.3 | 0.2 | 94.3 | 1,650 |
| Nay Pyi Taw | 1.6 | 0.4 | 0.0 | 98.0 | 300 |
| Education ${ }^{1}$ |  |  |  |  |  |
| No education | 4.6 | 5.3 | 0.4 | 90.0 | 1,606 |
| Primary | 2.1 | 2.8 | 0.4 | 94.8 | 5,305 |
| Secondary | 0.5 | 0.4 | 0.2 | 98.9 | 4,646 |
| More than secondary | 0.3 | 0.0 | 0.1 | 99.6 | 1,325 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 4.0 | 6.0 | 0.4 | 89.7 | 2,274 |
| Second | 2.0 | 2.7 | 0.6 | 94.9 | 2,408 |
| Middle | 1.5 | 1.2 | 0.3 | 97.1 | 2,633 |
| Fourth | 1.0 | 0.3 | 0.2 | 98.5 | 2,702 |
| Highest | 0.2 | 0.3 | 0.1 | 99.4 | 2,868 |
| Total | 1.7 | 1.9 | 0.3 | 96.2 | 12,885 |

${ }^{1}$ Total includes three women with missing information on education.

Table 3.8.2 Use of tobacco: Men
Percentage of men age 15-49 who smoke cigarettes or a pipe/cheroot 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, Myanmar DHS 2015-16

| Background characteristic | Uses tobacco |  |  | Percent distribution of men who smoke cigarettes by number of cigarettes smoked in the past 24 hours |  |  |  |  |  | Total | Number of cigarette smokers |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cigarettes | Pipe/ Cheroot | Other tobacco | Number of men | 0 | 1-2 | 3-5 | 6-9 | 10+ |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 20.2 | 6.1 | 0.6 | 731 | 9.2 | 34.6 | 30.8 | 9.2 | 16.2 | 100.0 | 148 |
| 20-24 | 37.6 | 9.5 | 1.2 | 692 | 5.3 | 29.0 | 38.2 | 9.0 | 18.4 | 100.0 | 260 |
| 25-29 | 37.0 | 13.5 | 2.3 | 677 | 7.0 | 30.7 | 40.6 | 10.9 | 10.7 | 100.0 | 250 |
| 30-34 | 31.2 | 15.8 | 2.3 | 698 | 3.0 | 34.5 | 39.2 | 6.1 | 17.2 | 100.0 | 218 |
| 35-39 | 34.9 | 14.7 | 2.6 | 679 | 3.4 | 26.8 | 40.1 | 7.6 | 22.2 | 100.0 | 237 |
| 40-44 | 34.2 | 20.7 | 2.0 | 689 | 5.0 | 31.5 | 39.3 | 9.9 | 14.4 | 100.0 | 236 |
| 45-49 | 27.1 | 22.0 | 3.9 | 571 | 3.4 | 39.1 | 36.8 | 7.1 | 13.6 | 100.0 | 155 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 35.0 | 11.3 | 0.7 | 1,350 | 3.2 | 26.4 | 40.3 | 9.6 | 20.5 | 100.0 | 473 |
| Rural | 30.4 | 15.6 | 2.6 | 3,387 | 5.9 | 34.2 | 37.4 | 8.2 | 14.2 | 100.0 | 1,030 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |  |
| Kachin | 44.8 | 5.0 | 1.3 | 161 | 0.6 | 22.4 | 46.5 | 9.3 | 21.2 | 100.0 | 72 |
| Kayah | 23.7 | 15.5 | 0.0 | 23 | 16.5 | 34.4 | 27.9 | 8.3 | 12.8 | 100.0 | 5 |
| Kayin | 48.5 | 6.9 | 1.1 | 115 | 0.7 | 28.8 | 40.9 | 9.5 | 20.1 | 100.0 | 56 |
| Chin | 43.1 | 15.3 | 5.3 | 39 | 4.8 | 23.9 | 39.1 | 11.0 | 21.3 | 100.0 | 17 |
| Sagaing | 32.9 | 19.1 | 12.0 | 514 | 6.7 | 39.0 | 39.8 | 6.9 | 7.7 | 100.0 | 169 |
| Tanintharyi | 50.7 | 23.9 | 0.0 | 103 | 3.9 | 20.4 | 45.0 | 10.6 | 20.1 | 100.0 | 52 |
| Bago | 28.1 | 28.0 | 1.5 | 454 | 33.2 | 30.8 | 21.0 | 7.2 | 7.9 | 100.0 | 128 |
| Magway | 13.0 | 21.1 | 0.3 | 320 | (6.3) | (41.8) | (30.8) | (11.6) | (9.6) | 100.0 | 42 |
| Mandalay | 25.8 | 18.1 | 0.0 | 601 | 1.1 | 46.3 | 35.9 | 8.3 | 8.4 | 100.0 | 155 |
| Mon | 30.9 | 12.0 | 3.4 | 162 | 3.5 | 33.0 | 34.9 | 7.4 | 21.3 | 100.0 | 50 |
| Rakhine | 47.5 | 9.7 | 0.4 | 222 | 2.4 | 21.0 | 48.3 | 13.6 | 14.8 | 100.0 | 106 |
| Yangon | 32.0 | 11.4 | 0.2 | 703 | 1.5 | 31.3 | 41.5 | 5.0 | 20.7 | 100.0 | 225 |
| Shan | 41.4 | 3.5 | 1.4 | 542 | 2.7 | 21.7 | 31.7 | 14.9 | 29.0 | 100.0 | 224 |
| Ayeyarwady | 26.6 | 8.6 | 1.2 | 653 | 0.0 | 34.5 | 49.4 | 3.4 | 12.7 | 100.0 | 174 |
| Nay Pyi Taw | 23.0 | 25.0 | 0.0 | 126 | 0.0 | 55.9 | 24.9 | 10.5 | 8.7 | 100.0 | 29 |
| Education |  |  |  |  |  |  |  |  |  |  |  |
| No education | 41.8 | 14.7 | 2.3 | 575 | 4.1 | 26.6 | 35.3 | 8.2 | 25.9 | 100.0 | 240 |
| Primary | 30.0 | 17.8 | 2.9 | 1,684 | 4.2 | 35.6 | 39.2 | 8.4 | 12.6 | 100.0 | 505 |
| Secondary | 31.2 | 12.6 | 1.7 | 2,139 | 5.8 | 31.1 | 39.8 | 7.7 | 15.6 | 100.0 | 667 |
| More than secondary | 27.1 | 7.6 | 0.0 | 339 | 7.7 | 28.2 | 30.8 | 18.1 | 15.1 | 100.0 | 92 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 33.0 | 18.8 | 2.5 | 890 | 4.7 | 27.9 | 40.3 | 8.1 | 18.9 | 100.0 | 294 |
| Second | 31.1 | 16.8 | 3.1 | 916 | 3.1 | 37.2 | 40.0 | 8.9 | 10.8 | 100.0 | 285 |
| Middle | 29.2 | 16.8 | 2.8 | 979 | 8.0 | 35.0 | 35.5 | 7.1 | 14.4 | 100.0 | 286 |
| Fourth | 33.7 | 10.3 | 1.3 | 986 | 5.6 | 30.3 | 41.4 | 8.9 | 13.8 | 100.0 | 332 |
| Highest | 31.8 | 9.5 | 0.7 | 966 | 4.0 | 28.8 | 34.1 | 10.1 | 23.0 | 100.0 | 307 |
| Total | 31.7 | 14.3 | 2.1 | 4,737 | 5.1 | 31.7 | 38.3 | 8.6 | 16.2 | 100.0 | 1,504 |

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

Table 3.9.1 Use of betel quid: Women
Percentage of women age 15-49 who chew betel quid, and the percent distribution of women who chew betel quid by number of pieces consumed in preceding 24 hours, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Percentage of women chewing betel quid | Number of women | Percent distribution of women who chew betel quid by number of betel quid chewed in the past 24 hours |  |  |  |  | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 0 | 1-2 | 3-5 | 6-9 | 10+ |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 4.9 | 1,810 | 10.7 | 58.9 | 20.7 | 4.0 | 5.7 | 100.0 | 88 |
| 20-24 | 10.7 | 1,867 | 5.7 | 38.9 | 32.2 | 8.8 | 14.4 | 100.0 | 200 |
| 25-29 | 13.9 | 1,867 | 3.6 | 33.1 | 32.1 | 8.7 | 22.5 | 100.0 | 259 |
| 30-34 | 20.2 | 2,037 | 3.4 | 28.5 | 34.4 | 10.4 | 23.2 | 100.0 | 412 |
| 35-39 | 24.9 | 1,954 | 2.6 | 24.9 | 36.2 | 13.1 | 23.2 | 100.0 | 486 |
| 40-44 | 26.0 | 1,733 | 1.7 | 20.4 | 42.5 | 8.7 | 26.8 | 100.0 | 450 |
| 45-49 | 27.7 | 1,617 | 0.6 | 22.0 | 42.1 | 10.9 | 24.3 | 100.0 | 448 |
| Maternity status |  |  |  |  |  |  |  |  |  |
| Pregnant | 17.6 | 466 | 1.5 | 31.7 | 44.7 | 6.9 | 15.2 | 100.0 | 82 |
| Breastfeeding (not pregnant) | 21.9 | 1,855 | 3.6 | 28.0 | 35.7 | 8.9 | 23.8 | 100.0 | 406 |
| Neither | 17.6 | 10,564 | 2.8 | 27.2 | 36.7 | 10.6 | 22.7 | 100.0 | 1,855 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 12.8 | 3,768 | 3.2 | 22.2 | 29.2 | 15.9 | 29.5 | 100.0 | 483 |
| Rural | 20.4 | 9,117 | 2.8 | 28.9 | 38.8 | 8.7 | 20.8 | 100.0 | 1,860 |
| States/Regions |  |  |  |  |  |  |  |  |  |
| Kachin | 5.2 | 374 | (32.4) | (25.2) | (27.3) | (8.8) | (6.3) | 100.0 | 19 |
| Kayah | 36.1 | 65 | 4.4 | 26.0 | 34.4 | 8.4 | 26.9 | 100.0 | 23 |
| Kayin | 41.2 | 303 | 7.1 | 33.6 | 40.9 | 7.4 | 10.9 | 100.0 | 125 |
| Chin | 12.9 | 102 | 11.5 | 37.5 | 35.4 | 6.3 | 9.3 | 100.0 | 13 |
| Sagaing | 11.5 | 1,410 | 1.8 | 23.0 | 45.8 | 6.5 | 23.0 | 100.0 | 162 |
| Tanintharyi | 17.7 | 283 | 4.1 | 29.0 | 34.4 | 6.5 | 26.0 | 100.0 | 50 |
| Bago | 25.6 | 1,244 | 1.9 | 18.3 | 44.0 | 11.1 | 24.7 | 100.0 | 318 |
| Magway | 6.4 | 1,081 | 3.0 | 18.7 | 43.0 | 15.6 | 19.8 | 100.0 | 69 |
| Mandalay | 7.3 | 1,541 | 2.1 | 22.1 | 44.1 | 7.7 | 24.0 | 100.0 | 113 |
| Mon | 21.2 | 463 | 3.0 | 36.1 | 32.8 | 9.1 | 18.9 | 100.0 | 98 |
| Rakhine | 50.2 | 777 | 4.5 | 32.3 | 36.3 | 9.5 | 17.4 | 100.0 | 390 |
| Yangon | 11.7 | 1,927 | 0.0 | 24.8 | 22.0 | 19.9 | 33.3 | 100.0 | 226 |
| Shan | 10.8 | 1,368 | 1.5 | 26.6 | 34.9 | 13.5 | 23.6 | 100.0 | 148 |
| Ayeyarwady | 30.7 | 1,650 | 1.5 | 32.3 | 36.7 | 7.2 | 22.2 | 100.0 | 506 |
| Nay Pyi Taw | 27.9 | 300 | 4.3 | 22.9 | 27.8 | 10.1 | 34.8 | 100.0 | 84 |
| Education ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| No education | 28.1 | 1,606 | 1.4 | 24.8 | 39.9 | 13.1 | 20.7 | 100.0 | 452 |
| Primary | 24.7 | 5,305 | 2.3 | 27.6 | 39.0 | 9.0 | 22.1 | 100.0 | 1,311 |
| Secondary | 11.2 | 4,646 | 5.0 | 28.7 | 29.5 | 10.7 | 26.1 | 100.0 | 519 |
| More than secondary | 4.6 | 1,325 | 7.0 | 34.9 | 30.9 | 8.9 | 18.3 | 100.0 | 61 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 35.0 | 2,274 | 2.0 | 28.4 | 40.6 | 10.2 | 18.8 | 100.0 | 796 |
| Second | 22.8 | 2,408 | 2.2 | 29.0 | 38.7 | 10.4 | 19.7 | 100.0 | 548 |
| Middle | 16.2 | 2,633 | 2.9 | 29.5 | 36.0 | 7.8 | 23.9 | 100.0 | 427 |
| Fourth | 12.5 | 2,702 | 4.9 | 24.5 | 33.0 | 11.9 | 25.8 | 100.0 | 336 |
| Highest | 8.2 | 2,868 | 4.2 | 21.8 | 26.9 | 11.4 | 35.6 | 100.0 | 235 |
| Total | 18.2 | 12,885 | 2.9 | 27.5 | 36.8 | 10.2 | 22.6 | 100.0 | 2,343 |

[^5]Table 3.9.2 Use of betel quid: Men
Percentage of men age 15-49 who chew betel quid, and the percent distribution of men who chew betel quid by number of pieces consumed in preceding 24 hours, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Percent of men chewing betel quid | Number of men | Percent distribution of men who chew betel quid by number of betel quid chewed in the past 24 hours |  |  |  |  | Total | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 0 | 1-2 | 3-5 | 6-9 | 10+ |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 39.1 | 731 | 6.0 | 25.2 | 28.6 | 16.0 | 24.2 | 100.0 | 286 |
| 20-24 | 60.1 | 692 | 3.0 | 14.3 | 28.3 | 20.3 | 34.1 | 100.0 | 416 |
| 25-29 | 65.1 | 677 | 1.8 | 13.3 | 22.6 | 12.3 | 49.9 | 100.0 | 441 |
| 30-34 | 62.8 | 698 | 3.9 | 10.4 | 20.3 | 16.1 | 49.2 | 100.0 | 438 |
| 35-39 | 64.5 | 679 | 1.7 | 10.6 | 29.7 | 14.9 | 42.7 | 100.0 | 438 |
| 40-44 | 63.3 | 689 | 1.2 | 7.9 | 24.0 | 16.6 | 50.2 | 100.0 | 436 |
| 45-49 | 59.0 | 571 | 1.1 | 10.2 | 27.5 | 17.0 | 44.3 | 100.0 | 337 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 57.1 | 1,350 | 2.4 | 8.3 | 17.8 | 17.9 | 53.3 | 100.0 | 771 |
| Rural | 59.7 | 3,387 | 2.6 | 14.2 | 28.6 | 15.5 | 39.1 | 100.0 | 2,021 |
| States/Regions |  |  |  |  |  |  |  |  |  |
| Kachin | 33.4 | 161 | 0.8 | 32.5 | 29.3 | 9.0 | 28.4 | 100.0 | 54 |
| Kayah | 66.1 | 23 | 7.3 | 10.2 | 36.2 | 14.4 | 31.8 | 100.0 | 15 |
| Kayin | 62.4 | 115 | 1.1 | 16.9 | 33.2 | 17.0 | 31.7 | 100.0 | 72 |
| Chin | 52.4 | 39 | 33.9 | 16.0 | 23.8 | 7.4 | 19.0 | 100.0 | 20 |
| Sagaing | 57.8 | 514 | 5.2 | 19.6 | 28.4 | 14.5 | 32.4 | 100.0 | 297 |
| Tanintharyi | 55.8 | 103 | 5.1 | 26.9 | 32.6 | 10.5 | 24.8 | 100.0 | 57 |
| Bago | 75.0 | 454 | 5.1 | 10.1 | 22.3 | 15.8 | 46.6 | 100.0 | 341 |
| Magway | 54.5 | 320 | 1.1 | 12.9 | 29.3 | 19.7 | 37.0 | 100.0 | 174 |
| Mandalay | 53.7 | 601 | 0.5 | 11.0 | 24.3 | 18.3 | 45.8 | 100.0 | 323 |
| Mon | 58.2 | 162 | 0.6 | 20.5 | 31.3 | 15.0 | 32.6 | 100.0 | 94 |
| Rakhine | 79.0 | 222 | 0.0 | 18.9 | 37.4 | 16.7 | 27.0 | 100.0 | 175 |
| Yangon | 67.0 | 703 | 0.0 | 3.7 | 16.9 | 18.6 | 60.4 | 100.0 | 471 |
| Shan | 33.1 | 542 | 10.8 | 22.2 | 34.4 | 7.6 | 25.0 | 100.0 | 179 |
| Ayeyarwady | 68.2 | 653 | 0.4 | 7.2 | 23.5 | 15.6 | 53.2 | 100.0 | 445 |
| Nay Pyi Taw | 59.1 | 126 | 0.5 | 11.7 | 22.2 | 26.1 | 39.5 | 100.0 | 74 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 50.8 | 575 | 1.5 | 17.0 | 32.4 | 15.3 | 33.7 | 100.0 | 292 |
| Primary | 66.3 | 1,684 | 1.8 | 12.6 | 25.4 | 16.7 | 43.3 | 100.0 | 1,117 |
| Secondary | 56.5 | 2,139 | 3.5 | 12.5 | 24.0 | 15.3 | 44.7 | 100.0 | 1,208 |
| More than secondary | 51.6 | 339 | 2.1 | 5.2 | 27.4 | 19.7 | 45.6 | 100.0 | 175 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 64.8 | 890 | 1.8 | 15.8 | 25.5 | 14.3 | 42.5 | 100.0 | 577 |
| Second | 62.1 | 916 | 3.0 | 13.1 | 30.0 | 17.8 | 36.1 | 100.0 | 569 |
| Middle | 59.5 | 979 | 2.2 | 14.2 | 27.8 | 16.8 | 39.0 | 100.0 | 583 |
| Fourth | 56.1 | 986 | 4.1 | 9.9 | 24.4 | 17.1 | 44.5 | 100.0 | 553 |
| Highest | 53.0 | 966 | 1.5 | 9.4 | 19.8 | 14.4 | 54.4 | 100.0 | 511 |
| Total | 58.9 | 4,737 | 2.5 | 12.6 | 25.6 | 16.1 | 43.0 | 100.0 | 2,792 |

Table 3.10.1 Knowledge of tuberculosis: Women
Percentage of women age 15-49 who have heard of tuberculosis (TB), and among women who have heard of TB, the percentage who know that TB is spread through the air by coughing, the percentage who believe that TB can be cured, and the percentage who have ever been told by a doctor or nurse that they have TB, according to background characteristics and maternity status, Myanmar DHS 2015-16

| Background characteristic | Among all respondents: |  | Among respondents who have heard of TB: |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who have heard of TB | Number | Percentage who report that TB is spread though coughing | Percentage who believe that TB can be cured | Percentage who have been told by doctor/nurse that they have TB | Number |
| Age |  |  |  |  |  |  |
| 15-19 | 89.6 | 1,810 | 67.3 | 83.1 | 1.9 | 1,621 |
| 20-24 | 92.8 | 1,867 | 69.3 | 87.9 | 2.4 | 1,732 |
| 25-29 | 92.9 | 1,867 | 74.1 | 89.5 | 2.6 | 1,735 |
| 30-34 | 94.7 | 2,037 | 72.5 | 90.0 | 2.2 | 1,929 |
| 35-39 | 93.8 | 1,954 | 73.4 | 91.3 | 2.9 | 1,832 |
| 40-44 | 94.6 | 1,733 | 71.5 | 88.1 | 2.6 | 1,639 |
| 45-49 | 94.2 | 1,617 | 70.7 | 90.7 | 3.0 | 1,523 |
| Maternity status |  |  |  |  |  |  |
| Pregnant | 91.0 | 466 | 68.0 | 86.2 | 1.2 | 424 |
| Breastfeeding (not pregnant) | 91.9 | 1,855 | 67.5 | 84.9 | 1.8 | 1,705 |
| Neither | 93.6 | 10,564 | 72.1 | 89.5 | 2.7 | 9,883 |
| Residence |  |  |  |  |  |  |
| Urban | 98.3 | 3,768 | 83.8 | 95.5 | 3.6 | 3,706 |
| Rural | 91.1 | 9,117 | 65.8 | 85.7 | 2.0 | 8,306 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 94.8 | 374 | 66.9 | 87.1 | 3.1 | 355 |
| Kayah | 94.7 | 65 | 64.1 | 85.9 | 2.0 | 61 |
| Kayin | 88.9 | 303 | 66.4 | 84.5 | 2.7 | 269 |
| Chin | 80.9 | 102 | 47.2 | 81.1 | 3.9 | 82 |
| Sagaing | 96.9 | 1,410 | 70.8 | 86.8 | 0.9 | 1,366 |
| Tanintharyi | 97.4 | 283 | 70.3 | 84.3 | 2.9 | 276 |
| Bago | 97.3 | 1,244 | 75.7 | 91.3 | 3.1 | 1,210 |
| Magway | 97.2 | 1,081 | 74.8 | 86.2 | 2.3 | 1,050 |
| Mandalay | 96.9 | 1,541 | 76.1 | 91.1 | 2.9 | 1,493 |
| Mon | 96.5 | 463 | 67.1 | 85.3 | 3.3 | 446 |
| Rakhine | 87.5 | 777 | 46.1 | 73.7 | 1.2 | 680 |
| Yangon | 99.1 | 1,927 | 85.2 | 97.4 | 3.5 | 1,910 |
| Shan | 68.0 | 1,368 | 58.8 | 77.5 | 1.9 | 930 |
| Ayeyarwady | 96.8 | 1,650 | 68.9 | 93.6 | 2.5 | 1,597 |
| Nay Pyi Taw | 95.1 | 300 | 66.1 | 88.8 | 2.1 | 285 |
| Education ${ }^{1}$ |  |  |  |  |  |  |
| No education | 71.7 | 1,606 | 47.7 | 73.7 | 1.8 | 1,152 |
| Primary | 94.0 | 5,305 | 64.0 | 86.2 | 2.2 | 4,985 |
| Secondary | 97.9 | 4,646 | 79.0 | 92.5 | 2.6 | 4,547 |
| More than secondary | 100.0 | 1,325 | 93.1 | 98.0 | 4.0 | 1,325 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 85.5 | 2,274 | 53.2 | 80.1 | 2.0 | 1,945 |
| Second | 90.9 | 2,408 | 63.3 | 84.4 | 1.7 | 2,189 |
| Middle | 94.4 | 2,633 | 70.2 | 88.4 | 1.9 | 2,485 |
| Fourth | 96.1 | 2,702 | 77.3 | 91.8 | 2.7 | 2,595 |
| Highest | 97.5 | 2,868 | 85.7 | 95.5 | 3.9 | 2,797 |
| Total | 93.2 | 12,885 | 71.3 | 88.7 | 2.5 | 12,012 |

${ }^{1}$ Total includes three women with missing information on education.

Table 3.10.2 Knowledge of tuberculosis: Men
Percentage of men age 15-49 who have heard of tuberculosis (TB), and among men who have heard of TB, the percentage who know that TB is spread through the air by coughing, the percentage who believe that TB can be cured, and the percentage who have ever been told by a doctor or nurse that they have TB, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Among all respondents: |  | Among respondents who have heard of TB: |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who have heard of TB | Number | Percentage who report that TB is spread though coughing | Percentage who believe that TB can be cured | Percentage who have been told by doctor/nurse that they have TB | Number |
| Age |  |  |  |  |  |  |
| 15-19 | 88.3 | 731 | 51.7 | 83.7 | 4.3 | 646 |
| 20-24 | 89.7 | 692 | 63.5 | 89.4 | 3.2 | 620 |
| 25-29 | 95.0 | 677 | 64.4 | 89.4 | 3.1 | 644 |
| 30-34 | 91.6 | 698 | 64.0 | 90.7 | 3.9 | 639 |
| 35-39 | 92.6 | 679 | 65.7 | 88.1 | 3.3 | 629 |
| 40-44 | 93.5 | 689 | 65.1 | 91.0 | 3.3 | 644 |
| 45-49 | 93.8 | 571 | 68.5 | 91.0 | 4.5 | 535 |
| Residence |  |  |  |  |  |  |
| Urban | 97.3 | 1,350 | 76.7 | 93.6 | 5.6 | 1,314 |
| Rural | 89.8 | 3,387 | 57.2 | 87.0 | 2.8 | 3,043 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 93.4 | 161 | 62.9 | 82.7 | 4.2 | 150 |
| Kayah | 96.3 | 23 | 43.4 | 79.0 | 2.7 | 22 |
| Kayin | 81.4 | 115 | 55.8 | 78.8 | 3.1 | 94 |
| Chin | 85.8 | 39 | 35.9 | 86.2 | 6.1 | 33 |
| Sagaing | 95.3 | 514 | 59.0 | 89.3 | 3.2 | 490 |
| Tanintharyi | 98.2 | 103 | 55.3 | 82.0 | 5.7 | 101 |
| Bago | 98.6 | 454 | 65.4 | 93.9 | 6.3 | 448 |
| Magway | 94.9 | 320 | 61.0 | 89.7 | 1.2 | 304 |
| Mandalay | 94.9 | 601 | 65.1 | 86.4 | 4.2 | 570 |
| Mon | 95.3 | 162 | 59.5 | 87.4 | 4.6 | 154 |
| Rakhine | 92.5 | 222 | 57.0 | 87.4 | 1.3 | 205 |
| Yangon | 99.6 | 703 | 81.0 | 98.2 | 3.1 | 700 |
| Shan | 66.8 | 542 | 58.0 | 74.8 | 4.1 | 362 |
| Ayeyarwady | 92.9 | 653 | 55.1 | 90.7 | 3.1 | 607 |
| Nay Pyi Taw | 92.6 | 126 | 57.7 | 90.1 | 3.1 | 116 |
| Education |  |  |  |  |  |  |
| No education | 69.8 | 575 | 41.6 | 74.0 | 2.6 | 401 |
| Primary | 91.3 | 1,684 | 52.2 | 85.5 | 3.2 | 1,537 |
| Secondary | 97.2 | 2,139 | 71.0 | 92.9 | 4.2 | 2,079 |
| More than secondary | 100.0 | 339 | 90.0 | 99.1 | 3.3 | 339 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 85.3 | 890 | 44.5 | 82.9 | 2.6 | 759 |
| Second | 88.7 | 916 | 55.8 | 86.2 | 3.4 | 813 |
| Middle | 93.3 | 979 | 62.4 | 87.7 | 2.6 | 914 |
| Fourth | 94.5 | 986 | 67.2 | 90.2 | 3.3 | 932 |
| Highest | 97.2 | 966 | 81.2 | 96.5 | 6.0 | 939 |
| Total | 92.0 | 4,737 | 63.1 | 89.0 | 3.6 | 4,357 |

## Key Findings

- Age at first marriage: The median age at first marriage is 22.1 for women and 24.5 for men, which means that women tend to marry 2 years earlier than men. Fourteen percent of women and $5 \%$ of men age 45-49 have never married.
- Polygyny: Five percent of married women report that their husbands have other wives.
- Sexual initiation: The median age at first sexual intercourse is slightly later than the median age at first marriage for women and earlier for men, suggesting that women, on average, have first sexual intercourse only after marriage and men, on average, engage in sex before marriage.

Marriage and sexual activity help determine the extent to which women are exposed to the risk of pregnancy. Thus, they are important determinants of fertility levels. However, the timing and circumstances of marriage and sexual activity also have profound consequences for women's and men's lives.

### 4.1 Marital Status

## Currently married

Women and men who report being married or living together with a partner as though married at the time of the survey
Sample: Women and men age 15-49
In Myanmar, $60 \%$ of women age $15-49$ and $62 \%$ of men age 15-49 are married. Three percent of women and $2 \%$ of men are divorced or separated, and $3 \%$ of women and $1 \%$ of men are widowed. About one-third of women and men have never married (Figure 4.1). Not all women in Myanmar get married, although most men do: even among those age $45-49,14 \%$ of women are never married, compared with only $5 \%$ of men. Seven percent of women age 40-44 and $10 \%$ of women age $45-49$ are widows, but only $2 \%$ of men in this age group are widowers. This is likely because women marry men who are older than themselves, and widowers are generally more likely to re-marry than women who are widowed (Table 4.1). The proportion of the
population that is currently married increases with age, and by age $45-49,72 \%$ of women and $90 \%$ of men are currently married.

At age 15-19, the proportion of women who are married is two and a half times that of men $(13 \%$ versus $5 \%$ ). Early marriage increases the risk of teenage pregnancy which can have a profound effect on the health and lives of young women.

### 4.2 Polygyny

## Polygyny

Women who report that their husband has other wives are considered to be in a polygynous marriage.
Sample: Currently married women age 15-49

In the MDHS, currently married women were asked how many wives their husband had, and currently married men were also asked about the number of their wives.

Results show that polygyny is relatively uncommon in Myanmar. Only 5\% of currently married women said their husbands have more than one wife (Table 4.2.1), and $4 \%$ of currently married men said that they have more than one wife (Table 4.2.2).

## Patterns by background characteristics

- A higher prevalence of polygyny is found among older age groups for both sexes. Six percent of married women age 45-49 say that their husband has one or more co-wives, and $8 \%$ of men age 45-49 say that they have more than one wife (Table 4.2.1 and Table 4.2.2).
- As reported by women, the prevalence of polygyny is slightly higher in rural areas (6\%) than in urban areas (4\%), but the proportion of married men with more than one wife does not vary by rural and urban residence.
- The proportion of married women who have one or more co-wives ranges from a high of $9 \%$ in Shan State, followed by 7\% each for women in Bago Region, Rakhine State, Chin State, and Magway Region to a low of $1 \%$ in Kayah State (Figure 4.2). The pattern of variation in polygyny by states and regions according to men's reports is somewhat different from the pattern based on women's reports. According to men's reports, polygyny is highest in Kayin State (10\%) followed by Kachin State (9\%) and Mandalay Region (8\%), and lowest in Mon State, where no man reported having more than one wife.

Figure 4.2 Polygyny by states and regions
Percent of currently married women age 15-49 in a polygynous union


- Both women and men with no education are more likely than those with education to have polygynous marriages. According to women's reports, polygyny is less than $1 \%$ among married women who have more than secondary education but is $11 \%$ among women with no education. According to men's
reports, the proportion of men with more than one wife is also $1 \%$ among men with more than secondary education but is $6 \%$ among men with no education.
- The prevalence of polygynous marriages declines with increasing wealth among both women and men. Nine percent of women in the lowest wealth quintile report having a co-wife compared with $3 \%$ of those in the highest wealth quintile. Among men, the proportion who report having more than one wife is $6 \%$ for men in the lowest wealth quintile and $2 \%$ for men in the highest wealth quintile.


### 4.3 Age at First Marriage

## Median age at first marriage

Age by which half of respondents have been married.
Sample: Women age 25-49 and men age 25-49

The median age at first marriage for women age 25-49 is 22.1 , and for men age 25-49 the median age is 24.5. Women first marry more than 2 years earlier than men do (Table 4.3).

Child marriage, that is marriage before age 18, is still quite common among Myanmar women: $19 \%$ of women age 20-49 were married before age 18 . Among men age $20-49$, by contrast, only $7 \%$ were married before their 18th birthday. Even though marriage before 18 is common, very early marriage (before age 15 ) is not.

## Patterns by background characteristics

- The median age at first marriage among rural women is 21.3, 3 years younger than the median age at first marriage among urban women, which is 24.5 (Table 4.4).
- The median age at first marriage among women from Mandalay Region is 24.0, and among those from Yangon Region is 24.2, while women from Shan State and Rakhine State marry earlier, at age 20.4 and age 20.3. Among men, the median age at first marriage varies by about one year across states and regions.
- The median age at first marriage increases with education and wealth quintile among women. Women with secondary education marry four years later than women with no education (23.6 versus 19.3) and women in the fourth wealth quintile marry 3 years later than women in the lowest wealth quintile.


### 4.4 Age at First Sexual Intercourse

Median age at first sexual intercourse
Age by which half of respondents have had sexual intercourse.
Sample: Women age 25-49 and men age 25-49

The median age at first sexual intercourse among women age $25-49$ is 22.5 , older than the median age at first marriage (22.1) for women in this age group. By contrast, the median age at first sexual intercourse among men age 25-49 is 23.6 years, one year earlier than their median age at first marriage (24.5) (Figure 4.3).

By age 18, $17 \%$ of women age $25-49$ have had sexual intercourse (Table 4.5). This percentage is lower than that of women who are married by age 18 (19\%) (Table 4.3). Eight percent of men age 25-49 have had sexual intercourse before the age of 18 (Table 4.5), which is higher than the percentage of

Figure 4.3 Median age at first sex and first marriage

Median age in years
$■$ Women age 25-49 ■ Men age 25-49
 men married by age 18 (7\%) (Table 4.3). These findings suggest that women, on average, first have sexual intercourse after they are married, whereas men, on average, do so before they are married.

The percentage who have never had sexual intercourse is $19 \%$ among women age 25-49 and as high as $14 \%$ among women age 45-49. Among men age 25-49 the percentage who have never had sex is $12 \%$, but only $5 \%$ of men age 45-49 have never had sex (Table 4.5).

## Patterns by background characteristics

- The median age at first sexual intercourse for rural women age $25-49$ is 21.7, 3 years earlier than urban women (25.0). Similarly, rural men first have sex 2 years earlier than urban men (23.1 versus 24.8 ) (Table 4.6).
- Regional variation in the median age at first sex is sizeable: it varies from age 20.6 for women in Shan State and age 20.7 in Rakhine State to age 24.6 for women in Yangon Region and age 24.4 in Mandalay Region. For men, the median age at first sex varies from age 21.7 in Chin State and age 22.3 in Kachin State to age 24.7 in Yangon Region and Tanintharyi Region to age 25.0 in Kayin State.
- Median age at first sex among women and men increases with increasing education. Women with no education have a median age at first sexual intercourse of 19.5, 4 years younger than women with secondary education (median age of 23.9). The educational differential for men is much less, only 2 years.
- The median age at first sex tends to increase with wealth for both women and men.


### 4.5 Recent Sexual Activity

Sexual activity exposes women to the risk of pregnancy if no contraceptive method is being used. Information on timing of last sexual intercourse can be used to refine measures of exposure to pregnancy. In the 2015-16 MDHS, women and men age 15-49 were asked when they last had sexual intercourse. Forty-seven percent of women and $53 \%$ of men age $15-49$ had sexual intercourse during the 4 weeks preceding the survey; $33 \%$ of women and $31 \%$ of men had never had sex. An additional $11 \%$ of women and $10 \%$ of men had not had sex recently but had it in the year before the survey (Table 4.7.1 and Table 4.7.2).

## Patterns by background characteristics

- Recent sexual activity among women increases sharply by age from 11\% for women age 15-19 to 62\% for women age $35-39$, before falling to $49 \%$ for women age $45-49$. For men, recent sexual activity also increases sharply from $5 \%$ at age $15-19$ to $75 \%$ at age $35-39$, after which it falls to $66 \%$ for men age 45-49.
- Except for a slight decline after 25 years of marriage, recent sexual activity does not vary greatly by duration of marriage for either sex (Table 4.7.1 and Table 4.7.2).
- Recent sexual activity is more common in rural than in urban areas for both women and men.
- The proportion of women and men who recently had sex varies by states and regions. Recent sexual activity is highest in Nay Pyi Taw and Bago Region (52\%) and lowest in Kachin State (38\%) for women and is highest in Bago Region (60\%) and lowest in Kachin State (42\%) for men.
- The proportion of women who had sexual intercourse in the 4 weeks before the survey decreases with increasing education level. Although the proportion of men with recent sexual activity does not vary consistently by education, it is lower among men with secondary schooling than among less educated men.
- The likelihood of having had sex recently among both women and men is lower in the higher wealth quintiles than in the lower quintiles. Among women, the proportion is $39 \%$ in the highest quintile and $55 \%$ in the lowest quintile; the corresponding proportions for men are $47 \%$ in the highest wealth quintile and $59 \%$ in the lowest wealth quintile.


## LIST OF TABLES

For more information on marriage and sexual activity, see the following tables:

- Table 4.1 Current marital status
- Table 4.2.1 Number of women's co-wives
- Table 4.2.2 Number of men's wives
- Table 4.3 Age at first marriage
- Table 4.4 Median age at first marriage by background characteristics
- Table 4.5 Age at first sexual intercourse
- Table 4.6 Median age at first sexual intercourse by background characteristics
- Table 4.7.1 Recent sexual activity: Women
- Table 4.7.2 Recent sexual activity: Men

Table 4.1 Current marital status
Percent distribution of women and men age 15-49 by current marital status, according to age, Myanmar DHS 2015-16

| Age | Marital status |  |  |  |  |  | Percentage of respondents currently in union | Number of respondents |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Never married | Married | Divorced | Separated | Widowed | Total |  |  |
| WOMEN |  |  |  |  |  |  |  |  |
| 15-19 | 86.4 | 12.6 | 0.8 | 0.1 | 0.1 | 100.0 | 12.6 | 1,810 |
| 20-24 | 51.9 | 44.6 | 2.8 | 0.4 | 0.3 | 100.0 | 44.6 | 1,867 |
| 25-29 | 27.5 | 67.4 | 3.5 | 0.4 | 1.2 | 100.0 | 67.4 | 1,867 |
| 30-34 | 20.9 | 73.9 | 3.0 | 0.2 | 1.9 | 100.0 | 73.9 | 2,037 |
| 35-39 | 16.9 | 75.9 | 3.5 | 0.3 | 3.4 | 100.0 | 75.9 | 1,954 |
| 40-44 | 14.7 | 74.0 | 4.2 | 0.5 | 6.5 | 100.0 | 74.0 | 1,733 |
| 45-49 | 13.5 | 72.3 | 3.3 | 0.5 | 10.4 | 100.0 | 72.3 | 1,617 |
| Total | 33.2 | 60.2 | 3.0 | 0.3 | 3.2 | 100.0 | 60.2 | 12,885 |
| MEN |  |  |  |  |  |  |  |  |
| 15-19 | 94.7 | 5.0 | 0.3 | 0.0 | 0.0 | 100.0 | 5.0 | 731 |
| 20-24 | 65.2 | 33.0 | 1.4 | 0.4 | 0.1 | 100.0 | 33.0 | 692 |
| 25-29 | 31.5 | 66.0 | 2.1 | 0.1 | 0.3 | 100.0 | 66.0 | 677 |
| 30-34 | 18.3 | 78.6 | 2.5 | 0.0 | 0.5 | 100.0 | 78.6 | 698 |
| 35-39 | 10.5 | 86.5 | 2.4 | 0.3 | 0.3 | 100.0 | 86.5 | 679 |
| 40-44 | 8.8 | 86.2 | 2.8 | 0.2 | 2.0 | 100.0 | 86.2 | 689 |
| 45-49 | 5.2 | 90.3 | 1.8 | 0.5 | 2.1 | 100.0 | 90.3 | 571 |
| Total | 34.7 | 62.4 | 1.9 | 0.2 | 0.7 | 100.0 | 62.4 | 4,737 |

Table 4.2.1 Number of women's co-wives
Percent distribution of currently married women age 15-49 by number of co-wives, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Number of co-wives |  |  |  |  | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2+ | Don't know/ missing | Total |  |
| Age |  |  |  |  |  |  |
| 15-19 | 95.0 | 3.5 | 0.2 | 1.3 | 100.0 | 227 |
| 20-24 | 95.2 | 4.2 | 0.2 | 0.4 | 100.0 | 834 |
| 25-29 | 96.0 | 3.2 | 0.9 | 0.0 | 100.0 | 1,258 |
| 30-34 | 95.3 | 4.1 | 0.2 | 0.3 | 100.0 | 1,505 |
| 35-39 | 93.2 | 6.3 | 0.4 | 0.1 | 100.0 | 1,482 |
| 40-44 | 93.0 | 5.7 | 1.0 | 0.2 | 100.0 | 1,283 |
| 45-49 | 93.6 | 5.2 | 1.0 | 0.2 | 100.0 | 1,169 |
| Residence |  |  |  |  |  |  |
| Urban | 95.9 | 3.8 | 0.1 | 0.2 | 100.0 | 2,022 |
| Rural | 93.8 | 5.1 | 0.8 | 0.2 | 100.0 | 5,737 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 94.2 | 4.3 | 1.3 | 0.2 | 100.0 | 238 |
| Kayah | 98.7 | 0.9 | 0.2 | 0.2 | 100.0 | 40 |
| Kayin | 95.2 | 4.5 | 0.3 | 0.0 | 100.0 | 201 |
| Chin | 93.5 | 5.2 | 1.3 | 0.0 | 100.0 | 66 |
| Sagaing | 95.2 | 4.1 | 0.3 | 0.3 | 100.0 | 828 |
| Tanintharyi | 93.4 | 5.4 | 0.5 | 0.7 | 100.0 | 174 |
| Bago | 92.3 | 6.9 | 0.4 | 0.4 | 100.0 | 780 |
| Magway | 93.5 | 5.9 | 0.6 | 0.0 | 100.0 | 642 |
| Mandalay | 96.2 | 3.3 | 0.4 | 0.0 | 100.0 | 838 |
| Mon | 95.2 | 4.5 | 0.4 | 0.0 | 100.0 | 278 |
| Rakhine | 92.9 | 6.0 | 0.7 | 0.4 | 100.0 | 454 |
| Yangon | 97.6 | 2.2 | 0.2 | 0.0 | 100.0 | 1,042 |
| Shan | 90.6 | 7.1 | 1.5 | 0.9 | 100.0 | 901 |
| Ayeyarwady | 93.9 | 5.2 | 0.8 | 0.1 | 100.0 | 1,083 |
| Nay Pyi Taw | 98.0 | 1.6 | 0.2 | 0.2 | 100.0 | 195 |
| Education ${ }^{1}$ |  |  |  |  |  |  |
| No education | 89.0 | 9.0 | 1.6 | 0.4 | 100.0 | 1,193 |
| Primary | 93.8 | 5.3 | 0.7 | 0.2 | 100.0 | 3,656 |
| Secondary | 96.9 | 2.8 | 0.1 | 0.3 | 100.0 | 2,285 |
| More than secondary | 98.7 | 0.9 | 0.0 | 0.4 | 100.0 | 621 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 90.5 | 7.7 | 1.5 | 0.3 | 100.0 | 1,622 |
| Second | 94.1 | 4.7 | 0.9 | 0.3 | 100.0 | 1,586 |
| Middle | 95.1 | 4.4 | 0.4 | 0.1 | 100.0 | 1,556 |
| Fourth | 95.9 | 3.6 | 0.2 | 0.2 | 100.0 | 1,509 |
| Highest | 96.4 | 3.3 | 0.0 | 0.3 | 100.0 | 1,487 |
| Total | 94.4 | 4.8 | 0.6 | 0.2 | 100.0 | 7,759 |

${ }^{1}$ Total includes three women with missing information on education.

Table 4.2.2 Number of men's wives
Percent distribution of currently married men age $15-49$ by number of wives, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Number of wives |  | Total | Number of men |
| :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2+ |  |  |
| Age |  |  |  |  |
| 15-19 | (100.0) | (0.0) | 100.0 | 36 |
| 20-24 | 97.4 | 2.6 | 100.0 | 228 |
| 25-29 | 98.9 | 1.1 | 100.0 | 447 |
| 30-34 | 97.5 | 2.5 | 100.0 | 549 |
| 35-39 | 97.5 | 2.5 | 100.0 | 587 |
| 40-44 | 94.1 | 5.9 | 100.0 | 593 |
| 45-49 | 92.3 | 7.7 | 100.0 | 516 |
| Residence |  |  |  |  |
| Urban | 96.0 | 4.0 | 100.0 | 767 |
| Rural | 96.2 | 3.8 | 100.0 | 2,190 |
| States/Regions |  |  |  |  |
| Kachin | 91.1 | 8.9 | 100.0 | 93 |
| Kayah | 99.4 | 0.6 | 100.0 | 15 |
| Kayin | 90.2 | 9.8 | 100.0 | 70 |
| Chin | 95.6 | 4.4 | 100.0 | 24 |
| Sagaing | 97.4 | 2.6 | 100.0 | 308 |
| Tanintharyi | 98.4 | 1.6 | 100.0 | 57 |
| Bago | 99.3 | 0.7 | 100.0 | 309 |
| Magway | 94.4 | 5.6 | 100.0 | 215 |
| Mandalay | 92.4 | 7.6 | 100.0 | 358 |
| Mon | 100.0 | 0.0 | 100.0 | 82 |
| Rakhine | 98.8 | 1.2 | 100.0 | 139 |
| Yangon | 98.8 | 1.2 | 100.0 | 413 |
| Shan | 97.1 | 2.9 | 100.0 | 371 |
| Ayeyarwady | 93.5 | 6.5 | 100.0 | 419 |
| Nay Pyi Taw | 96.8 | 3.2 | 100.0 | 81 |
| Education |  |  |  |  |
| No education | 93.6 | 6.4 | 100.0 | 430 |
| Primary | 96.4 | 3.6 | 100.0 | 1,260 |
| Secondary | 96.4 | 3.6 | 100.0 | 1,085 |
| More than secondary | 98.6 | 1.4 | 100.0 | 181 |
| Wealth quintile |  |  |  |  |
| Lowest | 94.4 | 5.6 | 100.0 | 627 |
| Second | 95.9 | 4.1 | 100.0 | 605 |
| Middle | 95.8 | 4.2 | 100.0 | 603 |
| Fourth | 96.7 | 3.3 | 100.0 | 590 |
| Highest | 98.2 | 1.8 | 100.0 | 531 |
| Total | 96.1 | 3.9 | 100.0 | 2,957 |

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

Table 4.3 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, Myanmar DHS 2015-16

| 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 | 1.1 | na | na | na | na | 86.4 | 1,810 | a |
| 20-24 | 1.9 | 16.0 | 30.5 | na | na | 51.9 | 1,867 | a |
| 25-29 | 3.5 | 18.3 | 33.2 | 47.9 | 64.2 | 27.5 | 1,867 | 22.3 |
| 30-34 | 4.4 | 18.6 | 33.9 | 49.0 | 62.6 | 20.9 | 2,037 | 22.2 |
| 35-39 | 2.9 | 19.2 | 34.7 | 47.2 | 62.2 | 16.9 | 1,954 | 22.5 |
| 40-44 | 2.8 | 20.7 | 36.8 | 52.0 | 66.2 | 14.7 | 1,733 | a |
| 45-49 | 3.1 | 19.2 | 37.6 | 52.3 | 64.6 | 13.5 | 1,617 | 21.6 |
| 20-49 | 3.1 | 18.6 | 34.3 | na | na | 24.5 | 11,075 | a |
| 25-49 | 3.4 | 19.2 | 35.1 | 49.5 | 63.9 | 18.9 | 9,208 | 22.1 |
| MEN |  |  |  |  |  |  |  |  |
| 15-19 | 0.0 | na | na | na | na | 94.7 | 731 | a |
| 20-24 | 0.0 | 5.0 | 14.8 | na | na | 65.2 | 692 | a |
| 25-29 | 0.0 | 5.8 | 15.5 | 31.7 | 52.7 | 31.5 | 677 | 24.6 |
| 30-34 | 0.0 | 7.6 | 18.4 | 32.1 | 52.5 | 18.3 | 698 | 24.7 |
| 35-39 | 0.0 | 8.1 | 18.3 | 33.1 | 52.4 | 10.5 | 679 | 24.6 |
| 40-44 | 0.0 | 7.8 | 21.2 | 39.3 | 54.9 | 8.8 | 689 | a |
| 45-49 | 0.0 | 6.0 | 17.1 | 36.0 | 54.8 | 5.2 | 571 | 24.3 |
| 20-49 | 0.0 | 6.7 | 17.6 | na | na | 23.8 | 4,006 | a |
| 25-49 | 0.0 | 7.1 | 18.1 | 34.4 | 53.4 | 15.2 | 3,314 | 24.5 |

Note: The age at first marriage is defined as the age at which the respondent began living with her/his first spouse.
na $=$ Not applicable due to censoring
a = Omitted because less than $50 \%$ of the women or men began living with their spouse for the first time before reaching the beginning of the age group

Table 4.4 Median age at first marriage by background characteristics
Median age at first marriage among women and men age 2549, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Women age 25-49 | Men age $25-49$ |
| :---: | :---: | :---: |
| Residence |  |  |
| Urban | 24.5 | a |
| Rural | 21.3 | 23.8 |
| States/Regions |  |  |
| Kachin | 21.7 | a |
| Kayah | 22.1 | a |
| Kayin | 21.8 | 24.9 |
| Chin | 21.3 | 24.1 |
| Sagaing | 22.0 | 23.8 |
| Tanintharyi | 22.1 | 25.0 |
| Bago | 21.8 | 24.5 |
| Magway | 22.9 | 23.8 |
| Mandalay | 24.0 | 24.2 |
| Mon | 22.3 | 24.9 |
| Rakhine | 20.3 | 23.7 |
| Yangon | 24.2 | a |
| Shan | 20.4 | 23.8 |
| Ayeyarwady | 21.3 | 24.4 |
| Nay Pyi Taw | 21.7 | 24.7 |
| Education |  |  |
| No education | 19.3 | 23.1 |
| Primary | 21.1 | 23.2 |
| Secondary | 23.6 | a |
| More than secondary | a | a |
| Wealth quintile |  |  |
| Lowest | 19.8 | 22.8 |
| Second | 20.7 | 22.8 |
| Middle | 22.1 | 24.6 |
| Fourth | 22.9 | a |
| Highest | a | a |
| Total | 22.1 | 24.5 |

Note: The age at first marriage is defined as the age at which the respondent began living with her/his first spouse.
$a=$ Omitted because less than $50 \%$ of the respondents began living with their spouse for the first time before reaching the beginning of the age group

Table 4.5 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 sexual intercourse, and median age at first sexual intercourse, according to current age, Myanmar DHS 2015-16

| 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 | 0.9 | na | na | na | na | 86.4 | 1,810 | a |
| 20-24 | 1.3 | 14.0 | 29.4 | na | na | 51.7 | 1,867 | a |
| 25-29 | 2.1 | 16.3 | 31.7 | 46.1 | 62.1 | 27.2 | 1,867 | 22.8 |
| 30-34 | 2.0 | 16.0 | 32.4 | 46.0 | 60.0 | 20.9 | 2,037 | 22.9 |
| 35-39 | 2.0 | 17.2 | 33.4 | 45.9 | 59.9 | 16.9 | 1,954 | 22.7 |
| 40-44 | 1.5 | 17.9 | 34.0 | 48.8 | 62.1 | 14.6 | 1,733 | a |
| 45-49 | 2.2 | 17.9 | 37.3 | 50.8 | 62.3 | 13.5 | 1,617 | 21.9 |
| 20-49 | 1.9 | 16.5 | 32.9 | na | na | 24.4 | 11,075 | a |
| 25-49 | 2.0 | 17.0 | 33.6 | na | na | 18.9 | 9,208 | 22.5 |
| 15-24 | 1.1 | na | na | na | na | 68.8 | 3,677 | a |
| MEN |  |  |  |  |  |  |  |  |
| 15-19 | 0.5 | na | na | na | na | 92.5 | 731 | a |
| 20-24 | 0.0 | 5.6 | 20.5 | na | na | 56.2 | 692 | a |
| 25-29 | 0.1 | 6.3 | 20.0 | 39.4 | 61.7 | 24.7 | 677 | 23.5 |
| 30-34 | 0.5 | 7.8 | 21.2 | 37.3 | 56.6 | 14.7 | 698 | 24.0 |
| 35-39 | 0.8 | 8.2 | 20.1 | 35.6 | 54.8 | 8.2 | 679 | 24.0 |
| 40-44 | 0.6 | 7.9 | 22.5 | 43.4 | 57.6 | 7.3 | 689 | a |
| 45-49 | 0.0 | 8.6 | 21.7 | 44.1 | 60.1 | 4.6 | 571 | 22.9 |
| 20-49 | 0.4 | 7.4 | 21.0 | na | na | 19.7 | 4,006 | a |
| 25-49 | 0.4 | 7.7 | 21.1 | na | na | 12.1 | 3,314 | 23.6 |
| 15-24 | 0.3 | na | na | na | na | 74.9 | 1,423 | a |

na $=$ Not applicable due to censoring
$a=$ Omitted because less than $50 \%$ of the respondents had sexual intercourse for the first time before reaching the beginning of the age group

Table 4.6 Median age at first sexual intercourse by background characteristics
Median age at first sexual intercourse among women age $25-49$, and median age at first sexual intercourse among men age 25-49, according to background characteristics, Myanmar DHS 2015-16

|  | Women's age | Men's age |
| :---: | :---: | :---: |
| Background characteristic | 25-49 | 25-49 |
| Residence |  |  |
| Urban | 25.0 | 24.8 |
| Rural | 21.7 | 23.1 |
| States/Regions |  |  |
| Kachin | 21.2 | 22.3 |
| Kayah | 21.9 | a |
| Kayin | 22.0 | 25.0 |
| Chin | 21.5 | 21.7 |
| Sagaing | 22.2 | 23.6 |
| Tanintharyi | 22.2 | 24.7 |
| Bago | 22.1 | 23.6 |
| Magway | 23.3 | 23.7 |
| Mandalay | 24.4 | 23.0 |
| Mon | 22.9 | 23.5 |
| Rakhine | 20.7 | 22.9 |
| Yangon | 24.6 | 24.7 |
| Shan | 20.6 | 22.9 |
| Ayeyarwady | 21.9 | 23.7 |
| Nay Pyi Taw | 21.9 | 24.0 |
| Education |  |  |
| No education | 19.5 | 22.0 |
| Primary | 21.4 | 22.8 |
| Secondary | 23.9 | 24.1 |
| More than Secondary | a | a |
| Wealth quintile |  |  |
| Lowest | 20.1 | 22.5 |
| Second | 20.9 | 22.5 |
| Middle | 22.3 | 23.8 |
| Fourth | 23.5 | 24.2 |
| Highest | a | a |
| Total | 22.5 | 23.6 |

$\mathrm{a}=$ Omitted because less than $50 \%$ of the respondents had intercourse for the first time before reaching the beginning of the age group

Table 4.7.1 Recent sexual activity: Women
Percent distribution of women age $15-49$ by timing of last sexual intercourse, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Timing of last sexual intercourse |  |  |  | Never had sexual intercourse | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Within the past 4 weeks | Within 1 year ${ }^{1}$ | One or more years | Missing |  |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 10.5 | 1.8 | 0.9 | 0.4 | 86.4 | 100.0 | 1,810 |
| 20-24 | 36.0 | 8.1 | 3.7 | 0.4 | 51.7 | 100.0 | 1,867 |
| 25-29 | 53.6 | 12.5 | 6.2 | 0.6 | 27.2 | 100.0 | 1,867 |
| 30-34 | 58.4 | 12.2 | 7.8 | 0.7 | 20.9 | 100.0 | 2,037 |
| 35-39 | 61.7 | 11.9 | 8.9 | 0.6 | 16.9 | 100.0 | 1,954 |
| 40-44 | 54.7 | 14.4 | 15.4 | 0.9 | 14.6 | 100.0 | 1,733 |
| 45-49 | 49.2 | 17.6 | 19.0 | 0.7 | 13.5 | 100.0 | 1,617 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 0.1 | 0.1 | 0.1 | 0.0 | 99.7 | 100.0 | 4,278 |
| Married | 77.1 | 17.1 | 4.8 | 1.0 | 0.0 | 100.0 | 7,759 |
| Divorced/separated/ widowed | 1.6 | 11.9 | 86.1 | 0.4 | 0.0 | 100.0 | 848 |
| Marital duration ${ }^{2}$ |  |  |  |  |  |  |  |
| 0-4 years | 79.5 | 16.5 | 3.0 | 1.1 | 0.0 | 100.0 | 1,474 |
| 5-9 years | 78.5 | 15.8 | 4.7 | 1.0 | 0.0 | 100.0 | 1,388 |
| 10-14 years | 79.9 | 14.5 | 4.3 | 1.3 | 0.0 | 100.0 | 1,321 |
| 15-19 years | 79.2 | 15.1 | 4.8 | 1.0 | 0.0 | 100.0 | 1,228 |
| 20-24 years | 74.9 | 19.3 | 5.1 | 0.8 | 0.0 | 100.0 | 1,004 |
| $25+$ years | 68.9 | 22.2 | 8.4 | 0.5 | 0.0 | 100.0 | 899 |
| Married more than once | 72.7 | 21.2 | 4.8 | 1.2 | 0.0 | 100.0 | 445 |
| Residence |  |  |  |  |  |  |  |
| Urban | 40.9 | 10.1 | 9.1 | 0.8 | 39.2 | 100.0 | 3,768 |
| Rural | 48.9 | 11.5 | 8.4 | 0.6 | 30.6 | 100.0 | 9,117 |
| States/Regions |  |  |  |  |  |  |  |
| Kachin | 38.4 | 16.7 | 9.7 | 7.0 | 28.1 | 100.0 | 374 |
| Kayah | 39.7 | 11.2 | 8.0 | 9.8 | 31.4 | 100.0 | 65 |
| Kayin | 46.7 | 15.6 | 11.4 | 0.1 | 26.2 | 100.0 | 303 |
| Chin | 49.2 | 12.6 | 10.7 | 0.7 | 26.9 | 100.0 | 102 |
| Sagaing | 46.9 | 10.1 | 8.0 | 0.1 | 34.9 | 100.0 | 1,410 |
| Tanintharyi | 40.4 | 18.4 | 8.3 | 0.3 | 32.6 | 100.0 | 283 |
| Bago | 52.2 | 8.0 | 7.7 | 0.2 | 31.9 | 100.0 | 1,244 |
| Magway | 44.2 | 13.3 | 7.5 | 0.3 | 34.8 | 100.0 | 1,081 |
| Mandalay | 41.0 | 11.9 | 7.9 | 0.0 | 39.2 | 100.0 | 1,541 |
| Mon | 40.0 | 12.8 | 11.2 | 1.0 | 35.0 | 100.0 | 463 |
| Rakhine | 45.2 | 12.7 | 11.0 | 0.2 | 30.9 | 100.0 | 777 |
| Yangon | 46.1 | 5.9 | 8.0 | 0.2 | 39.8 | 100.0 | 1,927 |
| Shan | 49.8 | 12.5 | 10.0 | 1.2 | 26.4 | 100.0 | 1,368 |
| Ayeyarwady | 51.0 | 12.3 | 8.2 | 0.6 | 27.9 | 100.0 | 1,650 |
| Nay Pyi Taw | 52.4 | 11.7 | 7.8 | 0.1 | 27.9 | 100.0 | 300 |
| Education ${ }^{3}$ |  |  |  |  |  |  |  |
| No education | 55.2 | 16.2 | 12.9 | 1.0 | 14.8 | 100.0 | 1,606 |
| Primary | 54.2 | 12.1 | 9.7 | 0.5 | 23.5 | 100.0 | 5,305 |
| Secondary | 38.3 | 8.7 | 6.8 | 0.6 | 45.7 | 100.0 | 4,646 |
| More than secondary | 34.8 | 9.4 | 5.3 | 0.7 | 49.8 | 100.0 | 1,325 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 55.0 | 14.3 | 9.6 | 0.6 | 20.5 | 100.0 | 2,274 |
| Second | 51.8 | 11.2 | 9.4 | 0.6 | 27.0 | 100.0 | 2,408 |
| Middle | 46.4 | 10.5 | 8.3 | 0.3 | 34.5 | 100.0 | 2,633 |
| Fourth | 43.6 | 9.6 | 8.2 | 0.6 | 38.0 | 100.0 | 2,702 |
| Highest | 38.5 | 10.5 | 7.7 | 0.8 | 42.5 | 100.0 | 2,868 |
| Total | 46.6 | 11.1 | 8.6 | 0.6 | 33.1 | 100.0 | 12,885 |

[^6]Table 4.7.2 Recent sexual activity: Men
Percent distribution of men age 15-49 by timing of last sexual intercourse, according to background characteristics,
Myanmar DHS 2015-16

| Background characteristic | Timing of last sexual intercourse |  |  |  | Never had sexual intercourse | Total | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Within the past 4 weeks | Within 1 year ${ }^{1}$ | One or more years | Missing |  |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 4.8 | 2.0 | 0.7 | 0.1 | 92.5 | 100.0 | 731 |
| 20-24 | 32.5 | 6.6 | 4.1 | 0.5 | 56.2 | 100.0 | 692 |
| 25-29 | 59.8 | 8.1 | 6.9 | 0.6 | 24.7 | 100.0 | 677 |
| 30-34 | 66.6 | 12.7 | 5.5 | 0.5 | 14.7 | 100.0 | 698 |
| 35-39 | 75.3 | 10.3 | 5.7 | 0.5 | 8.2 | 100.0 | 679 |
| 40-44 | 70.2 | 13.8 | 8.2 | 0.5 | 7.3 | 100.0 | 689 |
| 45-49 | 66.1 | 19.3 | 9.3 | 0.7 | 4.6 | 100.0 | 571 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 1.9 | 3.2 | 5.6 | 0.2 | 89.1 | 100.0 | 1,646 |
| Married | 83.4 | 13.9 | 2.1 | 0.6 | 0.0 | 100.0 | 2,957 |
| Divorced/separated/ widowed | 3.5 | 11.7 | 83.9 | 0.0 | 0.9 | 100.0 | 135 |
| Marital duration ${ }^{2}$ |  |  |  |  |  |  |  |
| 0-4 years | 85.2 | 13.2 | 0.9 | 0.7 | 0.0 | 100.0 | 605 |
| 5-9 years | 86.2 | 11.8 | 1.4 | 0.7 | 0.0 | 100.0 | 577 |
| 10-14 years | 88.2 | 10.3 | 1.3 | 0.2 | 0.0 | 100.0 | 549 |
| 15-19 years | 83.5 | 13.4 | 2.1 | 1.0 | 0.0 | 100.0 | 437 |
| 20-24 years | 81.2 | 14.3 | 4.1 | 0.5 | 0.0 | 100.0 | 397 |
| $25+$ years | 66.7 | 26.3 | 6.6 | 0.4 | 0.0 | 100.0 | 227 |
| Married more than once | 79.0 | 18.6 | 1.3 | 1.1 | 0.0 | 100.0 | 165 |
| Residence |  |  |  |  |  |  |  |
| Urban | 47.0 | 11.3 | 6.9 | 0.7 | 34.0 | 100.0 | 1,350 |
| Rural | 55.1 | 9.6 | 5.1 | 0.4 | 29.8 | 100.0 | 3,387 |
| States/Regions |  |  |  |  |  |  |  |
| Kachin | 41.5 | 17.3 | 9.1 | 1.9 | 30.3 | 100.0 | 161 |
| Kayah | 43.5 | 8.3 | 3.8 | 11.7 | 32.7 | 100.0 | 23 |
| Kayin | 49.1 | 12.8 | 3.7 | 0.0 | 34.5 | 100.0 | 115 |
| Chin | 42.5 | 18.1 | 8.0 | 2.3 | 29.2 | 100.0 | 39 |
| Sagaing | 51.3 | 9.4 | 5.5 | 0.0 | 33.7 | 100.0 | 514 |
| Tanintharyi | 45.9 | 8.1 | 6.9 | 1.6 | 37.4 | 100.0 | 103 |
| Bago | 59.8 | 10.5 | 4.2 | 0.0 | 25.5 | 100.0 | 454 |
| Magway | 54.7 | 9.0 | 7.0 | 1.4 | 27.9 | 100.0 | 320 |
| Mandalay | 50.6 | 9.6 | 7.0 | 0.6 | 32.2 | 100.0 | 601 |
| Mon | 42.1 | 10.0 | 5.2 | 2.0 | 40.7 | 100.0 | 162 |
| Rakhine | 58.2 | 6.0 | 5.5 | 0.0 | 30.3 | 100.0 | 222 |
| Yangon | 54.5 | 7.9 | 2.8 | 0.3 | 34.6 | 100.0 | 703 |
| Shan | 52.2 | 14.9 | 8.6 | 0.0 | 24.3 | 100.0 | 542 |
| Ayeyarwady | 55.1 | 8.1 | 4.9 | 0.0 | 31.9 | 100.0 | 653 |
| Nay Pyi Taw | 53.6 | 14.2 | 5.4 | 0.3 | 26.5 | 100.0 | 126 |
| Education |  |  |  |  |  |  |  |
| No education | 61.0 | 11.8 | 7.3 | 0.2 | 19.8 | 100.0 | 575 |
| Primary | 62.9 | 11.8 | 4.6 | 0.7 | 20.1 | 100.0 | 1,684 |
| Secondary | 43.7 | 8.3 | 6.2 | 0.4 | 41.4 | 100.0 | 2,139 |
| More than secondary | 46.9 | 10.2 | 4.9 | 0.2 | 37.9 | 100.0 | 339 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 59.1 | 11.2 | 4.0 | 0.4 | 25.2 | 100.0 | 890 |
| Second | 54.9 | 11.1 | 5.5 | 0.7 | 27.8 | 100.0 | 916 |
| Middle | 52.6 | 8.2 | 6.1 | 0.1 | 33.0 | 100.0 | 979 |
| Fourth | 51.2 | 9.6 | 4.8 | 0.4 | 33.9 | 100.0 | 986 |
| Highest | 46.9 | 10.6 | 7.7 | 0.6 | 34.2 | 100.0 | 966 |
| Total | 52.8 | 10.1 | 5.6 | 0.5 | 31.0 | 100.0 | 4,737 |

[^7]${ }^{2}$ Excludes men who are not currently married

## Key Findings

- Total fertility rate: The current total fertility rate in Myanmar is 2.3 children per woman: 1.9 children in urban areas and 2.4 children in rural areas. Fertility peaks in the age group 25-29.
- Patterns of fertility: Fertility levels are markedly lower among highly educated women and women living in wealthy households compared with other women.
- Birth intervals: In Myanmar, intervals between births are generally quite long, with the median birth interval being 49 months. Thirty-two percent of births occur within 3 years of a previous birth, and only $13 \%$ occur within 24 months.
- Age at first birth: The median age of a woman at her first birth is 24.7 years; only $7 \%$ of women give birth before they are 18.

The number of children that a woman bears depends on many factors, including the age at which she begins childbearing, how long she waits between births, and her fecundity. Postponing first births and extending the interval between births have reduced fertility levels in many countries. These factors also have positive health consequences. In contrast, short birth intervals (less than 24 months) can lead to harmful outcomes for both newborns and their mothers, such as preterm birth, low birth weight, and death. Childbearing at a very young age is associated with an increased risk of complications during pregnancy and childbirth and higher rates of neonatal mortality.

This chapter describes the current level of fertility in Myanmar and some of its proximate determinants. It presents information on the total fertility rate, birth intervals, insusceptibility to pregnancy (due to postpartum amenorrhea, postpartum abstinence, or menopause), age at first birth, and teenage childbearing.

### 5.1 Current Fertility

## Total fertility rate

The average number of children a woman would have by the end of her childbearing years if she bore children at the current age-specific fertility rates. Age-specific fertility rates are calculated for the 3 years before the survey, based on detailed birth histories provided by women.
Sample: Women age 15-49

The total fertility rate (TFR) in Myanmar is 2.3 children per woman; in urban areas it is 1.9 children, and in rural areas it is 2.4 children. The 2014 Myanmar Census reported the TFR to be 2.5 children (Ministry of Labor, Immigration and Population 2016).

Childbearing peaks at age 25-29 when the agespecific fertility rate is 128 . It drops sharply thereafter. Age-specific fertility rates (ASFRs) for every age group are lower in urban areas than in rural areas (Figure 5.1) .

In Myanmar, the general fertility rate is 77 and the crude birth rate is 18 . Both of these rates are higher in rural areas than in urban areas (Table 5.1). Four percent of women age 15-49 are currently pregnant, and the mean number of children ever born to women age 40-49 is 3.0 (Table 5.2).

Survey results indicate that ASFRs for 5-year periods preceding the survey have declined substantially over the last 2 decades (Table 5.3). The fertility decline is highest among the cohort age 25-29 (dropping from 166 births to 121 births between the period 15-19 years before the survey and the period 0-4 years before the survey). Results are incomplete because the rates for older age groups become progressively more truncated for periods further from the survey date, since women age 50 and older were not interviewed in the survey.

## Patterns by background characteristics

- Women with no education have a TFR of 3.6 children, two children more than the TFR for women with more than secondary education, 1.5 children (Figure 5.2).

Figure 5.2 Fertility by mother's education


- By state and region, the TFR is lowest in Magway Region and Yangon Region at 1.8 children each, and is highest in Chin State at 4.6 children (Figure 5.3).
- Women in the lowest wealth quintile have twice as many children, on average, as women in the highest wealth quintile (Table 5.2).


### 5.2 Children Ever Born and Living

The survey also collected information on the mean number of children ever born. The mean number of children ever born is 1.6 for all women and 2.5 for currently married women (Table 5.4).

The mean number of children born to women age 45-49-those who are no longer fertile-is 3.2 children; and the mean number born to currently married women in this age group is 3.9 children. Despite the relatively low number of children ever born to older women, it is notable that $17 \%$ of women age 45-49 have given birth to six or more children. In Myanmar, many women complete their reproductive years without having children, however. Among women age $40-49,17 \%-18 \%$ have not had any births.

Figure 5.3 Fertility by states and regions
Total fertility rate for the 3 years before the survey


### 5.3 BIRTH INTERVALS

## Median birth interval

Number of months since the preceding birth by which half of children are born
Sample: Non-first births in the 5 years before the survey

Birth interval is the length of time between two successive live births. Short birth intervals (of less than 24 months) are associated with an increased risk of death for mother and child. In Myanmar, only $13 \%$ of non-first births occurred within 24 months after the preceding birth, and $5 \%$ occurred less than 18 months after the preceding birth (Table 5.5,
Figure 5.4). The median birth interval for Myanmar as a whole is more than 4 years ( 49 months)-54 months in urban areas and 48 months in rural areas.

## Patterns by background characteristics

- The percentage of births occurring within a very

Figure 5.4 Birth intervals
Percent distribution of non-first births by number of months preceding birth
 short interval (less than 18 months) is almost two and a half times higher for children whose previous sibling died than for children whose previous sibling survived ( $10 \%$ and $4 \%$, respectively).

- Mothers with more education have longer birth intervals: among women with no education, the median birth interval is 40 months, but for women with more than secondary education, the median birth interval is 59 months.
- By wealth, the median birth interval is the shortest for women in the lowest wealth quintile at 42 months. The longest interval is for women in the highest wealth quintile, at 59 months.


### 5.4 Insusceptibility to Pregnancy

## Median duration of postpartum amenorrhea

Number of months after childbirth by which time half of women have begun menstruating
Sample: Women who gave birth in the 3 years before the survey

## Median duration of postpartum insusceptibility

Number of months after childbirth by which time half of women are no longer protected against pregnancy either by postpartum amenorrhea or abstinence from sex

Sample: Women who gave birth in the 3 years before the survey

Most women (96\%) are insusceptible to pregnancy during the first 2 months after a birth (Table 5.6). The proportion of women insusceptible to pregnancy falls to $9 \%-12 \%$ for women $22-35$ months after birth.

In Myanmar, the median duration of postpartum amenorrhea is 3.4 months, and women abstain from sexual intercourse for a median of 2.2 months after giving birth. Women are insusceptible to pregnancy after childbirth (either still amenorrheic or still abstaining) for a median of 4.5 months (Table 5.7).

## Menopause

Women are considered to have reached menopause if they are neither pregnant nor postpartum amenorrheic and have not had a menstrual period in the 6 months before the survey, or if they report being menopausal.
Sample: Women age 30-49

Sixteen percent of women age 30-49 are menopausal (Table 5.8). This proportion increases with age from $10 \%$ among women age 30-34 to $50 \%$ among women age 48-49.

### 5.5 Age at First Birth

## Median age at first birth

Age by which half of women have had their first child
Sample: Women age 25-49

Childbearing in Myanmar occurs relatively late. Only 7\% of women age 25-49 gave birth before age 18 . The median age at first birth in Myanmar is 24.7 years among women age 25-49 (Table 5.9).

## Patterns by background characteristics

- There is regional variation in the median age at first birth, with women in Rakhine State and Shan State giving birth at younger median ages (age 22.6 and age 22.8) than women in other states and regions (Table 5.10).
- Women with no education have a lower median age at first birth than those with primary education ( 21.5 versus 23.5 years).
- Women in the lowest wealth quintile tend to give birth earlier than those in other quintiles.


### 5.6 Teenage Childbearing

## Teenage childbearing

Percentage of women age 15-19 who have given birth or are pregnant with their first child
Sample: Women age 15-19

Childbearing during teenage years can reduce women's educational and employment opportunities and is associated with higher level of fertility. In Myanmar, $6 \%$ of women age 15-19 have begun childbearing: $5 \%$ have given birth, and an additional $1 \%$ are pregnant with their first child (Table 5.11).

## Patterns by background characteristics

- The percentage of women who have begun childbearing increases with age from $1 \%$ at age 15 to $18 \%$ at age 19 .
- The percentage of teenagers who have begun childbearing is lowest at $2 \%$ in Mandalay Region and is highest at 11\% each in Kachin State, Chin State, and Shan State.
- The level of teenage fertility is influenced by education. Nineteen percent of teenagers who have never been to school have begun childbearing, compared with $3 \%$ who have a secondary education and $1 \%$ who have more than secondary education (Figure 5.5).
- The level of teenage fertility is also associated with wealth: $9 \%$ of the poorest teenagers have begun childbearing, compared with $3 \%$ of the richest.

Figure 5.5 Teenage childbearing by education

Percentage of women age 15-19 who have begun childbearing

## LIST OF TABLES



For more information on fertility levels and some of the determinants of fertility, see the following tables:

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- Table 5.2 Fertility by background characteristics
- Table 5.3 Trends in age-specific fertility rates
- Table 5.4 Children ever born and living
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- Table 5.6 Postpartum amenorrhea, abstinence, and insusceptibility
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- Table 5.8 Menopause
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- Table 5.11 Teenage pregnancy and motherhood

Table 5.1 Current fertility
Age-specific and total fertility rates, the general fertility rate, and the crude birth rate for the 3 years preceding the survey, by residence, Myanmar DHS 2015-16

|  | Residence |  |  |
| :--- | ---: | ---: | ---: |
| Age group | Urban | Rural | Total |
|  |  |  |  |
| $15-19$ | 36 | 37 | 36 |
| $20-24$ | 88 | 122 | 112 |
| $25-29$ | 115 | 133 | 128 |
| $30-34$ | 85 | 96 | 93 |
| $35-39$ | 47 | 68 | 62 |
| $40-44$ | 12 | 26 | 22 |
| $45-49$ | 0 | 4 | 3 |
| TFR(15-49) | 1.9 | 2.4 | 2.3 |
| GFR | 64 | 83 | 77 |
| CBR | 16 | 19 | 18 |

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 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 5.2 Fertility by background characteristics
Total fertility rate for the 3 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, Myanmar DHS 2015-16

| Background characteristic | $\begin{gathered} \text { Total fertility } \\ \text { rate } \end{gathered}$ | Percentage of women age 15-49 currently pregnant | Mean number of children ever born to women age 40-49 |
| :---: | :---: | :---: | :---: |
| Residence |  |  |  |
| Urban | 1.9 | 2.8 | 2.3 |
| Rural | 2.4 | 3.9 | 3.3 |
| States/Regions |  |  |  |
| Kachin | 3.0 | 5.9 | 3.5 |
| Kayah | 3.3 | 4.8 | 3.9 |
| Kayin | 3.9 | 4.9 | 3.7 |
| Chin | 4.6 | 6.6 | 5.2 |
| Sagaing | 2.1 | 2.4 | 3.3 |
| Tanintharyi | 3.1 | 3.9 | 3.9 |
| Bago | 1.9 | 2.8 | 2.8 |
| Magway | 1.8 | 2.9 | 2.8 |
| Mandalay | 2.0 | 2.9 | 2.7 |
| Mon | 2.3 | 3.7 | 3.3 |
| Rakhine | 2.7 | 4.9 | 3.8 |
| Yangon | 1.8 | 2.6 | 2.4 |
| Shan | 3.0 | 4.4 | 3.5 |
| Ayeyarwady | 2.3 | 5.4 | 2.9 |
| Nay Pyi Taw | 2.0 | 2.6 | 3.1 |
| Education |  |  |  |
| No education | 3.6 | 3.9 | 4.3 |
| Primary | 2.6 | 3.8 | 3.2 |
| Secondary | 2.0 | 3.4 | 2.3 |
| More than secondary | 1.5 | 3.1 | 1.2 |
| Wealth quintile |  |  |  |
| Lowest | 3.5 | 6.1 | 4.3 |
| Second | 2.5 | 3.9 | 3.6 |
| Middle | 2.1 | 2.9 | 3.2 |
| Fourth | 1.9 | 2.8 | 2.7 |
| Highest | 1.6 | 2.9 | 2.0 |
| Total | 2.3 | 3.6 | 3.0 |

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

Table 5.3 Trends in age-specific fertility rates
Age-specific fertility rates for 5 -year periods preceding the survey,
by mother's age at the time of the birth, Myanmar DHS 2015-16

|  | Number of years preceding survey |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
| Mother's age at birth | $0-4$ | $5-9$ | $10-14$ | $15-19$ |
|  | 37 | 40 | 44 | 47 |
| $15-19$ | 112 | 121 | 128 | 139 |
| $20-24$ | 121 | 126 | 155 | 166 |
| $25-29$ | 98 | 114 | 128 | $[141]$ |
| $30-34$ | 63 | 78 | $[102]$ |  |
| $35-39$ | 24 | $[40]$ |  |  |
| $40-44$ | $[3]$ |  |  |  |
| $45-49$ |  |  |  |  |

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

Table 5.4 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, Myanmar DHS 2015-16

| 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 | 95.0 | 4.3 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 1,810 | 0.06 | 0.05 |
| 20-24 | 68.1 | 23.4 | 6.5 | 1.6 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 1,867 | 0.43 | 0.41 |
| 25-29 | 37.6 | 30.2 | 20.0 | 8.3 | 2.6 | 0.9 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 100.0 | 1,867 | 1.12 | 1.05 |
| 30-34 | 28.3 | 20.9 | 23.3 | 15.3 | 7.4 | 3.0 | 1.2 | 0.3 | 0.2 | 0.0 | 0.0 | 100.0 | 2,037 | 1.69 | 1.56 |
| 35-39 | 21.1 | 14.3 | 24.1 | 18.5 | 10.2 | 5.5 | 3.4 | 1.6 | 0.9 | 0.4 | 0.1 | 100.0 | 1,954 | 2.29 | 2.06 |
| 40-44 | 17.9 | 9.7 | 18.9 | 20.1 | 13.3 | 8.0 | 5.4 | 3.6 | 1.8 | 0.6 | 0.7 | 100.0 | 1,733 | 2.86 | 2.51 |
| 45-49 | 17.4 | 9.0 | 15.9 | 18.1 | 11.7 | 10.9 | 6.0 | 5.5 | 2.8 | 1.1 | 1.7 | 100.0 | 1,617 | 3.21 | 2.77 |
| Total | 40.9 | 16.3 | 15.8 | 11.6 | 6.4 | 3.9 | 2.2 | 1.5 | 0.8 | 0.3 | 0.3 | 100.0 | 12,885 | 1.64 | 1.46 |
| CURRENTLY MARRIED WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 62.4 | 32.8 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 227 | 0.42 | 0.41 |
| 20-24 | 33.0 | 48.8 | 13.7 | 3.5 | 0.9 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 834 | 0.91 | 0.86 |
| 25-29 | 12.9 | 41.8 | 28.0 | 11.7 | 3.9 | 1.3 | 0.4 | 0.1 | 0.0 | 0.0 | 0.0 | 100.0 | 1,258 | 1.57 | 1.47 |
| 30-34 | 9.0 | 25.6 | 30.0 | 19.7 | 9.3 | 3.9 | 1.7 | 0.4 | 0.3 | 0.1 | 0.0 | 100.0 | 1,505 | 2.17 | 1.99 |
| 35-39 | 4.5 | 16.5 | 29.7 | 22.7 | 12.2 | 6.8 | 4.1 | 1.8 | 0.9 | 0.5 | 0.2 | 100.0 | 1,482 | 2.78 | 2.51 |
| 40-44 | 3.7 | 9.1 | 21.9 | 25.1 | 16.2 | 9.9 | 6.2 | 4.0 | 2.2 | 0.8 | 0.8 | 100.0 | 1,283 | 3.41 | 2.99 |
| 45-49 | 3.7 | 8.7 | 18.0 | 20.8 | 14.3 | 13.3 | 7.3 | 6.9 | 3.8 | 1.4 | 1.9 | 100.0 | 1,169 | 3.86 | 3.34 |
| Total | 11.3 | 23.9 | 24.0 | 17.7 | 9.7 | 5.9 | 3.3 | 2.1 | 1.2 | 0.4 | 0.5 | 100.0 | 7,759 | 2.46 | 2.21 |

Table 5.5 Birth intervals
Percent distribution of non-first births in the 5 years preceding the survey by number of months since preceding birth, and median number of months since preceding birth, according to background characteristics, Myanmar DHS 2015-16

| 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+ |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | * | * | * | * | * | * | 100.0 | 11 | * |
| 20-29 | 7.1 | 13.3 | 27.0 | 21.5 | 12.8 | 18.3 | 100.0 | 825 | 36.9 |
| 30-39 | 4.0 | 6.6 | 15.1 | 15.4 | 14.9 | 44.0 | 100.0 | 1,505 | 54.8 |
| 40-49 | 2.1 | 4.9 | 13.6 | 14.4 | 12.2 | 52.8 | 100.0 | 436 | 63.2 |
| Sex of preceding birth |  |  |  |  |  |  |  |  |  |
| Male | 5.2 | 7.7 | 17.4 | 16.5 | 13.6 | 39.6 | 100.0 | 1,430 | 50.9 |
| Female | 4.4 | 9.2 | 19.6 | 17.5 | 14.0 | 35.3 | 100.0 | 1,347 | 47.6 |
| Survival of preceding birth |  |  |  |  |  |  |  |  |  |
| Living | 4.3 | 7.9 | 17.8 | 17.1 | 14.3 | 38.6 | 100.0 | 2,541 | 50.1 |
| Dead | 10.3 | 14.2 | 24.8 | 15.7 | 8.9 | 26.2 | 100.0 | 236 | 36.3 |
| Birth order |  |  |  |  |  |  |  |  |  |
| 2-3 | 4.3 | 7.5 | 16.4 | 17.6 | 14.1 | 40.2 | 100.0 | 1,789 | 51.2 |
| 4-6 | 5.1 | 9.3 | 20.6 | 15.8 | 14.1 | 35.1 | 100.0 | 783 | 47.5 |
| 7+ | 8.3 | 13.3 | 27.4 | 16.8 | 10.0 | 24.1 | 100.0 | 204 | 36.5 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 4.1 | 7.2 | 16.1 | 15.8 | 13.5 | 43.3 | 100.0 | 513 | 54.2 |
| Rural | 4.9 | 8.7 | 18.9 | 17.3 | 13.9 | 36.3 | 100.0 | 2,264 | 48.1 |
| States/Regions |  |  |  |  |  |  |  |  |  |
| Kachin | 4.7 | 7.3 | 27.3 | 19.6 | 14.4 | 26.7 | 100.0 | 119 | 41.2 |
| Kayah | 8.1 | 15.1 | 27.0 | 18.9 | 12.1 | 18.8 | 100.0 | 23 | 35.9 |
| Kayin | 2.9 | 11.8 | 23.0 | 17.9 | 11.9 | 32.5 | 100.0 | 109 | 43.9 |
| Chin | 12.1 | 17.1 | 34.0 | 19.6 | 6.2 | 11.0 | 100.0 | 51 | 30.4 |
| Sagaing | 2.0 | 7.2 | 19.7 | 17.0 | 17.4 | 36.7 | 100.0 | 334 | 50.3 |
| Tanintharyi | 9.0 | 10.9 | 19.9 | 16.8 | 16.0 | 27.4 | 100.0 | 95 | 41.1 |
| Bago | 3.5 | 6.3 | 14.4 | 19.6 | 14.7 | 41.5 | 100.0 | 229 | 52.6 |
| Magway | 4.8 | 4.7 | 13.2 | 17.6 | 12.6 | 47.2 | 100.0 | 197 | 57.1 |
| Mandalay | 1.2 | 3.9 | 19.2 | 11.9 | 16.8 | 47.0 | 100.0 | 259 | 57.3 |
| Mon | 4.8 | 4.7 | 14.6 | 18.1 | 18.6 | 39.2 | 100.0 | 97 | 51.7 |
| Rakhine | 9.9 | 11.3 | 21.0 | 18.1 | 13.6 | 25.9 | 100.0 | 202 | 41.2 |
| Yangon | 6.3 | 7.9 | 8.0 | 15.1 | 12.2 | 50.5 | 100.0 | 241 | 60.5 |
| Shan | 6.3 | 12.9 | 25.5 | 17.3 | 11.3 | 26.6 | 100.0 | 402 | 40.1 |
| Ayeyarwady | 3.4 | 8.3 | 13.9 | 15.7 | 11.5 | 47.3 | 100.0 | 361 | 57.7 |
| Nay Pyi Taw | 4.8 | 7.1 | 14.5 | 25.3 | 17.6 | 30.8 | 100.0 | 58 | 47.2 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 7.9 | 12.2 | 23.5 | 17.0 | 13.9 | 25.6 | 100.0 | 641 | 39.9 |
| Primary | 4.3 | 7.7 | 17.1 | 17.7 | 13.3 | 39.9 | 100.0 | 1,403 | 50.7 |
| Secondary | 3.5 | 6.5 | 17.7 | 15.3 | 14.4 | 42.6 | 100.0 | 603 | 53.4 |
| More than secondary | 0.8 | 6.4 | 10.6 | 17.6 | 16.1 | 48.5 | 100.0 | 130 | 58.8 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 6.5 | 12.9 | 20.8 | 18.8 | 13.1 | 27.9 | 100.0 | 952 | 42.3 |
| Second | 4.7 | 7.2 | 22.9 | 16.2 | 13.3 | 35.7 | 100.0 | 681 | 47.0 |
| Middle | 5.4 | 4.8 | 15.3 | 17.7 | 13.2 | 43.7 | 100.0 | 449 | 54.5 |
| Fourth | 2.4 | 5.5 | 13.2 | 13.3 | 16.9 | 48.7 | 100.0 | 411 | 58.5 |
| Highest | 1.7 | 6.4 | 12.2 | 17.1 | 14.0 | 48.5 | 100.0 | 284 | 59.4 |
| Total | 4.8 | 8.4 | 18.4 | 17.0 | 13.8 | 37.6 | 100.0 | 2,777 | 49.0 |

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.

Table 5.6 Postpartum amenorrhea, abstinence, and insusceptibility
Percentage of births in the 3 years preceding the survey for which mothers are postpartum amenorrheic, abstaining, and insusceptible, by number of months since birth, and median and mean durations, Myanmar DHS 2015-16

| Months since <br> birth | Percentage of births for which the mother is: |  | Number of <br>  <br> births |  |
| :--- | ---: | :---: | :---: | :---: |
|  | Abstaining | Insusceptible ${ }^{1}$ |  |  |
| $2-3$ | 87.1 | 89.7 | 96.3 | 94 |
| $4-5$ | 55.5 | 40.5 | 67.2 | 166 |
| $6-7$ | 36.9 | 18.8 | 42.8 | 157 |
| $8-9$ | 35.1 | 17.4 | 38.5 | 140 |
| $10-11$ | 24.0 | 9.4 | 31.3 | 153 |
| $12-13$ | 19.8 | 8.1 | 26.2 | 120 |
| $14-15$ | 28.3 | 7.9 | 35.5 | 177 |
| $16-17$ | 21.8 | 5.5 | 25.6 | 169 |
| $18-19$ | 20.2 | 5.0 | 23.3 | 123 |
| $20-21$ | 12.0 | 2.8 | 14.8 | 135 |
| $22-23$ | 16.5 | 3.8 | 19.4 | 131 |
| $24-25$ | 6.1 | 3.6 | 9.4 | 126 |
| $26-27$ | 7.3 | 2.5 | 9.9 | 150 |
| $28-29$ | 7.4 | 3.4 | 10.8 | 143 |
| $30-31$ | 5.2 | 7.7 | 11.3 | 124 |
| $32-33$ | 6.9 | 3.1 | 10.1 | 139 |
| $34-35$ | 5.4 | 6.2 | 11.5 | 130 |
| Total | 8.5 | 3.3 | 11.4 | 128 |
| Median | 22.1 | 12.3 | 27.2 | 2,506 |
| Mean | 3.4 | 2.2 | 4.5 | na |

Note: Estimates are based on status at the time of the survey.
na $=$ Not applicable
${ }^{1}$ Includes births for which mothers are either still amenorrheic or still abstaining (or both) following birth

Table 5.7 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 3 years preceding the survey, by background characteristics, Myanmar DHS 2015-16

| Background <br> characteristic | Postpartum <br> amenorrhea | Postpartum <br> abstinence | Postpartum <br> insusceptibility ${ }^{1}$ |
| :--- | :---: | :---: | :---: |
| Mother's age |  |  |  |
| 15-29 | 2.9 | 2.1 | 4.2 |
| 30-49 | 4.1 | $(2.5)$ | 5.2 |
| Residence |  |  |  |
| $\quad$ Urban | $(2.1)$ | $(2.0)$ | 2.9 |
| $\quad$ Rural | 4.2 | 2.3 | 5.1 |
| Education |  |  |  |
| $\quad$ No education | 5.0 | 3.3 | 5.9 |
| $\quad$ Primary | 4.3 | $(2.0)$ | 5.3 |
| $\quad$ Secondary | 2.7 | $(2.4)$ | 3.8 |
| Wealth quintile |  |  |  |
| $\quad$ Lowest | 4.7 | $(2.0)$ | 5.2 |
| Second | 3.6 | 3.0 | 4.6 |
| Middle | 4.3 | $*$ | 5.2 |
| Fourth | 2.6 | $*$ | 3.4 |
| Highest | $*$ | $*$ | 4.4 |
| Total | 3.4 | 2.2 | 4.5 |

Note: Medians are based on the status at the time of the survey (current status). 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.
${ }^{1}$ Includes births for which mothers are either still amenorrheic or still abstaining (or both) following birth

Table 5.8 Menopause
Percentage of women age 30-49 who are menopausal, by age, Myanmar DHS 2015-16

| Age | Percentage <br> menopausal | Number of <br> women |
| :--- | :---: | :---: |
| Age |  |  |
| $30-34$ | 9.6 | 2,037 |
| $35-39$ | 11.4 | 1,954 |
| $40-41$ | 10.0 | 698 |
| $42-43$ | 13.5 | 653 |
| $44-45$ | 17.0 | 761 |
| $46-47$ | 29.1 | 668 |
| $48-49$ | 50.0 | 571 |
| Total | 16.1 | 7,341 |

${ }^{1}$ Percentage of all women who are not pregnant and not postpartum amenorrheic whose las menstrual period occurred 6 or more months preceding the survey

## Table 5.9 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, Myanmar DHS 2015-16

| 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 | 0.3 | na | na | na | na | 95.0 | 1,810 | a |
| 20-24 | 0.3 | 5.1 | 15.4 | na | na | 68.1 | 1,867 | a |
| 25-29 | 0.8 | 5.8 | 17.9 | 31.1 | 50.3 | 37.6 | 1,867 | 25.0 |
| 30-34 | 1.0 | 7.6 | 18.7 | 32.7 | 48.5 | 28.3 | 2,037 | 25.3 |
| 35-39 | 0.4 | 7.6 | 18.5 | 33.1 | 51.0 | 21.1 | 1,954 | 24.8 |
| 40-44 | 0.7 | 8.3 | 21.8 | 36.7 | 54.7 | 17.9 | 1,733 | 24.1 |
| 45-49 | 1.1 | 7.3 | 22.4 | 37.8 | 54.5 | 17.4 | 1,617 | 24.0 |
| 20-49 | 0.7 | 6.9 | 19.0 | na | na | 32.1 | 11,075 | a |
| 25-49 | 0.8 | 7.3 | 19.7 | 34.1 | 51.6 | 24.8 | 9,208 | 24.7 |

na $=$ Not applicable due to censoring
$a=$ Omitted because less than $50 \%$ of women had a birth before reaching the beginning of the age group

Table 5.10 Median age at first birth
Median age at first birth among women age 25-49, according to background characteristics, Myanmar DHS 2015-16

| Background <br> characteristic | Women age <br> $25-49$ |
| :--- | ---: |
| Residence |  |
| Urban | a |
| Rural | 23.8 |
| States/Regions |  |
| Kachin | 23.6 |
| Kayah | 23.8 |
| Kayin | 23.4 |
| Chin | 23.1 |
| Sagaing | 24.3 |
| Tanintharyi | 23.8 |
| Bago | 24.7 |
| Magway | a |
| Mandalay | a |
| Mon | 24.5 |
| Rakhine | 22.6 |
| Yangon | a |
| Shan | 22.8 |
| Ayeyarwady | 23.9 |
| Nay Pyi Taw | 24.5 |
| Education |  |
| No education | 21.5 |
| Primary | 23.5 |
| Secondary | a |
| More than secondary | a |
| Wealth quintile |  |
| Lowest | 22.0 |
| Second | 22.9 |
| Middle | 24.7 |
| Fourth | a |
| Highest | a |
| Total | 24.7 |

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

Table 5.11 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, Myanmar DHS 2015-16

| 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 |  |  |
| Age |  |  |  |  |
| 15 | 0.7 | 0.1 | 0.8 | 340 |
| 16 | 1.0 | 0.8 | 1.8 | 390 |
| 17 | 1.9 | 1.3 | 3.2 | 366 |
| 18 | 5.4 | 1.2 | 6.5 | 357 |
| 19 | 16.1 | 1.4 | 17.5 | 357 |
| Residence |  |  |  |  |
| Urban | 3.7 | 0.7 | 4.3 | 591 |
| Rural | 5.6 | 1.1 | 6.7 | 1,219 |
| States/Regions |  |  |  |  |
| Kachin | 7.3 | 3.8 | 11.1 | 59 |
| Kayah | 6.5 | 1.0 | 7.5 | 9 |
| Kayin | 6.2 | 1.1 | 7.3 | 41 |
| Chin | 5.9 | 4.7 | 10.5 | 17 |
| Sagaing | 4.0 | 0.9 | 4.8 | 164 |
| Tanintharyi | 4.9 | 0.9 | 5.8 | 41 |
| Bago | 4.8 | 0.0 | 4.8 | 180 |
| Magway | 4.0 | 0.9 | 5.0 | 133 |
| Mandalay | 1.8 | 0.0 | 1.8 | 188 |
| Mon | 6.2 | 1.0 | 7.1 | 66 |
| Rakhine | 6.2 | 2.0 | 8.2 | 128 |
| Yangon | 2.9 | 0.5 | 3.5 | 316 |
| Shan | 9.0 | 2.1 | 11.1 | 233 |
| Ayeyarwady | 5.9 | 0.0 | 5.9 | 195 |
| Nay Pyi Taw | 3.8 | 1.9 | 5.7 | 39 |
| Education |  |  |  |  |
| No education | 18.1 | 1.0 | 19.1 | 125 |
| Primary | 8.8 | 1.9 | 10.7 | 425 |
| Secondary | 2.5 | 0.6 | 3.1 | 1,189 |
| More than secondary | 0.0 | 0.5 | 0.5 | 71 |
| Wealth quintile |  |  |  |  |
| Lowest | 7.6 | 1.6 | 9.1 | 321 |
| Second | 7.3 | 1.6 | 9.0 | 329 |
| Middle | 3.3 | 0.3 | 3.6 | 382 |
| Fourth | 5.6 | 0.3 | 5.9 | 389 |
| Highest | 1.8 | 1.1 | 2.9 | 388 |
| Total | 5.0 | 0.9 | 5.9 | 1,810 |

## Key Findings

- Desire for another child: Overall $13 \%$ of currently married women age 15-49 want to have another child soon, $18 \%$ want to wait at least 2 years, and $61 \%$ want no more children or are sterilized.
- Limiting childbearing: Women are more likely than men to want no more children, no matter how many children they already have. Among married couples with three children, $84 \%$ of women and $65 \%$ of men say they do not want another child.
- Ideal family size: Women currently want 2.5 children, on average, while men want 2.8 children.
- Unwanted births: When asked about the desirability of births in the past 5 years and current pregnancies, $91 \%$ were wanted at the time of conception, $4 \%$ were mistimed, and $5 \%$ were unwanted.

Information on fertility preferences can help family planning program managers assess the desire for children, the extent of mistimed and unwanted pregnancies, and the demand for contraception to space or limit births. Trends in this information may suggest the direction that fertility patterns will take in the future.

This chapter presents information on whether and when married women and men want more children, ideal family size, whether the last birth was wanted, and the theoretical fertility rate if all unwanted births were prevented.

### 6.1 Desire for Another Child

## Desire for another child

Women and men were asked whether they wanted more children and, if so, how long they would prefer to wait before the next child. Women and men who are sterilized are assumed not to want any more children.
Sample: Currently married women and men age 15-49

Table 6.1 presents fertility preferences of currently married women and men age 15-49 by number of living children. Thirty-three percent of women say that they want to have another child: $13 \%$ want a child within 2 years, $18 \%$ prefer to wait for two or more years, and $2 \%$ want another child but are undecided about when to have that child. Six in 10 married women ( $61 \%$ ) want no more children or have been sterilized. Three percent of married women are undecided about whether they want more children.

Fifty-three percent of currently married women with no child want to have a child within 2 years. This proportion falls to $18 \%$ among women with one child and falls even lower among women with more than one child. Forty-one percent of women with one child want to delay having their next child for 2 or more
years, and a large majority of women with two or more children want no more children. Even among currently married women with only one living child, one-third want no more children.

Fertility preferences of men are similar to those of women. Forty-six percent of currently married men want to have another child. Twenty-five percent of all currently married men want to wait 2 or more years. Another $46 \%$ of married men do not want to have another child (or have been sterilized), and 4\% are undecided.

The desire to limit childbearing rises with increasing number of living children, from $10 \%$ among married women with no living children to $86 \%-87 \%$ among women with four or more living children. Even among women with two children, the percentage who want no more is $70 \%$ (Table 6.2.1 and Figure 6.1).

Figure 6.1 Desire to limit childbearing by number of living children

Percentage of currently married women age 15-49 who want no more children


## Patterns by background characteristics

- The percentage of married women who want no more children is slightly higher in urban areas (64\%) than in rural areas (59\%) (Table 6.2.1).
- There is considerable variation across states and regions; Rakhine State has the smallest proportion of women wishing to curtail their fertility ( $47 \%$ ), whereas Shan State has the highest proportion (66\%).
- The desire to limit childbearing declines with education: $68 \%$ of women with no education want to limit childbearing, compared with $52 \%$ of women with more than secondary education. This is likely because a higher percentage of educated women are younger women who are still in the process of having their desired number of children (see Chapter 3 -Table 3.2.1).
- The desire to limit childbearing among women generally increases somewhat with increasing household wealth, from $59 \%$ of women in the lowest and middle wealth quintile wanting no more children to $63 \%$ of women in the highest wealth quintile.
- In general, the pattern of men's desire to limit childbearing varies similarly to that of women by background characteristics. However, women have a greater desire not to have any more children at every parity than men (Table 6.2.1 and Table 6.2.2).


### 6.2 Ideal Family Size

## Ideal family size

Respondents with no children were asked, "If you could choose exactly the number of children to have in your whole life, how many would that be?" Respondents who had children were asked: "If you could go back to the time when 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?"
Sample: Women and men age 15-49

The mean ideal family size for all women age 15-49 in Myanmar is 2.5 children, and for all men in the same age group, it is 2.8 children (Table 6.3). The mean ideal family size for currently married women, at 2.9 children, and for currently married men, at 3.0 children, is slightly higher than for all women and all men age 15-49, respectively (Figure 6.2).

Among women with no living children, $35 \%$ would like to have two children, $20 \%$ would like to have three children, and $17 \%$ would like to have no children. Also notably, only $6 \%$ of women with no children want four or more children.

Although women's and men's ideal family size increases with the number of children they already have, men's ideal family size is typically larger than women's, and this gender difference is greatest in the case of 6 or more living children. The ideal family size of women with 6 or more living children is 4.7 children, compared with 5.8 children for men with 6 or more children (Table 6.3 and Figure 6.3).

## Patterns by background characteristics

- The mean ideal number of children increases gradually with increasing age for both women and men. For women, ideal family size increases from two children among women age 15-19 to three children among women age 45-49; for men it increases from 2.4 children among men age 15-19 to 3.3 children among men age 45-49 (Table 6.4).
- By state and region, the lowest mean ideal number of children is found in Yangon Region for women (2.1) and is found in Ayeyarwady Region for men (2.0). However, the highest mean ideal number of children is found among both women (4.1) and men (4.4) in Chin State.
- For both women and men, ideal family size decreases with increasing education. For women the decrease is from 2.8 children among women with no education to 2.3 children among women with more than secondary education, and for men the decrease is from 3.3 children among men with no education to 2.4 children among men with more than secondary education.
- Mean ideal family size decreases with increasing wealth among both women and men: from 3.0 and 3.2 children, respectively, in the lowest wealth quintile, to 2.2 and 2.5 children in the highest wealth quintile, respectively.


### 6.3 Fertility Planning Status

## Planning status of birth

Women reported whether their most recent birth was wanted at the time (planned birth), at a later time (mistimed birth), or not at all (unwanted birth).
Sample: Current pregnancies and births in the 5 years before the survey to women age 15-49

In Myanmar, the vast majority of births were wanted at the time of conception ( $91 \%$ ), and only $4 \%$ of births were mistimed, that is, wanted at a later date. Only $5 \%$ of births were not wanted at all (Table 6.5 and Figure 6.4).

## Patterns by background characteristics

- The proportion of unwanted births rises with birth order, increasing from $1 \%$ among first births to $3 \%$ among second-order births, $7 \%$ among third-order births, and, finally, $12 \%$ among fourth- and higher-order births (Table 6.5).
- The percentage of unwanted births also increases with mother's age at birth from 3\% of births to women under age 20 to $13 \%$ in the age group 40-44.


### 6.4 Wanted Fertility Rates

## Wanted fertility rate

The number of children the average woman would have over the course of her lifetime if she bore children at current age-specific fertility rates, excluding unwanted births. A birth is considered wanted if the number of living children at the time of conception is lower than the ideal number of children currently reported by the respondent.
Sample: Births to women age 15-49 during the 3 years before the survey

The wanted fertility rate indicates what fertility would be if women had only the children they desired. The total wanted fertility rate in Myanmar is 2 children, 0.3 children less than the current total fertility rate of 2.3 children (Table 6.6 and Figure 6.5).

## Patterns by background characteristics

- The gap between wanted and actual fertility rates among women living in urban areas and among those living in rural areas is small ( 0.2 children and 0.3 children, respectively) (Figure 6.5).

Figure 6.5 Wanted and actual fertility by residence

Wanted and actual number of children per woman


- The largest gap between wanted and actual fertility is almost one child in Chin State, where the total fertility rate is 4.6 , while the smallest gap of 0.1 children is in Mon State, where the total fertility rate is 2.3 .
- The difference between wanted and actual fertility falls as women's education increases: the difference is 0.7 children for women with no education but only 0.1 children for women with more than secondary education. This finding suggests that women with higher education are better able to have only the number of children they actually want.
- The gap between wanted and actual fertility among women in the lowest wealth quintile (0.6 children) is slightly larger than that among women in other wealth quintiles.


## LIST OF TABLES

For more information on fertility preferences, see the following tables:

- Table 6.1 Fertility preferences by number of living children
- Table 6.2.1 Desire to limit childbearing: Women
- Table 6.2.2 Desire to limit childbearing: Men
- Table 6.3 Ideal number of children by number of living children
- Table 6.4 Mean ideal number of children
- Table 6.5 Fertility planning status
- Table 6.6 Wanted fertility rates

Table 6.1 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, Myanmar DHS 2015-16

| Desire for children | Number of living children |  |  |  |  |  |  | $\begin{gathered} \text { Total } \\ 15-49 \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | $6+$ |  |
| WOMEN ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Have another soon ${ }^{2}$ | 52.5 | 17.6 | 7.3 | 5.6 | 2.6 | 2.5 | 3.1 | 13.2 |
| Have another later ${ }^{3}$ | 19.0 | 40.5 | 16.1 | 5.0 | 5.0 | 1.9 | 2.5 | 18.4 |
| Have another, undecided when | 1.9 | 2.0 | 1.9 | 1.2 | 0.6 | 0.7 | 2.0 | 1.6 |
| Undecided | 10.5 | 3.6 | 2.9 | 1.8 | 1.8 | 2.1 | 1.2 | 3.4 |
| Want no more | 10.1 | 33.7 | 63.9 | 73.2 | 78.7 | 81.6 | 81.7 | 55.5 |
| Sterilized ${ }^{4}$ | 0.2 | 0.7 | 5.9 | 10.8 | 8.4 | 5.6 | 4.4 | 5.0 |
| Declared infecund | 5.7 | 1.7 | 2.0 | 2.3 | 2.9 | 5.5 | 5.1 | 2.7 |
| Missing | 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 |
| Number | 756 | 2,025 | 2,134 | 1,402 | 738 | 356 | 349 | 7,759 |
| MEN ${ }^{5}$ |  |  |  |  |  |  |  |  |
| Have another soon ${ }^{2}$ | 47.0 | 24.3 | 13.3 | 12.2 | 7.2 | 6.0 | 9.1 | 18.8 |
| Have another later ${ }^{3}$ | 19.4 | 45.5 | 24.4 | 14.4 | 6.6 | 9.7 | 8.1 | 25.3 |
| Have another, undecided when | 2.3 | 3.2 | 2.5 | 1.2 | 1.7 | 0.0 | 0.8 | 2.2 |
| Undecided | 10.8 | 4.4 | 3.3 | 3.9 | 2.4 | 6.3 | 2.0 | 4.4 |
| Want no more | 8.6 | 20.1 | 53.4 | 62.3 | 75.0 | 74.6 | 73.7 | 44.4 |
| Sterilized ${ }^{4}$ | 0.0 | 0.4 | 1.1 | 2.4 | 2.7 | 0.4 | 2.3 | 1.2 |
| Declared infecund | 11.9 | 2.0 | 2.0 | 3.6 | 4.5 | 3.0 | 4.0 | 3.6 |
| Missing | 0.0 | 0.2 | 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 |
| Number | 310 | 823 | 831 | 521 | 268 | 91 | 113 | 2,957 |

[^8]Table 6.2.1 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, Myanmar DHS 2015-16

| Background characteristic | Number of living children ${ }^{1}$ |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6+ |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 9.8 | 42.3 | 82.4 | 89.0 | 91.5 | 87.3 | (97.0) | 64.0 |
| Rural | 10.6 | 31.0 | 65.0 | 82.3 | 86.1 | 87.2 | 84.8 | 59.3 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | (2.8) | 18.3 | 57.8 | 86.5 | 82.2 | * | (91.7) | 57.8 |
| Kayah | (8.7) | 18.0 | 60.2 | 75.6 | (68.5) | (88.4) | 89.7 | 58.1 |
| Kayin | (4.0) | 17.2 | 48.5 | 70.6 | 82.8 | (85.5) | * | 55.2 |
| Chin | (6.8) | 8.3 | 31.9 | 52.7 | 69.4 | 78.0 | 82.7 | 50.2 |
| Sagaing | (11.6) | 19.3 | 61.7 | 77.3 | 93.5 | (87.8) | (86.3) | 59.5 |
| Tanintharyi | (7.9) | 11.2 | 39.7 | 72.7 | 76.5 | (76.0) | (83.6) | 48.8 |
| Bago | 22.7 | 45.1 | 77.3 | 88.5 | (90.9) | * | * | 64.2 |
| Magway | (6.7) | 33.1 | 74.5 | 84.6 | 86.9 | (100.0) | * | 60.0 |
| Mandalay | 4.6 | 29.6 | 70.1 | 83.2 | (81.8) | * | * | 56.6 |
| Mon | (7.3) | 24.7 | 54.3 | 87.3 | 85.7 | (93.9) | (80.1) | 58.9 |
| Rakhine | 14.8 | 15.4 | 53.8 | 63.1 | 72.9 | (77.7) | 82.2 | 47.1 |
| Yangon | 9.2 | 46.2 | 84.2 | 91.7 | (94.7) | * | * | 64.9 |
| Shan | (7.5) | 35.7 | 72.8 | 88.4 | (91.5) | (91.3) | * | 66.0 |
| Ayeyarwady | 7.6 | 45.2 | 71.5 | 89.4 | 86.8 | * | * | 64.0 |
| Nay Pyi Taw | 16.0 | 30.7 | 71.7 | 81.5 | (89.5) | * | * | 57.1 |
| Education |  |  |  |  |  |  |  |  |
| No education | 11.5 | 31.5 | 63.3 | 76.0 | 87.8 | 90.1 | 81.1 | 67.9 |
| Primary | 13.7 | 36.0 | 67.1 | 83.0 | 85.6 | 86.1 | 90.0 | 63.6 |
| Secondary | 7.9 | 33.3 | 72.5 | 89.4 | 91.8 | 82.4 | 83.3 | 54.2 |
| More than secondary | 8.0 | 34.0 | 85.9 | 96.3 | * | * | * | 51.7 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 10.8 | 30.1 | 59.4 | 76.2 | 82.6 | 85.0 | 86.4 | 59.2 |
| Second | 8.5 | 29.0 | 63.8 | 81.4 | 89.4 | 85.0 | 84.4 | 60.4 |
| Middle | 12.0 | 34.3 | 67.4 | 81.4 | 85.4 | 89.6 | 83.9 | 58.9 |
| Fourth | 11.6 | 36.6 | 74.8 | 89.0 | 88.4 | 91.0 | 89.9 | 61.6 |
| Highest | 8.6 | 40.0 | 81.4 | 93.4 | 95.2 | * | * | 62.7 |
| Total | 10.4 | 34.4 | 69.8 | 84.0 | 87.1 | 87.2 | 86.1 | 60.5 |

Note: Women who have been sterilized or whose husband has 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.
${ }^{1}$ The number of living children includes the current pregnancy.

## Table 6.2.2 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, Myanmar DHS 2015-16

| Background characteristic | Number of living children ${ }^{1}$ |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6+ |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 13.0 | 22.6 | 66.5 | 73.2 | (91.4) | * | * | 47.7 |
| Rural | 6.6 | 19.5 | 50.2 | 62.2 | 75.1 | 74.7 | 74.6 | 44.9 |
| Education |  |  |  |  |  |  |  |  |
| No education | (11.4) | 27.6 | 50.7 | 48.3 | 79.5 | (76.9) | (70.0) | 50.6 |
| Primary | 7.0 | 19.5 | 52.6 | 65.4 | 74.6 | 69.6 | 79.6 | 47.8 |
| Secondary | 9.2 | 19.6 | 56.0 | 71.1 | 82.3 | (80.2) | (79.6) | 42.4 |
| More than secondary | (7.8) | 21.9 | (67.5) | * | * | * | * | 37.7 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | (5.1) | 14.1 | 47.9 | 59.4 | 71.3 | (73.0) | 70.3 | 44.6 |
| Second | (19.5) | 24.9 | 48.6 | 51.2 | 80.4 | (75.0) | (79.1) | 48.4 |
| Middle | 0.4 | 18.6 | 46.2 | 71.2 | 79.8 | (69.8) | (79.2) | 40.8 |
| Fourth | 10.3 | 13.9 | 58.2 | 67.3 | (76.9) | * | * | 42.5 |
| Highest | 13.9 | 29.6 | 70.9 | 84.5 | (84.6) | * | * | 52.4 |
| Total | 8.6 | 20.5 | 54.5 | 64.7 | 77.7 | 74.9 | 76.0 | 45.6 |

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. State and region level estimates are not shown due to few cases. 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.
${ }^{1}$ The number of living children includes one additional child if respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

Table 6.3 Ideal number of children by number of living children
Percent distribution of women and men 15-49 by ideal number of children, and mean ideal number of children for all respondents and for currently married respondents, according to the number of living children, Myanmar DHS 2015-16

| Ideal number of children | Number of living children |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | $6+$ |  |
| WOMEN ${ }^{1}$ |  |  |  |  |  |  |  |  |
| 0 | 17.2 | 3.0 | 3.2 | 2.4 | 3.7 | 3.6 | 3.9 | 8.7 |
| 1 | 10.2 | 13.3 | 3.0 | 3.1 | 0.9 | 1.5 | 0.2 | 7.4 |
| 2 | 35.3 | 41.2 | 39.1 | 11.6 | 11.5 | 7.1 | 5.5 | 31.0 |
| 3 | 19.5 | 33.7 | 35.7 | 51.1 | 19.5 | 25.4 | 17.9 | 28.8 |
| 4 | 3.5 | 3.6 | 9.4 | 12.9 | 38.0 | 12.5 | 14.1 | 8.4 |
| 5 | 1.9 | 2.5 | 5.2 | 12.4 | 13.2 | 27.0 | 12.9 | 5.6 |
| $6+$ | 0.4 | 0.4 | 0.9 | 2.0 | 5.9 | 11.4 | 27.6 | 2.2 |
| Non-numeric responses | 12.2 | 2.4 | 3.5 | 4.7 | 7.2 | 11.6 | 17.9 | 7.8 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 5,169 | 2,276 | 2,333 | 1,516 | 803 | 400 | 388 | 12,885 |
| Mean ideal number of children for: ${ }^{2}$ |  |  |  |  |  |  |  |  |
| All women | 1.9 | 2.3 | 2.7 | 3.2 | 3.7 | 4.0 | 4.7 | 2.5 |
| Number | 4,540 | 2,220 | 2,252 | 1,446 | 745 | 354 | 318 | 11,874 |
| Currently married women | 2.2 | 2.3 | 2.7 | 3.2 | 3.8 | 4.0 | 4.8 | 2.9 |
| Number of currently married women | 739 | 1,982 | 2,070 | 1,342 | 686 | 314 | 286 | 7,420 |
| MEN ${ }^{3}$ |  |  |  |  |  |  |  |  |
| 0 | 7.8 | 4.1 | 8.5 | 7.1 | 11.8 | 12.8 | 5.1 | 7.4 |
| 1 | 7.4 | 10.1 | 2.4 | 1.7 | 0.1 | 1.1 | 2.8 | 5.7 |
| 2 | 39.3 | 36.6 | 32.5 | 6.7 | 6.5 | 2.1 | 1.9 | 30.4 |
| 3 | 25.7 | 33.0 | 32.5 | 38.1 | 8.1 | 13.5 | 8.2 | 27.9 |
| 4 | 7.3 | 7.6 | 11.0 | 17.0 | 37.5 | 7.3 | 6.0 | 10.9 |
| 5 | 4.0 | 4.5 | 6.4 | 20.6 | 17.1 | 35.6 | 12.2 | 8.0 |
| 6+ | 1.5 | 1.6 | 2.1 | 3.4 | 14.4 | 24.1 | 51.8 | 4.2 |
| Non-numeric responses | 7.0 | 2.5 | 4.6 | 5.4 | 4.6 | 3.5 | 11.9 | 5.5 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 2,005 | 863 | 855 | 530 | 278 | 91 | 115 | 4,737 |
| Mean ideal number of children for: ${ }^{2}$ |  |  |  |  |  |  |  |  |
| All men | 2.4 | 2.5 | 2.7 | 3.4 | 3.9 | 4.5 | 5.8 | 2.8 |
| Number | 1,865 | 841 | 816 | 501 | 265 | 88 | 101 | 4,477 |
| Currently married men | 2.3 | 2.5 | 2.7 | 3.4 | 3.9 | 4.5 | 5.8 | 3.0 |
| Number of currently married men | 298 | 803 | 793 | 493 | 256 | 87 | 101 | 2,831 |

${ }^{1}$ The number of living children includes current pregnancy for women.
${ }^{2}$ Means are calculated excluding respondents who gave non-numeric responses.
${ }^{3}$ The number of living children includes one additional child if respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

Table 6.4 Mean ideal number of children

| Background characteristic | Mean | Number of women ${ }^{1}$ | Mean | Number of men ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |
| 15-19 | 2.0 | 1,520 | 2.4 | 673 |
| 20-24 | 2.3 | 1,714 | 2.5 | 649 |
| 25-29 | 2.5 | 1,774 | 2.8 | 655 |
| 30-34 | 2.6 | 1,946 | 2.8 | 670 |
| 35-39 | 2.6 | 1,847 | 2.9 | 653 |
| 40-44 | 2.8 | 1,583 | 3.0 | 646 |
| 45-49 | 3.0 | 1,491 | 3.3 | 533 |
| Residence |  |  |  |  |
| Urban | 2.2 | 3,462 | 2.4 | 1,292 |
| Rural | 2.7 | 8,413 | 3.0 | 3,185 |
| States/Regions |  |  |  |  |
| Kachin | 3.0 | 362 | 3.4 | 154 |
| Kayah | 3.2 | 52 | 3.5 | 21 |
| Kayin | 3.2 | 271 | 3.0 | 113 |
| Chin | 4.1 | 95 | 4.4 | 35 |
| Sagaing | 2.8 | 1,348 | 3.3 | 506 |
| Tanintharyi | 3.0 | 269 | 3.4 | 97 |
| Bago | 2.3 | 1,131 | 2.8 | 423 |
| Magway | 2.7 | 1,009 | 2.8 | 286 |
| Mandalay | 2.2 | 1,508 | 2.9 | 587 |
| Mon | 2.7 | 363 | 3.3 | 157 |
| Rakhine | 3.1 | 633 | 3.9 | 218 |
| Yangon | 2.1 | 1,709 | 2.4 | 694 |
| Shan | 2.6 | 1,229 | 2.8 | 463 |
| Ayeyarwady | 2.4 | 1,615 | 2.0 | 607 |
| Nay Pyi Taw | 2.5 | 281 | 3.0 | 116 |
| Education ${ }^{2}$ |  |  |  |  |
| No education | 2.8 | 1,219 | 3.3 | 526 |
| Primary | 2.6 | 4,166 | 3.0 | 1,588 |
| Secondary | 2.4 | 5,489 | 2.6 | 2,038 |
| More than secondary | 2.3 | 1,001 | 2.4 | 326 |
| Wealth quintile |  |  |  |  |
| Lowest | 3.0 | 2,044 | 3.2 | 824 |
| Second | 2.7 | 2,230 | 3.0 | 853 |
| Middle | 2.5 | 2,440 | 2.8 | 936 |
| Fourth | 2.4 | 2,530 | 2.6 | 944 |
| Highest | 2.2 | 2,630 | 2.5 | 920 |
| Total | 2.5 | 11,874 | 2.8 | 4,477 |

${ }^{1}$ Number of women and men who gave a numeric response
${ }^{2}$ Total includes three women with missing information on education.

## Table 6.5 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, Myanmar 2015-16

|  | Planning status of birth |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | ---: |
| Birth order and <br> mother's age at birth | Wanted <br> then | Wanted <br> later | Wanted no <br> more | Total | Number of <br> births |
| Birth order |  |  |  |  |  |
| 1 | 95.6 | 3.5 | 1.0 | 100.0 | 1,664 |
| 2 | 92.6 | 4.6 | 2.7 | 10.0 | 1,237 |
| 3 | 88.5 | 4.6 | 6.9 | 100.0 | 764 |
| $4+$ | 85.3 | 3.1 | 11.6 | 100.0 | 1,086 |
| Mother's age at birth |  |  |  |  |  |
| $<20$ | 93.7 | 3.5 | 2.8 | 100.0 | 363 |
| $20-24$ | 92.1 | 6.0 | 1.9 | 100.0 | 1,118 |
| $25-29$ | 91.5 | 3.9 | 4.5 | 10.0 | 1,329 |
| $30-34$ | 9.0 | 3.4 | 4.6 | 100.0 | 1,060 |
| $35-39$ | 88.8 | 2.5 | 8.7 | 100.0 | 630 |
| $40-44$ | 86.8 | 0.2 | 12.9 | 100.0 | 239 |
| $45-49$ | $*$ | $*$ | $*$ | 100.0 | 12 |
| Total | 91.3 | 3.9 | 4.8 | 100.0 | 4,752 |

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

Table 6.6 Wanted fertility rates
Total wanted fertility rates and total fertility rates for the three years preceding the survey, by background characteristics, Myanmar DHS 2015-16

| Background <br> characteristic | Total wanted <br> fertility rates | Total fertility <br> rate |
| :--- | :---: | :---: |
| Residence |  |  |
| Urban | 1.7 | 1.9 |
| Rural | 2.1 | 2.4 |
| States/Regions |  |  |
| Kachin | 2.4 | 3.0 |
| Kayah | 3.1 | 3.3 |
| Kayin | 3.4 | 3.9 |
| Chin | 3.8 | 4.6 |
| Sagaing | 1.9 | 2.1 |
| Tanintharyi | 2.8 | 3.1 |
| Bago | 1.5 | 1.9 |
| Magway | 1.6 | 1.8 |
| Mandalay | 1.8 | 2.0 |
| Mon | 2.2 | 2.3 |
| Rakhine | 2.1 | 2.7 |
| Yangon | 1.5 | 1.8 |
| Shan | 2.5 | 3.0 |
| Ayeyarwady | 2.1 | 2.3 |
| Nay Pyi Taw | 1.8 | 2.0 |
| Education |  |  |
| No education | 2.9 | 3.6 |
| Primary | 2.2 | 2.6 |
| Secondary | 1.8 | 2.0 |
| More than secondary | 1.4 | 1.5 |
| Wealth quintile |  |  |
| Lowest | 2.9 | 3.5 |
| Second | 2.2 | 2.5 |
| Middle | 1.9 | 2.1 |
| Fourth | 1.7 | 1.9 |
| Highest | 1.4 | 1.6 |
| Total | 2.0 | 2.3 |

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

- Contraceptive use: Overall, $52 \%$ of currently married women use a method of family planning, with $51 \%$ using a modern method and $1 \%$ using a traditional method. Among modern methods, injectables are most commonly used ( $28 \%$ ), followed by the pill ( $14 \%$ ), female sterilization (5\%), and the IUD (3\%).
- Sources of modern methods: Over half of modern contraceptive users (54\%) receive their method from public sector sources-government hospitals, health centers, and clinics.
- Contraceptive discontinuation: Two out of every five times (39\%) that women began to use a contraceptive method in the 5 years before the survey discontinued the method within 12 months. The most common reason for discontinuing a method is the desire to become pregnant (34\%) followed by method-related health concerns or side effects (28\%).
- Unmet need for family planning: Sixteen percent of currently married women have an unmet need for family planning: they want to space or limit births but are not currently using contraception.
- Demand for family planning: Three-quarters of the total demand for family planning is satisfied by modern methods (75\%).

CTouples can use contraceptive methods to limit or space the number of children they have. This chapter presents information on the uses and sources of contraceptive methods, informed choice of methods, and rates and reasons for discontinuing contraceptives. It also examines the potential demand for family planning and how much contact nonusers have with family planning providers.

The benefits of family planning are not limited to promoting maternal or child health. Family planning can significantly enhance opportunities to attain higher socioeconomic status, education, employment, and empowerment, especially for girls and women. Myanmar committed in 2013 to the Family Planning 2020 (FP2020) global initiative. The goal is to reach more women with lifesaving family planning information and access to contraceptives by the year 2020 (Family Planning 2020, 2013).

### 7.1 Contraceptive Knowledge and Use

Knowledge of contraceptive methods is almost universal in Myanmar, with $97 \%$ of all women and $95 \%$ of all men knowing at least one method of contraception. On average, women have heard of seven methods and men have heard of six methods, with most having heard about modern methods (Table 7.1). The most commonly known method among women is injectables ( $95 \%$ ), followed by the pill ( $93 \%$ ), and female sterilization ( $84 \%$ ), while among men, it is the male condom ( $86 \%$ ), followed by injectables ( $85 \%$ ), and
the pill (84\%). Knowledge about emergency contraception is relatively poor, with only one in four women and men having heard about it.

For more information on contraceptive knowledge by method, see Table 7.1. For information about differentials in knowledge of any method and any modern method by background characteristics, see
Table 7.2.

## Contraceptive prevalence rate

Percentage who use any contraceptive method
Sample: Currently married women age 15-49

The contraceptive prevalence rate among currently married women age $15-49$ is $52 \%$, with almost all women using modern methods (51\%) (Table 7.3). This indicates that Myanmar is on track for meeting its commitment to Family Planning 2020, a global partnership for women on reproductive rights. In 2013 Myanmar announced it would increase modern contraceptive use from 41 percent to 50 percent by 2015 and to more than 60 percent by 2020 (Family Planning 2020, 2013).

## Modern methods

Include male and female sterilization, injectables, intrauterine devices (IUDs), contraceptive pills, implants, male condoms, and the lactational amenorrhea method (LAM)

Among married women, injectables are the most commonly used method ( $28 \%$ ), followed by the pill ( $14 \%$ ), female sterilization ( $5 \%$ ), and the IUD ( $3 \%$ )
(Figure 7.1). Modern contraceptive use peaks at $62 \%$ among currently married women age 35-39 (Table 7.3). More than half of currently married adolescents (women age 15-19) (53\%) use modern contraceptive methods.

## Patterns by background characteristics

- Modern contraceptive use is highest among married women with 1-2 living children (58\%) and generally declines as the number of living children goes up. (Table 7.4).
- Women in urban areas are somewhat more likely to use modern contraceptives than those in rural areas ( $57 \%$ versus $49 \%$ ).

Figure 7.1 Contraceptive use


- Contraceptive use increases substantially with education. Married women with secondary education or higher are more likely to use modern methods of contraception than those with no education (57-58\% versus 38\%) (Figure 7.2).
- There are big differences in contraceptive use among currently married women across states and regions. The use of modern contraception ranges from a low of $25 \%$ in Chin State to a high of $60 \%$ in Bago Region and Yangon Region
(Figure 7.3).

Figure 7.2 Use of modern methods by education

Percentage of currently married women age 15-49


Figure 7.3 Use of modern methods by states and regions


### 7.2 Timing of Female Sterilization

Given the importance of female sterilization as a means of preventing unwanted pregnancies among women in high risk groups, the family planning program targets timely intervention. As indicated earlier in Figure $7.1,5 \%$ of currently married women in Myanmar are sterilized. Table 7.5 shows information about age at female sterilization. The median age at sterilization for women is 33.1 years.

### 7.3 Source of Modern Contraceptive Methods

## Source of modern contraceptives

Place where the modern method currently being used was obtained the last time it was acquired
Sample: Women age 15-49 currently using a modern contraceptive method (excluding LAM)

More than half of modern contraceptive users receive their method from public (government) sector sources-hospitals, rural health centers (RHCs), subcenters, and mobile clinics (54\%). Three in ten women obtain their methods from sources in the private medical sector (29\%) (Table 7.6 and Figure 7.4).

Injectables: Around three-quarters of women obtain injectables from the public sector, mainly from government sub-centers and government rural health centers (RHCs) ( $37 \%$ and $14 \%$ ).

IUD and implant: While the predominant source for IUDs is the public sector ( $44 \%$ ), implants are most commonly provided by the non-governmental sector, that is, Marie Stopes International (45\%).

Figure 7.4 Source of modern contraceptive methods

Percent distribution of current users of modern methods by most recent source of method


Pills and male condoms: The private medical sector is the main source for nearly half of pill users (47\%) and male condom users (47\%).

### 7.4 Social Marketing Brands

In Myanmar, social marketing of contraceptives is being carried out by Population Services International and Marie Stopes International. Both organizations aim to respond to the needs, wants, and interests of the target population. They introduce contraceptives with brand names such as OK and Sure.

Table 7.7 highlights the finding that $40 \%$ of women use pills that are promoted through social marketing, while $84 \%$ of women who use male condoms use the Ahphaw brand (data not shown) ${ }^{1}$. Urban women, those with secondary or higher education, and those in the high wealth quintiles are most likely to use brands of pills promoted through social marketing.

### 7.5 Informed Choice

## Informed choice

Informed choice consists of women being informed at the time they started the current episode of method use about side effects of the method, what to do if they experience side effects, and other methods they could use.
Sample: Women age 15-49 who are currently using selected modern contraceptive methods and who started the most recent episode of use within the 5 years before the survey

[^9]Two in five women using a modern method of contraception were informed about the side effects or other problems they could face with the method they are using ( $40 \%$ ), and $31 \%$ were informed about what to do if they experienced side effects. About half of the women were informed of other methods they could use. Implant users were most likely to be informed about side effects or problems of the method (81\%), about what to do if they experienced side effects (70\%), and about other methods that could be used (78\%)
(Table 7.8).

### 7.6 Discontinuation of Contraceptives

## Contraceptive discontinuation rate

Percentage of contraceptive initiation episodes discontinued within 12 months
Sample: Episodes of contraceptive use initiated in the 5 years before the survey for women who are currently age 15-49

Two out of every five times (39\%) that women began to use a contraceptive method in the 5 years before the survey, they discontinued the method within 12 months. Discontinuation rates are high for pill (43\%) and injectable (42\%) use, the two most commonly used methods (Table 7.9).

Overall, the most common reason for discontinuing a method is the desire to become pregnant (34\%), followed by method-related health concerns or side effects ( $28 \%$ ), wanting more effective methods ( $10 \%$ ), and failure of the method and infrequent sex ( $8 \%$ each) (Table 7.10). Women are far more likely to cite health concerns and side effects as a reason for discontinuing IUDs (37\%) and injectables (35\%) than other methods.

## Knowledge of the Fertile Period

The survey also collected data on women and men's knowledge of the fertile period. Only $5 \%$ of women and men age $15-49$ know that a woman is most likely to conceive halfway between two periods (Table 7.11). Seventeen percent of men mentioned that the fertile period was during a woman's menstrual period. Overall, nearly half of women and men are not aware of the fertile period.

### 7.7 Demand for Family Planning

## Unmet need for family planning

Proportion of women who (1) are not pregnant and not postpartum amenorrheic and are considered fecund and want to postpone their next birth for 2 or more years or stop childbearing altogether but are not using a contraceptive method, or (2) have a mistimed or unwanted current pregnancy, or (3) are postpartum amenorrheic and their last birth in the last 2 years was mistimed or unwanted.
Sample: All women age 15-49 and currently married women age 15-49

## Demand for

Unmet need for family planning + current contraceptive use (any method)

Proportion of demand satisfied:

Current contraceptive use (any method)
Unmet need + current contraceptive use (any method)

## Proportion of

 demand satisfied Current contraceptive use (any modern method) by modern methods:Overall, $16 \%$ of married women in Myanmar have an unmet need for family planning, $5 \%$ for spacing births and $11 \%$ for limiting births, but are not currently using contraception (Figure 7.5). Fifty-two percent of married women have a met need, that is, they are currently using contraception. Thus, the total demand for family planning constitutes $69 \%$ of married women, of which three-quarters is satisfied by the use of modern methods (Table 7.12.1). All women are less likely than married women to be in need of family planning; only $10 \%$ of all women have an unmet need for family planning, compared with $16 \%$ for married women (Table 7.12.2).

Figure 7.5 Demand for family planning
Percent distribution of currently married women age 15-49 by need for family planning


## Patterns by background characteristics

- The proportion of married women with an unmet need for spacing births is highest at age 15-19 (14\%), while unmet need for limiting births is highest at age group 40-49 (21\%) (Table 7.12.1).
- Unmet need for family planning varies widely by states and regions, ranging from a high of $23 \%$ in Rakhine State and Chin State to a low of 12\% in Yangon Region and Nay Pyi Taw (Figure 7.6).
- Unmet need for family planning is three times higher among married women with no education (24\%) than among those with more than secondary education (8\%).


## Future Use of Contraception

The survey also collected information about nonusers' intent to use contraception. More than half of currently married women who are not using a contraceptive method said that they did not intend to use one in the future (57\%), with an even higher proportion among those who have four or more living children (71\%). Women with one living child are most likely to intend to use contraception in the future (Table 7.13).

## Exposure to Family Planning Messages in the Media

Figure 7.6 Unmet need for family planning by states and regions


Table 7.14.1 offers information on women's exposure to family planning messages in the media. Fifteen percent of women age 15-49 reported hearing a family planning message in the past few months on radio. Similarly, $25 \%$ of women heard a message on television, while $18 \%$ read a family planning message in a newspaper or magazine. Overall, $65 \%$ of women have no exposure to family planning messages in any of these three main mass media (radio, television, and newspaper/magazine).

There are other sources that play important roles in Myanmar for providing knowledge on family planning, of which, the Internet (30\%) and billboards (10\%) are prominent. Fifty-five percent of women are not exposed to family planning messages from any of these five sources (including media).

Table 7.14.2 offers similar information on men's exposure to family planning messages. Fourteen percent of men age $15-49$ reported hearing a family planning message in the past few months on radio, while a quarter of men reported seeing a message on television or in a newspaper or magazine ( $25 \%$ each ). Overall, men are more exposed to family planning messages than women.

### 7.8 Contact of Nonusers with Family Planning Providers

## Contact of nonusers with family planning providers

Respondent discussed family planning in the 12 months before the survey with auxiliary mid-wives (AMWs), community health workers (CHWs), and a community-based support group (CSG) members or during a visit to a health facility.
Sample: Women age 15-49 who are not currently using any contraceptive methods

In the survey, women were asked if they had discussed family planning with any of a variety of health workers. The vast majority of women who were not using a contraceptive method said they had discussed family planning with neither any auxiliary midwife, community health worker, community-based support group nor at a health facility in the 12 months before the survey ( $92 \%$ ) (Table 7.15). Among non-users, only $6 \%$ reported discussing family planning either with an auxiliary midwife, a community health worker, or a community-based support group, while only $3 \%$ discussed family planning at a health facility.

## LIST OF TABLES

For more information on family planning, see the following tables:

- Table 7.1 Knowledge of contraceptive methods
- Table 7.2 Knowledge of contraceptive methods by background characteristics
- Table 7.3 Current use of contraception by age
- Table 7.4 Current use of contraception by background characteristics
- Table 7.5 Timing of sterilization
- Table 7.6 Source of modern contraception methods
- Table 7.7 Use of social marketing brand pills
- Table 7.8 Informed choice
- Table 7.9 Twelve-month contraceptive discontinuation rates
- Table 7.10 Reasons for discontinuation
- Table 7.11 Knowledge of fertile period
- Table 7.12.1 Need and demand for family planning among currently married women
- Table 7.12.2 Need and demand for family planning for all women
- Table 7.13 Future use of contraception
- Table 7.14.1 Exposure to family planning messages: Women
- Table 7.14.2 Exposure to family planning messages: Men
- Table 7.15 Contact of nonusers with family planning providers

Table 7.1 Knowledge of contraceptive methods
Percentage of all respondents and currently married respondents age 15-49 who know any contraceptive method, by specific method, Myanmar DHS 2015-16

| Method | Women |  | Men |  |
| :---: | :---: | :---: | :---: | :---: |
|  | All women | Currently married women | All men | Currently married men |
| Any method | 96.7 | 98.5 | 94.9 | 96.9 |
| Any modern method | 96.6 | 98.4 | 94.7 | 96.6 |
| Female sterilization | 84.4 | 88.8 | 72.9 | 80.0 |
| Male sterilization | 50.7 | 60.2 | 41.5 | 51.1 |
| Pill | 93.0 | 96.1 | 83.6 | 88.7 |
| IUD | 70.5 | 80.1 | 46.3 | 56.0 |
| Injectables | 94.6 | 97.7 | 85.4 | 91.6 |
| Implants | 61.1 | 70.3 | 31.0 | 36.6 |
| Male condom | 73.0 | 76.8 | 85.5 | 86.8 |
| Female condom | 28.4 | 31.0 | 30.4 | 33.1 |
| Lactational amenorrhea method (LAM) | 36.5 | 43.9 | 20.1 | 22.9 |
| Emergency contraception | 25.4 | 28.7 | 25.7 | 27.0 |
| Other modern method | 1.3 | 1.8 | 2.1 | 2.5 |
| Any traditional method | 46.7 | 58.8 | 66.3 | 75.0 |
| Rhythm | 39.7 | 50.3 | 49.5 | 60.0 |
| Withdrawal | 33.9 | 45.0 | 57.6 | 64.7 |
| Other | 0.0 | 0.0 | 0.1 | 0.1 |
| Mean number of methods known by respondents 15-49 | 6.9 | 7.7 | 6.3 | 7.0 |
| Number of respondents | 12,885 | 7,759 | 4,737 | 2,957 |

Table 7.2 Knowledge of contraceptive methods by background characteristics
Percentage of currently married women and currently married men 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, Myanmar DHS 2015-16

| Background characteristic | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Heard of any method | Heard of any modern method ${ }^{1}$ | Number | Heard of any method | Heard of any modern method ${ }^{1}$ | Number |
| Residence |  |  |  |  |  |  |
| Urban | 99.8 | 99.7 | 2,022 | 99.0 | 99.0 | 767 |
| Rural | 98.0 | 98.0 | 5,737 | 96.2 | 95.7 | 2,190 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 99.3 | 99.3 | 238 | 97.7 | 97.7 | 93 |
| Kayah | 99.8 | 99.8 | 40 | 98.3 | 98.3 | 15 |
| Kayin | 98.0 | 98.0 | 201 | 96.6 | 96.6 | 70 |
| Chin | 87.5 | 86.7 | 66 | 96.1 | 95.0 | 24 |
| Sagaing | 98.6 | 98.6 | 828 | 97.4 | 97.0 | 308 |
| Tanintharyi | 99.8 | 99.8 | 174 | 98.8 | 98.8 | 57 |
| Bago | 99.9 | 99.9 | 780 | 99.7 | 99.7 | 309 |
| Magway | 99.6 | 99.4 | 642 | 96.1 | 96.1 | 215 |
| Mandalay | 99.6 | 99.6 | 838 | 98.3 | 97.4 | 358 |
| Mon | 99.6 | 99.6 | 278 | 95.8 | 95.1 | 82 |
| Rakhine | 93.7 | 93.7 | 454 | 94.5 | 94.5 | 139 |
| Yangon | 100.0 | 100.0 | 1,042 | 99.6 | 99.6 | 413 |
| Shan | 94.0 | 93.8 | 901 | 88.9 | 87.8 | 371 |
| Ayeyarwady | 100.0 | 100.0 | 1,083 | 99.1 | 99.1 | 419 |
| Nay Pyi Taw | 99.2 | 99.2 | 195 | 96.3 | 95.8 | 81 |
| Education ${ }^{2}$ |  |  |  |  |  |  |
| No education | 92.9 | 92.8 | 1,193 | 87.5 | 85.4 | 430 |
| Primary | 99.2 | 99.1 | 3,656 | 97.9 | 97.8 | 1,260 |
| Secondary | 99.9 | 99.8 | 2,285 | 99.0 | 99.0 | 1,085 |
| More than secondary | 100.0 | 100.0 | 621 | 100.0 | 100.0 | 181 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 96.6 | 96.5 | 1,622 | 94.2 | 93.8 | 627 |
| Second | 98.1 | 98.0 | 1,586 | 96.0 | 95.6 | 605 |
| Middle | 98.8 | 98.8 | 1,556 | 97.9 | 97.3 | 603 |
| Fourth | 99.5 | 99.5 | 1,509 | 97.9 | 97.6 | 590 |
| Highest | 99.7 | 99.5 | 1,487 | 99.1 | 99.1 | 531 |
| Total | 98.5 | 98.4 | 7,759 | 96.9 | 96.6 | 2,957 |

${ }^{1}$ Female sterilization, male sterilization, pill, IUD, injectables, implants, male condom, female condom,
lactational amenorrhea method (LAM), emergency contraception, and other modern methods
${ }^{2}$ Total includes three women with information missing on education
Table 7.3 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, Myanmar DHS 2015-16

| Age | Any method | Any modern method | Modern method |  |  |  |  |  |  |  | Any traditional method | Traditional method |  |  | Notcurrentlyusing | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Female sterilization | Male sterilization | Pill | IUD | Injectables | Implants | Male condom | Other ${ }^{1}$ |  | Rhythm | Withdrawal | Other |  |  |  |
| ALL WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 6.8 | 6.7 | 0.0 | 0.0 | 1.8 | 0.1 | 4.8 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 93.2 | 100.0 | 1,810 |
| 20-24 | 26.7 | 26.7 | 0.2 | 0.0 | 9.9 | 0.5 | 15.6 | 0.3 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 73.3 | 100.0 | 1,867 |
| 25-29 | 39.9 | 39.3 | 0.8 | 0.0 | 11.8 | 2.0 | 23.1 | 0.8 | 0.7 | 0.0 | 0.6 | 0.2 | 0.3 | 0.1 | 60.1 | 100.0 | 1,867 |
| 30-34 | 42.8 | 42.3 | 2.2 | 0.0 | 11.1 | 2.6 | 24.2 | 1.1 | 1.1 | 0.0 | 0.5 | 0.2 | 0.3 | 0.0 | 57.2 | 100.0 | 2,037 |
| 35-39 | 48.2 | 47.2 | 4.9 | 0.1 | 11.6 | 3.2 | 25.1 | 1.1 | 1.0 | 0.2 | 1.0 | 0.3 | 0.7 | 0.0 | 51.8 | 100.0 | 1,954 |
| 40-44 | 35.6 | 34.7 | 7.3 | 0.4 | 7.7 | 2.2 | 16.1 | 0.4 | 0.7 | 0.0 | 1.0 | 0.4 | 0.6 | 0.0 | 64.4 | 100.0 | 1,733 |
| 45-49 | 17.3 | 16.3 | 5.8 | 0.7 | 3.1 | 1.3 | 4.6 | 0.0 | 0.7 | 0.0 | 1.0 | 0.3 | 0.4 | 0.2 | 82.7 | 100.0 | 1,617 |
| Total | 31.6 | 31.1 | 2.9 | 0.2 | 8.3 | 1.7 | 16.7 | 0.6 | 0.6 | 0.0 | 0.6 | 0.2 | 0.3 | 0.0 | 68.4 | 100.0 | 12,885 |
| CURRENTLY MARRIED WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 54.0 | 53.2 | 0.0 | 0.0 | 14.2 | 0.5 | 38.5 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.8 | 0.0 | 46.0 | 100.0 | 227 |
| 20-24 | 59.5 | 59.3 | 0.4 | 0.0 | 22.0 | 1.0 | 34.7 | 0.8 | 0.3 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 40.5 | 100.0 | 834 |
| 25-29 | 58.7 | 57.9 | 1.2 | 0.0 | 17.4 | 3.0 | 34.1 | 1.1 | 0.9 | 0.0 | 0.8 | 0.3 | 0.4 | 0.1 | 41.3 | 100.0 | 1,258 |
| 30-34 | 57.8 | 57.1 | 2.9 | 0.0 | 15.0 | 3.5 | 32.8 | 1.5 | 1.4 | 0.0 | 0.7 | 0.2 | 0.4 | 0.0 | 42.2 | 100.0 | 1,505 |
| 35-39 | 63.1 | 61.8 | 6.2 | 0.1 | 15.3 | 4.2 | 33.0 | 1.3 | 1.4 | 0.2 | 1.3 | 0.4 | 0.9 | 0.0 | 36.9 | 100.0 | 1,482 |
| 40-44 | 47.9 | 46.6 | 9.7 | 0.5 | 10.5 | 2.8 | 21.8 | 0.5 | 0.9 | 0.0 | 1.3 | 0.5 | 0.8 | 0.0 | 52.1 | 100.0 | 1,283 |
| 45-49 | 23.7 | 22.3 | 7.9 | 1.0 | 4.3 | 1.8 | 6.4 | 0.0 | 1.0 | 0.0 | 1.3 | 0.4 | 0.6 | 0.3 | 76.3 | 100.0 | 1,169 |
| Total | 52.2 | 51.3 | 4.8 | 0.3 | 13.8 | 2.8 | 27.6 | 0.9 | 1.0 | 0.0 | 1.0 | 0.3 | 0.6 | 0.1 | 47.8 | 100.0 | 7,759 |

[^10]Table 7.5 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, Myanmar DHS 2015-16

| Years since <br> operation | $<25$ | $25-29$ | $30-34$ | $35-39$ | $40-44$ | $45-49$ |  |  | Number of <br> Tome |  |  | Median <br> age $^{1}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $<2$ | 2.6 | 10.4 | 29.9 | 41.1 | 16.1 | 0.0 | 100.0 | 64 | 34.9 |  |  |
| $2-3$ | 5.0 | 12.2 | 42.8 | 27.1 | 12.7 | 0.2 | 100.0 | 69 | 33.2 |  |  |  |
| $4-5$ | 6.3 | 18.4 | 24.6 | 42.6 | 8.1 | 0.0 | 100.0 | 51 | 33.9 |  |  |  |
| $6-7$ | 3.6 | 7.1 | 48.1 | 38.0 | 3.2 | 0.0 | 100.0 | 49 | 34.5 |  |  |  |
| $8-9$ | $(8.1)$ | $(29.3)$ | $(26.5)$ | $(34.9)$ | $(1.3)$ | $(0.0)$ | 100.0 | 41 | $(32.7)$ |  |  |  |
| $10+$ | 10.2 | 28.7 | 45.4 | 15.7 | 0.0 | 0.0 | 100.0 | 107 | a |  |  |  |
| Total | 6.4 | 18.5 | 37.9 | 30.5 | 6.6 | 0.0 | 100.0 | 380 | 33.1 |  |  |  |

Note: Figures in parentheses are based on 25-49 unweighted cases.
a = Not calculated due to censoring
${ }^{1}$ Median age at sterilization is calculated only for women sterilized before age 40 to avoid problems of censoring.

## Table 7.6 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, Myanmar DHS 2015-16

| Source | Female sterilization | Pill | IUD | Injectables | Implants | Male condom | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Public sector | 76.0 | 13.8 | 44.1 | 73.9 | 32.4 | 9.8 | 54.2 |
| Government hospital | 75.2 | 2.2 | 21.6 | 9.8 | 16.7 | 3.7 | 14.8 |
| Government rural health center (RHC) | 0.8 | 2.9 | 4.1 | 14.3 | 10.3 | 1.1 | 9.1 |
| Government health post (sub-center) | 0.0 | 7.2 | 12.0 | 37.1 | 2.8 | 5.0 | 22.7 |
| Community health worker/auxiliary midwives | 0.0 | 1.1 | 0.6 | 9.9 | 0.0 | 0.0 | 5.6 |
| Mobile clinic | 0.0 | 0.1 | 1.1 | 0.2 | 2.5 | 0.0 | 0.3 |
| UHC/MCH center | 0.0 | 0.3 | 4.8 | 2.6 | 0.0 | 0.0 | 1.8 |
| Nongovernmental sector | 0.0 | 0.2 | 22.8 | 0.8 | 47.2 | 7.0 | 2.8 |
| Marie Stopes | 0.0 | 0.1 | 19.3 | 0.4 | 45.0 | 0.0 | 2.1 |
| Other | 0.0 | 0.1 | 3.4 | 0.4 | 2.2 | 7.0 | 0.6 |
| Private medical sector | 23.4 | 47.3 | 33.1 | 19.8 | 20.5 | 46.7 | 28.9 |
| Private hospital/clinic | 23.2 | 2.8 | 30.6 | 16.2 | 17.8 | 7.3 | 14.0 |
| Pharmacy | 0.0 | 43.9 | 0.0 | 1.5 | 0.0 | 37.3 | 13.3 |
| Private doctor | 0.3 | 0.3 | 1.7 | 1.1 | 0.0 | 2.0 | 0.8 |
| Other | 0.0 | 0.3 | 0.9 | 1.1 | 2.6 | 0.0 | 0.8 |
| Other source | 0.0 | 38.5 | 0.0 | 2.5 | 0.0 | 36.5 | 12.4 |
| Shop | 0.0 | 38.1 | 0.0 | 1.6 | 0.0 | 36.0 | 11.8 |
| Friend/relative | 0.0 | 0.4 | 0.0 | 0.9 | 0.0 | 0.5 | 0.6 |
| Other | 0.1 | 0.1 | 0.0 | 2.9 | 0.0 | 0.0 | 1.6 |
| Don't know | 0.4 | 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 |
| Number of women | 380 | 1,074 | 222 | 2,148 | 73 | 81 | 3,996 |

Note: Total includes 20 women whose husbands are sterilized and are not shown separately due to few cases but excludes women using the lactational amenorrhea method (LAM).
RHC = Rural Health Center; UHC= Urban Health Center; MCH = Maternal and Child Health

Table 7.7 Use of social marketing brand pills
Percentage of pill users age 15-49 using a social marketing brand, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Among pill users |  |
| :---: | :---: | :---: |
|  | Percentage using brand OK Pills and brand Sure | Number of women using the pill |
| Age |  |  |
| 15-19 | (34.0) | 32 |
| 20-24 | 46.5 | 185 |
| 25-29 | 43.6 | 220 |
| 30-34 | 37.4 | 225 |
| 35-39 | 38.4 | 227 |
| 40-44 | 28.7 | 134 |
| 45-49 | (41.7) | 51 |
| Residence |  |  |
| Urban | 49.3 | 366 |
| Rural | 34.4 | 708 |
| States/Regions |  |  |
| Kachin | 60.5 | 36 |
| Kayah | (23.9) | 4 |
| Kayin | 30.1 | 29 |
| Chin | (10.8) | 4 |
| Sagaing | 41.7 | 78 |
| Tanintharyi | (30.5) | 19 |
| Bago | 41.5 | 123 |
| Magway | 32.7 | 57 |
| Mandalay | 42.3 | 99 |
| Mon | 34.0 | 40 |
| Rakhine | 25.4 | 61 |
| Yangon | 50.4 | 222 |
| Shan | (51.7) | 86 |
| Ayeyarwady | 23.8 | 194 |
| Nay Pyi Taw | 47.7 | 21 |
| Education |  |  |
| No education | 26.7 | 108 |
| Primary | 30.8 | 476 |
| Secondary | 51.4 | 390 |
| More than secondary | 47.9 | 99 |
| Wealth quintile |  |  |
| Lowest | 22.0 | 189 |
| Second | 29.5 | 210 |
| Middle | 39.7 | 190 |
| Fourth | 48.4 | 237 |
| Highest | 52.4 | 247 |
| Total | 39.5 | 1,074 |

Note: Table excludes pill users who do not know the brand name. Figures in parentheses are based on 25-49 unweighted cases.

## Table 7.8 Informed choice

Among current users of modern methods age 15-49 who started the last episode of use within the 5 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, Myanmar DHS 2015-16

| Method/source | Among women who started their last episode of modern contraceptive method use within 5 years preceding the survey: |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Percentage who were informed about side effects or problems of method used | Percentage who were informed about what to do if experienced side effects | Percentage who were informed by a health or family planning worker of other methods that could be used | Number of women |
| Method |  |  |  |  |
| Female sterilization | 56.3 | 44.3 | 55.7 | 160 |
| Pill | 26.7 | 17.3 | 42.1 | 856 |
| IUD | 75.3 | 64.3 | 75.8 | 153 |
| Injectables | 40.2 | 31.6 | 49.2 | 1,748 |
| Implants | 81.4 | 70.3 | 78.1 | 71 |
| Initial source of method ${ }^{1}$ |  |  |  |  |
| Public sector | 45.6 | 37.4 | 53.5 | 1,642 |
| Government hospital | 52.8 | 43.2 | 57.9 | 401 |
| Government rural health center (RHC) | 41.6 | 36.6 | 51.1 | 281 |
| Government health post (sub-center) | 46.0 | 37.9 | 54.9 | 739 |
| Village health worker | 27.7 | 20.4 | 37.0 | 152 |
| Mobile clinic | * | * | * | 9 |
| UHC/MCH center | (55.8) | (41.8) | (60.8) | 58 |
| Nongovernmental sector | 87.5 | 82.0 | 84.1 | 82 |
| Marie Stopes | 87.5 | 82.0 | 84.1 | 82 |
| Private medical sector | 35.6 | 23.6 | 49.1 | 799 |
| Private hospital/clinic | 48.6 | 32.8 | 58.3 | 401 |
| Pharmacy | 22.0 | 13.9 | 39.1 | 366 |
| Private doctor | * | * | * | 22 |
| Other | * | * | * | 11 |
| Other source | 17.1 | 8.3 | 30.5 | 393 |
| Shop | 14.7 | 7.6 | 27.7 | 298 |
| Friend/relative | 24.5 | 10.4 | 39.6 | 94 |
| Other | 27.3 | 23.6 | 26.3 | 62 |
| Total | 40.0 | 30.8 | 49.6 | 2,989 |

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
${ }^{1}$ Source at start of current episode of use; total includes sources with too few users to show separately and one case missing on source of method.
RHC = Rural Health Center; UHC= Urban Health Center; MCH = Maternal and Child Health

Table 7.9 Twelve-month contraceptive discontinuation rates
Among women age 15-49 who started an episode of contraceptive use within the 5 years preceding the survey, the percentage of episodes discontinued within 12 months, by reason for discontinuation and specific method, Myanmar DHS 2015-16

|  | Method <br> failure | Desire to <br> become <br> pregnant | Other <br> fertility- <br> related <br> reasons $^{2}$ | Side <br> effects/ <br> health <br> concerns | Wanted <br> more <br> effective <br> method | Other <br> method- <br> related <br> reasons $^{3}$ | Other <br> reasons | Any <br> reason | Switched to <br> another <br> method $^{5}$ | Number of <br> episodes of <br> use |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pill | 5.4 | 14.3 | 7.3 | 7.9 | 5.6 | 2.3 | 0.3 | 43.0 | 10.4 | 2,015 |
| IUD | $(1.0)$ | $(0.0)$ | $(0.9)$ | $(3.3)$ | $(0.0)$ | $(1.1)$ | $(0.8)$ | $(7.1)$ | $(4.4)$ | 203 |
| Injectables | 1.0 | 9.7 | 4.2 | 16.2 | 4.7 | 2.7 | 3.0 | 41.5 | 11.6 | 3,674 |
| Other $^{1}$ | 1.1 | 2.8 | 1.6 | 2.4 | 4.6 | 1.9 | 0.6 | 15.0 | 9.1 | 452 |
| All methods | 2.4 | 10.4 | 4.9 | 12.1 | 4.8 | 2.5 | 1.9 | 39.1 | 10.8 | 6,344 |

Note: Figures are based on life table calculations using information on episodes of use that began 3-62 months preceding the survey. Figures in parentheses are based on 125-249 women exposed to method use.
${ }^{1}$ Includes female sterilization, implants, rhythm, and withdrawal
${ }^{2}$ Includes infrequent sex/husband away, difficult to get pregnant/menopausal, and marital dissolution/separation
${ }^{3}$ Includes lack of access/too far, costs too much, and inconvenient to use
${ }^{4}$ Reasons for discontinuation are mutually exclusive and add to the total given in this column.
${ }^{5}$ The episodes of use included in this column are a subset of the discontinued episodes included in the discontinuation rate. A woman is considered to have switched to another method if she used a different method in the month following discontinuation or if she gave "wanted a more effective method" as the reason for discontinuation and started another method within 2 months of discontinuation.
${ }^{6}$ All episodes of use that occur within the 5 years preceding the survey are included. Episodes of use include episodes that were discontinued during the period of observation and episodes of use that were not discontinued during the period of observation.

Table 7.10 Reasons for discontinuation
Percent distribution of discontinuations of contraceptive methods in the 5 years preceding the survey by main reason stated for discontinuation, according to specific method, Myanmar 2015-16

| Reason | Pill | IUD | Injectables | Male condom | Other ${ }^{1}$ | $\begin{gathered} \text { All } \\ \text { methods } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Became pregnant while using | 14.0 | 6.8 | 4.2 | 9.6 | 17.8 | 8.1 |
| Wanted to become pregnant | 39.8 | 32.6 | 30.5 | 25.9 | 26.1 | 33.7 |
| Husband disapproved | 0.1 | 1.7 | 0.1 | 4.6 | 0.9 | 0.2 |
| Wanted a more effective method | 10.4 | 9.2 | 10.0 | 15.2 | 19.7 | 10.4 |
| Health concerns/side effects | 17.1 | 37.4 | 35.4 | 7.1 | 15.3 | 28.2 |
| Lack of access/too far | 0.9 | 0.0 | 1.3 | 0.1 | 0.0 | 1.1 |
| Cost too much | 0.3 | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 |
| Inconvenient to use | 2.9 | 6.0 | 3.4 | 13.7 | 4.1 | 3.4 |
| Up to God/fatalistic | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 |
| Difficult to get pregnant/menopausal | 1.5 | 0.1 | 1.8 | 1.2 | 0.7 | 1.7 |
| Infrequent sex/husband away | 10.6 | 2.9 | 5.8 | 17.1 | 9.4 | 7.7 |
| Marital dissolution/separation | 1.1 | 1.4 | 2.0 | 0.0 | 0.4 | 1.6 |
| Other | 0.9 | 1.9 | 4.9 | 5.5 | 5.6 | 3.4 |
| Don't know | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 |
| Missing | 0.1 | 0.1 | 0.2 | 0.0 | 0.1 | 0.2 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of discontinuations | 1,720 | 109 | 2,874 | 66 | 96 | 4,865 |

[^11]Table 7.11 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, Myanmar DHS 2015-16

| Perceived fertile period | All women | All men |
| :--- | ---: | ---: |
| Just before her menstrual period begins | 3.1 | 2.9 |
| During her menstrual period | 7.9 | 16.9 |
| Right after her menstrual period has ended | 14.1 | 12.2 |
| Halfway between two menstrual periods | 5.1 | 4.6 |
| Other | 0.1 | 0.2 |
| No specific time | 23.6 | 15.5 |
| Don't know | 46.1 | 47.8 |
| Total | 100.0 | 100.0 |
| Number | 12,885 | 4,737 |

Table 7.12.1 Need and demand for family planning among currently married women
Percentage of currently married women age 15-49 with unmet need for family planning, the 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, Myanmar DHS 2015-16

| Background characteristic | Unmet need for family planning |  |  | Met need for family planning (currently using) |  |  | Total demand for family planning ${ }^{1}$ |  |  | Percentage of demand satisfied ${ }^{2}$ | Percentage of demand satisfied by modern methods $^{3}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | For spacing | For limiting | Total | For spacing | For limiting | Total | For spacing | For limiting | Total |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 14.0 | 4.9 | 18.9 | 42.9 | 11.1 | 54.0 | 56.9 | 16.0 | 72.9 | 74.1 | 73.0 | 227 |
| 20-24 | 9.8 | 3.7 | 13.5 | 41.1 | 18.4 | 59.5 | 50.9 | 22.1 | 73.0 | 81.5 | 81.3 | 834 |
| 25-29 | 8.0 | 5.5 | 13.6 | 34.5 | 24.1 | 58.7 | 42.5 | 29.7 | 72.2 | 81.2 | 80.1 | 1,258 |
| 30-34 | 6.8 | 7.9 | 14.7 | 20.3 | 37.5 | 57.8 | 27.1 | 45.4 | 72.5 | 79.7 | 78.7 | 1,505 |
| 35-39 | 2.6 | 11.0 | 13.6 | 10.5 | 52.6 | 63.1 | 13.1 | 63.6 | 76.7 | 82.3 | 80.6 | 1,482 |
| 40-44 | 1.0 | 19.6 | 20.6 | 2.0 | 45.9 | 47.9 | 3.0 | 65.5 | 68.5 | 70.0 | 68.1 | 1,283 |
| 45-49 | 0.4 | 20.7 | 21.2 | 0.3 | 23.3 | 23.7 | 0.8 | 44.1 | 44.8 | 52.8 | 49.8 | 1,169 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 3.2 | 9.6 | 12.8 | 18.1 | 41.6 | 59.6 | 21.3 | 51.1 | 72.4 | 82.3 | 79.2 | 2,022 |
| Rural | 5.3 | 12.1 | 17.4 | 17.4 | 32.2 | 49.6 | 22.8 | 44.3 | 67.1 | 74.0 | 73.2 | 5,737 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |  |  |
| Kachin | 4.6 | 13.3 | 17.9 | 15.3 | 28.2 | 43.5 | 19.9 | 41.5 | 61.4 | 70.9 | 67.8 | 238 |
| Kayah | 6.1 | 9.2 | 15.3 | 16.7 | 37.8 | 54.5 | 22.8 | 46.9 | 69.8 | 78.1 | 72.6 | 40 |
| Kayin | 8.4 | 13.1 | 21.5 | 13.8 | 26.7 | 40.5 | 22.2 | 39.8 | 62.0 | 65.3 | 63.7 | 201 |
| Chin | 9.5 | 13.8 | 23.3 | 8.2 | 17.2 | 25.4 | 17.7 | 31.0 | 48.7 | 52.2 | 51.7 | 66 |
| Sagaing | 5.5 | 9.8 | 15.3 | 17.2 | 34.0 | 51.2 | 22.7 | 43.8 | 66.5 | 77.0 | 76.7 | 828 |
| Tanintharyi | 7.8 | 12.7 | 20.5 | 18.5 | 25.5 | 44.0 | 26.3 | 38.2 | 64.5 | 68.2 | 67.1 | 174 |
| Bago | 1.6 | 12.1 | 13.7 | 19.7 | 41.0 | 60.7 | 21.3 | 53.0 | 74.4 | 81.6 | 80.9 | 780 |
| Magway | 8.3 | 14.0 | 22.3 | 15.3 | 32.0 | 47.3 | 23.6 | 46.0 | 69.6 | 68.0 | 65.3 | 642 |
| Mandalay | 3.5 | 9.4 | 12.9 | 23.5 | 32.2 | 55.7 | 27.0 | 41.6 | 68.6 | 81.2 | 80.7 | 838 |
| Mon | 5.0 | 12.3 | 17.2 | 13.7 | 31.3 | 45.0 | 18.6 | 43.6 | 62.2 | 72.3 | 71.7 | 278 |
| Rakhine | 9.0 | 14.0 | 23.0 | 17.6 | 19.5 | 37.1 | 26.6 | 33.5 | 60.1 | 61.7 | 61.4 | 454 |
| Yangon | 2.4 | 9.5 | 11.9 | 19.1 | 43.6 | 62.7 | 21.4 | 53.1 | 74.5 | 84.1 | 80.8 | 1,042 |
| Shan | 6.9 | 13.8 | 20.7 | 11.1 | 35.9 | 47.0 | 18.0 | 49.7 | 67.7 | 69.4 | 68.1 | 901 |
| Ayeyarwady | 3.1 | 10.5 | 13.6 | 19.0 | 36.6 | 55.6 | 22.1 | 47.1 | 69.2 | 80.3 | 80.1 | 1,083 |
| Nay Pyi Taw | 3.4 | 8.4 | 11.8 | 21.9 | 36.7 | 58.6 | 25.3 | 45.1 | 70.4 | 83.3 | 77.8 | 195 |
| Education ${ }^{4}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 5.9 | 18.1 | 24.0 | 9.4 | 28.8 | 38.2 | 15.2 | 47.0 | 62.2 | 61.4 | 60.4 | 1,193 |
| Primary | 4.2 | 12.3 | 16.5 | 15.5 | 35.6 | 51.1 | 19.7 | 47.9 | 67.6 | 75.6 | 74.8 | 3,656 |
| Secondary | 5.2 | 8.6 | 13.8 | 23.8 | 35.2 | 59.0 | 29.1 | 43.8 | 72.8 | 81.0 | 79.6 | 2,285 |
| More than secondary | 4.4 | 4.0 | 8.4 | 22.9 | 38.3 | 61.3 | 27.4 | 42.3 | 69.7 | 87.9 | 82.1 | 621 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 6.0 | 13.9 | 19.9 | 17.0 | 29.9 | 46.8 | 23.0 | 43.8 | 66.8 | 70.1 | 69.3 | 1,622 |
| Second | 4.9 | 11.7 | 16.5 | 17.4 | 33.1 | 50.5 | 22.3 | 44.8 | 67.0 | 75.3 | 74.9 | 1,586 |
| Middle | 5.1 | 11.1 | 16.2 | 17.7 | 32.5 | 50.2 | 22.8 | 43.7 | 66.4 | 75.6 | 74.9 | 1,556 |
| Fourth | 4.7 | 10.8 | 15.5 | 18.3 | 37.4 | 55.7 | 23.0 | 48.2 | 71.2 | 78.2 | 76.8 | 1,509 |
| Highest | 3.2 | 9.4 | 12.6 | 17.6 | 41.0 | 58.6 | 20.9 | 50.4 | 71.2 | 82.3 | 78.5 | 1,487 |
| Total | 4.8 | 11.4 | 16.2 | 17.6 | 34.7 | 52.2 | 22.4 | 46.1 | 68.5 | 76.3 | 74.9 | 7,759 |

Note: Numbers in this table correspond to the revised definition of unmet need described in Bradley et al. 2012.
${ }^{1}$ Total demand is the sum of unmet need and met need.
${ }^{2}$ Percentage of demand satisfied is met need divided by total demand.
${ }^{3}$ Modern methods include female sterilization, male sterilization, pill, IUD, injectables, implants, male condom, and lactational amenorrhea method (LAM).
${ }^{4}$ Total includes three women with missing information on education.

Table 7.12.2 Need and demand for family planning for all women
Percentage of all women age $15-49$ with unmet need for family planning, percentage with met need for family planning, total demand for family planning, and percentage of the demand for contraception that is satisfied, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | $\underline{\text { Unmet need for family planning }}$ |  |  | Met need for family planning (currently using) |  |  | Total demand for family planning ${ }^{1}$ |  |  | Percentage of demand satisfied ${ }^{2}$ | Percentage of demand satisfied by modern methods ${ }^{3}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | For spacing | For limiting | Total | For spacing | For limiting | Total | For spacing | For limiting | Total |  |  |  |
| ALL WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 1.8 | 0.6 | 2.4 | 5.4 | 1.4 | 6.8 | 7.1 | 2.0 | 9.2 | 73.9 | 72.8 | 1,810 |
| 20-24 | 4.4 | 1.7 | 6.1 | 18.4 | 8.3 | 26.7 | 22.8 | 10.0 | 32.8 | 81.4 | 81.2 | 1,867 |
| 25-29 | 5.5 | 3.7 | 9.2 | 23.5 | 16.4 | 39.9 | 28.9 | 20.2 | 49.1 | 81.2 | 80.1 | 1,867 |
| 30-34 | 5.0 | 6.0 | 11.0 | 15.0 | 27.7 | 42.8 | 20.0 | 33.7 | 53.8 | 79.5 | 78.6 | 2,037 |
| 35-39 | 2.0 | 8.3 | 10.3 | 7.9 | 40.3 | 48.2 | 9.9 | 48.6 | 58.5 | 82.4 | 80.7 | 1,954 |
| 40-44 | 0.8 | 14.5 | 15.4 | 1.5 | 34.2 | 35.6 | 2.3 | 48.7 | 51.0 | 69.9 | 68.0 | 1,733 |
| 45-49 | 0.3 | 15.0 | 15.3 | 0.3 | 17.0 | 17.3 | 0.6 | 32.0 | 32.6 | 53.0 | 50.1 | 1,617 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 1.7 | 5.1 | 6.9 | 9.8 | 22.5 | 32.3 | 11.5 | 27.7 | 39.2 | 82.4 | 79.3 | 3,768 |
| Rural | 3.4 | 7.7 | 11.1 | 11.0 | 20.4 | 31.4 | 14.4 | 28.0 | 42.4 | 73.9 | 73.2 | 9,117 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |  |  |
| Kachin | 2.9 | 8.7 | 11.6 | 9.9 | 18.1 | 28.0 | 12.8 | 26.8 | 39.6 | 70.7 | 67.7 | 374 |
| Kayah | 3.8 | 5.7 | 9.4 | 10.3 | 23.6 | 34.0 | 14.1 | 29.3 | 43.4 | 78.2 | 72.7 | 65 |
| Kayin | 5.6 | 8.7 | 14.3 | 9.1 | 18.1 | 27.2 | 14.7 | 26.8 | 41.5 | 65.6 | 64.0 | 303 |
| Chin | 6.2 | 8.9 | 15.2 | 5.4 | 11.1 | 16.5 | 11.7 | 20.0 | 31.7 | 52.1 | 51.7 | 102 |
| Sagaing | 3.2 | 5.8 | 9.0 | 10.1 | 20.0 | 30.1 | 13.3 | 25.8 | 39.1 | 77.0 | 76.8 | 1,410 |
| Tanintharyi | 4.8 | 7.8 | 12.6 | 11.5 | 15.8 | 27.4 | 16.3 | 23.7 | 40.0 | 68.4 | 67.4 | 283 |
| Bago | 1.0 | 7.6 | 8.6 | 12.4 | 25.7 | 38.0 | 13.4 | 33.3 | 46.6 | 81.6 | 80.9 | 1,244 |
| Magway | 4.9 | 8.3 | 13.2 | 9.1 | 19.0 | 28.1 | 14.0 | 27.3 | 41.3 | 68.0 | 65.3 | 1,081 |
| Mandalay | 1.9 | 5.2 | 7.1 | 12.8 | 17.7 | 30.5 | 14.7 | 22.9 | 37.6 | 81.1 | 80.6 | 1,541 |
| Mon | 3.0 | 7.4 | 10.4 | 8.2 | 19.0 | 27.2 | 11.2 | 26.3 | 37.5 | 72.4 | 71.8 | 463 |
| Rakhine | 5.2 | 8.4 | 13.7 | 10.4 | 11.6 | 22.0 | 15.7 | 20.0 | 35.7 | 61.7 | 61.4 | 777 |
| Yangon | 1.3 | 5.1 | 6.4 | 10.3 | 23.7 | 34.0 | 11.6 | 28.8 | 40.4 | 84.1 | 80.8 | 1,927 |
| Shan | 4.8 | 9.1 | 13.9 | 7.5 | 23.8 | 31.3 | 12.3 | 32.9 | 45.2 | 69.2 | 68.0 | 1,368 |
| Ayeyarwady | 2.0 | 6.9 | 8.9 | 12.5 | 24.2 | 36.8 | 14.6 | 31.1 | 45.7 | 80.5 | 80.2 | 1,650 |
| Nay Pyi Taw | 2.5 | 5.5 | 7.9 | 14.2 | 24.0 | 38.3 | 16.7 | 29.5 | 46.2 | 82.9 | 77.4 | 300 |
| Education ${ }^{4}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 4.5 | 13.7 | 18.2 | 7.0 | 21.7 | 28.7 | 11.5 | 35.4 | 46.8 | 61.2 | 60.2 | 1,606 |
| Primary | 2.9 | 8.5 | 11.4 | 10.7 | 24.7 | 35.4 | 13.6 | 33.2 | 46.8 | 75.7 | 74.9 | 5,305 |
| Secondary | 2.6 | 4.2 | 6.9 | 11.8 | 17.4 | 29.1 | 14.4 | 21.6 | 36.0 | 80.9 | 79.6 | 4,646 |
| More than secondary | 2.1 | 1.9 | 4.0 | 10.8 | 18.1 | 28.9 | 12.9 | 20.0 | 32.9 | 87.9 | 82.1 | 1,325 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 4.4 | 10.0 | 14.4 | 12.1 | 21.5 | 33.6 | 16.5 | 31.5 | 48.0 | 70.1 | 69.2 | 2,274 |
| Second | 3.2 | 7.7 | 11.0 | 11.4 | 22.0 | 33.5 | 14.7 | 29.8 | 44.5 | 75.3 | 74.9 | 2,408 |
| Middle | 3.0 | 6.6 | 9.6 | 10.5 | 19.3 | 29.7 | 13.5 | 25.9 | 39.3 | 75.6 | 74.9 | 2,633 |
| Fourth | 2.7 | 6.1 | 8.8 | 10.2 | 20.9 | 31.1 | 12.9 | 27.0 | 39.9 | 78.0 | 76.7 | 2,702 |
| Highest | 1.7 | 4.9 | 6.6 | 9.3 | 21.5 | 30.8 | 10.9 | 26.4 | 37.3 | 82.4 | 78.6 | 2,868 |
| Total | 2.9 | 6.9 | 9.8 | 10.6 | 21.0 | 31.6 | 13.6 | 27.9 | 41.5 | 76.3 | 74.9 | 12,885 |

Note: Numbers in this table correspond to the revised definition of unmet need described in Bradley et al. 2012.
${ }^{1}$ Total demand is the sum of unmet need and met need.
${ }^{2}$ Percentage of demand satisfied is met need divided by total demand.
${ }^{3}$ Modern methods include female sterilization, male sterilization, pill, IUD, injectables, implants, male condom, and lactational amenorrhea method (LAM)
${ }^{4}$ Total includes three women with missing information on education.

Table 7.13 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, Myanmar 2015-16

|  | Number of living children ${ }^{1}$ |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Intention to use in the future | 0 | 1 | 2 | 3 | $4+$ | Total |
| Intends to use | 39.3 | 52.4 | 43.0 | 29.1 | 24.6 | 38.2 |
| Unsure | 5.7 | 6.0 | 5.0 | 6.3 | 4.0 | 5.3 |
| Does not intend to use | 55.0 | 41.4 | 52.0 | 64.7 | 71.4 | 56.5 |
| Missing | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.1 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of women | 469 | 878 | 883 | 614 | 862 | 3,705 |

${ }^{1}$ Includes current pregnancy

Table 7.14.1 Exposure to family planning messages: Women
Percentage of women age 15-49 who heard or saw a family planning message on radio, on television, or in a newspaper or magazine, or on the Internet or a billboard in the past few months, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Women |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Radio | Television | Newspaper/ magazine | None of these three media sources ${ }^{1}$ | Billboard | Internet | Percentage of women with no exposure to any of the sources ${ }^{2}$ | Number of women |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 14.1 | 43.7 | 33.0 | 46.6 | 22.2 | 50.2 | 32.3 | 3,768 |
| Rural | 14.8 | 17.9 | 11.4 | 72.6 | 4.4 | 22.2 | 64.6 | 9,117 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | 15.1 | 17.9 | 19.7 | 68.8 | 9.6 | 26.6 | 59.6 | 374 |
| Kayah | 6.3 | 19.4 | 13.9 | 72.7 | 10.2 | 14.5 | 67.1 | 65 |
| Kayin | 6.4 | 11.2 | 9.5 | 81.7 | 7.9 | 11.6 | 77.5 | 303 |
| Chin | 12.0 | 12.9 | 16.4 | 74.4 | 6.6 | 34.7 | 57.7 | 102 |
| Sagaing | 17.6 | 32.4 | 15.1 | 59.7 | 4.5 | 27.2 | 50.9 | 1,410 |
| Tanintharyi | 7.2 | 12.1 | 7.6 | 82.1 | 5.8 | 23.7 | 69.2 | 283 |
| Bago | 12.9 | 22.7 | 16.9 | 68.5 | 10.8 | 33.4 | 55.2 | 1,244 |
| Magway | 23.8 | 23.9 | 19.1 | 61.6 | 8.1 | 35.4 | 52.5 | 1,081 |
| Mandalay | 13.4 | 22.1 | 15.7 | 67.9 | 9.9 | 33.4 | 56.3 | 1,541 |
| Mon | 17.5 | 23.8 | 22.3 | 61.9 | 13.5 | 35.4 | 50.0 | 463 |
| Rakhine | 11.7 | 12.8 | 10.6 | 78.5 | 6.3 | 11.6 | 74.0 | 777 |
| Yangon | 10.3 | 45.3 | 31.5 | 46.5 | 19.5 | 52.7 | 29.4 | 1,927 |
| Shan | 7.1 | 19.2 | 10.2 | 77.9 | 6.7 | 16.8 | 74.5 | 1,368 |
| Ayeyarwady | 23.1 | 22.1 | 17.3 | 63.7 | 5.8 | 24.4 | 57.0 | 1,650 |
| Nay Pyi Taw | 15.2 | 22.5 | 15.3 | 66.2 | 10.6 | 22.7 | 59.0 | 300 |
| Education ${ }^{3}$ |  |  |  |  |  |  |  |  |
| No education | 7.7 | 7.5 | 1.7 | 88.1 | 0.5 | 7.9 | 84.7 | 1,606 |
| Primary | 14.4 | 19.2 | 9.8 | 72.4 | 2.5 | 22.3 | 63.9 | 5,305 |
| Secondary | 15.9 | 32.1 | 23.8 | 57.0 | 12.8 | 38.4 | 44.6 | 4,646 |
| More than secondary | 18.8 | 48.6 | 47.5 | 35.5 | 37.8 | 61.8 | 21.3 | 1,325 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 13.3 | 10.2 | 6.5 | 80.8 | 1.6 | 13.9 | 75.2 | 2,274 |
| Second | 14.6 | 14.6 | 9.7 | 76.1 | 2.8 | 20.0 | 68.2 | 2,408 |
| Middle | 15.3 | 21.4 | 13.6 | 68.7 | 4.9 | 26.0 | 59.0 | 2,633 |
| Fourth | 14.4 | 31.2 | 18.3 | 60.8 | 9.5 | 35.7 | 48.1 | 2,702 |
| Highest | 15.1 | 44.9 | 36.6 | 43.6 | 25.9 | 51.1 | 31.4 | 2,868 |
| Total | 14.6 | 25.4 | 17.7 | 65.0 | 9.6 | 30.4 | 55.1 | 12,885 |

[^12]Table 7.14.2 Exposure to family planning messages: Men
Percentage of men age 15-49 who heard or saw a family planning message on radio, on television, or in a newspaper or magazine, or on the Internet or a billboard in the past few months, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Men |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Radio | Television | Newspaper/ magazine | None of these three media sources ${ }^{1}$ | Billboard | Internet | Percentage of men with no exposure to any of the sources ${ }^{2}$ | Number of men |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 11.7 | 38.0 | 40.2 | 46.7 | 33.4 | 54.4 | 28.7 | 1,350 |
| Rural | 15.0 | 19.9 | 18.2 | 66.4 | 10.8 | 30.8 | 53.2 | 3,387 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | 17.3 | 17.7 | 21.8 | 68.1 | 8.1 | 25.5 | 60.3 | 161 |
| Kayah | 16.8 | 20.9 | 24.7 | 63.8 | 10.1 | 28.6 | 58.4 | 23 |
| Kayin | 11.1 | 19.7 | 14.4 | 73.5 | 11.0 | 13.4 | 68.3 | 115 |
| Chin | 6.2 | 10.1 | 6.4 | 82.8 | 5.6 | 22.3 | 66.6 | 39 |
| Sagaing | 12.6 | 18.8 | 19.9 | 68.3 | 13.1 | 29.5 | 54.3 | 514 |
| Tanintharyi | 15.5 | 25.0 | 12.9 | 66.5 | 18.5 | 39.3 | 48.7 | 103 |
| Bago | 22.5 | 38.0 | 41.5 | 41.4 | 28.4 | 49.4 | 31.2 | 454 |
| Magway | 20.1 | 22.8 | 19.9 | 60.3 | 12.2 | 42.1 | 43.5 | 320 |
| Mandalay | 15.0 | 21.6 | 29.0 | 60.3 | 14.4 | 44.6 | 38.9 | 601 |
| Mon | 18.4 | 28.7 | 25.2 | 55.3 | 25.7 | 33.6 | 43.9 | 162 |
| Rakhine | 12.1 | 12.2 | 13.2 | 74.5 | 12.2 | 18.3 | 67.2 | 222 |
| Yangon | 8.1 | 44.4 | 43.0 | 39.5 | 35.9 | 67.2 | 16.5 | 703 |
| Shan | 10.6 | 26.9 | 18.5 | 66.2 | 12.2 | 24.0 | 58.2 | 542 |
| Ayeyarwady | 15.5 | 12.8 | 9.9 | 75.1 | 5.9 | 22.9 | 62.1 | 653 |
| Nay Pyi Taw | 7.2 | 12.1 | 15.8 | 75.6 | 15.0 | 30.9 | 58.9 | 126 |
| Education |  |  |  |  |  |  |  |  |
| No education | 7.4 | 11.6 | 4.2 | 82.2 | 2.2 | 13.7 | 75.7 | 575 |
| Primary | 16.0 | 20.2 | 16.1 | 67.6 | 6.7 | 30.7 | 53.9 | 1,684 |
| Secondary | 13.9 | 29.9 | 31.5 | 53.7 | 24.1 | 44.8 | 37.0 | 2,139 |
| More than secondary | 16.6 | 41.7 | 55.5 | 35.7 | 51.7 | 65.7 | 16.6 | 339 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 14.5 | 11.1 | 9.7 | 75.6 | 4.1 | 20.0 | 64.2 | 890 |
| Second | 14.3 | 15.8 | 14.9 | 72.7 | 5.5 | 28.1 | 59.8 | 916 |
| Middle | 15.3 | 24.7 | 24.8 | 59.2 | 13.4 | 37.8 | 45.8 | 979 |
| Fourth | 13.6 | 29.6 | 27.7 | 56.3 | 21.0 | 45.1 | 38.4 | 986 |
| Highest | 12.7 | 42.5 | 43.5 | 42.1 | 40.4 | 54.5 | 25.1 | 966 |
| Total | 14.1 | 25.1 | 24.5 | 60.8 | 17.2 | 37.5 | 46.2 | 4,737 |

${ }^{1}$ None of radio, television, or newspaper/magazine
${ }^{2}$ Includes those with no exposure to any source: radio, television, newspaper/magazine, Internet, or billboard.

Table 7.15 Contact of nonusers with family planning providers
Among women age $15-49$ who are not using contraception, the percentage who during the past 12 months were visited by AMW, CHW, or CSG 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 AMW, CHW, or CSG or at a health facility, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Percentage of women who were visited by AMW, CHW, or CSG 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 AMW, CHW, or CSG or at a health facility | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Discussed family planning | Did not discuss family planning |  |  |
| Age |  |  |  |  |  |
| 15-19 | 2.7 | 0.5 | 37.1 | 96.9 | 1,687 |
| 20-24 | 4.4 | 2.6 | 45.8 | 93.8 | 1,368 |
| 25-29 | 7.0 | 4.4 | 49.7 | 90.3 | 1,123 |
| 30-34 | 9.1 | 4.9 | 47.1 | 88.3 | 1,166 |
| 35-39 | 7.9 | 3.5 | 45.7 | 89.8 | 1,012 |
| 40-44 | 7.5 | 1.8 | 48.9 | 91.5 | 1,115 |
| 45-49 | 7.7 | 1.4 | 49.1 | 91.5 | 1,338 |
| Residence |  |  |  |  |  |
| Urban | 4.2 | 2.5 | 50.0 | 93.9 | 2,551 |
| Rural | 7.2 | 2.6 | 43.9 | 91.4 | 6,258 |
| States/Regions |  |  |  |  |  |
| Kachin | 4.9 | 3.3 | 37.8 | 93.7 | 269 |
| Kayah | 12.8 | 5.4 | 51.5 | 83.6 | 43 |
| Kayin | 4.5 | 4.4 | 41.7 | 92.6 | 220 |
| Chin | 18.7 | 4.9 | 27.2 | 78.5 | 85 |
| Sagaing | 3.4 | 2.9 | 57.7 | 94.8 | 985 |
| Tanintharyi | 1.0 | 2.1 | 48.3 | 97.1 | 206 |
| Bago | 4.7 | 0.9 | 42.1 | 94.4 | 770 |
| Magway | 12.2 | 2.0 | 45.3 | 86.7 | 777 |
| Mandalay | 7.8 | 3.1 | 63.2 | 91.0 | 1,071 |
| Mon | 3.1 | 3.0 | 40.4 | 94.5 | 337 |
| Rakhine | 3.4 | 3.7 | 31.3 | 93.8 | 606 |
| Yangon | 4.5 | 1.1 | 37.6 | 94.6 | 1,272 |
| Shan | 5.7 | 3.2 | 41.7 | 92.0 | 940 |
| Ayeyarwady | 10.9 | 3.0 | 46.7 | 88.0 | 1,043 |
| Nay Pyi Taw | 4.1 | 2.1 | 44.3 | 94.2 | 185 |
| Education ${ }^{1}$ |  |  |  |  |  |
| No education | 5.0 | 2.1 | 37.3 | 93.7 | 1,145 |
| Primary | 8.4 | 2.9 | 44.3 | 90.1 | 3,426 |
| Secondary | 5.2 | 2.3 | 47.6 | 93.3 | 3,293 |
| More than secondary | 4.5 | 2.7 | 53.9 | 93.4 | 942 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 6.7 | 2.8 | 34.1 | 91.9 | 1,510 |
| Second | 8.9 | 3.0 | 42.3 | 89.5 | 1,602 |
| Middle | 7.5 | 2.5 | 46.3 | 91.0 | 1,850 |
| Fourth | 5.3 | 2.2 | 50.7 | 93.6 | 1,861 |
| Highest | 3.9 | 2.4 | 52.0 | 94.1 | 1,986 |
| Total | 6.3 | 2.5 | 45.7 | 92.1 | 8,809 |

AMW = Auxiliary mid-wife; CHW = Community health worker; CSG = Community-based support group ${ }^{1}$ Total includes three women with missing information on education.

## Key Findings

- Current levels: The infant mortality rate is 40 deaths per 1,000 live births. This means that 1 in 25 children does not reach his or her first birthday. Most of these deaths in the first year of life, more than $60 \%$, occur within the first month.
- Trends: Under-5 mortality fell from 103 to 50 deaths per 1,000 live births in the decade or so preceding the survey. Other mortality rates also fell during this period.
- State/regional differences: Large variations in childhood mortality rates are seen among states and regions. Under-5 mortality ranges from a low of 44 deaths per 1,000 live births in Mon State to a high of 104 deaths per 1,000 live births in Chin State.
- Short birth intervals: The under-5 mortality rate is 159 deaths per 1,000 live births for children born within 2 years of a previous birth. The rate is much lower-48 deaths per 1,000 live births-for children born at least 4 years after a previous birth.

Information on infant and child mortality is relevant to a demographic assessment of the population, and is an important indicator of a country's socioeconomic development, quality of life, and quality of health care services. It can also help identify the children at highest risk of death and lead to strategies to reduce this risk.

This chapter presents information on levels, trends, and differentials in perinatal, neonatal, infant, and under-5 mortality rates. It also examines biodemographic factors and fertility behaviors that affect mortality risks for infants and children. The information is collected as part of a retrospective birth history, in which women list all children they have borne, along with each child's date of birth, survivorship status, and current age or age at death.

The quality of mortality estimates calculated from birth histories depends on the mother's ability to recall all of the children she has given birth to, as well as their birth dates and ages at death. Potential data quality problems include:

- The selective omission from the birth histories of those births that did not survive, which can result in underestimation of childhood mortality.
- The displacement of birth dates, which may distort mortality trends. An interviewer may knowingly record a birth as occurring in a different year than the one in which it took place. This may happen if an interviewer tries to cut down on his or her overall work load because live births occurring during the 5 years before the interview are the subject of a lengthy set of additional questions.
- The quality of reporting of age at death. Misreporting the child's age at death may distort the age pattern of mortality, especially if the net effect of the age misreporting is to transfer deaths from one age bracket to another.

Any method of measuring childhood mortality that relies on the mothers' reports (for example, birth histories) assumes that female adult mortality is not high, or if it is high, that the mortality risks of the mothers and those of their children show little correlation.

Selected indicators of the quality of the mortality data on which the estimates of mortality in this chapter are based are presented in Appendix C, Tables C.4-C.6.

### 8.1 Early Childhood Mortality

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

In Myanmar, neonatal mortality is 25 deaths per 1,000 live births, infant mortality is 40 deaths per 1,000 live births, and under- 5 mortality is 50 deaths per 1,000 live births in the 5 -year period preceding the survey. These rates imply that 1 in 25 children dies before reaching the first birthday, and 1 in 20 dies before reaching the fifth birthday (Table 8.1).

All three indicators of childhood mortality have declined sharply in Myanmar during the 14 years preceding the survey (Figure 8.1). These trend data are based on the complete birth histories collected in the 2015-16 MDHS, which allow the estimation of mortality rates for children born not just 0-4 years preceding the survey but also 5-9 years and 10-14 years preceding the survey.

## Patterns by background characteristics

- Mortality estimates by background characteristics are calculated for the 10 -year period before the survey to ensure that there are sufficient cases to produce statistically reliable estimates (Table 8.2).

Figure 8.1 Trends in early childhood mortality rates

Deaths per 1,000 live births


- The under- 5 mortality rate in urban areas is 42 deaths per 1,000 live births, about half of the rate in rural areas where it is 80 deaths per 1,000 live births. Similarly, the neonatal mortality and infant mortality rates are about twice as high in rural areas as in urban areas (Table 8.2).
- All childhood mortality rates decrease uniformly as a mother's education increases. In fact, the infant and under- 5 mortality rates for mothers with no education, at 83 and 108 deaths per 1,000 live births, respectively, are higher than those for children with any other background characteristic.
- Children who are born in families in the lowest wealth quintile are more likely to die in early childhood than children born in families in the other quintiles. For example, the under-5 mortality rate ranges from 99 deaths per 1,000 live births in the lowest wealth quintile to 26 deaths per 1,000 live births in the highest wealth quintile (Figure 8.2).
- Neonatal mortality and under-5 mortality are both highest in Chin State, at 44 and 104 deaths per 1,000 live births. However, infant mortality is highest in Bago Region where it is 80 deaths per 1,000 live births. Infant and under-5 mortality rates are lowest in Mon State, at 37 and 44 deaths per 1,000 live births. Neonatal mortality, however, is lowest in Tanintharyi Region, at 20 deaths per 1,000 live births. These variations are likely due to differences among states and regions in accessibility to health care and sociocultural contexts (Figure 8.3).


### 8.2 Biodemographic Risk Factors

Researchers have identified multiple risk factors for infant and child mortality based on the characteristics of the mother and child and the circumstances of the birth. Table 8.3 illustrates the relationship between these risk factors and neonatal, infant, and under- 5 mortality, calculated for the 10 -year period preceding the survey.

## Patterns by biodemographic risk factors

- Male children are more likely to die in early childhood than female children. The under-5 mortality rate for male children is 78 deaths per 1,000 live births and for female children is 66 deaths per 1,000 live births.
- Mortality rates are higher for children whose mother was less than 20 years old when born than for children born to older women.

Figure 8.2 Under-5 mortality by household wealth

Deaths per 1,000 live births for the 10 -year period before the survey


Figure 8.3 Under-5 mortality by states and regions
Deaths per 1,000 live births in the 10-year period before the survey


- Generally, all child mortality rates are higher for fourth and higher order births. For example, the under-5 mortality rate for seventh and higher order births is 137 deaths per 1,000 live births, more than twice as high as the rate for births in orders 1-3.
- Children born after a short birth interval, that is, an interval less than 2 years, have higher mortality rates than children born after longer birth intervals. For example, infant mortality, which is highly influenced by short birth intervals, varies from 137 deaths per 1,000 live births for birth intervals less than 2 years compared with 39 deaths per 1,000 live births for birth intervals of 3 years or more (Figure 8.4).
- Neonatal mortality is higher for children whose mothers recalled their size at birth as small or very small rather than average or large.


### 8.3 Perinatal Mortality

Figure 8.4 Under-5 mortality by previous birth interval

Deaths per 1,000 live births for the 10-year period before the survey Previous birth interval: $\square<2$ years $\square 2$ years $\square 3$ years $\square 4+$ years


## Perinatal mortality rate

Perinatal deaths include stillbirths (pregnancy loss that occurs after 7 months of gestation) and early neonatal deaths (deaths of live births within the first 7 days of life). The perinatal mortality rate is calculated as the number of perinatal deaths per 1,000 pregnancies of 7 or more months' duration.
Sample: Number of pregnancies of 7 or more months' duration to women age 15-49 in the 5 years before the survey.

The number of stillbirths recorded in the MDHS was 51, and the number of early neonatal deaths was 81 for the 5 -year period preceding the survey. This yields a perinatal mortality rate of 30 deaths per 1,000 pregnancies of 7 or more months' duration (Table 8.4).

## Patterns by background characteristics

- By age, the perinatal mortality rate is highest for the oldest mothers (47 per 1,000 pregnancies), that is, women who gave birth in their 40s.
- Perinatal mortality is twice as high among women who become pregnant 15-26 months after a previous pregnancy ( 54 per 1,000 pregnancies), as for women who become pregnant 39 months or more after a previous pregnancy ( 25 per 1,000 pregnancies).
- The perinatal mortality rate is higher in rural areas, at 33 deaths per 1,000 , than in urban areas, at 22 deaths per 1,000 pregnancies.
- Perinatal mortality ranges from 15 deaths per 1,000 pregnancies in Tanintharyi Region (a coastal area) and Yangon Region (a delta area) to more than three times as many, at 54 deaths per 1,000 pregnancies, in Chin State, a mountainous region.
- Perinatal mortality is higher for mothers with no education than for mothers with education.


### 8.4 High-risk Fertility Behavior

Childhood mortality depends on the magnitude of several known risk factors, such as mother's age at birth, previous birth interval, and parity. Mothers with one or more risk factors are likely to have higher child mortality. Table 8.5 gives the percent distribution of children born in the 5 years preceding the survey by category of elevated risk of mortality, the risk ratio, and the percent distribution of currently married women by their category of risk if they were to conceive a child at the time of the survey.

Thirty-one percent of births in the 5 years preceding the survey are not in any high-risk category. Thirtytwo percent of births are in the unavoidable risk category, which includes first births to women between age 18 and $34 ; 24 \%$ are in a single high-risk category, which includes mother's age less than 18 years, mother's age more than 34 years, birth interval less than 24 months, and birth order more than three; and $14 \%$ of births are in multiple high-risk categories.

The risk ratio shows the relationship between risk factors and child mortality. Among those in the single high-risk category, the risk ratio is highest at 2.24 for births that occur within 24 months of a previous birth. However, the risk ratio is much higher among births in the multiple risk categories, at an average of 2.65. The highest risk ratio, 4.1, is for women older than age 34, with a birth interval less than 24 months, and a birth order more than 3 . This means that children born to women in this category have a risk of dying that is four times higher than the risk for children born to women not in any high-risk category. Only $1 \%$ of births fall in this multiple risk category.

The last column of Table 8.5 shows that $66 \%$ of currently married women in Myanmar would have belonged to an avoidable high-risk category if they had conceived at the time of the survey, $33 \%$ would have belonged to a multiple high-risk category, and $34 \%$ would have belonged to a single high-risk category. Only $25 \%$ would not have belonged at the time to any high-risk category. Almost $9 \%$ of currently married women would have belonged to an unavoidable risk category.

## LIST OF TABLES

For more information on infant and child mortality, see the following tables:

- Table 8.1 Early childhood mortality rates
- Table 8.2 Early childhood mortality rates by socioeconomic characteristics
- Table 8.3 Early childhood mortality rates by demographic characteristics
- Table 8.4 Perinatal mortality
- Table 8.5 High-risk fertility behavior

Table 8.1 Early childhood mortality rates
Neonatal, postneonatal, infant, child, and under-5 mortality rates for 5 -year periods preceding the survey, Myanmar DHS 2015-16

|  | Neonatal <br> Yortality <br> Years preceding <br> (ne survey | Post- <br> neonatal <br> mortality <br> $(\mathrm{PNN})^{1}$ | Infant <br> mortality <br> $\left(1 q_{0}\right)$ | Child <br> mortality <br> $\left(4 \mathrm{q}_{1}\right)$ | Under-5 <br> mortality <br> $\left(5 \mathrm{q}_{0}\right)$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| $0-4$ | 25 | 16 | 40 | 10 | 50 |
| $5-9$ | 39 | 36 | 75 | 18 | 92 |
| $10-14$ | 38 | 46 | 84 | 20 | 103 |

${ }^{1}$ Computed as the difference between the infant and neonatal mortality rates

Table 8.2 Early childhood mortality rates by socioeconomic characteristics
Neonatal, postneonatal, infant, child, and under-five mortality rates for the 10-year period preceding the survey, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Neonatal mortality (NN) | Postneonatal mortality (PNN) ${ }^{1}$ | Infant mortality ( $1 q_{0}$ ) | Child mortality (491) | Under-5 mortality (5 $\mathrm{q}_{0}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Residence |  |  |  |  |  |
| Urban | 18 | 19 | 37 | 5 | 42 |
| Rural | 36 | 29 | 64 | 17 | 80 |
| States/Regions |  |  |  |  |  |
| Kachin | 30 | 20 | 50 | 12 | 61 |
| Kayah | 26 | 12 | 38 | 13 | 50 |
| Kayin | 33 | 32 | 66 | 20 | 84 |
| Chin | 44 | 31 | 75 | 32 | 104 |
| Sagaing | 35 | 17 | 52 | 17 | 68 |
| Tanintharyi | 20 | 36 | 56 | 29 | 83 |
| Bago | 43 | 36 | 80 | 4 | 83 |
| Magway | 28 | 21 | 48 | 7 | 55 |
| Mandalay | 32 | 27 | 59 | 7 | 65 |
| Mon | 26 | 11 | 37 | 7 | 44 |
| Rakhine | 32 | 15 | 47 | 12 | 58 |
| Yangon | 21 | (18) | (39) | (7) | (46) |
| Shan | 31 | 43 | 74 | 27 | 99 |
| Ayeyarwady | 36 | 29 | 66 | 18 | 82 |
| Nay Pyi Taw | 30 | 30 | 60 | 20 | 79 |
| Mother's education |  |  |  |  |  |
| No education | 36 | 47 | 83 | 28 | 108 |
| Primary | 34 | 28 | 63 | 13 | 75 |
| Secondary | 26 | 13 | 39 | 6 | 44 |
| More than secondary | 26 | 0 | 26 | (3) | (29) |
| Wealth quintile |  |  |  |  |  |
| Lowest | 35 | 43 | 78 | 23 | 99 |
| Second | 46 | 30 | 76 | 15 | 90 |
| Middle | 29 | 23 | 52 | 14 | 66 |
| Fourth | 22 | 13 | 35 | 7 | 42 |
| Highest | 17 | 5 | 22 | 4 | 26 |

Note: Figures in parentheses are based on 250-499 unweighted person-years of exposure to the risk of death.
${ }^{1}$ Computed as the difference between the infant and neonatal mortality rates

Table 8.3 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, Myanmar DHS 2015-16

| Demographic characteristic | Neonatal mortality (NN) | Postneonatal mortality (PNN) ${ }^{1}$ | Infant mortality ( 1 qo) | Child mortality (491) | Under-5 mortality (5q0) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Child's sex |  |  |  |  |  |
| Male | 34 | 29 | 64 | 15 | 78 |
| Female | 29 | 24 | 53 | 13 | 66 |
| Mother's age at birth |  |  |  |  |  |
| <20 | 43 | 37 | 80 | 17 | 96 |
| 20-29 | 30 | 21 | 51 | 12 | 62 |
| 30-39 | 32 | 32 | 64 | 17 | 79 |
| 40-49 | (34) | (32) | (67) | * | * |
| Birth order |  |  |  |  |  |
| 1 | 31 | 20 | 51 | 10 | 61 |
| 2-3 | 30 | 20 | 50 | 10 | 60 |
| 4-6 | 30 | 44 | 74 | 26 | 98 |
| 7+ | 55 | 57 | 113 | 27 | 137 |
| Previous birth interval ${ }^{2}$ |  |  |  |  |  |
| <2 years | 65 | 72 | 137 | 26 | 159 |
| 2 years | 37 | 37 | 74 | 24 | 96 |
| 3 years | 19 | 20 | 39 | 15 | 54 |
| $4+$ years | 24 | 15 | 39 |  | 48 |
| Birth size ${ }^{3}$ |  |  |  |  |  |
| Small/very small | 70 | (14) | (84) | na | na |
| Average or larger | 17 | 17 | 34 | 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 rate is based on fewer than 250 person-years of exposure to the risk of death and has been suppressed.
na $=$ Not available
${ }^{1}$ Computed as the difference between the infant and neonatal mortality rates
${ }^{2}$ Excludes first-order births
${ }^{3}$ Rates for the 5 -year period before the survey

Table 8.4 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, Myanmar DHS 2015-16

| Background characteristic | Number of stillbirths ${ }^{1}$ | Number of early neonatal deaths ${ }^{2}$ | Perinatal mortality rate ${ }^{3}$ | Number of pregnancies of 7+ months duration |
| :---: | :---: | :---: | :---: | :---: |
| Mother's age at birth |  |  |  |  |
| <20 | 6 | 4 | 29 | 351 |
| 20-29 | 20 | 41 | 27 | 2,211 |
| 30-39 | 18 | 32 | 33 | 1,549 |
| 40-49 | 6 | 4 | 47 | 226 |
| Previous pregnancy interval in months ${ }^{4}$ |  |  |  |  |
| First pregnancy | 19 | 22 | 28 | 1,455 |
| <15 | 5 | 10 | 33 | 429 |
| 15-26 | 5 | 19 | 54 | 456 |
| 27-38 | 7 | 7 | 31 | 441 |
| 39+ | 15 | 23 | 25 | 1,555 |
| Residence |  |  |  |  |
| Urban | 6 | 15 | 22 | 959 |
| Rural | 45 | 66 | 33 | 3,378 |
| States/Regions |  |  |  |  |
| Kachin | 1 | 2 | 22 | 169 |
| Kayah | 0 | 1 | 23 | 32 |
| Kayin | 1 | 3 | 29 | 148 |
| Chin | 1 | 3 | 54 | 66 |
| Sagaing | 11 | 13 | 51 | 485 |
| Tanintharyi | 1 | 1 | 15 | 133 |
| Bago | 3 | 8 | 28 | 376 |
| Magway | 3 | 4 | 25 | 313 |
| Mandalay | 3 | 10 | 31 | 435 |
| Mon | 1 | 2 | 19 | 145 |
| Rakhine | 3 | 7 | 32 | 306 |
| Yangon | 2 | 5 | 15 | 437 |
| Shan | 3 | 12 | 24 | 610 |
| Ayeyarwady | 15 | 9 | 41 | 582 |
| Nay Pyi Taw | 2 | 1 | 39 | 98 |
| Mother's education |  |  |  |  |
| No education | 11 | 23 | 43 | 801 |
| Primary | 27 | 33 | 30 | 1,990 |
| Secondary | 11 | 17 | 22 | 1,223 |
| More than secondary | 2 | 8 | 31 | 324 |
| Wealth quintile |  |  |  |  |
| Lowest | 15 | 22 | 29 | 1,293 |
| Second | 9 | 25 | 35 | 974 |
| Middle | 18 | 14 | 44 | 739 |
| Fourth | 5 | 11 | 23 | 721 |
| Highest | 3 | 9 | 20 | 611 |
| Total | 51 | 81 | 30 | 4,337 |

${ }^{1}$ Stillbirths are fetal deaths in pregnancies lasting 7 or more months.
${ }^{2}$ Early neonatal deaths are deaths at age 0-6 days among live-born children.
${ }^{3}$ Perinatal mortality rate is the sum of the number of stillbirths and early neonatal deaths divided by the number of pregnancies of 7 or more months' duration, expressed per 1,000.
${ }^{4}$ Categories correspond to birth intervals of <24 months, 24-35 months, $36-47$ months, and 48+ months.

Table 8.5 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, Myanmar DHS 2015-16

| Risk category | Births in the 5 years preceding the survey |  | Percentage of currently married women ${ }^{1}$ |
| :---: | :---: | :---: | :---: |
|  | Percentage of births | Risk ratio |  |
| Not in any high risk category | 30.6 | 1.00 | $25.3{ }^{\text {a }}$ |
| Unavoidable risk category First order births between ages 18 and 34 years | 31.6 | 1.16 | 8.7 |
| Single high-risk category <br> Mother's age <18 <br> Mother's age >34 <br> Birth interval <24 months <br> Birth order >3 | 2.3 7.6 4.4 9.8 | 0.80 1.12 2.24 1.70 | 0.4 19.7 7.5 6.0 |
| Subtotal | 24.1 | 1.53 | 33.5 |
| Multiple high-risk category Age <18 and birth interval <24 months ${ }^{2}$ | 0.2 | * | 0.1 |
| Age >34 and birth interval <24 months <br> Age $>34$ and birth order $>3$ | 0.3 9.5 | 2.32 | 0.9 26.7 |
| Age $>34$ and birth interval $<24$ months and birth order $>3$ | 1.0 | 4.10 | 2.1 |
| Birth interval $<24$ months and birth order >3 | 2.7 | 3.52 | 2.8 |
| Subtotal | 13.7 | 2.65 | 32.5 |
| In any avoidable high-risk category | 37.8 | 1.94 | 66.1 |
| Total | 100.0 | na | 100.0 |
| Number of births/women | 4,286 | na | 7,759 |

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. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
na $=$ Not applicable
${ }^{1}$ 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.
${ }^{2}$ Includes the category age <18 and birth order >3
${ }^{a}$ Includes sterilized women

## Key Findings

- Antenatal care coverage: Eighty-one percent of women age 15-49 who had a live birth in the 5 years preceding the survey received antenatal care from a skilled provider for their most recent birth. Three-fifths of women (59\%) had four or more antenatal care visits.
- Components of antenatal care: Pregnant women are more likely to have their blood pressure measured (91\%) than to be informed about signs of pregnancy complications (76\%) as part of antenatal care. Only about three in ten women had either a urine or blood sample taken during an antenatal care visit.
- Protection against neonatal tetanus: Nearly threequarters of women had their last birth protected against neonatal tetanus (72\%).
- Delivery: Only 37\% of births take place in a health facility; however, $60 \%$ of these births are delivered by skilled providers.
- Postnatal checks: Seventy-one percent of mothers and $36 \%$ of newborns receive the recommended postnatal checkup within the first 2 days after birth.

Health care services during pregnancy and childbirth and after delivery are important for the survival and wellbeing of both the mother and the infant. Antenatal care (ANC) can reduce health risks for mothers and their babies through monitoring of pregnancies and screening for complications. Delivery at a health facility, with skilled medical attention and hygienic conditions, reduces complications and infections during labor and delivery. Timely postnatal care treats complications arising from delivery and teaches the mother how to care for herself and her infant. Utilization of these services contributes to policies and programs to further improve maternal and child health care.

Maternal and child health care is the priority issue in the National Health Plan of Myanmar. The country is committed to promoting overall reproductive health for reducing maternal mortality and improving the quality and accessibility of reproductive health services. The goal of the reproductive health program is to attain a better quality of life for people by improving the reproductive health status of women, men, adolescents, and youth.

The first part of this chapter presents information on ANC providers, the number and timing of ANC visits, and various components of care. The second part focuses on childbirth and presents information on the place of delivery, assistance during delivery, and caesarean deliveries. The third section focuses on postnatal care and presents information on postnatal health checks for mothers and newborns. The conclusion examines the barriers that women may face when seeking health care during illness.

### 9.1 Antenatal Care Coverage and Content

### 9.1.1 Skilled Providers

## Antenatal care (ANC) from a skilled provider

Pregnancy care received from skilled providers, that is, doctors, nurses/midwives, and lady health visitors.
Sample: Women age 15-49 who had a live birth in the 5 years before the survey

The World Health Organization (WHO) recommends that pregnant women receive a minimum of four antenatal care visits from skilled providers to ensure that problems are identified and managed. Myanmar adopted this recommendation in its standard national guidelines for antenatal care and postnatal care.

The 2015-16 MDHS reveals that four in five women age 15-49 (81\%) received at least one ANC visit with skilled providers during the pregnancy for their most recent birth (Table 9.1).

## Patterns by background characteristics

- Women are less likely to get ANC from a skilled provider for higher order births (Table 9.1). Only $60 \%$ of women with a sixth or higher order birth received ANC from a skilled provider, compared with $89 \%$ of women giving birth to their first child.
- Ninety-four percent of women in urban areas received ANC from a skilled provider, compared with only $77 \%$ of those in rural areas. Women in rural areas are also more likely than women in urban areas to receive no ANC ( $16 \%$ versus 4\%).
- Among states and regions, ANC coverage by skilled providers is lowest in Shan State (68\%) and highest in Yangon Region (95\%).
- Women with more than secondary education are almost two times more likely than those with no education to receive ANC from skilled providers.
- Women in the highest wealth quintile are more likely to receive ANC from skilled providers than women in the lowest quintile ( $98 \%$ versus $67 \%$ ).


### 9.1.2 Timing and Number of ANC Visits

Fifty-nine percent of pregnant women in Myanmar receive at least four antenatal care visits, as recommended by WHO (Table 9.2). Thirteen percent of women receive no ANC visits.

Forty percent of women get ANC within their first trimester of pregnancy, while $30 \%$ of women initiate ANC during the fourth to fifth month, and 3\% delay until the eight month or even later.

Women in urban areas ( $84 \%$ ) are more likely to have at least four antenatal care visits than women in rural areas (51\%) (Figure 9.1).

Figure 9.1 Antenatal care coverage
Percentage of women age 15-49 who had a live birth in the 5 years before the survey (for the most recent birth)
■Total ■Urban ■Rural 94


### 9.2 Components of ANC Visits

Standard national guidelines for antenatal care have been developed in Myanmar. These guidelines emphasize that every pregnant mother should receive ANC from a skilled provider that includes services such as a thorough physical examination, blood tests for infection screening and anemia, a urine test, tetanus toxoid injections, iron and folate supplements, and deworming medications.

In Myanmar, $87 \%$ of women age $15-49$ said that they took iron supplements (tablets or syrup), and $55 \%$ took drugs for intestinal parasites during the pregnancy of their most recent birth in the 5 years preceding the survey (Table 9.3).

Among those who received ANC, about 6 in 10 women had a blood sample ( $61 \%$ ) and a urine sample $(62 \%)$ taken as a part of an ANC visit, while $91 \%$ had their blood pressure measured. Three-fourths of the women received information about signs of pregnancy complications during their ANC visits (76\%). For complete information on these components of ANC, see Table 9.3.

### 9.3 Protection against Neonatal Tetanus

## Protection against neonatal tetanus

The number of tetanus toxoid injections needed to protect a baby from neonatal tetanus depends on the mother's vaccinations. A birth is protected against neonatal tetanus if the mother has received any of the following:

- Two tetanus toxoid injections during that pregnancy
- Two or more injections, the last one within 3 years of the birth
- Three or more injections, the last one within 5 years of the birth
- Four or more injections, the last one within 10 years of the birth
- Five or more injections at any time prior to the birth

Sample: Last live births in the 5 years before the survey to women age 15-49

Tetanus toxoid vaccination for pregnant women has been part of the routine Expanded Program on Immunization (EPI) in Myanmar since 1978. It is usually provided by midwives during antenatal care visits.

The MDHS shows that $72 \%$ of women's most recent births in the 5 years before the survey were protected against neonatal tetanus (Table 9.4).

## Patterns by background characteristics

- First births are more likely to be protected against neonatal tetanus than sixth and higher order births (75\% versus 60\%)
- Women in urban areas are more likely to have their births protected against neonatal tetanus (81\%) than women in rural areas ( $69 \%$ ).
- The proportion of births protected against neonatal tetanus is lowest among women with no education ( $56 \%$ ) and those in the lowest wealth quintile ( $62 \%$ ) (Table 9.4).


### 9.4 Delivery Services

### 9.4.1 Institutional Deliveries

## Institutional deliveries

Deliveries that take place in a health facility
Sample: All live births in the 5 years before the survey

Access to health facilities in rural areas is more difficult than in urban areas because of distance, inaccessibility, and lack of appropriate facilities. Although institutional delivery has been promoted in Myanmar, home delivery is still common, mostly in hard-to-reach areas. The reproductive health programs in the country encourage use of skilled birth attendants wherever the delivery takes place. Even at home deliveries, it is highly recommended that skilled providers be present so that deliveries are clean and safe. The use of clean delivery kits and birth preparedness procedures is recommended.

The 2015-16 MDHS indicates that $37 \%$ of the live births in the 5 years preceding the survey were delivered in a health facility and $63 \%$ were delivered at home (Table 9.5).

## Patterns by background characteristics

- Sixth and higher order births are more likely to be delivered at home ( $84 \%$ ) than first births (44\%). Only $16 \%$ of higher order births take place in health facilities, compared with $55 \%$ of first births.
- Among live births in the 5 years preceding the survey, delivery in a health facility is about two and a half times higher in urban areas (70\%) than in rural areas (28\%).
- Institutional deliveries are more common among women with more than secondary education than those with no education ( $83 \%$ versus 13\%)
(Figure 9.2).

Figure 9.2 Institutional deliveries by education

Percentage of live births in the 5 years before the survey that were delivered in a health facility


- Institutional delivery is lowest in Chin State (15\%) followed by Rakhine State (19\%) (Figure 9.3).

Figure 9.3 Institutional deliveries by states and regions


### 9.4.2 Skilled Assistance during Delivery

## Skilled assistance during delivery

Births delivered with the assistance of doctors, nurses/midwives, or lady health visitors
Sample: All live births in the 5 years before the survey

In Myanmar, three-fifths of births are assisted by skilled providers ( $60 \%$ ) that include nurses, midwives, and doctors. Another 29\% of births are assisted by traditional birth attendants, $6 \%$ are assisted by auxiliary midwives, and $4 \%$ are assisted by relatives or friends (Table 9.6 and Figure 9.4).

## Patterns by background characteristics

- Skilled assistance declines sharply with birth order: Three-quarters of first births have skilled assistance ( $76 \%$ ), compared with only one-third of sixth or higher order births (33\%).
- Skilled assistance during delivery is much more common in urban areas ( $88 \%$ ) than rural areas ( $52 \%$ ). Three-fifths of urban deliveries ( $65 \%$ ) are

Figure 9.4 Delivery assistance
Percent distribution of births in the 5 years before the survey

assisted by doctors, whereas one-third of rural deliveries (35\%) are assisted by traditional birth attendants.

- Births to women with more than secondary education are three times ( $95 \%$ ) more likely to receive skilled assistance at delivery than those to women with no education (28\%).
- There are large differences by states and regions in the proportion of births assisted by skilled providers, ranging from $83 \%$ in Yangon Region to only $30 \%$ in Rakhine State.
- Births in the highest wealth quintile are almost three times more likely than those in lowest quintile to be assisted by skilled providers ( $97 \%$ versus 36\%) (Figure 9.5).


### 9.4.3 Delivery by Caesarean

Access to caesarean sections can reduce maternal and neonatal mortality and complications such as obstetric fistula. However, use of caesarean section without medical need can put women at risk of shortterm and long-term health problems. WHO advises that caesarean sections be done when medically necessary, but does not recommend a specific rate for countries to achieve at the population level. Research conducted by WHO has found that increases in countries' caesarean section rates up to $10 \%$ are associated with a decline in maternal and neonatal mortality. However, increases in caesarean section rates beyond $10 \%$ are not associated with reductions in maternal and newborn mortality rates (WHO 2015a). In Myanmar, the MDHS found a caesarean section rate of $17 \%$ of all births (Table 9.6).

## Patterns by background characteristics

- Caesarean section rates are higher for first births (27\%) than for those of higher orders.
- The cesarean section rate in urban areas is more than 3 times ( $36 \%$ ) that in rural areas ( $12 \%$ ).
- Births to women with more than secondary education are 13 times more likely to be delivered by caesarean section than those to women with no education ( $54 \%$ versus 4\%).


### 9.5 Postnatal Care

### 9.5.1 Postnatal Health Check for Mothers

The World Health Organization (WHO) recommends that women receive a postnatal health check within 24 hours after delivery (WHO 2015b). Fifty-seven percent of mothers with a live birth in the 2 years prior to the survey received a postnatal check-up within 24 hours after delivery. Overall, $71 \%$ of mothers receive postnatal check-ups in the first two days after delivery and $24 \%$ do not receive any postnatal check-up
(Table 9.7).

## Patterns by background characteristics

- Women who deliver in a health facility are more likely to receive a postnatal check-up than those who deliver elsewhere ( $89 \%$ versus $56 \%$ ).
- Women in urban areas are more likely to receive a postnatal check-up in the 2 days after delivery than women in rural areas (Figure 9.6).
- The proportion of women receiving postnatal check-ups in the 2 days after delivery varies widely by region, from a low of $21 \%$ in Chin State to a high of $92 \%$ in Magway Region.


## Type of Provider

Nearly three-fifths of the women giving birth in the 2 years before the survey ( $58 \%$ ) received postnatal care from doctors, nurses, midwives, or lady health visitors, while $10 \%$ received care from traditional birth attendants, and 3\% received care from auxiliary midwives (Table 9.8).

### 9.5.2 Postnatal Health Checks for Newborns

According to the World Health Organization (WHO), postnatal care services for newborns should start as soon as possible after birth because many neonatal deaths occur within the first 48 hours of life (WHO 2015b). In Myanmar, of last births in the 2 years preceding the survey only $36 \%$ received a postnatal checkup in the first 2 days after birth, while the majority of newborns ( $60 \%$ ) received no postnatal checkup in the first week after birth (Table 9.9).

## Patterns by background characteristics

- Postnatal check-ups for newborns are least common in Chin State (5\%) and most common in Kayah State and Nay Pyi Taw ( $62 \%$ each).
- Births to women with more than secondary education are more likely to receive a postnatal check-up in the first two days after birth than those to women with no education ( $44 \%$ and $29 \%$, respectively).


## Type of Provider

Twenty-eight percent of newborns receive a postnatal check-up within 2 days after birth from either a doctor, nurse, midwife, or lady health visitor, while $2 \%$ receive a check-up from an auxiliary midwife, and 7\% from traditional birth attendant (Table 9.10).

### 9.6 Problems in Accessing Health Care

Problems in accessing health care
Women were asked whether each of the following factors is a big problem or not in seeking medical advice or treatment for themselves when they are sick:

- Getting permission to go to the doctor
- Getting money for advice or treatment
- Distance to a health facility
- Not wanting to go alone

Sample: Women age 15-49

Many factors can prevent women from getting medical advice or treatment for themselves when they are sick. Information on such factors is particularly important in understanding and addressing the barriers women face in seeking care during pregnancy and at time of delivery.

Nearly half of women age 15-49 in Myanmar report having at least one of the specified problems in accessing health care. Among these problems, getting money for advice or treatment was the leading issue (34\%), followed by not wanting to go alone (31\%), and distance to a health facility ( $23 \%$ ).

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For more information on maternal health care, see the following tables:

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- Table 9.3 Components of antenatal care
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- Table 9.5 Place of delivery
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- Table 9.11 Problems in accessing health care


## Table 9.1 Antenatal care

Percent distribution of women age 15-49 who had a live birth in the 5 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, Myanmar DHS 2015-16

| Background characteristic | Antenatal care provider |  |  |  |  |  |  |  | Percentage receiving antenatal care from a skilled provider ${ }^{1}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Doctor | Nurse/ midwife/ LHV | Auxiliary midwife | Community/ village health worker | Traditional birth attendant | Other | No ANC | Total |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |  |
| <20 | 25.0 | 51.9 | 4.1 | 1.2 | 0.7 | 0.3 | 16.7 | 100.0 | 77.0 | 249 |
| 20-34 | 27.8 | 53.6 | 3.5 | 1.3 | 2.1 | 0.2 | 11.6 | 100.0 | 81.4 | 2,614 |
| 35-49 | 22.9 | 56.5 | 2.1 | 0.6 | 1.8 | 0.1 | 16.1 | 100.0 | 79.3 | 720 |
| Birth order |  |  |  |  |  |  |  |  |  |  |
| 1 | 38.4 | 50.3 | 3.3 | 0.8 | 0.3 | 0.2 | 6.6 | 100.0 | 88.8 | 1,235 |
| 2-3 | 25.6 | 56.0 | 2.9 | 1.5 | 2.2 | 0.2 | 11.5 | 100.0 | 81.7 | 1,531 |
| 4-5 | 11.6 | 58.5 | 4.1 | 0.9 | 4.5 | 0.0 | 20.3 | 100.0 | 70.2 | 531 |
| 6+ | 8.3 | 51.6 | 3.1 | 1.1 | 2.5 | 0.3 | 33.1 | 100.0 | 59.9 | 286 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 59.2 | 35.2 | 0.4 | 0.2 | 1.2 | 0.0 | 3.9 | 100.0 | 94.4 | 838 |
| Rural | 16.6 | 59.9 | 4.1 | 1.4 | 2.1 | 0.2 | 15.6 | 100.0 | 76.5 | 2,744 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |
| Kachin | 30.3 | 49.7 | 6.2 | 0.8 | 2.8 | 0.3 | 9.9 | 100.0 | 80.0 | 133 |
| Kayah | 47.3 | 46.0 | 0.4 | 0.0 | 0.7 | 0.0 | 5.7 | 100.0 | 93.3 | 24 |
| Kayin | 13.6 | 58.1 | 4.7 | 0.4 | 1.0 | 0.0 | 22.1 | 100.0 | 71.7 | 113 |
| Chin | 4.6 | 68.9 | 4.1 | 0.3 | 0.9 | 0.0 | 21.1 | 100.0 | 73.5 | 43 |
| Sagaing | 15.8 | 69.0 | 1.7 | 0.0 | 0.7 | 0.0 | 12.7 | 100.0 | 84.8 | 398 |
| Tanintharyi | 35.3 | 45.3 | 2.4 | 0.0 | 3.3 | 1.6 | 12.0 | 100.0 | 80.6 | 102 |
| Bago | 23.5 | 56.0 | 3.9 | 7.9 | 3.1 | 0.4 | 5.2 | 100.0 | 79.5 | 329 |
| Magway | 21.1 | 61.4 | 3.9 | 0.0 | 0.9 | 0.0 | 12.7 | 100.0 | 82.5 | 274 |
| Mandalay | 32.1 | 53.3 | 2.7 | 0.0 | 0.4 | 0.0 | 11.5 | 100.0 | 85.4 | 383 |
| Mon | 34.2 | 59.0 | 0.0 | 0.0 | 0.0 | 1.5 | 5.3 | 100.0 | 93.2 | 121 |
| Rakhine | 20.2 | 50.9 | 0.0 | 0.0 | 0.4 | 0.0 | 28.5 | 100.0 | 71.1 | 238 |
| Yangon | 55.9 | 38.6 | 0.0 | 0.0 | 1.3 | 0.0 | 4.2 | 100.0 | 94.6 | 387 |
| Shan | 26.8 | 41.3 | 3.5 | 2.9 | 1.1 | 0.0 | 24.4 | 100.0 | 68.1 | 459 |
| Ayeyarwady | 13.9 | 64.4 | 8.2 | 0.0 | 6.5 | 0.0 | 7.0 | 100.0 | 78.3 | 497 |
| Nay Pyi Taw | 35.0 | 43.9 | 1.4 | 0.0 | 0.0 | 0.5 | 19.2 | 100.0 | 78.9 | 83 |
| Education |  |  |  |  |  |  |  |  |  |  |
| No education | 11.2 | 44.9 | 4.0 | 2.4 | 1.5 | 0.0 | 36.1 | 100.0 | 56.1 | 587 |
| Primary | 17.0 | 63.1 | 3.3 | 1.2 | 2.6 | 0.3 | 12.5 | 100.0 | 80.1 | 1,629 |
| Secondary | 38.0 | 51.8 | 3.6 | 0.6 | 1.7 | 0.1 | 4.2 | 100.0 | 89.8 | 1,069 |
| More than secondary | 68.5 | 31.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.1 | 100.0 | 99.5 | 298 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 7.6 | 59.5 | 4.3 | 0.7 | 4.0 | 0.2 | 23.6 | 100.0 | 67.1 | 981 |
| Second | 16.4 | 58.7 | 5.3 | 2.8 | 2.1 | 0.4 | 14.4 | 100.0 | 75.0 | 787 |
| Middle | 22.8 | 61.0 | 2.8 | 0.9 | 1.0 | 0.0 | 11.5 | 100.0 | 83.8 | 624 |
| Fourth | 33.9 | 56.4 | 2.2 | 0.7 | 1.1 | 0.1 | 5.6 | 100.0 | 90.4 | 638 |
| Highest | 70.8 | 27.3 | 0.2 | 0.3 | 0.0 | 0.1 | 1.4 | 100.0 | 98.1 | 552 |
| Total | 26.6 | 54.1 | 3.3 | 1.1 | 1.9 | 0.2 | 12.8 | 100.0 | 80.7 | 3,583 |

Note: If more than one source of ANC was mentioned, only the provider with the highest qualifications is considered in this tabulation.
${ }^{1}$ Skilled provider includes doctor, nurse, midwife, and lady health visitor (LHV).

Table 9.2 Number of antenatal care visits and timing of first visit
Percent distribution of women age 15-49 who had a live birth in the 5 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, Myanmar DHS 2015-16

|  | Residence |  |  |
| :--- | ---: | ---: | ---: |
| Number and timing of ANC visits | Urban | Rural | Total |
| Number of ANC visits |  |  |  |
| None | 3.9 | 15.6 | 12.8 |
| 1 | 1.9 | 4.7 | 4.0 |
| 2-3 | 9.4 | 28.4 | 23.9 |
| 4+ | 04.2 | 50.8 | 58.6 |
| Don't know/missing | 0.7 | 0.6 | 0.6 |
| Total | 100.0 | 100.0 | 100.0 |
| Number of months pregnant at time |  |  |  |
| of first ANC visit |  |  |  |
| No antenatal care | 3.9 | 15.6 | 12.8 |
| <4 | 40.9 | 39.6 | 39.9 |
| 4-5 | 36.7 | 27.5 | 29.7 |
| 6-7 | 16.7 | 13.3 | 14.1 |
| 8+ | 1.6 | 3.5 | 3.1 |
| Don't know/missing | 0.1 | 0.5 | 0.4 |
| Total | 100.0 | 100.0 | 100.0 |
| Number of women | 838 | 2,744 | 3,583 |
| Median months pregnant at first visit |  |  |  |
| $\quad$ for those with ANC) | 4.4 | 4.2 | 4.2 |
| Number of women with ANC | 806 | 2,317 | 3,123 |

Table 9.3 Components of antenatal care
Among women age 15-49 with a live birth in the 5 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 5 years preceding the survey, the percentage receiving specific antenatal services, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Among women with a live birth in the past 5 years, the percentage who during the pregnancy of their last birth: |  |  | Among women who received antenatal care for their most recent birth in the 5 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 5 years | Informed of signs of pregnancy complications | Blood pressure measured | Urine sample taken | Blood sample taken | Number of women with ANC for their most recent birth |
| Mother's age at birth |  |  |  |  |  |  |  |  |
| <20 | 79.9 | 45.3 | 249 | 67.2 | 87.9 | 57.5 | 50.8 | 207 |
| 20-34 | 88.9 | 57.2 | 2,614 | 77.6 | 91.9 | 62.0 | 62.3 | 2,311 |
| 35-49 | 84.6 | 51.9 | 720 | 75.3 | 88.6 | 62.3 | 59.5 | 605 |
| Birth order |  |  |  |  |  |  |  |  |
| 1 | 91.4 | 57.3 | 1,235 | 78.9 | 93.9 | 66.0 | 67.7 | 1,153 |
| 2-3 | 89.6 | 56.7 | 1,531 | 77.0 | 91.1 | 63.3 | 60.5 | 1,355 |
| 4-5 | 81.6 | 51.7 | 531 | 71.1 | 86.0 | 50.4 | 49.5 | 423 |
| 6+ | 69.1 | 46.0 | 286 | 69.8 | 83.3 | 50.0 | 49.8 | 191 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 94.8 | 59.8 | 838 | 85.5 | 97.6 | 85.7 | 86.3 | 806 |
| Rural | 85.1 | 54.0 | 2,744 | 73.3 | 88.7 | 53.4 | 52.2 | 2,317 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | 92.6 | 59.0 | 133 | 71.6 | 93.1 | 60.1 | 64.9 | 119 |
| Kayah | 92.5 | 63.3 | 24 | 79.3 | 96.6 | 77.6 | 75.0 | 22 |
| Kayin | 82.2 | 51.7 | 113 | 80.9 | 95.6 | 74.8 | 81.8 | 88 |
| Chin | 74.4 | 46.9 | 43 | 76.5 | 85.2 | 43.2 | 35.6 | 34 |
| Sagaing | 89.8 | 58.6 | 398 | 69.2 | 89.9 | 62.6 | 58.5 | 347 |
| Tanintharyi | 88.4 | 63.0 | 102 | 71.9 | 90.7 | 53.1 | 61.0 | 89 |
| Bago | 93.2 | 60.7 | 329 | 73.1 | 86.1 | 59.6 | 61.2 | 312 |
| Magway | 88.3 | 52.1 | 274 | 82.7 | 90.6 | 54.8 | 61.7 | 239 |
| Mandalay | 88.4 | 43.8 | 383 | 73.4 | 96.0 | 68.4 | 64.6 | 339 |
| Mon | 92.2 | 65.3 | 121 | 69.5 | 95.4 | 62.2 | 68.4 | 115 |
| Rakhine | 76.5 | 48.6 | 238 | 72.5 | 81.6 | 35.8 | 32.9 | 170 |
| Yangon | 97.0 | 66.8 | 387 | 89.9 | 97.8 | 87.8 | 81.9 | 371 |
| Shan | 71.1 | 39.0 | 459 | 77.9 | 93.4 | 57.1 | 62.0 | 347 |
| Ayeyarwady | 91.8 | 65.8 | 497 | 76.4 | 86.4 | 54.5 | 47.4 | 463 |
| Nay Pyi Taw | 90.2 | 52.5 | 83 | 70.8 | 85.2 | 54.0 | 58.3 | 67 |
| Education |  |  |  |  |  |  |  |  |
| No education | 63.8 | 39.5 | 587 | 65.0 | 85.5 | 46.5 | 47.8 | 375 |
| Primary | 89.1 | 58.4 | 1,629 | 74.4 | 89.3 | 55.8 | 54.2 | 1,426 |
| Secondary | 94.9 | 59.7 | 1,069 | 80.4 | 93.1 | 69.5 | 68.4 | 1,024 |
| More than secondary | 97.3 | 54.0 | 298 | 87.2 | 98.9 | 82.3 | 85.1 | 298 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 78.6 | 52.6 | 981 | 71.7 | 83.9 | 45.5 | 43.8 | 750 |
| Second | 84.6 | 52.6 | 787 | 72.2 | 88.0 | 54.6 | 54.6 | 674 |
| Middle | 89.8 | 59.8 | 624 | 75.7 | 92.0 | 59.8 | 60.5 | 553 |
| Fourth | 95.2 | 59.7 | 638 | 79.2 | 95.9 | 72.0 | 69.3 | 602 |
| Highest | 95.3 | 53.9 | 552 | 86.0 | 98.0 | 83.6 | 83.9 | 544 |
| Total | 87.4 | 55.3 | 3,583 | 76.4 | 91.0 | 61.7 | 61.0 | 3,123 |

Table 9.4 Tetanus toxoid injections
Among mothers age 15-49 with a live birth in the 5 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, Myanmar DHS 2015-16

| Background characteristic | Percentage receiving two or more injections during last pregnancy | Percentage whose last birth was protected against neonatal tetanus ${ }^{1}$ | Number of mothers |
| :---: | :---: | :---: | :---: |
| Mother's age at birth |  |  |  |
| <20 | 62.5 | 63.1 | 249 |
| 20-34 | 70.3 | 72.4 | 2,614 |
| 35-49 | 70.9 | 73.0 | 720 |
| Birth order |  |  |  |
| 1 | 73.5 | 75.2 | 1,235 |
| 2-3 | 71.2 | 73.4 | 1,531 |
| 4-5 | 63.9 | 65.9 | 531 |
| $6+$ | 58.4 | 60.3 | 286 |
| Residence |  |  |  |
| Urban | 79.9 | 80.5 | 838 |
| Rural | 66.9 | 69.2 | 2,744 |
| States/Regions |  |  |  |
| Kachin | 77.9 | 80.2 | 133 |
| Kayah | 74.8 | 75.9 | 24 |
| Kayin | 65.8 | 67.3 | 113 |
| Chin | 68.5 | 69.1 | 43 |
| Sagaing | 65.2 | 67.7 | 398 |
| Tanintharyi | 67.8 | 68.9 | 102 |
| Bago | 68.8 | 72.6 | 329 |
| Magway | 64.7 | 66.5 | 274 |
| Mandalay | 77.2 | 78.6 | 383 |
| Mon | 79.2 | 83.5 | 121 |
| Rakhine | 72.7 | 74.1 | 238 |
| Yangon | 84.2 | 84.6 | 387 |
| Shan | 55.7 | 57.9 | 459 |
| Ayeyarwady | 69.2 | 71.0 | 497 |
| Nay Pyi Taw | 69.7 | 72.2 | 83 |
| Education |  |  |  |
| No education | 54.5 | 55.5 | 587 |
| Primary | 67.3 | 69.8 | 1,629 |
| Secondary | 78.9 | 80.7 | 1,069 |
| More than secondary | 82.2 | 84.1 | 298 |
| Wealth quintile |  |  |  |
| Lowest | 60.4 | 62.3 | 981 |
| Second | 67.2 | 70.1 | 787 |
| Middle | 72.4 | 74.1 | 624 |
| Fourth | 77.0 | 78.5 | 638 |
| Highest | 79.8 | 81.3 | 552 |
| Total | 69.9 | 71.9 | 3,583 |

${ }^{1}$ Includes mothers with two injections during the pregnancy of her 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.

Table 9.5 Place of delivery
Percent distribution of live births in the 5 years preceding the survey by place of delivery and percentage delivered in a health facility, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Health facility |  |  | Home | Other | Total | Percentage delivered in a health facility | Number of births |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Public sector | Private sector | NGO sector |  |  |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |  |
| <20 | 26.9 | 4.4 | 0.0 | 68.1 | 0.6 | 100.0 | 31.4 | 345 |
| 20-34 | 30.6 | 6.6 | 0.0 | 62.5 | 0.3 | 100.0 | 37.3 | 3,153 |
| 35-49 | 32.7 | 6.0 | 0.0 | 61.3 | 0.0 | 100.0 | 38.7 | 789 |
| Birth order |  |  |  |  |  |  |  |  |
| 1 | 45.3 | 10.1 | 0.0 | 44.4 | 0.2 | 100.0 | 55.4 | 1,509 |
| 2-3 | 27.0 | 5.6 | 0.0 | 67.2 | 0.2 | 100.0 | 32.6 | 1,789 |
| 4-5 | 15.4 | 2.3 | 0.1 | 81.5 | 0.7 | 100.0 | 17.8 | 635 |
| $6+$ | 14.3 | 1.4 | 0.1 | 84.1 | 0.0 | 100.0 | 15.9 | 352 |
| Antenatal care visits ${ }^{1}$ |  |  |  |  |  |  |  |  |
| None | 6.2 | 0.3 | 0.0 | 92.9 | 0.6 | 100.0 | 6.5 | 460 |
| 1-3 | 24.2 | 2.3 | 0.0 | 73.0 | 0.5 | 100.0 | 26.5 | 1,002 |
| 4+ | 44.1 | 10.6 | 0.0 | 45.2 | 0.1 | 100.0 | 54.7 | 2,099 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 52.7 | 17.4 | 0.0 | 29.7 | 0.2 | 100.0 | 70.1 | 953 |
| Rural | 24.4 | 3.2 | 0.0 | 72.1 | 0.3 | 100.0 | 27.6 | 3,333 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | 22.6 | 6.9 | 0.0 | 70.5 | 0.0 | 100.0 | 29.5 | 168 |
| Kayah | 28.4 | 0.5 | 0.0 | 70.5 | 0.5 | 100.0 | 29.0 | 32 |
| Kayin | 24.6 | 11.6 | 0.6 | 62.1 | 1.2 | 100.0 | 36.8 | 147 |
| Chin | 13.2 | 1.4 | 0.0 | 85.3 | 0.0 | 100.0 | 14.7 | 65 |
| Sagaing | 31.4 | 2.5 | 0.0 | 66.1 | 0.0 | 100.0 | 33.9 | 474 |
| Tanintharyi | 33.4 | 4.1 | 0.0 | 62.4 | 0.0 | 100.0 | 37.6 | 133 |
| Bago | 30.9 | 8.4 | 0.0 | 60.5 | 0.2 | 100.0 | 39.3 | 373 |
| Magway | 33.4 | 4.1 | 0.0 | 61.7 | 0.8 | 100.0 | 37.5 | 310 |
| Mandalay | 33.8 | 13.0 | 0.0 | 53.2 | 0.0 | 100.0 | 46.8 | 431 |
| Mon | 29.1 | 7.9 | 0.0 | 62.6 | 0.4 | 100.0 | 37.0 | 144 |
| Rakhine | 18.7 | 0.5 | 0.0 | 80.8 | 0.0 | 100.0 | 19.2 | 303 |
| Yangon | 54.0 | 11.4 | 0.0 | 34.6 | 0.0 | 100.0 | 65.4 | 435 |
| Shan | 22.6 | 5.0 | 0.0 | 71.9 | 0.5 | 100.0 | 27.6 | 607 |
| Ayeyarwady | 29.7 | 4.3 | 0.0 | 65.8 | 0.2 | 100.0 | 34.0 | 567 |
| Nay Pyi Taw | 28.5 | 7.3 | 0.0 | 64.2 | 0.0 | 100.0 | 35.8 | 96 |
| Mother's education |  |  |  |  |  |  |  |  |
| No education | 11.9 | 0.8 | 0.1 | 86.8 | 0.4 | 100.0 | 12.8 | 789 |
| Primary | 26.4 | 2.8 | 0.0 | 70.4 | 0.3 | 100.0 | 29.3 | 1,963 |
| Secondary | 44.5 | 8.9 | 0.0 | 46.5 | 0.1 | 100.0 | 53.4 | 1,212 |
| More than secondary | 51.0 | 31.6 | 0.0 | 17.4 | 0.0 | 100.0 | 82.6 | 322 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 15.3 | 1.5 | 0.0 | 83.0 | 0.2 | 100.0 | 16.8 | 1,277 |
| Second | 23.5 | 2.0 | 0.0 | 74.1 | 0.4 | 100.0 | 25.5 | 965 |
| Middle | 33.2 | 3.9 | 0.1 | 62.3 | 0.5 | 100.0 | 37.2 | 721 |
| Fourth | 45.2 | 4.9 | 0.0 | 49.9 | 0.0 | 100.0 | 50.1 | 716 |
| Highest | 54.5 | 28.0 | 0.0 | 17.4 | 0.1 | 100.0 | 82.5 | 608 |
| Total | 30.7 | 6.3 | 0.0 | 62.7 | 0.2 | 100.0 | 37.1 | 4,286 |

${ }^{1}$ Includes only the most recent birth in the 5 years preceding the survey. Total includes 22 cases with missing information on antenatal care visits.

Table 9.6 Assistance during delivery
Percent distribution of live births in the 5 years preceding the survey by person providing assistance during delivery, percentage of births assisted by a skilled provider, and percentage of births delivered by caesarean section, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Person providing assistance during delivery |  |  |  |  |  |  | Percentage delivered by a skilled provider ${ }^{1}$ | Percentage delivered by Csection | Number of births |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Doctor | Nurse/ midwife/ LHV | Auxiliary midwife | Traditional birth attendant | Relative/ other | No one | Total |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |  |
| <20 | 24.6 | 32.9 | 5.7 | 31.5 | 5.3 | 0.0 | 100.0 | 57.4 | 7.8 | 345 |
| 20-34 | 31.9 | 28.6 | 6.3 | 28.9 | 3.8 | 0.5 | 100.0 | 60.5 | 17.2 | 3,153 |
| 35-49 | 34.0 | 26.3 | 6.0 | 29.4 | 3.3 | 1.0 | 100.0 | 60.3 | 20.4 | 789 |
| Birth order |  |  |  |  |  |  |  |  |  |  |
| 1 | 47.6 | 28.3 | 4.6 | 16.7 | 2.8 | 0.0 | 100.0 | 75.9 | 26.7 | 1,509 |
| 2-3 | 27.6 | 31.6 | 7.5 | 30.4 | 2.7 | 0.3 | 100.0 | 59.2 | 14.6 | 1,789 |
| 4-5 | 15.1 | 25.8 | 7.0 | 44.3 | 6.6 | 1.2 | 100.0 | 40.9 | 6.8 | 635 |
| $6+$ | 14.1 | 18.7 | 4.8 | 49.7 | 9.3 | 3.4 | 100.0 | 32.8 | 6.8 | 352 |
| Antenatal care visits ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| None | 5.7 | 10.7 | 4.8 | 66.8 | 9.7 | 2.2 | 100.0 | 16.4 | 1.5 | 460 |
| 1-3 | 21.5 | 30.4 | 8.1 | 35.6 | 3.9 | 0.5 | 100.0 | 51.8 | 11.7 | 1,002 |
| $4+$ | 47.8 | 31.4 | 5.4 | 14.0 | 1.3 | 0.0 | 100.0 | 79.2 | 27.0 | 2,099 |
| Place of delivery |  |  |  |  |  |  |  |  |  |  |
| Health facility | 83.4 | 15.9 | 0.5 | 0.2 | 0.1 | 0.0 | 100.0 | 99.2 | 46.1 | 1,588 |
| Elsewhere | 1.3 | 36.0 | 9.6 | 46.3 | 6.0 | 0.9 | 100.0 | 37.2 | 0.0 | 2,699 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 64.6 | 23.3 | 1.8 | 9.1 | 1.1 | 0.1 | 100.0 | 87.8 | 35.9 | 953 |
| Rural | 22.3 | 30.0 | 7.5 | 35.0 | 4.6 | 0.7 | 100.0 | 52.3 | 11.7 | 3,333 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |
| Kachin | 25.9 | 37.8 | 6.6 | 26.6 | 2.5 | 0.5 | 100.0 | 63.7 | 12.9 | 168 |
| Kayah | 33.4 | 19.8 | 6.0 | 21.9 | 18.3 | 0.5 | 100.0 | 53.2 | 15.1 | 32 |
| Kayin | 20.0 | 29.6 | 5.7 | 44.1 | 0.6 | 0.0 | 100.0 | 49.6 | 9.5 | 147 |
| Chin | 11.1 | 24.4 | 15.9 | 10.3 | 37.0 | 1.2 | 100.0 | 35.6 | 6.1 | 65 |
| Sagaing | 29.8 | 35.5 | 8.3 | 25.2 | 1.2 | 0.0 | 100.0 | 65.3 | 19.4 | 474 |
| Tanintharyi | 28.9 | 36.4 | 7.5 | 24.7 | 2.5 | 0.0 | 100.0 | 65.3 | 13.4 | 133 |
| Bago | 31.2 | 31.7 | 9.9 | 26.8 | 0.4 | 0.0 | 100.0 | 62.9 | 21.8 | 373 |
| Magway | 32.2 | 36.2 | 6.8 | 18.9 | 4.8 | 1.2 | 100.0 | 68.4 | 21.5 | 310 |
| Mandalay | 43.9 | 34.7 | 6.8 | 13.8 | 0.8 | 0.0 | 100.0 | 78.7 | 25.1 | 431 |
| Mon | 32.8 | 34.0 | 7.5 | 22.8 | 2.9 | 0.0 | 100.0 | 66.8 | 15.1 | 144 |
| Rakhine | 16.2 | 13.5 | 1.2 | 66.7 | 2.4 | 0.0 | 100.0 | 29.7 | 9.3 | 303 |
| Yangon | 60.5 | 22.1 | 1.8 | 14.1 | 1.5 | 0.0 | 100.0 | 82.5 | 25.8 | 435 |
| Shan | 26.4 | 20.3 | 6.2 | 32.0 | 12.0 | 3.0 | 100.0 | 46.7 | 10.4 | 607 |
| Ayeyarwady | 21.4 | 28.6 | 5.7 | 42.9 | 1.3 | 0.0 | 100.0 | 50.0 | 14.2 | 567 |
| Nay Pyi Taw | 41.5 | 25.0 | 5.5 | 25.6 | 1.3 | 1.2 | 100.0 | 66.5 | 16.2 | 96 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |
| No education | 11.3 | 16.7 | 6.1 | 51.5 | 11.9 | 2.4 | 100.0 | 28.0 | 4.2 | 789 |
| Primary | 23.1 | 32.9 | 7.1 | 34.2 | 2.5 | 0.2 | 100.0 | 56.0 | 11.6 | 1,963 |
| Secondary | 46.6 | 32.1 | 5.7 | 13.8 | 1.6 | 0.1 | 100.0 | 78.7 | 24.5 | 1,212 |
| More than secondary | 77.1 | 17.6 | 2.7 | 2.4 | 0.2 | 0.0 | 100.0 | 94.8 | 54.2 | 322 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 10.7 | 25.6 | 6.4 | 50.8 | 5.5 | 1.0 | 100.0 | 36.3 | 5.1 | 1,277 |
| Second | 19.2 | 31.5 | 8.1 | 36.5 | 4.2 | 0.5 | 100.0 | 50.7 | 10.6 | 965 |
| Middle | 32.7 | 32.0 | 7.3 | 23.5 | 3.7 | 0.8 | 100.0 | 64.7 | 17.1 | 721 |
| Fourth | 44.6 | 35.0 | 6.4 | 10.6 | 3.1 | 0.3 | 100.0 | 79.6 | 22.8 | 716 |
| Highest | 78.9 | 18.1 | 1.4 | 1.0 | 0.6 | 0.0 | 100.0 | 97.0 | 45.6 | 608 |
| Total | 31.7 | 28.5 | 6.2 | 29.2 | 3.8 | 0.6 | 100.0 | 60.2 | 17.1 | 4,286 |

Note: If the respondent mentioned more than one person attending during delivery, only the most qualified person is considered in this tabulation.
${ }^{1}$ Skilled provider includes doctor, nurse, midwife, and lady health visitor (LHV).
${ }^{2}$ Includes only the most recent birth in the 5 years preceding the survey. Total includes 22 cases with missing information on antenatal care visits.

Table 9.7 Timing of first postnatal checkup for the mother
Among women age 15-49 giving birth in the 2 years preceding the survey, the percent distribution of the mother's first postnatal check-up for the last live birth by time after delivery, and the percentage of women with a live birth in the 2 years preceding the survey who received a postnatal checkup in the first 2 days after giving birth, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Time after delivery of mother's first postnatal checkup |  |  |  |  |  | No postnatal checkup ${ }^{1}$ | Total | Percentage of women with a postnatal checkup in the first 2 days after birth | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Less than 4 hours | $\begin{gathered} 4-23 \\ \text { hours } \end{gathered}$ | 1-2 days | 3-6 days | 7-41 days | Don't know/ missing |  |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |  |
| <20 | 37.3 | 12.9 | 16.4 | 5.2 | 0.0 | 0.0 | 28.2 | 100.0 | 66.6 | 125 |
| 20-34 | 45.2 | 12.3 | 13.5 | 3.2 | 2.1 | 0.4 | 23.4 | 100.0 | 71.0 | 1,226 |
| 35-49 | 47.2 | 10.7 | 15.9 | 1.0 | 2.0 | 0.1 | 23.0 | 100.0 | 73.8 | 318 |
| Birth order |  |  |  |  |  |  |  |  |  |  |
| 1 | 51.7 | 14.3 | 12.5 | 1.8 | 1.7 | 0.3 | 17.7 | 100.0 | 78.5 | 612 |
| 2-3 | 44.2 | 11.5 | 13.5 | 4.1 | 2.1 | 0.4 | 24.2 | 100.0 | 69.2 | 719 |
| 4-5 | 35.3 | 9.1 | 18.1 | 3.9 | 1.2 | 0.0 | 32.4 | 100.0 | 62.5 | 226 |
| 6+ | 33.2 | 8.8 | 19.1 | 0.0 | 2.8 | 0.4 | 35.7 | 100.0 | 61.1 | 113 |
| Place of delivery |  |  |  |  |  |  |  |  |  |  |
| Health facility | 63.4 | 15.0 | 10.9 | 0.7 | 1.4 | 0.4 | 8.2 | 100.0 | 89.3 | 755 |
| Elsewhere | 29.8 | 9.5 | 16.9 | 4.8 | 2.3 | 0.2 | 36.5 | 100.0 | 56.2 | 914 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 52.3 | 13.8 | 15.0 | 1.0 | 2.5 | 0.3 | 15.2 | 100.0 | 81.1 | 419 |
| Rural | 42.5 | 11.4 | 13.9 | 3.6 | 1.7 | 0.3 | 26.5 | 100.0 | 67.8 | 1,250 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |
| Kachin | 33.0 | 4.0 | 24.8 | 7.7 | 0.7 | 1.5 | 28.2 | 100.0 | 61.9 | 56 |
| Kayah | 62.0 | 2.7 | 4.9 | 2.8 | 6.2 | 0.0 | 21.3 | 100.0 | 69.7 | 12 |
| Kayin | 46.6 | 9.0 | 9.5 | 2.1 | 0.0 | 0.7 | 32.1 | 100.0 | 65.2 | 66 |
| Chin | 9.6 | 2.2 | 9.3 | 5.3 | 10.9 | 0.0 | 62.8 | 100.0 | 21.0 | 24 |
| Sagaing | 33.3 | 7.0 | 34.1 | 7.4 | 4.6 | 0.7 | 12.9 | 100.0 | 74.4 | 172 |
| Tanintharyi | 57.9 | 15.3 | 13.6 | 0.0 | 0.9 | 0.0 | 12.2 | 100.0 | 86.9 | 48 |
| Bago | 21.7 | 32.1 | 26.2 | 3.2 | 2.0 | 0.0 | 14.8 | 100.0 | 80.0 | 135 |
| Magway | 73.5 | 11.8 | 6.9 | 0.9 | 0.0 | 0.0 | 6.8 | 100.0 | 92.3 | 119 |
| Mandalay | 41.6 | 19.7 | 17.8 | 2.7 | 3.4 | 0.0 | 14.7 | 100.0 | 79.1 | 183 |
| Mon | 64.0 | 7.3 | 3.9 | 1.0 | 1.0 | 0.8 | 22.0 | 100.0 | 75.2 | 59 |
| Rakhine | 27.1 | 16.3 | 10.9 | 3.3 | 2.2 | 0.0 | 40.3 | 100.0 | 54.2 | 121 |
| Yangon | 60.1 | 6.3 | 12.3 | 1.9 | 0.0 | 0.0 | 19.3 | 100.0 | 78.8 | 193 |
| Shan | 40.7 | 7.3 | 4.6 | 3.3 | 2.2 | 0.0 | 41.9 | 100.0 | 52.7 | 232 |
| Ayeyarwady | 50.2 | 10.9 | 9.7 | 1.4 | 0.9 | 0.9 | 26.0 | 100.0 | 70.8 | 217 |
| Nay Pyi Taw | 75.1 | 5.0 | 3.8 | 0.0 | 0.8 | 0.0 | 15.3 | 100.0 | 83.9 | 32 |
| Education |  |  |  |  |  |  |  |  |  |  |
| No education | 30.4 | 8.3 | 8.9 | 3.4 | 2.4 | 0.3 | 46.2 | 100.0 | 47.6 | 264 |
| Primary | 43.9 | 12.0 | 16.3 | 3.4 | 0.9 | 0.3 | 23.2 | 100.0 | 72.2 | 730 |
| Secondary | 49.5 | 11.8 | 15.3 | 2.7 | 2.6 | 0.4 | 17.7 | 100.0 | 76.5 | 532 |
| More than secondary | 60.6 | 19.6 | 9.0 | 0.8 | 3.1 | 0.0 | 6.8 | 100.0 | 89.2 | 143 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 35.3 | 9.9 | 12.9 | 4.4 | 1.7 | 0.1 | 35.9 | 100.0 | 58.0 | 444 |
| Second | 41.5 | 10.1 | 15.0 | 4.7 | 2.2 | 0.6 | 26.0 | 100.0 | 66.5 | 367 |
| Middle | 46.5 | 14.3 | 16.2 | 2.1 | 0.6 | 0.6 | 19.6 | 100.0 | 77.1 | 286 |
| Fourth | 46.0 | 13.2 | 15.4 | 2.2 | 2.6 | 0.0 | 20.5 | 100.0 | 74.7 | 303 |
| Highest | 63.0 | 14.4 | 11.7 | 0.1 | 2.3 | 0.2 | 8.4 | 100.0 | 89.0 | 270 |
| Total | 45.0 | 12.0 | 14.2 | 3.0 | 1.9 | 0.3 | 23.7 | 100.0 | 71.2 | 1,669 |

[^13]Table 9.8 Type of provider of first postnatal checkup for the mother
Among women age 15-49 giving birth in the 2 years preceding the survey, the percent distribution by type of provider of the mother's first postnatal health check in the 2 days after the last live birth, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Type of health provider of mother's first postnatal checkup |  |  |  | No postnatal checkup in the first 2 days after birth | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Doctor/ nurse/ midwife/LHV | Auxiliary midwife | Community health worker | Traditional birth attendant |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |
| <20 | 53.0 | 6.0 | 1.5 | 6.1 | 33.4 | 100.0 | 125 |
| 20-34 | 57.3 | 2.9 | 0.1 | 10.5 | 29.0 | 100.0 | 1,226 |
| 35-49 | 64.0 | 2.1 | 0.0 | 7.7 | 26.2 | 100.0 | 318 |
| Birth order |  |  |  |  |  |  |  |
| 1 | 69.9 | 2.4 | 0.6 | 5.7 | 21.5 | 100.0 | 612 |
| 2-3 | 57.2 | 3.2 | 0.0 | 8.9 | 30.8 | 100.0 | 719 |
| 4-5 | 41.0 | 4.4 | 0.0 | 17.2 | 37.5 | 100.0 | 226 |
| $6+$ | 37.0 | 2.9 | 0.0 | 21.2 | 38.9 | 100.0 | 113 |
| Place of delivery |  |  |  |  |  |  |  |
| Health facility | 88.7 | 0.4 | 0.2 | 0.0 | 10.7 | 100.0 | 755 |
| Elsewhere | 33.1 | 5.2 | 0.2 | 17.6 | 43.8 | 100.0 | 914 |
| Residence |  |  |  |  |  |  |  |
| Urban | 77.7 | 0.7 | 0.5 | 2.2 | 18.9 | 100.0 | 419 |
| Rural | 51.8 | 3.8 | 0.1 | 12.2 | 32.2 | 100.0 | 1,250 |
| States/Regions |  |  |  |  |  |  |  |
| Kachin | 52.2 | 3.9 | 0.4 | 5.4 | 38.1 | 100.0 | 56 |
| Kayah | 61.4 | 5.5 | 0.0 | 2.7 | 30.3 | 100.0 | 12 |
| Kayin | 44.7 | 3.4 | 0.0 | 17.0 | 34.8 | 100.0 | 66 |
| Chin | 19.3 | 1.1 | 0.6 | 0.0 | 79.0 | 100.0 | 24 |
| Sagaing | 55.4 | 6.6 | 0.0 | 12.4 | 25.6 | 100.0 | 172 |
| Tanintharyi | 69.4 | 6.1 | 0.0 | 11.4 | 13.1 | 100.0 | 48 |
| Bago | 61.7 | 5.2 | 1.1 | 12.0 | 20.0 | 100.0 | 135 |
| Magway | 81.7 | 2.6 | 0.0 | 8.0 | 7.7 | 100.0 | 119 |
| Mandalay | 74.5 | 3.7 | 0.0 | 0.9 | 20.9 | 100.0 | 183 |
| Mon | 63.3 | 4.8 | 0.0 | 7.1 | 24.8 | 100.0 | 59 |
| Rakhine | 31.9 | 1.4 | 0.0 | 21.0 | 45.8 | 100.0 | 121 |
| Yangon | 68.7 | 0.0 | 1.0 | 9.1 | 21.2 | 100.0 | 193 |
| Shan | 43.4 | 2.0 | 0.0 | 7.2 | 47.3 | 100.0 | 232 |
| Ayeyarwady | 56.2 | 1.8 | 0.0 | 12.8 | 29.2 | 100.0 | 217 |
| Nay Pyi Taw | 78.9 | 2.5 | 0.0 | 2.5 | 16.1 | 100.0 | 32 |
| Education |  |  |  |  |  |  |  |
| No education | 27.7 | 2.7 | 0.1 | 17.1 | 52.4 | 100.0 | 264 |
| Primary | 56.2 | 3.6 | 0.5 | 11.9 | 27.8 | 100.0 | 730 |
| Secondary | 68.3 | 3.1 | 0.0 | 5.2 | 23.5 | 100.0 | 532 |
| More than secondary | 88.0 | 0.3 | 0.0 | 0.9 | 10.8 | 100.0 | 143 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 37.8 | 4.2 | 0.0 | 16.1 | 42.0 | 100.0 | 444 |
| Second | 48.8 | 1.9 | 0.4 | 15.4 | 33.5 | 100.0 | 367 |
| Middle | 64.6 | 4.4 | 0.1 | 8.0 | 22.9 | 100.0 | 286 |
| Fourth | 67.6 | 3.2 | 0.6 | 3.3 | 25.3 | 100.0 | 303 |
| Highest | 87.7 | 1.0 | 0.0 | 0.3 | 11.0 | 100.0 | 270 |
| Total | 58.3 | 3.0 | 0.2 | 9.7 | 28.8 | 100.0 | 1,669 |

LHV = lady health visitor

Table 9.9 Timing of first postnatal checkup for the newborn
Percent distribution of last births in the 2 years preceding the survey by time after birth of first postnatal checkup, and the percentage of births with a postnatal checkup in the first 2 days after birth, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Time after birth of newborn's first postnatal checkup |  |  |  |  |  | No postnatal checkup ${ }^{1}$ | Total | Percentage of births with a postnatal checkup in the first 2 days after birth | Number of births |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Less than 1 hour | 1-3 hours | 4-23 hours | 1-2 days | 3-6 days | know/ missing |  |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |  |
| <20 | 6.8 | 11.9 | 8.2 | 6.9 | 4.9 | 0.0 | 61.4 | 100.0 | 33.7 | 125 |
| 20-34 | 11.2 | 12.7 | 6.4 | 6.9 | 3.4 | 0.4 | 59.1 | 100.0 | 37.1 | 1,226 |
| 35-49 | 11.2 | 10.5 | 4.5 | 8.5 | 1.9 | 0.7 | 62.8 | 100.0 | 34.7 | 318 |
| Birth order |  |  |  |  |  |  |  |  |  |  |
| 1 | 12.5 | 14.5 | 7.7 | 5.8 | 2.5 | 0.2 | 56.7 | 100.0 | 40.6 | 612 |
| 2-3 | 8.7 | 12.0 | 5.8 | 6.5 | 4.0 | 0.6 | 62.3 | 100.0 | 33.1 | 719 |
| 4-5 | 12.0 | 9.4 | 5.3 | 10.8 | 3.8 | 0.7 | 57.9 | 100.0 | 37.6 | 226 |
| $6+$ | 12.7 | 6.5 | 1.7 | 11.3 | 1.0 | 0.4 | 66.4 | 100.0 | 32.2 | 113 |
| Place of delivery |  |  |  |  |  |  |  |  |  |  |
| Health facility | 14.0 | 14.0 | 5.6 | 3.9 | 1.0 | 0.0 | 61.6 | 100.0 | 37.5 | 755 |
| Elsewhere | 8.2 | 10.8 | 6.7 | 9.8 | 5.1 | 0.8 | 58.6 | 100.0 | 35.5 | 914 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 11.2 | 12.8 | 5.4 | 5.7 | 0.1 | 0.0 | 64.7 | 100.0 | 35.2 | 419 |
| Rural | 10.7 | 12.0 | 6.4 | 7.6 | 4.3 | 0.6 | 58.3 | 100.0 | 36.8 | 1,250 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |
| Kachin | 7.7 | 13.3 | 2.9 | 3.4 | 4.6 | 0.7 | 67.4 | 100.0 | 27.3 | 56 |
| Kayah | 49.7 | 6.3 | 2.7 | 3.5 | 2.7 | 0.0 | 35.1 | 100.0 | 62.2 | 12 |
| Kayin | 10.5 | 11.9 | 2.3 | 2.9 | 1.3 | 0.0 | 71.2 | 100.0 | 27.5 | 66 |
| Chin | 0.6 | 1.1 | 0.6 | 2.9 | 4.0 | 0.0 | 90.7 | 100.0 | 5.2 | 24 |
| Sagaing | 10.3 | 19.4 | 5.5 | 23.9 | 6.6 | 0.8 | 33.5 | 100.0 | 59.1 | 172 |
| Tanintharyi | 4.6 | 10.0 | 5.9 | 5.1 | 1.7 | 0.0 | 72.6 | 100.0 | 25.6 | 48 |
| Bago | 1.7 | 11.9 | 20.7 | 10.4 | 3.8 | 0.0 | 51.5 | 100.0 | 44.7 | 135 |
| Magway | 20.7 | 4.9 | 4.1 | 5.5 | 2.1 | 0.0 | 62.7 | 100.0 | 35.2 | 119 |
| Mandalay | 8.3 | 5.6 | 4.6 | 6.1 | 2.8 | 0.0 | 72.6 | 100.0 | 24.7 | 183 |
| Mon | 12.5 | 32.2 | 2.1 | 0.8 | 1.0 | 0.8 | 50.6 | 100.0 | 47.6 | 59 |
| Rakhine | 12.9 | 12.0 | 10.9 | 6.7 | 4.1 | 4.3 | 49.1 | 100.0 | 42.5 | 121 |
| Yangon | 2.7 | 15.8 | 2.6 | 6.8 | 1.3 | 0.0 | 70.8 | 100.0 | 27.9 | 193 |
| Shan | 9.7 | 10.5 | 4.3 | 2.1 | 3.6 | 0.0 | 69.8 | 100.0 | 26.5 | 232 |
| Ayeyarwady | 16.3 | 12.2 | 7.1 | 5.7 | 3.3 | 0.0 | 55.4 | 100.0 | 41.3 | 217 |
| Nay Pyi Taw | 48.3 | 7.4 | 3.7 | 2.0 | 1.3 | 0.0 | 37.2 | 100.0 | 61.5 | 32 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |
| No education | 7.3 | 10.7 | 5.0 | 6.2 | 3.2 | 0.9 | 66.8 | 100.0 | 29.2 | 264 |
| Primary | 11.8 | 13.9 | 5.8 | 8.8 | 3.3 | 0.7 | 55.8 | 100.0 | 40.3 | 730 |
| Secondary | 10.2 | 10.4 | 6.4 | 5.7 | 3.5 | 0.1 | 63.7 | 100.0 | 32.7 | 532 |
| More than secondary | 14.6 | 13.1 | 9.5 | 6.3 | 2.0 | 0.0 | 54.6 | 100.0 | 43.5 | 143 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 9.5 | 11.3 | 6.2 | 7.0 | 3.2 | 1.1 | 61.8 | 100.0 | 34.0 | 444 |
| Second | 10.8 | 10.4 | 5.5 | 7.9 | 4.7 | 0.6 | 60.1 | 100.0 | 34.6 | 367 |
| Middle | 12.2 | 12.7 | 8.2 | 9.5 | 4.0 | 0.1 | 53.3 | 100.0 | 42.5 | 286 |
| Fourth | 12.6 | 12.7 | 5.7 | 7.2 | 2.3 | 0.0 | 59.5 | 100.0 | 38.2 | 303 |
| Highest | 9.7 | 15.2 | 5.5 | 3.9 | 1.5 | 0.0 | 64.3 | 100.0 | 34.2 | 270 |
| Total | 10.8 | 12.2 | 6.2 | 7.2 | 3.2 | 0.4 | 59.9 | 100.0 | 36.4 | 1,669 |

[^14]Table 9.10 Type of provider of first postnatal checkup for the newborn
Percent distribution of last births in the 2 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, Myanmar DHS 201516

| Background characteristic | Type of health provider of newborn's first postnatal checkup |  |  |  | No postnatal checkup in the first 2 days after birth | Total | Number ofbirths |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Doctor/ nurse/ midwife/LHV | Auxiliary midwife | Community health worker | Traditional birth attendant |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |
| <20 | 23.7 | 1.7 | 1.5 | 6.8 | 66.3 | 100.0 | 125 |
| 20-34 | 27.8 | 2.1 | 0.1 | 7.1 | 62.9 | 100.0 | 1,226 |
| 35-49 | 28.1 | 2.0 | 0.0 | 4.6 | 65.3 | 100.0 | 318 |
| Birth order |  |  |  |  |  |  |  |
| 1 | 34.9 | 1.5 | 0.5 | 3.8 | 59.4 | 100.0 | 612 |
| 2-3 | 24.3 | 2.3 | 0.0 | 6.5 | 66.9 | 100.0 | 719 |
| 4-5 | 23.1 | 2.7 | 0.0 | 11.8 | 62.4 | 100.0 | 226 |
| 6+ | 18.2 | 1.7 | 0.0 | 12.3 | 67.8 | 100.0 | 113 |
| Place of delivery |  |  |  |  |  |  |  |
| Health facility | 36.9 | 0.4 | 0.2 | 0.0 | 62.5 | 100.0 | 755 |
| Elsewhere | 19.9 | 3.3 | 0.2 | 12.0 | 64.5 | 100.0 | 914 |
| Residence |  |  |  |  |  |  |  |
| Urban | 32.0 | 0.7 | 0.5 | 2.0 | 64.8 | 100.0 | 419 |
| Rural | 26.1 | 2.5 | 0.1 | 8.1 | 63.2 | 100.0 | 1,250 |
| States/Regions |  |  |  |  |  |  |  |
| Kachin | 19.3 | 3.9 | 0.0 | 4.1 | 72.7 | 100.0 | 56 |
| Kayah | 53.3 | 4.8 | 0.0 | 4.1 | 37.8 | 100.0 | 12 |
| Kayin | 21.5 | 2.1 | 0.0 | 3.9 | 72.5 | 100.0 | 66 |
| Chin | 5.2 | 0.0 | 0.0 | 0.0 | 94.8 | 100.0 | 24 |
| Sagaing | 43.4 | 5.8 | 0.0 | 9.9 | 40.9 | 100.0 | 172 |
| Tanintharyi | 19.4 | 2.6 | 0.0 | 3.5 | 74.4 | 100.0 | 48 |
| Bago | 29.3 | 4.4 | 1.1 | 10.0 | 55.3 | 100.0 | 135 |
| Magway | 32.1 | 1.0 | 0.0 | 2.1 | 64.8 | 100.0 | 119 |
| Mandalay | 21.9 | 1.9 | 0.0 | 0.9 | 75.3 | 100.0 | 183 |
| Mon | 42.7 | 1.7 | 0.0 | 3.1 | 52.4 | 100.0 | 59 |
| Rakhine | 25.6 | 1.4 | 0.0 | 15.5 | 57.5 | 100.0 | 121 |
| Yangon | 20.4 | 0.0 | 1.0 | 6.5 | 72.1 | 100.0 | 193 |
| Shan | 19.3 | 0.7 | 0.0 | 6.6 | 73.5 | 100.0 | 232 |
| Ayeyarwady | 31.1 | 1.5 | 0.0 | 8.6 | 58.7 | 100.0 | 217 |
| Nay Pyi Taw | 56.5 | 1.2 | 0.0 | 3.8 | 38.5 | 100.0 | 32 |
| Mother's education |  |  |  |  |  |  |  |
| No education | 14.9 | 2.6 | 0.0 | 11.6 | 70.8 | 100.0 | 264 |
| Primary | 28.6 | 2.2 | 0.5 | 8.9 | 59.7 | 100.0 | 730 |
| Secondary | 28.5 | 1.6 | 0.0 | 2.6 | 67.3 | 100.0 | 532 |
| More than secondary | 42.2 | 1.2 | 0.0 | 0.0 | 56.5 | 100.0 | 143 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 20.2 | 2.6 | 0.0 | 11.1 | 66.0 | 100.0 | 444 |
| Second | 24.2 | 1.3 | 0.4 | 8.7 | 65.4 | 100.0 | 367 |
| Middle | 32.0 | 3.1 | 0.0 | 7.4 | 57.5 | 100.0 | 286 |
| Fourth | 33.1 | 2.1 | 0.6 | 2.4 | 61.8 | 100.0 | 303 |
| Highest | 33.4 | 0.7 | 0.0 | 0.2 | 65.8 | 100.0 | 270 |
| Total | 27.6 | 2.0 | 0.2 | 6.6 | 63.6 | 100.0 | 1,669 |

LHV = lady health visitor

Table 9.11 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, Myanmar DHS 2015-16

| Background characteristic | Problems in accessing health care |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 | Number of women |
| Age |  |  |  |  |  |  |
| 15-19 | 5.1 | 30.3 | 24.2 | 39.3 | 52.0 | 1,810 |
| 20-34 | 4.3 | 33.3 | 23.2 | 32.0 | 49.2 | 5,771 |
| 35-49 | 4.0 | 36.0 | 23.3 | 28.1 | 47.7 | 5,305 |
| Number of living children |  |  |  |  |  |  |
| 0 | 4.2 | 28.7 | 20.8 | 32.9 | 47.2 | 5,331 |
| 1-2 | 3.0 | 33.0 | 22.0 | 28.7 | 46.7 | 4,510 |
| 3-4 | 5.3 | 43.3 | 27.8 | 31.7 | 54.6 | 2,279 |
| $5+$ | 9.3 | 48.7 | 36.6 | 36.4 | 58.3 | 765 |
| Marital status |  |  |  |  |  |  |
| Never married | 4.1 | 28.5 | 20.1 | 33.3 | 47.1 | 4,278 |
| Married | 4.3 | 35.8 | 25.1 | 30.6 | 49.5 | 7,759 |
| Divorced/separated/ widowed | 5.5 | 45.3 | 24.6 | 29.9 | 54.1 | 848 |
| Employed last 12 months |  |  |  |  |  |  |
| Not employed | 3.6 | 32.6 | 21.0 | 30.6 | 47.8 | 3,518 |
| Employed for cash | 4.1 | 34.4 | 23.3 | 30.7 | 48.8 | 8,606 |
| Employed not for cash | 9.8 | 36.3 | 35.7 | 43.3 | 56.6 | 762 |
| Residence |  |  |  |  |  |  |
| Urban | 1.8 | 26.5 | 11.6 | 22.8 | 39.9 | 3,768 |
| Rural | 5.4 | 37.1 | 28.2 | 35.0 | 52.8 | 9,117 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 8.0 | 44.5 | 29.8 | 35.3 | 59.5 | 374 |
| Kayah | 1.6 | 46.4 | 23.3 | 31.0 | 55.1 | 65 |
| Kayin | 1.1 | 43.3 | 31.6 | 37.9 | 56.9 | 303 |
| Chin | 19.8 | 59.9 | 52.1 | 53.1 | 72.2 | 102 |
| Sagaing | 2.8 | 22.7 | 12.0 | 13.3 | 29.8 | 1,410 |
| Tanintharyi | 2.9 | 36.5 | 19.1 | 19.1 | 49.1 | 283 |
| Bago | 3.3 | 27.3 | 17.1 | 23.4 | 38.4 | 1,244 |
| Magway | 3.2 | 31.2 | 20.4 | 39.0 | 52.9 | 1,081 |
| Mandalay | 5.0 | 28.3 | 18.6 | 25.0 | 42.8 | 1,541 |
| Mon | 0.6 | 18.3 | 11.6 | 25.0 | 35.6 | 463 |
| Rakhine | 6.3 | 41.7 | 29.7 | 31.6 | 53.6 | 777 |
| Yangon | 1.5 | 35.7 | 19.6 | 26.3 | 48.7 | 1,927 |
| Shan | 9.4 | 37.2 | 33.6 | 43.1 | 56.1 | 1,368 |
| Ayeyarwady | 5.0 | 45.4 | 35.1 | 48.0 | 65.3 | 1,650 |
| Nay Pyi Taw | 2.3 | 34.4 | 30.4 | 46.5 | 59.3 | 300 |
| Education ${ }^{1}$ |  |  |  |  |  |  |
| No education | 10.4 | 51.1 | 40.2 | 43.9 | 62.8 | 1,606 |
| Primary | 5.2 | 41.0 | 27.4 | 33.5 | 54.4 | 5,305 |
| Secondary | 2.2 | 26.3 | 17.2 | 29.1 | 44.5 | 4,646 |
| More than secondary | 0.7 | 12.4 | 8.4 | 16.6 | 26.5 | 1,325 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 9.0 | 58.9 | 43.3 | 47.1 | 70.5 | 2,274 |
| Second | 5.8 | 44.7 | 31.4 | 37.2 | 59.3 | 2,408 |
| Middle | 3.9 | 33.4 | 23.7 | 31.8 | 49.7 | 2,633 |
| Fourth | 2.4 | 24.4 | 14.6 | 25.1 | 40.4 | 2,702 |
| Highest | 1.5 | 14.9 | 8.8 | 19.7 | 30.7 | 2,868 |
| Total | 4.3 | 34.0 | 23.4 | 31.4 | 49.0 | 12,885 |

${ }^{1}$ Total includes three women with missing information on education

## CHILD HEALTH

## Key Findings

- Vaccination: Fifty-five percent of children age 12-23 months had received all basic vaccinations at the time of the survey.
- Symptoms of acute respiratory infection (ARI): Three percent of children under age 5 had symptoms of ARI in the 2 weeks before the survey. Fifty-eight percent of these children were taken to a health facility or provider for advice or treatment.
- Fever: Sixteen percent of children under age 5 had a fever in the 2 weeks before the survey, and $57 \%$ of these children were taken to a health facility or provider for advice or treatment.
- Diarrhea: Ten percent of children under age 5 had diarrhea in the 2 weeks before the survey. Fifty-four percent of these children were taken to a health facility or provider for advice or treatment, and 68\% received oral rehydration therapy (ORT) or increased fluids. Fourteen percent of children with diarrhea went untreated.

Information on child health and survival can help policymakers assess the efficacy of current strategies, formulate appropriate interventions to prevent deaths from newborn and childhood illnesses, and improve the health of children in Myanmar.

This chapter presents information on birth weight and vaccination status for young children. It also looks at the prevalence of, and treatment practices for, three common childhood illnesses: symptoms of acute respiratory infection (ARI), fever, and diarrhea. Because appropriate sanitary practices can help prevent and reduce the severity of diarrheal disease, information is also provided on the disposal of children's fecal matter.

### 10.1 Birth Weight

## Low birth weight

Percentage of births with a reported birth weight below 2.5 kilograms regardless of gestational age.
Sample: Live births in the 5 years before the survey that have a reported birth weight, from either a written record or the mother's report

Information on low birth weight is very important because low birth weight is the leading cause of deaths in neonates according to a study on causes of under-5 mortality in Myanmar carried out by the Ministry of Health and Sports (MoHS) in 2014 (MoHS 2014a). It is not only an indirect indicator of maternal nutrition but also a predictive indicator of potential neonatal death and of malnutrition if the child survives.

Only $45 \%$ of live births in the 5 years preceding the survey had a reported birth weight. Among infants with a reported birth weight, $8 \%$ had a low birth weight (less than 2.5 kg ) (Table 10.1).

Table 10.1 also includes information on a mother's estimate of her infant's size at birth. Although the mother's estimate of size is subjective, it can be a useful proxy for the child's weight. Two percent of births are reported as very small, $11 \%$ as smaller than average, and $83 \%$ as average or larger than average.

## Patterns by background characteristics

- The percentage of births with low birth weights decreases with increasing mother's age at birth, from $10 \%$ among births to mothers who were less than age 20 at childbirth to $8 \%$ for mothers age 20-34 and $6 \%$ for mothers age 35-49.
- Babies born to mothers with no education are more likely to have a low birth weight than babies born to mothers with a secondary education; however, it is difficult to draw conclusions since birth weights are available for only $16 \%$ of births among women with no education.
- Although very few women in Myanmar use tobacco (see Chapter 3), one-quarter of babies born to these women are reported to be either very small or smaller than average at birth, as compared with only $13 \%$ of babies born to women who do not smoke.


### 10.2 Vaccination of Children

## All basic vaccinations coverage

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). To have received all basic vaccinations, a child must receive at least:

- one dose of BCG vaccine, which protects against tuberculosis
- three doses of DPT/pentavalent, which protects against diphtheria, pertussis (whooping cough), tetanus, hepatitis $B$, and Haemophilus influenzae type b
- three doses of polio vaccine
- first dose of measles/measles rubella vaccine

Sample: Living children age 12-23 months

Immunization is the most cost-effective and efficient way to control and eliminate the vaccine-preventable diseases that largely contribute to childhood morbidity and mortality. In Myanmar, the Expanded Program of Immunization (EPI) was initiated in 1978 with BCG and DPT vaccines for children and tetanus toxoid vaccines for pregnant mothers. The oral polio vaccine (OPV) and measles vaccine were introduced in 1987. In 2003, the stand-alone or monovalent hepatitis B (HepB) vaccine was introduced. Since November 2012, DPT and hepatitis B have been combined with Haemophilus influenzae type b vaccine as the pentavalent vaccine. A second dose of measles vaccine was introduced partially in 2008 and made available nationwide in 2012. The combined measles and rubella (MR) vaccine was introduced in 2015 to replace the first dose of measles vaccine. All of these basic vaccinations are recommended to be given in the first year of a child's life. Pneumococcal conjugate vaccine (PCV) was introduced in 2016, so it was not included in the MDHS questionnaire.

The 2015-16 MDHS collected information on the coverage of basic vaccinations among all children born in the 5 years preceding the survey. In the MDHS, information on vaccination coverage was obtained in two ways-from vaccination cards and from mothers' verbal reports. For all children born since January 2010 , mothers were asked to show the interviewer the vaccination cards in which vaccination dates are recorded. If there was no card, or if the mother was unable to show the card to the interviewer, the child's vaccination information was based on the mother's recall. The mother was asked to recall whether the child had received BCG, polio, DPT/pentavalent, hepatitis B, and measles/measles rubella vaccines. If she
indicated that the child had received the polio, DPT/pentavalent, hepatitis B, or measles/measles rubella vaccines, she was asked about the number of doses that the child received. Vaccination coverage should be interpreted carefully because mothers' recall may not be accurate. Vaccination cards were available for only $45 \%$ of children age 12-23 months.

The survey results showed that $55 \%$ of children age 12-23 months received all basic vaccinations at any time before the survey. Eight percent of children age 12-23 months had not received any vaccinations. Forty-five percent of children age 12-23 months received all of the basic vaccinations before their first birthday (Table 10.2).

Regarding specific vaccinations, $88 \%$ of children age 12-23 months received the BCG vaccine, and $77 \%$ were vaccinated against measles (Table 10.3). Vaccination coverage for the first doses of pentavalent and oral polio vaccine was high ( $87 \%$ and $90 \%$, respectively). However, the percentage of children who received the third doses of the pentavalent and oral polio vaccines decreased to $62 \%$ and $67 \%$, respectively. The differences

Figure 10.1 Childhood vaccinations
Percentage of children age 12-23 months vaccinated at any time before the survey
 between the percentages of children receiving the first and third doses were 25 percentage points for pentavalent and 23 percentage points for polio (Figure 10.1).

Trends: Table 10.4 indicates that the percentage of children age 12-59 months at the time of the survey who received all basic vaccinations by age 12 months increased from $46 \%$ among children age 48-59 months to $56 \%$ among children age 24-35 months and then decreased to $45 \%$ among those age 12-23 months. The main reason for the recent decrease is a drop-off in coverage for the measles vaccine during the transition period from the measles to the MR vaccine. However, the percentage of children who received no vaccinations decreased from $17 \%$ among those age $48-59$ months to $10 \%$ among those age $12-$ 23 months (Table 10.4).

## Patterns by background characteristics

- Basic vaccination coverage differs slightly by sex of the child; males are more likely to receive all basic vaccinations than females ( $58 \%$ and $51 \%$, respectively) (Table 10.3).
- Immunization coverage for all antigens is lowest for sixth- and higher-order births.
- There is a marked difference in vaccination coverage by residence, especially for the third dose of pentavalent ( $75 \%$ in urban areas and $58 \%$ in rural areas).
- The percentage of children age 12-23 months who received all basic vaccinations varies across the country, ranging from a low of $34 \%$ in Ayeyarwady Region to a high of $81 \%$ in Mandalay Region (Figure 10.2).
- Vaccination coverage improves substantially with increasing mother's education. For instance, $80 \%$ of children whose mothers have more than a secondary education are fully vaccinated, as compared with only $41 \%$ of children whose mothers have no education.
- Children living in households in the highest wealth quintile ( $77 \%$ ) are much more likely to be fully vaccinated than those living in households in the lower two quintiles ( $41 \%$ ).


### 10.3 Symptoms of Acute Respiratory Infection

Acute respiratory infection (ARI) is one of the most common childhood illnesses and is the third leading cause of death, following preterm and birth asphyxia, among children under age 5 in Myanmar according to a study of causes of under-5 mortality carried out by the MoHS in 2014 (MoHS 2014a).

To address this major cause of morbidity and mortality in children under age 5, facility-based integrated management of neonatal and childhood illnesses (F-IMNCI), IMNCI (training in early newborn care and neonatal resuscitation for basic health staff), and community case management (CCM) are being implemented in Myanmar. F-IMNCI is a care package that trains health care providers to manage newborn and childhood illnesses at the hospital level (inpatient care), providing an important care link for sick neonates and children reaching these facilities from the primary health care level and the community. IMNCI is a complementary care package designed to train primary health care staff and basic health staff in managing newborns in outpatient care. Community case management of ARI/pneumonia and diarrhea is implemented by trained and supervised health volunteers in townships that basic health staff cannot reach easily. National guidelines have been developed for implementation of F-IMNCI, IMNCI, and CCM.

## Treatment of ARI symptoms

Children with ARI symptoms for whom advice or treatment was sought from a health facility or provider. ARI symptoms consist of cough accompanied by (1) short, rapid breathing that is chest-related and/or (2) difficult breathing that is chest-related.
Sample: Children under age 5 with symptoms of ARI in the 2 weeks before the survey

Mothers reported that $3 \%$ of children under age 5 had symptoms of ARI in the 2 weeks preceding the survey.

Fifty-eight percent of children with symptoms of ARI were taken to a health facility or provider for advice or treatment, and $43 \%$ received an antibiotic (Table 10.5).

## Patterns by background characteristics

- The prevalence of ARI symptoms among children under age 5 was found to be highest among those age 12-23 months (5\%). Seventy-one percent of these children were taken to a health facility or provider to seek advice or treatment.
- Among children under age 5 with ARI symptoms, boys were more likely to be taken to a health facility or provider than girls ( $65 \%$ and $48 \%$, respectively).
- The prevalence of ARI symptoms was highest among children in Chin State (16\%), followed by children in Rakhine State (8\%).
- Children are more likely to be taken to a health facility or provider to seek advice or treatment for ARI symptoms if their mother has a higher level of education. For example, $55 \%$ of children whose mothers had a primary education and $63 \%$ of children whose mothers had a secondary education were taken to a health facility or provider.


### 10.4 Fever

Fever is the most common symptom of childhood illness in Myanmar. It can result from mild illnesses such as the common cold or more severe diseases such as malaria, dengue hemorrhagic fever, and Japanese encephalitis.

## Treatment of fever

Children with fever for whom advice or treatment was sought from a health facility or provider.
Sample: Children under age 5 with a fever in the 2 weeks before the survey

Sixteen percent of children under age 5 had a fever in the 2 weeks preceding the survey. Fifty-seven percent of these children were taken to a health facility or provider for advice or treatment, and $32 \%$ received antibiotics (Table 10.6).

## Patterns by background characteristics

- The prevalence of fever increases from $10 \%$ among children less than age 6 months to $22 \%$ among those age 6-11 months.
- The percentage of children with a fever in the 2 weeks preceding the survey was highest in Chin State (32\%) and lowest in Sagaing Region (7\%).
- The percentage of children with a fever who are taken to a health facility or provider increases substantially with increasing household wealth, from $47 \%$ of children living in households in the lowest quintile to $74 \%$ of children living in households in the highest quintile.


### 10.5 Diarrheal Disease

### 10.5.1 Prevalence of Diarrhea

Diarrhea is a common childhood illness and, according to the earlier-mentioned MoHS study on causes of under-5 mortality (MoHS 2014a), is the fourth-leading cause of death among children under age 5 in Myanmar. Nationwide implementation of F-IMNCI, IMNCI, and CCM (as described in Section 10.3) is being carried out to address this major cause of morbidity and mortality in children. National F-IMNCI, IMNCI, and CCM guidelines have been developed by the MoHS and are being used by health care providers across the country (MoHS 2014b).

The MDHS results showed that $10 \%$ of children under age 5 had diarrhea in the 2 weeks preceding the survey (Table 10.7).

## Patterns by background characteristics

- The prevalence of diarrhea is highest among children age 12-23 months, followed by those who are age 6-11 months (Figure 10.3).
- The prevalence of diarrhea is highest in Chin State (24\%), followed by Kachin State (20\%).
- There are slight differences in diarrhea prevalence by household wealth. For example, the prevalence of diarrhea is $12 \%$ and $13 \%$, respectively, among children in households in the lowest and second-lowest wealth quintiles, as compared with $7 \%$ among children in households in the highest wealth quintile.

Figure 10.3 Diarrhea prevalence by age
Percentage of children under age 5 who had diarrhea in the 2 weeks before the survey


### 10.5.2 Treatment of Diarrhea

The F-IMNCI, IMNCI, and CCM guidelines incorporate treatment protocols for management of diarrhea. One treatment is oral rehydration therapy (ORT), which includes giving low-osmolarity oral rehydration salt (ORS) packets or a recommended homemade fluid. Supplementation with zinc sulphate ( $\mathrm{ZnSO}_{4}$ ) tablets is also included in the national guidelines for treatment of diarrhea in children under age 5 (MoHS 2014b).

## Oral rehydration therapy

Children with diarrhea are given a fluid made from a special packet of oral rehydration salts (ORS) or government-recommended homemade fluids (RHF).
Sample: Children under age 5 with diarrhea in the 2 weeks before the survey

As mentioned above, $10 \%$ of children under age 5 had diarrhea in the 2 weeks before the survey (Table 10.7). Fifty-four percent of these children were taken to a health facility or provider for advice or treatment, and $68 \%$ received oral rehydration therapy (ORT) or increased fluids (Table 10.8, Figure 10.4).

Patterns by background characteristics

- Among children under age 5 suffering from diarrhea, boys (74\%) are more likely than girls ( $61 \%$ ) to be given ORT or increased fluids as a treatment.
- The percentage of children with diarrhea for whom advice or treatment is sought from a health facility or provider is higher in rural areas ( $55 \%$ ) than urban areas ( $49 \%$ ). However, the percentage of children who are given ORT or increased fluids as a treatment for diarrhea is higher in urban (77\%) than rural (66\%) areas.
- The proportion of children with diarrhea for whom advice or treatment is sought from a health facility or provider is much higher among those whose mothers have a secondary education (62\%) than among those whose mothers have no education (36\%).


### 10.5.3 Feeding Practices

## Appropriate feeding practices

Children with diarrhea are given more liquids than usual and as much food or more than usual.
Sample: Children under age 5 with diarrhea in the 2 weeks before the survey

To reduce dehydration and minimize the effects of diarrhea on nutritional status, mothers are encouraged to continue normal feeding of children with diarrhea and to increase the amount of fluids given. Twenty-two percent of children who had diarrhea in the 2 weeks preceding the survey were given increased fluids, while $7 \%$ were given more than the usual amount of food, $47 \%$ were given the same amount as usual, and $30 \%$ were given somewhat less food (Figure 10.5). Overall, 56\% of children under age 5 who had diarrhea in the 2 -week period preceding the survey were given increased fluids and/or ORT as well as continued feeding (Table 10.9).

## Patterns by background characteristics

- Younger children are less likely to be given continued feeding along with ORT and/or increased fluids than older children. For example, $44 \%$ of children age 6-11 months, $57 \%$ of children age 12-23 months, and more than $62 \%$ of children age 24-59 months are given continued feeding along with ORT and/or increased fluids.
- There are considerable differences in feeding practices during a diarrheal episode by sex of the child. Sixty-two percent of male children under age 5 with diarrhea were given continued feeding along with ORT and/or increased fluids, as compared with $49 \%$ of female children.
- Children in urban areas are more likely than those in rural areas to receive continued feeding along with ORT and/or increased fluids when they have diarrhea ( $63 \%$ and $54 \%$, respectively).
- The percentage of children with diarrhea who receive continued feeding along with ORT and/or increased fluids varies according to mother's education. For instance, $51 \%$ of children whose mothers have no education were given continued feeding along with ORT and/or increased fluids during their diarrheal episode in the 2 weeks preceding the survey, as compared with $61 \%$ of children whose mothers have a secondary education.


### 10.5.4 Knowledge of ORS Packets

This section includes information about the proportion of women age $15-49$ with a live birth in the 5 years preceding the survey who know about ORS packets for treatment of diarrhea. The MDHS results show that knowledge of ORS packets for treatment of diarrhea is nearly universal among women in Myanmar according to all background characteristics other than educational level. Women with no education are less likely to know about ORS packets (78\%) than women at higher educational levels ( $>98 \%$ ) (data not shown).

## Treatment of Childhood IIIness

In summary, during the 2 weeks before the survey, fever was the most common illness reported among children under age 5 (16\%). Children with ARI symptoms (58\%) and fever (57\%) are slightly more likely to be taken for advice or treatment than children with diarrhea (54\%) (Figure 10.6).

### 10.6 Knowledge regarding Treatment of Childhood ILLNESSES

Early care seeking for a sick child is an important first step in reducing childhood mortality, and knowledge of the symptoms of the illness influences early care seeking. In order to investigate this issue, women interviewed in the MDHS were asked what types of symptoms of childhood illnesses would cause them to take a child to a health facility right away.

Fever was the most common symptom that would prompt medical treatment, reported by $59 \%$ of all women age 15-49 (Table 10.10). Although dengue hemorrhagic fever occurs in Myanmar, awareness of the warning signs of the disease among women is very low. Only $6 \%$ of women reported signs of dengue as a symptom that would prompt medical treatment.

### 10.7 Disposal of Children's Stools

## Safe disposal of children's stools

The child's last stools were put or rinsed into a toilet or latrine or buried, or the child used a toilet or latrine.

Sample: Youngest children under age 5 living with their mother

Proper disposal of children's feces is important to prevent the spread of disease. Sixty-two percent of children under age 5 living with their mothers had their last stool disposed of safely (Table 10.11).

## Patterns by background characteristics

- Children living in urban areas (74\%) are much more likely than those living in rural areas (59\%) to have their stools disposed of safely.
- Safe disposal of children's stools increases with increasing mother's education. Forty-nine percent of children whose mothers have no education have their stools disposed of safely, as compared with $78 \%$ of children whose mothers have more than a secondary education.
- The percentage of children whose stools are disposed of safely varies by household wealth. Children in households in the highest wealth quintile are more likely to have their stools disposed of safely than children in the lowest wealth quintile ( $76 \%$ versus $50 \%$ ).
- The percentage of children whose stools are disposed of safely ranges from a low of $27 \%$ in Rakhine State to a high of $76 \%$ in Yangon Region.


## List of Tables

For more information on low birth weight, vaccinations, childhood illness, and disposal of children's stools, see the following tables:

- Table 10.1 Child's size and weight at birth
- Table 10.2 Vaccinations by source of information
- Table 10.3 Vaccinations by background characteristics
- Table 10.4 Vaccinations in first year of life
- Table 10.5 Prevalence and treatment of symptoms of ARI
- Table 10.6 Prevalence and treatment of fever
- Table 10.7 Prevalence of diarrhea
- Table 10.8 Diarrhea treatment
- Table 10.9 Feeding practices during diarrhea
- Table 10.10 Symptoms of childhood illness that prompt treatment
- Table 10.11 Disposal of children's stools

Table 10.1 Child's size and weight at birth
Percent distribution of live births in the 5 years preceding the survey by mother's estimate of baby's size at birth, percentage of live births in the 5 years preceding the survey that have a reported birth weight, and among live births in the 5 years preceding the survey with a reported birth weight, percentage less than 2.5 kg , according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Percent distribution of all live births by size of child at birth |  |  |  |  | Percentage of all births that have a reported birth weight ${ }^{1}$ | $\begin{gathered} \text { Number of } \\ \text { births } \\ \hline \end{gathered}$ | Births with a reported birth weight ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Very small | Smaller than average | Average or larger | Don't know/ missing | Total |  |  | $\begin{gathered} \hline \text { Percentage } \\ \text { less than } \\ 2.5 \mathrm{~kg} \\ \hline \end{gathered}$ | Number of births |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |
| <20 | 1.7 | 9.9 | 84.5 | 3.9 | 100.0 | 36.6 | 345 | 10.4 | 126 |
| 20-34 | 1.7 | 10.6 | 83.9 | 3.8 | 100.0 | 46.3 | 3,153 | 8.3 | 1,461 |
| 35-49 | 1.3 | 14.0 | 80.7 | 3.9 | 100.0 | 45.4 | 789 | 6.3 | 358 |
| Birth order |  |  |  |  |  |  |  |  |  |
| 1 | 1.6 | 11.9 | 83.9 | 2.7 | 100.0 | 59.5 | 1,509 | 8.5 | 898 |
| 2-3 | 1.5 | 10.1 | 84.2 | 4.1 | 100.0 | 44.4 | 1,789 | 8.4 | 794 |
| 4-5 | 2.1 | 11.0 | 81.1 | 5.8 | 100.0 | 28.0 | 635 | 5.3 | 178 |
| $6+$ | 1.5 | 13.7 | 81.2 | 3.6 | 100.0 | 21.3 | 352 | 7.4 | 75 |
| Mother's smoking status |  |  |  |  |  |  |  |  |  |
| Smokes cigarettes/tobacco | 2.0 | 23.4 | 70.1 | 4.5 | 100.0 | 12.8 | 92 | * | 12 |
| Does not smoke | 1.6 | 10.9 | 83.7 | 3.8 | 100.0 | 46.1 | 4,194 | 8.0 | 1,934 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 1.0 | 9.0 | 88.3 | 1.7 | 100.0 | 77.9 | 953 | 7.5 | 742 |
| Rural | 1.8 | 11.8 | 82.0 | 4.4 | 100.0 | 36.1 | 3,333 | 8.5 | 1,204 |
| States/Regions |  |  |  |  |  |  |  |  |  |
| Kachin | 0.7 | 15.7 | 77.9 | 5.6 | 100.0 | 34.3 | 168 | 5.9 | 58 |
| Kayah | 0.8 | 8.0 | 90.4 | 0.8 | 100.0 | 44.5 | 32 | 7.8 | 14 |
| Kayin | 3.6 | 22.0 | 70.7 | 3.7 | 100.0 | 47.1 | 147 | 8.7 | 69 |
| Chin | 0.0 | 15.5 | 84.5 | 0.0 | 100.0 | 28.9 | 65 | 11.6 | 19 |
| Sagaing | 1.8 | 9.9 | 81.9 | 6.4 | 100.0 | 43.8 | 474 | 9.1 | 208 |
| Tanintharyi | 0.0 | 5.9 | 85.0 | 9.1 | 100.0 | 45.6 | 133 | 3.3 | 60 |
| Bago | 2.3 | 10.0 | 86.9 | 0.8 | 100.0 | 46.8 | 373 | 7.7 | 175 |
| Magway | 0.7 | 8.7 | 84.9 | 5.7 | 100.0 | 32.0 | 310 | 4.9 | 99 |
| Mandalay | 1.2 | 17.5 | 81.0 | 0.4 | 100.0 | 57.9 | 431 | 8.0 | 250 |
| Mon | 0.4 | 13.0 | 78.4 | 8.2 | 100.0 | 56.4 | 144 | 6.3 | 81 |
| Rakhine | 5.5 | 19.5 | 73.4 | 1.6 | 100.0 | 12.6 | 303 | (20.0) | 38 |
| Yangon | 1.0 | 4.1 | 90.5 | 4.4 | 100.0 | 79.0 | 435 | 5.2 | 344 |
| Shan | 1.6 | 9.6 | 83.8 | 5.0 | 100.0 | 37.3 | 607 | 9.2 | 226 |
| Ayeyarwady | 1.1 | 9.3 | 88.0 | 1.7 | 100.0 | 46.8 | 567 | 11.4 | 265 |
| Nay Pyi Taw | 0.8 | 7.4 | 83.3 | 8.5 | 100.0 | 39.8 | 96 | 10.6 | 38 |
| Mother's education |  |  |  |  |  |  |  |  |  |
| No education | 2.4 | 14.2 | 77.6 | 5.8 | 100.0 | 15.8 | 789 | 14.2 | 125 |
| Primary | 1.4 | 10.6 | 84.2 | 3.9 | 100.0 | 38.5 | 1,963 | 7.7 | 756 |
| Secondary | 1.8 | 10.3 | 84.8 | 3.1 | 100.0 | 64.7 | 1,212 | 7.4 | 784 |
| More than secondary | 0.4 | 10.8 | 87.5 | 1.3 | 100.0 | 87.2 | 322 | 8.6 | 281 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 2.2 | 12.1 | 81.3 | 4.5 | 100.0 | 23.9 | 1,277 | 6.0 | 305 |
| Second | 1.6 | 10.9 | 82.6 | 4.9 | 100.0 | 35.1 | 965 | 7.7 | 338 |
| Middle | 1.8 | 11.6 | 80.9 | 5.8 | 100.0 | 45.2 | 721 | 11.5 | 326 |
| Fourth | 1.2 | 9.2 | 87.5 | 2.1 | 100.0 | 64.5 | 716 | 7.7 | 462 |
| Highest | 0.7 | 11.6 | 87.1 | 0.6 | 100.0 | 84.7 | 608 | 7.8 | 515 |
| Total | 1.6 | 11.2 | 83.4 | 3.8 | 100.0 | 45.4 | 4,286 | 8.1 | 1,945 |

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.
${ }^{1}$ Based on either a written record or the mother's recall

Table 10.2 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, Myanmar DHS 2015-16

| Source of information | BCG | Pentavalent ${ }^{1}$ |  |  | Polio |  |  | Measles | All basic vaccinations ${ }^{2}$ | No vaccinations | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 | 1 | 2 | 3 |  |  |  |  |
| Vaccinated at any time before survey |  |  |  |  |  |  |  |  |  |  |  |
| Vaccination card | 44.1 | 44.8 | 42.8 | 40.6 | 44.8 | 42.8 | 40.9 | 38.7 | 36.4 | 0.0 | 383 |
| Mother's report | 43.7 | 42.0 | 34.4 | 21.7 | 45.5 | 38.7 | 26.1 | 38.3 | 18.4 | 7.9 | 469 |
| Either source | 87.8 | 86.9 | 77.3 | 62.3 | 90.3 | 81.5 | 67.0 | 77.1 | 54.8 | 7.9 | 852 |
| Vaccinated by age 12 months ${ }^{3}$ | 86.6 | 85.5 | 76.9 | 60.2 | 88.8 | 81.1 | 64.9 | 61.2 | 45.0 | 9.5 | 852 |

${ }^{1}$ Pentavalent is DPT-HepB-Hib.
${ }^{2}$ BCG, first dose of measles, and three doses each of pentavalent and polio vaccine
${ }^{3}$ For children whose information is based on the mother's report, the proportion of vaccinations given during the first year of life is assumed to be the same as for children with a written record of vaccination.

Table 10.3 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, Myanmar DHS 2015-16

| Background characteristic | BCG | Pentavalent ${ }^{1}$ |  |  | Polio |  |  | Measles | All basic vaccinations ${ }^{2}$ | No vaccinations | Percentage with a vaccination card seen | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 | 1 | 2 | 3 |  |  |  |  |  |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 89.1 | 88.1 | 79.5 | 63.5 | 92.0 | 82.9 | 68.7 | 79.4 | 57.9 | 6.8 | 44.6 | 475 |
| Female | 86.1 | 85.2 | 74.4 | 60.7 | 88.2 | 79.8 | 64.9 | 74.1 | 50.9 | 9.3 | 45.4 | 377 |
| Birth order |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 86.5 | 85.5 | 77.1 | 61.3 | 90.3 | 80.5 | 64.9 | 77.1 | 53.6 | 8.9 | 41.7 | 318 |
| 2-3 | 89.1 | 88.7 | 79.9 | 65.6 | 91.7 | 83.4 | 69.9 | 78.6 | 57.8 | 6.1 | 50.9 | 373 |
| 4-5 | 91.7 | 90.0 | 75.5 | 59.9 | 90.8 | 85.0 | 70.1 | 76.5 | 52.7 | 7.0 | 35.4 | 107 |
| $6+$ | 78.6 | 76.3 | 63.4 | 49.8 | 79.9 | 67.2 | 53.9 | 67.8 | 45.3 | 16.3 | 41.7 | 53 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 91.8 | 91.0 | 85.0 | 75.2 | 93.3 | 88.3 | 76.0 | 81.7 | 67.5 | 5.0 | 55.3 | 220 |
| Rural | 86.4 | 85.4 | 74.5 | 57.8 | 89.3 | 79.1 | 63.9 | 75.5 | 50.4 | 8.9 | 41.3 | 631 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |  |  |
| Kachin | 91.2 | 98.4 | 84.1 | 73.6 | 96.8 | 85.7 | 70.4 | 81.9 | 59.4 | 1.6 | 55.3 | 26 |
| Kayah | 100.0 | 100.0 | 97.0 | 84.8 | 100.0 | 98.5 | 84.8 | 95.6 | 80.3 | 0.0 | 47.0 | 6 |
| Kayin | 88.4 | 86.9 | 78.8 | 70.9 | 90.0 | 83.7 | 72.5 | 82.6 | 65.0 | 6.9 | 65.8 | 28 |
| Chin | 92.7 | 91.5 | 82.8 | 64.7 | 93.9 | 90.3 | 69.9 | 73.0 | 53.0 | 4.9 | 15.7 | 11 |
| Sagaing | 86.5 | 86.5 | 82.0 | 71.5 | 86.5 | 82.0 | 71.5 | 76.9 | 66.4 | 13.5 | 58.9 | 79 |
| Tanintharyi | 98.1 | 98.1 | 81.6 | 61.8 | 92.5 | 85.0 | 67.3 | 84.9 | 52.4 | 1.9 | 44.4 | 22 |
| Bago | 94.5 | 83.4 | 75.3 | 56.3 | 88.2 | 80.0 | 59.0 | 77.6 | 46.7 | 3.9 | 44.1 | 75 |
| Magway | (97.8) | (93.3) | (86.6) | (61.8) | (100.0) | (93.3) | (68.2) | (91.0) | (58.2) | (0.0) | (43.0) | 55 |
| Mandalay | 93.4 | 93.4 | 91.2 | 88.2 | 93.4 | 93.4 | 90.1 | 86.5 | 81.3 | 6.6 | 59.9 | 89 |
| Mon | (95.4) | (95.4) | (88.6) | (68.7) | (97.7) | (90.8) | (75.3) | (84.4) | (64.4) | (2.3) | (46.1) | 26 |
| Rakhine | 88.1 | 90.6 | 78.7 | 48.3 | 95.6 | 90.2 | 72.2 | 73.4 | 41.0 | 4.4 | 13.3 | 66 |
| Yangon | 96.4 | 96.4 | 88.0 | 76.0 | 98.1 | 90.0 | 78.0 | 79.7 | 67.4 | 1.9 | 66.8 | 99 |
| Shan | 76.1 | 74.7 | 64.8 | 53.9 | 78.5 | 67.4 | 52.7 | 63.7 | 45.7 | 18.7 | 36.4 | 127 |
| Ayeyarwady | 74.5 | 76.7 | 58.5 | 40.8 | 86.5 | 66.0 | 51.6 | 70.6 | 33.8 | 11.9 | 33.6 | 125 |
| Nay Pyi Taw | (97.7) | (91.0) | (77.6) | (59.9) | (90.8) | (81.7) | (59.6) | (85.8) | (49.4) | (2.3) | (25.1) | 18 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 71.6 | 70.1 | 59.8 | 43.7 | 74.1 | 65.0 | 51.5 | 60.7 | 41.0 | 23.2 | 27.6 | 124 |
| Primary | 89.2 | 88.3 | 76.7 | 60.4 | 92.9 | 81.9 | 66.3 | 79.6 | 53.6 | 4.8 | 44.4 | 391 |
| Secondary | 91.0 | 90.1 | 81.7 | 68.0 | 92.5 | 84.7 | 69.2 | 77.1 | 56.4 | 6.4 | 50.4 | 266 |
| More than secondary | 96.0 | 96.0 | 93.7 | 83.7 | 96.0 | 96.0 | 90.0 | 91.3 | 79.6 | 4.0 | 58.0 | 71 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 86.1 | 81.9 | 68.5 | 49.1 | 87.4 | 74.4 | 56.4 | 75.1 | 41.2 | 8.3 | 31.5 | 240 |
| Second | 77.1 | 81.1 | 66.8 | 49.4 | 83.2 | 70.5 | 54.6 | 61.0 | 40.5 | 15.9 | 40.7 | 187 |
| Middle | 86.4 | 81.7 | 77.0 | 67.3 | 89.3 | 80.1 | 70.7 | 80.1 | 64.2 | 8.6 | 46.5 | 135 |
| Fourth | 95.7 | 97.8 | 89.1 | 74.0 | 97.8 | 93.7 | 78.9 | 83.5 | 64.9 | 1.9 | 51.6 | 147 |
| Highest | 97.8 | 96.3 | 93.7 | 84.4 | 97.8 | 96.7 | 85.4 | 92.0 | 77.1 | 2.2 | 64.6 | 144 |
| Total | 87.8 | 86.9 | 77.3 | 62.3 | 90.3 | 81.5 | 67.0 | 77.1 | 54.8 | 7.9 | 44.9 | 852 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Pentavalent is DPT-HepB-Hib.
${ }^{2}$ BCG, first dose of measles, and three doses each of pentavalent and polio vaccine

## Table 10.4 Vaccinations in first year of life

Percentage of children age 12-59 months at the time of the survey who received specific vaccines by age 12 months, and percentage with a vaccination card, by current age of child, Myanmar DHS 2015-16

| Age in months |  | Pentavalent ${ }^{1}$ |  |  | Polio |  |  | Measles | All basic vaccinations ${ }^{2}$ | Percentag  <br> No e with a <br> accina- vaccination <br> tions card seen |  | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | BCG | 1 | 2 | 3 | 1 | 2 | 3 |  |  |  |  |  |
| 12-23 | 86.6 | 85.5 | 76.9 | 60.2 | 88.8 | 81.1 | 64.9 | 61.2 | 45.0 | 9.5 | 44.9 | 852 |
| 24-35 | 87.6 | 86.2 | 78.8 | 64.5 | 89.5 | 83.5 | 68.5 | 74.3 | 55.5 | 8.9 | 39.4 | 782 |
| 36-47 | 87.0 | 83.9 | 75.6 | 62.9 | 88.9 | 82.9 | 67.4 | 71.6 | 52.3 | 9.5 | 28.1 | 866 |
| 48-59 | 79.5 | 76.4 | 69.2 | 57.9 | 82.0 | 76.4 | 66.9 | 65.8 | 46.3 | 16.6 | 22.8 | 792 |
| Total | 85.6 | 83.6 | 75.6 | 61.6 | 87.8 | 81.5 | 67.1 | 68.2 | 49.9 | 10.6 | 33.9 | 3,292 |

Note: Information was obtained from the vaccination card or, if there was no written record, from the mother. For children whose information is based on the mother's report, the proportion of vaccinations given during the first year of life is assumed to be the same as for children with a written record of vaccinations
${ }^{1}$ Pentavalent is DPT-HepB-Hib
${ }^{2}$ BCG, first dose of measles, and three doses each of pentavalent and polio vaccine

Table 10.5 Prevalence and treatment of symptoms of ARI
Among children under age 5 , the percentage who had symptoms of acute respiratory infection (ARI) in the 2 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, Myanmar DHS 2015-16

| Background characteristic | Among children under age 5: |  | Among children under age 5 with symptoms of ARI: |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage with symptoms of ARI ${ }^{1}$ | Number of children | Percentage for whom advice or treatment was sought from a health facility or provider ${ }^{2}$ | Percentage who received antibiotics | Number of children |
| Age in months |  |  |  |  |  |
| <6 | 2.0 | 404 | * | * | 8 |
| 6-11 | 1.6 | 403 | * | * | 7 |
| 12-23 | 4.7 | 852 | 71.1 | 54.2 | 40 |
| 24-35 | 3.9 | 782 | 66.2 | 38.3 | 30 |
| 36-47 | 3.4 | 866 | (47.2) | (30.1) | 29 |
| 48-59 | 2.1 | 792 | (44.4) | (45.1) | 17 |
| Sex |  |  |  |  |  |
| Male | 3.8 | 2,131 | 64.8 | 44.5 | 81 |
| Female | 2.6 | 1,968 | 47.6 | 41.5 | 51 |
| Mother's smoking status |  |  |  |  |  |
| Smokes cigarettes/tobacco | 5.4 | 85 | * | * | 5 |
| Does not smoke | 3.2 | 4,014 | 58.2 | 44.7 | 127 |
| Cooking fuel ${ }^{3}$ |  |  |  |  |  |
| Electricity or gas | 2.5 | 728 | (77.4) | (54.7) | 18 |
| Charcoal | 4.0 | 593 | (63.0) | (55.3) | 24 |
| Wood/straw ${ }^{4}$ | 3.2 | 2,758 | 53.5 | 37.3 | 88 |
| Animal dung | * | 13 | * | * | 1 |
| No food cooked in household | * | 5 | * | * | 0 |
| Residence |  |  |  |  |  |
| Urban | 3.0 | 925 | (76.6) | (53.8) | 28 |
| Rural | 3.2 | 3,174 | 53.2 | 40.5 | 103 |
| States/Regions |  |  |  |  |  |
| Kachin | 7.5 | 162 | (34.2) | (25.1) | 12 |
| Kayah | 7.6 | 31 | (61.1) | (71.4) | 2 |
| Kayin | 5.3 | 140 | * | * | 7 |
| Chin | 15.6 | 60 | 40.4 | 47.2 | 9 |
| Sagaing | 0.3 | 456 | * | * | 1 |
| Tanintharyi | 5.9 | 125 | * | * | 7 |
| Bago | 2.2 | 360 | * | * | 8 |
| Magway | 4.8 | 299 | * | * | 14 |
| Mandalay | 2.0 | 411 | * | * | 8 |
| Mon | 2.2 | 140 | * | * | 3 |
| Rakhine | 8.3 | 294 | (79.1) | (69.1) | 24 |
| Yangon | 0.4 | 423 | * | * | 2 |
| Shan | 1.7 | 564 | * | * | 10 |
| Ayeyarwady | 3.7 | 542 | * | * | 20 |
| Nay Pyi Taw | 1.9 | 92 | * | * | 2 |
| Mother's education |  |  |  |  |  |
| No education | 3.3 | 730 | (45.3) | (40.4) | 24 |
| Primary | 3.3 | 1,879 | 55.3 | 45.2 | 62 |
| Secondary | 3.1 | 1,175 | 63.0 | 41.8 | 37 |
| More than secondary | 2.7 | 314 | * | * | 8 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 4.1 | 1,211 | 45.3 | 38.0 | 50 |
| Second | 3.5 | 906 | 62.1 | 54.7 | 32 |
| Middle | 2.9 | 691 | (58.8) | (20.1) | 20 |
| Fourth | 2.7 | 699 | (71.4) | (57.1) | 19 |
| Highest | 1.9 | 593 | * | * | 11 |
| Total | 3.2 | 4,099 | 58.2 | 43.3 | 131 |

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
${ }^{1}$ Symptoms of ARI include cough accompanied by short, rapid breathing that is chest-related and/or by difficult breathing that is chest-related.
${ }^{2}$ Excludes pharmacy, shop, market, and traditional practitioner
${ }^{3}$ Total includes two children from households using other source of cooking fuel.
${ }^{4}$ Includes grass, shrubs, and crop residues

Table 10.6 Prevalence and treatment of fever
Among children under age 5 , the percentage who had a fever in the 2 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, Myanmar DHS 2015-16

| 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 ${ }^{1}$ | Percentage who took antimalarial drugs | Percentage who took antibiotic drugs | Number of children |
| Age in months |  |  |  |  |  |  |
| <6 | 10.3 | 404 | 46.2 | 0.0 | 18.7 | 42 |
| 6-11 | 22.3 | 403 | 63.9 | 1.4 | 29.6 | 90 |
| 12-23 | 21.2 | 852 | 52.8 | 1.9 | 29.6 | 180 |
| 24-35 | 18.0 | 782 | 63.3 | 0.1 | 35.0 | 141 |
| 36-47 | 13.5 | 866 | 53.8 | 0.2 | 27.6 | 117 |
| 48-59 | 11.0 | 792 | 56.5 | 0.3 | 43.7 | 87 |
| Sex |  |  |  |  |  |  |
| Male | 15.5 | 2,131 | 57.5 | 1.2 | 31.9 | 330 |
| Female | 16.6 | 1,968 | 56.1 | 0.5 | 31.3 | 327 |
| Residence |  |  |  |  |  |  |
| Urban | 16.4 | 925 | 59.1 | 0.0 | 33.8 | 151 |
| Rural | 15.9 | 3,174 | 56.1 | 1.1 | 30.9 | 505 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 21.8 | 162 | 56.9 | 0.0 | 25.5 | 35 |
| Kayah | 22.0 | 31 | 70.6 | 0.0 | 54.3 | 7 |
| Kayin | 18.0 | 140 | 64.2 | 0.0 | 24.7 | 25 |
| Chin | 32.2 | 60 | 36.5 | 4.2 | 40.1 | 19 |
| Sagaing | 6.6 | 456 | * | * | * | 30 |
| Tanintharyi | 20.9 | 125 | 55.7 | 0.0 | 38.7 | 26 |
| Bago | 16.3 | 360 | (56.0) | (2.5) | (32.3) | 59 |
| Magway | 18.2 | 299 | (53.4) | (2.3) | (24.4) | 54 |
| Mandalay | 11.1 | 411 | (57.9) | (0.0) | (26.6) | 46 |
| Mon | 9.1 | 140 | * | * | * | 13 |
| Rakhine | 24.1 | 294 | 48.9 | 0.0 | 57.8 | 71 |
| Yangon | 8.2 | 423 | * | * | * | 35 |
| Shan | 14.1 | 564 | (55.1) | (0.0) | (41.3) | 80 |
| Ayeyarwady | 26.1 | 542 | 57.4 | 1.3 | 17.0 | 142 |
| Nay Pyi Taw | 16.7 | 92 | (38.2) | (0.0) | (20.3) | 15 |
| Mother's education |  |  |  |  |  |  |
| No education | 15.6 | 730 | 53.2 | 0.2 | 36.1 | 114 |
| Primary | 16.7 | 1,879 | 52.6 | 1.2 | 26.3 | 313 |
| Secondary | 16.0 | 1,175 | 60.7 | 0.8 | 32.9 | 188 |
| More than secondary | 13.1 | 314 | (81.5) | (0.0) | (53.4) | 41 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 18.0 | 1,211 | 46.5 | 0.3 | 27.7 | 218 |
| Second | 19.3 | 906 | 59.0 | 1.9 | 26.1 | 175 |
| Middle | 13.0 | 691 | 51.4 | 0.0 | 27.9 | 90 |
| Fourth | 13.6 | 699 | 67.0 | 1.5 | 44.0 | 95 |
| Highest | 13.4 | 593 | 74.4 | 0.0 | 43.4 | 80 |
| Total | 16.0 | 4,099 | 56.8 | 0.8 | 31.6 | 657 |

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
${ }^{1}$ Excludes pharmacy, shop, market, and traditional practitioner

Table 10.7 Prevalence of diarrhea
Percentage of children under age 5 who had diarrhea in the 2 weeks preceding the survey, by background characteristics, Myanmar DHS 201516

| Background characteristic | Diarrhea in the 2 weeks preceding the survey |  | Number of children |
| :---: | :---: | :---: | :---: |
|  | All diarrhea | Diarrhea with blood |  |
| Age in months |  |  |  |
| <6 | 6.2 | 0.1 | 404 |
| 6-11 | 13.8 | 0.2 | 403 |
| 12-23 | 17.1 | 1.0 | 852 |
| 24-35 | 11.6 | 0.5 | 782 |
| 36-47 | 8.0 | 0.5 | 866 |
| 48-59 | 5.3 | 0.4 | 792 |
| Sex |  |  |  |
| Male | 10.5 | 0.3 | 2,131 |
| Female | 10.3 | 0.8 | 1,968 |
| Source of drinking water ${ }^{1}$ |  |  |  |
| Improved | 9.9 | 0.5 | 3,287 |
| Not improved | 12.6 | 0.6 | 812 |
| Toilet facility ${ }^{2}$ |  |  |  |
| Improved, not shared | 10.4 | 0.6 | 1,711 |
| Shared ${ }^{3}$ | 9.1 | 0.3 | 384 |
| Not improved | 10.7 | 0.5 | 2,004 |
| Residence |  |  |  |
| Urban | 8.4 | 0.4 | 925 |
| Rural | 11.0 | 0.6 | 3,174 |
| States/Regions |  |  |  |
| Kachin | 20.0 | 0.8 | 162 |
| Kayah | 10.6 | 0.3 | 31 |
| Kayin | 16.5 | 0.6 | 140 |
| Chin | 24.4 | 3.7 | 60 |
| Sagaing | 6.1 | 0.3 | 456 |
| Tanintharyi | 7.9 | 0.0 | 125 |
| Bago | 7.0 | 0.4 | 360 |
| Magway | 8.4 | 0.8 | 299 |
| Mandalay | 8.7 | 0.0 | 411 |
| Mon | 7.5 | 0.0 | 140 |
| Rakhine | 13.9 | 0.9 | 294 |
| Yangon | 4.8 | 0.4 | 423 |
| Shan | 10.2 | 0.2 | 564 |
| Ayeyarwady | 17.2 | 0.9 | 542 |
| Nay Pyi Taw | 8.6 | 1.3 | 92 |
| Mother's education |  |  |  |
| No education | 10.7 | 0.9 | 730 |
| Primary | 10.5 | 0.5 | 1,879 |
| Secondary | 11.4 | 0.3 | 1,175 |
| More than secondary | 6.1 | 0.6 | 314 |
| Wealth quintile |  |  |  |
| Lowest | 12.2 | 0.7 | 1,211 |
| Second | 12.6 | 0.8 | 906 |
| Middle | 9.7 | 0.3 | 691 |
| Fourth | 7.9 | 0.2 | 699 |
| Highest | 7.3 | 0.3 | 593 |
| Total | 10.4 | 0.5 | 4,099 |

[^15]Table 10.8 Diarrhea treatment

|  | Percentage of | Oral reh | ydration therap | (ORT) |  |  |  | Other tr | atments |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | treatment was sought from a health facility or provider ${ }^{1}$ | Fluid from ORS packet | Recommended home fluids (RHF) | Either ORS or RHF | Increased fluids | ORT or increased fluids | Antibiotic drugs | Antimotility drugs | Zinc supplements | Home remedy/other | Missing | No treatment | Number of children with diarrhea |
| Age in months |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <6 | (54.4) | (17.8) | (1.1) | (18.3) | (13.8) | (27.4) | (15.9) | (18.8) | (0.6) | (48.4) | (1.3) | (20.7) | 25 |
| 6-11 | 59.0 | 55.3 | 4.0 | 59.3 | 11.2 | 60.8 | 35.4 | 12.1 | 10.9 | 28.1 | 0.0 | 18.9 | 56 |
| 12-23 | 52.9 | 61.2 | 4.4 | 61.4 | 26.0 | 67.5 | 27.3 | 15.3 | 10.0 | 29.7 | 0.0 | 14.4 | 145 |
| 24-35 | 55.6 | 68.8 | 4.3 | 69.7 | 20.2 | 72.5 | 18.9 | 22.3 | 8.4 | 29.2 | 0.0 | 13.3 | 90 |
| 36-47 | 53.4 | 68.0 | 6.9 | 70.2 | 20.7 | 74.0 | 34.3 | 20.7 | 10.1 | 31.2 | 0.0 | 12.0 | 69 |
| 48-59 | 45.6 | 74.2 | 5.1 | 74.2 | 30.7 | 79.5 | 12.2 | 6.5 | 1.7 | 49.2 | 0.0 | 8.8 | 42 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 56.1 | 68.1 | 5.5 | 68.6 | 23.7 | 73.6 | 27.9 | 15.2 | 6.3 | 29.9 | 0.0 | 12.3 | 225 |
| Female | 51.1 | 54.9 | 3.6 | 56.8 | 19.5 | 60.8 | 22.9 | 18.2 | 10.8 | 35.7 | 0.2 | 16.2 | 203 |
| Type of diarrhea ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-bloody | 52.6 | 61.3 | 3.6 | 62.2 | 20.9 | 66.9 | 25.3 | 16.1 | 8.1 | 32.2 | 0.1 | 14.9 | 405 |
| Bloody | (73.6) | (70.3) | (23.1) | (77.8) | (34.3) | (79.8) | (31.7) | (25.9) | (15.2) | (38.0) | (0.0) | (0.0) | 21 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 48.7 | 67.1 | 7.5 | 71.7 | 29.2 | 77.0 | 30.9 | 9.4 | 14.9 | 37.4 | 0.4 | 5.0 | 77 |
| Rural | 54.8 | 60.7 | 4.0 | 61.1 | 20.1 | 65.5 | 24.4 | 18.2 | 7.0 | 31.6 | 0.0 | 16.2 | 350 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 36.1 | 54.3 | 0.7 | 54.3 | 22.7 | 60.2 | 18.2 | 7.5 | 5.0 | 23.5 | 0.4 | 26.3 | 78 |
| Primary | 53.0 | 60.9 | 7.1 | 63.3 | 22.2 | 66.5 | 20.1 | 17.4 | 7.3 | 36.9 | 0.0 | 12.0 | 197 |
| Secondary | 62.3 | 67.7 | 3.2 | 67.9 | 20.1 | 72.7 | 33.7 | 20.5 | 7.6 | 32.6 | 0.0 | 11.3 | 134 |
| More than secondary | * | * | * | * | * | * | * | * | * | * | * | * | 19 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 49.6 | 62.5 | 6.3 | 65.5 | 19.0 | 68.8 | 19.5 | 17.4 | 6.3 | 31.6 | 0.0 | 14.2 | 148 |
| Second | 54.1 | 61.2 | 4.9 | 61.6 | 28.4 | 65.9 | 23.9 | 16.7 | 6.8 | 35.2 | 0.0 | 15.4 | 114 |
| Middle | 49.1 | 56.6 | 1.0 | 56.8 | 21.9 | 61.5 | 18.5 | 17.5 | 0.7 | 31.9 | 0.5 | 23.4 | 67 |
| Fourth | 64.5 | 66.8 | 2.4 | 66.8 | 14.4 | 70.7 | 43.9 | 18.0 | 20.1 | 33.0 | 0.0 | 3.6 | 55 |
| Highest | (60.7) | (63.1) | (6.5) | (63.1) | (22.7) | (73.0) | (38.5) | (10.4) | (17.1) | (30.3) | (0.0) | (10.2) | 43 |
| Total | 53.7 | 61.9 | 4.6 | 63.0 | 21.7 | 67.6 | 25.5 | 16.6 | 8.4 | 32.6 | 0.1 | 14.2 | 427 |

 fewer than 25 unweighted cases and has been suppressed. Data by states and regions are not shown due to very few cases.
${ }^{1}$ Excludes pharmacy, shop, market, and traditional practitioner

[^16]Table 10.9 Feeding practices during diarrhea
Percent distribution of children under age 5 who had diarrhea in the 2 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, Myanmar DHS 2015-16

| Background characteristic | Amount of liquids given |  |  |  |  |  |  | Amount of food given |  |  |  |  |  |  |  | Percentage given increased fluids and continued feeding ${ }^{1}$ | Percentage who continued feeding and were given ORT and/or increased fluids ${ }^{1}$ | Number of children with diarrhea |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | More | Same as usual | Somewhat less | Much less | None | Don't know/ missing | Total | More | Same as usual | Some- what less | Much less | None | Never gave food | Don't know/ missing | Total |  |  |  |
| Age in months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <6 | (13.8) | (80.7) | (4.9) | (0.5) | (0.0) | (0.0) | 100.0 | (1.7) | (45.2) | (6.2) | (0.0) | (18.3) | (28.7) | (0.0) | 100.0 | (1.7) | (12.5) | 25 |
| 6-11 | 11.2 | 61.5 | 14.4 | 7.4 | 2.6 | 3.0 | 100.0 | 4.7 | 56.3 | 10.1 | 8.7 | 4.6 | 8.6 | 7.0 | 100.0 | 8.5 | 43.7 | 56 |
| 12-23 | 26.0 | 51.8 | 15.4 | 3.2 | 3.6 | 0.0 | 100.0 | 8.8 | 44.4 | 33.3 | 7.9 | 4.1 | 1.4 | 0.0 | 100.0 | 20.3 | 56.8 | 145 |
| 24-35 | 20.2 | 59.9 | 18.1 | 1.8 | 0.0 | 0.0 | 100.0 | 3.6 | 49.2 | 36.9 | 5.4 | 3.1 | 1.8 | 0.0 | 100.0 | 16.3 | 62.4 | 90 |
| 36-47 | 20.7 | 55.1 | 19.6 | 3.7 | 0.9 | 0.0 | 100.0 | 13.0 | 49.1 | 27.1 | 9.2 | 1.5 | 0.0 | 0.0 | 100.0 | 19.3 | 63.7 | 69 |
| 48-59 | 30.7 | 36.2 | 31.4 | 1.7 | 0.0 | 0.0 | 100.0 | 3.8 | 32.5 | 50.1 | 9.7 | 3.9 | 0.0 | 0.0 | 100.0 | 27.1 | 67.6 | 42 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 23.7 | 54.9 | 15.7 | 3.2 | 1.7 | 0.7 | 100.0 | 9.2 | 45.6 | 30.2 | 7.4 | 3.6 | 3.4 | 0.7 | 100.0 | 20.0 | 61.8 | 225 |
| Female | 19.5 | 56.2 | 19.4 | 3.2 | 1.8 | 0.0 | 100.0 | 4.5 | 47.8 | 30.0 | 7.4 | 5.2 | 4.0 | 1.1 | 100.0 | 14.4 | 49.3 | 203 |
| Type of diarrhea ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-bloody | 20.9 | 56.8 | 16.7 | 3.4 | 1.8 | 0.4 | 100.0 | 7.0 | 47.3 | 29.5 | 7.0 | 4.5 | 3.9 | 1.0 | 100.0 | 16.6 | 55.4 | 405 |
| Bloody | (34.3) | (32.3) | (32.8) | (0.6) | (0.0) | (0.0) | 100.0 | (6.8) | (36.0) | (42.3) | (12.1) | (2.9) | (0.0) | (0.0) | 100.0 | (31.7) | (66.4) | 21 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 29.2 | 58.3 | 10.9 | 0.8 | 0.9 | 0.0 | 100.0 | 3.8 | 48.6 | 26.8 | 5.9 | 8.2 | 3.9 | 2.9 | 100.0 | 24.8 | 62.5 | 77 |
| Rural | 20.1 | 54.9 | 18.9 | 3.8 | 1.9 | 0.5 | 100.0 | 7.6 | 46.2 | 30.8 | 7.7 | 3.5 | 3.6 | 0.5 | 100.0 | 15.7 | 54.4 | 350 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 22.7 | 52.2 | 20.7 | 2.3 | 0.0 | 2.1 | 100.0 | 6.2 | 54.2 | 27.0 | 5.1 | 3.1 | 2.3 | 2.1 | 100.0 | 18.7 | 51.0 | 78 |
| Primary | 22.2 | 58.6 | 14.5 | 2.5 | 2.3 | 0.0 | 100.0 | 6.8 | 42.8 | 31.4 | 9.0 | 5.1 | 3.7 | 1.1 | 100.0 | 17.1 | 52.9 | 197 |
| Secondary | 20.1 | 53.8 | 19.0 | 5.3 | 1.7 | 0.0 | 100.0 | 6.7 | 49.2 | 29.2 | 6.8 | 3.2 | 4.9 | 0.0 | 100.0 | 15.9 | 61.3 | 134 |
| More than secondary | * | * | * | * | * | * | 100.0 | * | * | * | * | * | * | * | 100.0 | * | * | 19 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 19.0 | 55.6 | 19.7 | 3.2 | 1.4 | 1.1 | 100.0 | 7.7 | 41.2 | 31.3 | 10.2 | 2.2 | 4.9 | 2.6 | 100.0 | 14.0 | 54.4 | 148 |
| Second | 28.4 | 47.6 | 19.1 | 3.2 | 1.7 | 0.0 | 100.0 | 7.2 | 49.4 | 30.3 | 4.4 | 6.7 | 2.1 | 0.0 | 100.0 | 23.1 | 55.5 | 114 |
| Middle | 21.9 | 57.9 | 13.7 | 5.4 | 1.1 | 0.0 | 100.0 | 5.3 | 45.1 | 33.9 | 8.4 | 5.4 | 2.0 | 0.0 | 100.0 | 17.5 | 48.6 | 67 |
| Fourth | 14.4 | 65.6 | 13.7 | 3.2 | 3.1 | 0.0 | 100.0 | 10.2 | 53.3 | 19.3 | 5.6 | 4.4 | 7.2 | 0.0 | 100.0 | 10.0 | 60.8 | 55 |
| Highest | (22.7) | (59.3) | (16.0) | (0.0) | (2.0) | (0.0) | 100.0 | (2.4) | (51.9) | (33.6) | (6.2) | (4.3) | (1.6) | (0.0) | 100.0 | (22.7) | (66.4) | 43 |
| Total | 21.7 | 55.5 | 17.5 | 3.2 | 1.7 | 0.4 | 100.0 | 6.9 | 46.6 | 30.1 | 7.4 | 4.4 | 3.7 | 0.9 | 100.0 | 17.3 | 55.8 | 427 |

[^17]Table 10.10 Symptoms of childhood illness that prompt treatment
Percent distribution of women age 15-49 who reported six major symptoms of childhood illness that would prompt them to take their child to a health facility immediately, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Fever | Becomes sicker | Diarrhea | Develops rashes | Difficult breathing | Signs of dengue ${ }^{1}$ | Number of respondents |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |
| 15-19 | 52.5 | 41.8 | 29.7 | 10.7 | 5.6 | 4.5 | 1,810 |
| 20-24 | 55.8 | 41.1 | 35.1 | 10.5 | 6.5 | 5.0 | 1,867 |
| 25-34 | 62.3 | 42.3 | 35.4 | 11.9 | 7.6 | 6.0 | 3,904 |
| 35-49 | 59.7 | 42.7 | 36.0 | 14.3 | 6.0 | 7.1 | 5,305 |
| Residence |  |  |  |  |  |  |  |
| Urban | 64.1 | 37.2 | 35.2 | 17.7 | 7.8 | 4.2 | 3,768 |
| Rural | 56.7 | 44.3 | 34.7 | 10.4 | 6.0 | 6.9 | 9,117 |
| States/Regions |  |  |  |  |  |  |  |
| Kachin | 54.9 | 45.3 | 19.1 | 6.2 | 5.1 | 1.1 | 374 |
| Kayah | 49.6 | 40.7 | 38.7 | 3.3 | 4.3 | 1.6 | 65 |
| Kayin | 59.7 | 44.8 | 33.0 | 4.5 | 4.7 | 1.3 | 303 |
| Chin | 26.6 | 64.1 | 29.4 | 1.2 | 3.2 | 0.2 | 102 |
| Sagaing | 50.7 | 44.7 | 19.3 | 14.2 | 3.0 | 0.1 | 1,410 |
| Tanintharyi | 66.9 | 39.1 | 59.1 | 19.1 | 5.6 | 2.8 | 283 |
| Bago | 56.7 | 41.6 | 36.4 | 8.7 | 9.8 | 18.2 | 1,244 |
| Magway | 50.6 | 31.5 | 46.5 | 14.3 | 9.1 | 13.7 | 1,081 |
| Mandalay | 61.1 | 42.4 | 34.2 | 11.6 | 6.4 | 15.4 | 1,541 |
| Mon | 47.8 | 73.8 | 32.8 | 8.9 | 5.8 | 5.1 | 463 |
| Rakhine | 66.2 | 65.7 | 49.5 | 4.8 | 6.7 | 2.1 | 777 |
| Yangon | 69.4 | 26.4 | 49.0 | 25.5 | 8.5 | 0.3 | 1,927 |
| Shan | 54.9 | 49.7 | 15.5 | 2.6 | 3.5 | 0.2 | 1,368 |
| Ayeyarwady | 62.1 | 37.3 | 31.8 | 13.7 | 6.1 | 4.3 | 1,650 |
| Nay Pyi Taw | 65.8 | 47.1 | 40.5 | 15.4 | 11.4 | 11.3 | 300 |
| Education ${ }^{2}$ |  |  |  |  |  |  |  |
| No education | 55.6 | 49.4 | 27.9 | 5.4 | 4.1 | 2.2 | 1,606 |
| Primary | 58.3 | 41.7 | 35.3 | 11.1 | 6.5 | 6.9 | 5,305 |
| Secondary | 58.8 | 41.7 | 35.5 | 14.5 | 6.7 | 6.4 | 4,646 |
| More than secondary | 65.6 | 37.8 | 39.0 | 20.0 | 8.9 | 6.2 | 1,325 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 56.1 | 46.8 | 34.3 | 6.5 | 5.6 | 4.1 | 2,274 |
| Second | 56.6 | 42.0 | 35.8 | 10.7 | 6.4 | 5.6 | 2,408 |
| Middle | 57.3 | 42.4 | 36.2 | 12.1 | 6.0 | 7.5 | 2,633 |
| Fourth | 60.1 | 42.5 | 32.7 | 13.1 | 7.4 | 7.4 | 2,702 |
| Highest | 63.4 | 38.5 | 35.0 | 18.7 | 6.9 | 5.5 | 2,868 |
| Total | 58.9 | 42.3 | 34.8 | 12.5 | 6.5 | 6.1 | 12,885 |

${ }^{1}$ Symptoms of dengue include sudden high fever, severe headaches, pain behind the eyes, severe muscle and joint pain, fatigue, nausea, vomiting, and skin rash.
${ }^{2}$ Total includes three women with missing information on education.

Table 10.11 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, Myanmar DHS 2015-16

| Background characteristic | Manner of disposal of children's stools |  |  |  |  |  |  |  | Percentage of children whose stools are disposed of safely ${ }^{1}$ | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Child used toilet or latrine | Put/rinsed into toilet or latrine | Buried | Put/rinsed into drain or ditch | Thrown into garbage | Left in the open | Other | Total |  |  |
| Age in months |  |  |  |  |  |  |  |  |  |  |
| <6 | 2.6 | 25.0 | 1.4 | 56.1 | 9.0 | 5.0 | 0.9 | 100.0 | 29.0 | 399 |
| 6-11 | 2.9 | 35.2 | 4.2 | 37.4 | 8.7 | 10.7 | 0.9 | 100.0 | 42.3 | 399 |
| 12-23 | 5.1 | 45.8 | 2.6 | 20.6 | 10.4 | 15.0 | 0.5 | 100.0 | 53.6 | 823 |
| 24-35 | 20.1 | 45.6 | 4.1 | 7.6 | 7.4 | 14.9 | 0.3 | 100.0 | 69.8 | 681 |
| 36-47 | 45.6 | 32.1 | 2.6 | 3.7 | 3.7 | 12.2 | 0.1 | 100.0 | 80.3 | 671 |
| 48-59 | 60.0 | 23.3 | 1.4 | 2.6 | 2.3 | 10.1 | 0.3 | 100.0 | 84.7 | 525 |
| Toilet facility ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Improved, not shared | 26.2 | 40.1 | 2.3 | 16.3 | 8.4 | 6.6 | 0.2 | 100.0 | 68.6 | 1,489 |
| Shared ${ }^{3}$ | 23.6 | 41.3 | 1.9 | 15.2 | 6.4 | 11.6 | 0.1 | 100.0 | 66.7 | 346 |
| Not improved | 21.1 | 31.6 | 3.4 | 20.3 | 5.8 | 17.1 | 0.8 | 100.0 | 56.1 | 1,663 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 28.8 | 44.9 | 0.5 | 14.7 | 8.2 | 2.8 | 0.2 | 100.0 | 74.2 | 822 |
| Rural | 21.9 | 33.5 | 3.5 | 19.1 | 6.6 | 14.9 | 0.5 | 100.0 | 58.8 | 2,676 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |
| Kachin | 39.8 | 21.0 | 3.7 | 8.7 | 10.0 | 16.9 | 0.0 | 100.0 | 64.4 | 130 |
| Kayah | 21.7 | 44.8 | 3.0 | 12.6 | 3.4 | 14.1 | 0.4 | 100.0 | 69.5 | 23 |
| Kayin | 17.8 | 27.1 | 4.0 | 18.8 | 8.1 | 18.9 | 5.3 | 100.0 | 48.9 | 110 |
| Chin | 28.7 | 20.0 | 2.0 | 26.9 | 4.7 | 17.7 | 0.0 | 100.0 | 50.7 | 40 |
| Sagaing | 37.8 | 21.5 | 4.7 | 16.8 | 12.3 | 6.9 | 0.0 | 100.0 | 64.1 | 390 |
| Tanintharyi | 16.5 | 33.4 | 1.2 | 18.1 | 3.1 | 27.7 | 0.0 | 100.0 | 51.1 | 100 |
| Bago | 27.4 | 37.7 | 4.0 | 14.3 | 1.8 | 14.8 | 0.0 | 100.0 | 69.1 | 324 |
| Magway | 20.3 | 52.8 | 1.5 | 14.5 | 6.1 | 4.9 | 0.0 | 100.0 | 74.6 | 266 |
| Mandalay | 7.6 | 42.9 | 1.8 | 18.8 | 16.1 | 12.9 | 0.0 | 100.0 | 52.3 | 374 |
| Mon | 20.6 | 32.5 | 4.4 | 20.4 | 7.5 | 14.0 | 0.5 | 100.0 | 57.5 | 119 |
| Rakhine | 6.3 | 17.1 | 3.1 | 24.3 | 6.1 | 40.2 | 2.8 | 100.0 | 26.6 | 236 |
| Yangon | 35.8 | 40.5 | 0.0 | 13.3 | 9.5 | 0.9 | 0.0 | 100.0 | 76.3 | 378 |
| Shan | 21.1 | 37.3 | 2.2 | 24.3 | 4.8 | 10.3 | 0.0 | 100.0 | 60.6 | 447 |
| Ayeyarwady | 22.7 | 47.9 | 3.5 | 19.3 | 0.8 | 5.6 | 0.3 | 100.0 | 74.0 | 481 |
| Nay Pyi Taw | 25.3 | 25.8 | 4.9 | 18.1 | 1.9 | 22.4 | 1.5 | 100.0 | 56.0 | 80 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |
| No education | 18.2 | 28.0 | 3.2 | 20.3 | 6.8 | 21.9 | 1.6 | 100.0 | 49.4 | 565 |
| Primary | 23.2 | 34.4 | 3.5 | 18.3 | 6.6 | 13.7 | 0.3 | 100.0 | 61.0 | 1,593 |
| Secondary | 25.8 | 39.3 | 2.2 | 17.8 | 7.4 | 7.5 | 0.1 | 100.0 | 67.2 | 1,045 |
| More than secondary | 27.2 | 50.5 | 0.3 | 13.9 | 7.2 | 0.9 | 0.0 | 100.0 | 78.0 | 295 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 15.7 | 30.6 | 3.5 | 20.0 | 5.7 | 23.4 | 1.1 | 100.0 | 49.8 | 954 |
| Second | 22.1 | 34.6 | 4.4 | 19.0 | 5.5 | 13.8 | 0.6 | 100.0 | 61.2 | 760 |
| Middle | 27.1 | 35.7 | 2.7 | 19.3 | 6.9 | 8.1 | 0.1 | 100.0 | 65.5 | 611 |
| Fourth | 28.3 | 38.5 | 1.7 | 18.0 | 6.9 | 6.5 | 0.1 | 100.0 | 68.5 | 625 |
| Highest | 29.5 | 45.9 | 0.5 | 12.0 | 11.3 | 0.8 | 0.0 | 100.0 | 75.9 | 547 |
| Total | 23.5 | 36.2 | 2.8 | 18.1 | 7.0 | 12.1 | 0.4 | 100.0 | 62.4 | 3,498 |

${ }^{1}$ 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.
${ }^{2}$ See Table 2.2 for definition of categories.
${ }^{3}$ Facilities that would be considered improved if they were not shared by two or more households

## Key Findings

- Nutritional status of children: Twenty-nine percent of children under age 5 are stunted (short for their age), $7 \%$ are wasted (thin for their height), 19\% are underweight (thin for their age), and $1 \%$ are overweight (heavy for their height).
- Breastfeeding: Almost all children (98\%) are breastfed at some point in their life. Half of infants under age 6 months are exclusively breastfed ( $51 \%$ ).
- Minimum acceptable diet: The feeding practices of only $16 \%$ of children age 6-23 months meet the minimum acceptable dietary standards.
- Anemia: Almost three in five children age 6-59 months are anemic ( $58 \%$ ), and $47 \%$ of women age $15-49$ are anemic.
- Salt iodization: Eighty-two percent of households use iodized salt for cooking.
- Obesity: Twenty-five percent of women age 15-49 are overweight or obese; 6\% are obese.

TThis chapter focuses on the nutritional status of children and women. It describes the nutritional status of children under age 5 and infant and young child feeding practices, including breastfeeding and feeding with solid/semisolid foods. Also covered are the diversity of foods fed and the frequency of feeding as well as micronutrient status, supplementation, and fortification. Relevant aspects of the nutritional status of women age 15-49 are addressed.

### 11.1 Nutritional Status of Children

The anthropometric data on height and weight collected in the 2015-16 MDHS permit the measurement and evaluation of the nutritional status of young children in Myanmar. This evaluation allows identification of subgroups of the child population that are at increased risk of faltered growth, disease, impaired mental development, and death.

### 11.1.1 Measurement of Nutritional Status among Young Children

The 2015-16 MDHS collected data on the nutritional status of children by measuring the height and weight of children under age 5 in all sampled households, regardless of whether their mother was interviewed in the survey. Weight measurements were obtained using lightweight SECA mother-infant scales with a digital screen, designed and manufactured under the guidance of UNICEF. Height measurements were carried out using a Shorr Productions measuring board. Children younger than age 24 months were measured lying down on the board (recumbent length), and standing height was measured for older children. Mid-upper-arm circumference (MUAC) was measured for children age 0-59 months using standard tapes supplied by UNICEF that were calibrated with the new WHO Child Growth Standards.

Children's height/length, weight, and age data were used to calculate three indices: height-for-age, weight-for-height, and weight-for-age. Each of these indices provides different information about growth and body composition for assessing nutritional status. As indicated in the box below, stunting, or low height-for-age, is a sign of chronic undernutrition that reflects failure to receive adequate nutrition over a long period. Stunting can also be affected by recurrent and chronic illness. Wasting, or low weight-for-height, is a measure of acute undernutrition and represents the failure to receive adequate nutrition in the period immediately before the survey. Wasting may result from inadequate food intake or from a recent episode of illness causing weight loss. The opposite of wasting is overweight (high weight-for-height), a measure of overnutrition. Weight-for-age is a composite index of weight-for-height and height-for-age. Thus, it includes both acute (wasting) and chronic (stunting) undernutrition and is an indicator of overall undernutrition.

## Stunting, or height-for-age

Height-for-age is a measure 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 median of the reference population are considered short for their age (stunted), or chronically undernourished. Children whose Z-score is below minus three standard deviations (-3 SD) from the median are considered severely stunted.
Sample: Children under age 5

## Wasting, or weight-for-height

The weight-for-height index measures body mass in relation to body height or length and describes current nutritional status. Children whose weight-forheight Z-score is below minus two standard deviations (-2 SD) from the median of the reference population are considered thin (wasted), or acutely undernourished. Children whose Z-score is below minus three standard deviations (-3SD) from the median are considered severely wasted.
Sample: Children under age 5

## Underweight, or weight-for-age

Weight-for-age is a composite index of height-for-age and weight-for-height. It takes into account both acute and chronic undernutrition. Children whose weight-for-age Z-score is below minus two standard deviations (-2 SD) from the median of the reference population are classified as underweight. Children whose Z-score is below minus three standard deviations (-3 SD) from the median are considered severely underweight.
Sample: Children under age 5

## Overweight in children

Children whose weight-for-height Z-score is more than two standard deviations (+2 SD) above the median of the reference population are considered overweight.
Sample: Children under age 5

The means of the Z-scores for height-for-age, weight-for-height, and weight-for-age are also calculated as summary statistics representing the nutritional status of children in a population. These mean scores describe the nutritional status of the entire population of children without the use of a cutoff point. A mean Z-score of less than 0 (i.e., a negative mean value for stunting, wasting, or underweight) suggests a downward shift in the entire sample population's nutritional status relative to the reference population. The farther away mean Z-scores are from 0 , the higher the prevalence of undernutrition.

### 11.1.2 Data Collection

A total of 4,594 children under age 5 were present in the MDHS sample households at the time of the survey, and complete and credible anthropometric (height and weight) data were collected for 4,100 of these children (89\%).

### 11.1.3 Levels of Child Malnutrition

According to the 2015-16 MDHS, $29 \%$ of children under age 5 are stunted and $8 \%$ are severely stunted, indicating chronic undernourishment. Seven percent are wasted and $1 \%$ are severely wasted, indicating acute undernutrition. Nineteen percent of children under age 5 are underweight, and $4 \%$ are severely underweight. Only $1 \%$ of children under age 5 are overweight (Table 11.1, Figure 11.1).

These figures imply that there has been some recent improvement in child undernutrition; the results of the 2009-10 Multiple Indicators Cluster Survey (MICS) showed that $35 \%$ of children under age 5 in Myanmar were stunted. Similarly, 8\% were wasted and $23 \%$ were underweight (MNPED and MOH 2011).

## Patterns by background characteristics

- Stunting becomes more prominent as children grow older, with the peak prevalence of moderate and severe stunting at age 24-35 months.
- Children in rural areas are more likely to be stunted (32\%) than those in urban areas (20\%).
- The proportions of children who are stunted and underweight both decline with increasing mother's education and increasing household wealth (Table 11.1, Figure 11.2).

Figure 11.2 Stunting in children by mother's education

Percentage of children under age 5 who are stunted


- Stunting among children is highest in Chin State, at $41 \%$, with $13 \%$ severely stunted (Figure 11.3).
- Overall, the nutritional status of children in Rakhine State is the worst in the country, with $38 \%$ of children stunted ( $18 \%$ severely stunted), $14 \%$ wasted, and $34 \%$ underweight.

For information on results regarding mid-upper-arm circumference, see Table 11.2.

### 11.2 Infant and Young Child Feeding Practices

Appropriate infant and young child feeding (IYCF) practices include exclusive breastfeeding in the first 6 months of life, continued breastfeeding through age 2 , introduction of solid and semisolid foods at age 6 months, and gradual increases in the amount and texture of food given and frequency of feeding as the child gets older. It is also important for young children to receive a diverse diet (i.e., foods from different food groups to address growing micronutrient needs) (WHO 2008).

### 11.2.1 Breastfeeding

## Initiation of Breastfeeding

Early initiation of breastfeeding is important for both the mother and the child. The first breast milk contains colostrum, which is highly nutritious and has antibodies that protect the newborn from diseases. Early initiation of breastfeeding also encourages bonding between the mother and her newborn, facilitating the production of regular breast milk. Thus, it is recommended that children be put to the breast immediately or within 1 hour after birth and that prelacteal feeding (i.e., feeding newborns anything other than breast milk before breast milk is regularly given) be discouraged.

## Early breastfeeding

Initiation of breastfeeding within 1 hour of birth.
Sample: Last-born children who were born in the 2 years before the survey

The Ministry of Health and Sports (MoHS) encourages facility delivery and supports the Baby Friendly Hospital Initiative (MoHS 2015a), in which early initiation of breastfeeding and rooming-in practices to increase bonding and protect newborns from harmful external environments are promoted. The MDHS results showed that $98 \%$ of last-born children in the 2 years before the survey had ever been breastfed; however, $20 \%$ received prelacteal feeding (Table 11.3). Myanmar complies with the National Strategy on Infant and Young Child Feeding (IYCF) (2011-2016), which encourages mothers to breastfeed exclusively until the child is age 6 months without any water, other fluids, or food (MoHS 2011).

## Patterns by background characteristics

- Newborns delivered at a health facility are more likely to be given prelacteal feeding (23\%) than those delivered at home (18\%).
- Children in Rakhine State are least likely to be breastfed within 1 hour of birth (37\%); that state also has the highest percentage of children receiving prelacteal feeding, contrary to recommendations.
- Newborns in the highest wealth quintile are more likely to receive prelacteal feeding (23\%) than newborns in the other wealth quintiles.


### 11.2.2 Exclusive Breastfeeding

Breast milk contains all of the nutrients needed by children in the first 6 months of life and is an uncontaminated nutritional source. It is recommended that children be exclusively breastfed in the first 6 months of their life; that is, they should be given nothing but breast milk. Complementing breast milk before age 6 months is unnecessary and is discouraged because the likelihood of contamination and the resulting risk of diarrheal disease are high. Early initiation of complementary feeding also reduces breast milk output because the production and release of breast milk is modulated by the frequency and intensity of suckling.

Table 11.4 and Figure 11.4 show breastfeeding practices according to the child's age group. Only half of infants under age 6 months are exclusively breastfed (51\%). Conversely, many children in this age group are given plain water (19\%) and complementary foods ( $21 \%$ ) in addition to breast milk.

The 2009-10 MICS indicated that only $24 \%$ of children under age 6 months in Myanmar were exclusively breastfed (MNPED and MOH 2011).

Figure 11.5 shows that among children under age 24 months, $12 \%$ are being fed using bottles with nipples, which is contrary to the Breast Milk Substitute Order of Myanmar launched in 2014 (MoHS 2014 c ). Overall, $71 \%$ of children under age 24 months are receiving age-appropriate breastfeeding, and $75 \%$ of children age 6-8 months are being given complementary foods. Although breastfeeding durations are fairly long- $88 \%$ of children are still breastfeeding at age 1 and $64 \%$ continue breastfeeding until their second birthday-the exclusive breastfeeding interval is still too short, with only half of children under age 6 months being exclusively breastfed.

Figure 11.5 IYCF breastfeeding indicators


* Predominant breastfeeding includes exclusive breastfeeding, breastfeeding plus water, and breastfeeding plus non-milk liquids/juice
${ }^{* *}$ Age appropriate breastfeeding $=$ Children age 0-5 months who are exclusively breastfed + children age 6-23 months who receive breast milk and complementary foods


### 11.2.3 Median Duration of Breastfeeding

The median duration of breastfeeding in Myanmar is 23.7 months; that is, half of children are breastfed until age 23.7 months. The median duration of exclusive breastfeeding is 2.3 months, and the median duration of predominant breastfeeding (the period in which a child receives only water or other non-milk liquids in addition to breast milk) is 4.6 months (Table 11.5).

## Patterns by background characteristics

- Children in rural areas have a longer median duration of breastfeeding than those in urban areas (25.1 months and 21.4 months, respectively).
- The median duration of breastfeeding declines as mother's education and household wealth increase.


### 11.2.4 Complementary Feeding

After the first 6 months, breast milk is no longer sufficient to meet the nutritional needs of the infant; therefore, complementary foods should be added to the child's diet. The transition from exclusive breastfeeding to family foods is referred to as complementary feeding. This is the most critical period for children, as during this transition they are most vulnerable to becoming undernourished. Complementary feeding should be timely; that is, all infants should start receiving foods in addition to breast milk from 6 months onwards.

Appropriate complementary feeding should include feeding children a variety of foods to ensure that requirements for nutrients are met. Fruits and vegetables rich in vitamin A should be consumed daily. Eating a range of fruits and vegetables, in addition to those rich in vitamin A, is also important. Studies have shown that plant-based complementary foods by themselves are insufficient to meet the needs for certain micronutrients. Therefore, it has been recommended that meat, poultry, fish, or eggs be part of the child's daily diet as well or eaten as often as possible (WHO 1998).

In the 2015-16 MDHS, women who had at least one child living with them who was born in 2013 or later were asked questions about the types of liquids and foods the child had consumed during the day or night
before the interview. Mothers who had more than one child born in 2013 or a later year were asked questions about the youngest child living with them.

Table 11.6 indicates the types of foods and liquids received by children during the day and night before the interview by their age and breastfeeding status. Overall, food made from grains was the most commonly consumed item, followed by meat, fish, and poultry and vitamin A-rich fruits and vegetables.

## Patterns by background characteristics

- Ninety-two percent of breastfeeding children age 6-23 months receive complementary foods, as compared with $97 \%$ of nonbreastfeeding children in the same age group.
- Thirty-eight percent of breastfeeding children age 6-23 months consumed fruits and vegetables rich in vitamin A in the 24 hours before the survey, compared with $45 \%$ of nonbreastfeeding children of the same age.
- Thirty percent of breastfeeding children and 39\% of nonbreastfeeding children age 6-23 months consumed eggs during the 24 hours before the survey.
- Forty-two percent of breastfeeding children and 59\% of nonbreastfeeding children age 6-23 months consumed meat, fish, and/or poultry in the 24 hours before the survey.


### 11.2.5 Minimum Acceptable Diet

Infant and young children should be fed a minimum acceptable diet to ensure appropriate growth and development. Without adequate dietary diversity and meal frequency, infants and young children are vulnerable to undernutrition, especially stunting and micronutrient deficiencies, and to increased morbidity and mortality. The WHO minimum acceptable diet recommendation, which is a combination of dietary diversity and minimum meal frequency, is different for breastfed and nonbreastfed children. The composite indicator of a minimum acceptable diet for all children age 6-23 months is defined in the box below.

Dietary diversity is a proxy for adequate micronutrient density of foods. Minimum dietary diversity means feeding the child food from at least four food groups. The cut-off of four food groups is associated with better-quality diets for both breastfed and nonbreastfed children. Consumption of food from at least four groups means that the child has a high likelihood of consuming at least one animal source of food and at least one fruit or vegetable in addition to a staple food (grains, roots, or tubers) (WHO 2008). The four groups should come from a list of seven food groups: grains, roots, and tubers; legumes and nuts; dairy products (milk, yogurt, cheese); flesh foods (meat, fish, poultry, and liver/organ meat); eggs; vitamin Arich fruits and vegetables; and other fruits and vegetables.

Minimum meal frequency is a proxy for a child's energy requirements. For infants and young children, the indicator is based on how much energy the child needs and, if the child is breastfed, the amount of energy needs not met by breast milk. Breastfed children are considered to be fed with a minimum meal frequency if they receive solid, semisolid, or soft foods at least twice a day (for infants age 6-8 months) or at least three times a day (for children age 9-23 months). Nonbreastfed children age 6-23 months are considered to be fed with a minimum meal frequency if they receive solid, semisolid, or soft foods at least four times a day.

## Minimum acceptable diet

Proportion of children age 6-23 months who receive a minimum acceptable diet (apart from breast milk). This composite indicator is calculated from the following two fractions:

Breastfed children age 6-23 months who had at least the minimum dietary diversity and the minimum meal frequency during the previous day
Breastfed children age 6-23 months
and
Nonbreastfed children age 6-23 months who received at least two milk feedings and had at least the minimum dietary diversity (not including milk feeds) and the minimum meal frequency during the previous day
Nonbreastfed children age 6-23 months

According to the MDHS results, the feeding practices of only $16 \%$ of children in Myanmar age 6-23 months meet the minimum standards with respect to all three IYCF practices (i.e., breastfeeding status, number of food groups, and times they were fed during the day or night before the survey) (Table 11.7). Twenty-five percent of children had an adequately diverse diet-that is, they had been given foods from the appropriate number of food groups-and $58 \%$ had been

Figure 11.6 IYCF indicators on minimum acceptable diet
 fed the minimum number of times appropriate for their age (Figure 11.6).

## Patterns by background characteristics

- Breastfed children are much less likely to receive the minimum number of food groups than nonbreastfed children ( $22 \%$ and $42 \%$, respectively).
- Children in urban areas (21\%) are more likely to be fed according to the three recommended IYCF practices than those in rural areas (14\%).
- Children whose mothers have more education and those who are from the higher wealth quintiles are more likely to be fed according to the three recommended IYCF practices than those whose mothers have less education and those from the lower wealth quintiles.


### 11.3 Anemia Prevalence in Children

## Anemia prevalence

Any anemia is defined as a blood hemoglobin level below $11.0 \mathrm{~g} / \mathrm{dl}$ in children. In the DHS, severe anemia is defined as below $7.0 \mathrm{~g} / \mathrm{dl}$; moderate anemia is defined as $7.0-9.9 \mathrm{~g} / \mathrm{dl}$.
Sample: Children age 6-59 months

Anemia is a condition that is marked by low levels of hemoglobin in the blood. Iron is a key component of hemoglobin, and iron deficiency is estimated to be responsible for half of all anemia globally. Other causes of anemia include malaria, hookworm and other helminths, other nutritional deficiencies, chronic infections, and genetic conditions. Anemia is a serious concern for children because it can impair cognitive development, stunt growth, and increase morbidity from infectious diseases.

As part of the MDHS, hemoglobin testing was carried out among children age 6-59 months. Overall, $58 \%$ of children had anemia, with $31 \%$ having mild anemia, $26 \%$ having moderate anemia, and only $1 \%$ having severe anemia (Table 11.8, Figure 11.7).

## Patterns by background characteristics

- The prevalence of anemia declines with the child's age, ranging from a high of $81 \%$ among children age 6-8 months to a low of $41 \%$ among children age 48-59 months.
- Children from Sagaing Region have the highest prevalence of anemia ( $71 \%$ ), followed by those from Yangon Region ( $66 \%$ ) and Tanintharyi Region, Ayeyarwady Region, and Rakhine State ( $62 \%$ each); those from Shan State have the lowest prevalence (40\%) (Figure 11.8).


### 11.4 Micronutrient Intake and Supplementation among Children

Micronutrient deficiency is a major contributor to childhood morbidity and mortality. Micronutrients are available in foods and can also be provided through direct supplementation. Breastfeeding children benefit from supplements given to their mother.

The information collected on food consumption among the youngest children under age 2 is useful in assessing the extent to which children are consuming food groups rich in two key micronutrients-vitamin A and iron-in their daily diet. Iron deficiency is one of the primary causes of anemia, which has serious health consequences for both women and 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 and is the leading cause of childhood blindness. VAD also increases the severity of infections such as measles and diarrheal disease in children and slows recovery from illness. VAD is common in dry environments where fresh fruits and vegetables are not readily available. In addition to questions on food consumption, the 2015-16 MDHS included
questions designed to ascertain whether young children had received vitamin A supplements or deworming medication in the 6 months before the survey.

Seventy percent of children age 6-23 months consumed foods rich in vitamin A in the 24 hours before the interview, and $59 \%$ consumed foods rich in iron. Among children age 6-59 months, only half (54\%) received vitamin A supplementation in the 6 months before the survey, and less than half ( $43 \%$ ) received deworming medication (albendazole) during that period (Table 11.9).

## Patterns by background characteristics

- Among children age 6-23 months, the percentage who consumed foods rich in vitamin A and foods rich in iron in the 24 hours before the interview increases with increasing age. Similarly, among children age 6-59 months, older children are more likely to be given deworming medication than younger children.
- Nonbreastfed children are more likely than breastfed children to have consumed foods rich in vitamin A and foods rich in iron in the 24 hours before the survey.
- There are strong differences in micronutrient intake by state/region. For example, the proportion of children age 6-59 months who received a vitamin A supplement in the 6 months before the survey varies from $44 \%$ in Kayin State to $82 \%$ in Kayah State.


### 11.5 Presence of Iodized Salt in Households

Iodine is an essential micronutrient, and iodized salt prevents goiter and other thyroid-related health problems among children and adults. In line with food and drug regulations, household salt should be fortified with iodine to at least 15 parts per million. The 2015-16 MDHS tested for the presence of iodine in household salt; overall, salt was tested in $98 \%$ of households (Table 11.10).

The aim of the Health Management Information System (HMIS) is for at least $90 \%$ of households to use qualified iodized salt for cooking (MoHS, 2012). However, the MDHS results showed that only $82 \%$ of households in which salt was tested had iodized salt. It should be noted that household salt was tested for the presence or absence of iodine only; the iodine content in the salt was not measured.

## Patterns by background characteristics

- Over 90\% of households in Kachin State, Kayah State, Bago Region, Mandalay Region, Yangon Region, and Nay Pyi Taw used iodized salt.
- Households in the coastal areas-Tanintharyi Region (32\%), Ayeyarwady Region (52\%), Rakhine State ( $60 \%$ ), and Mon State (79\%) -are less likely to use iodized salt.


### 11.6 Nutritional Status of Women

The 2015-16 MDHS collected anthropometric data on height and weight for $98 \%$ of the women age 15-49 interviewed in the survey. These data were used to calculate several measures of nutritional status, specifically maternal height and body mass index (BMI). Information on BMI is presented in Table 11.11.

## Body mass index (BMI)

BMI is calculated by dividing weight in kilograms by height in meters squared $\left(\mathrm{kg} / \mathrm{m}^{2}\right)$. A BMI of less than 18.5 indicates that respondents are too thin for their height (that is, they have a chronic energy deficiency). At the other end of the BMI scale, women are considered overweight if their BMI falls between 25.0 and 29.9 and obese if their BMI is greater than or equal to 30.0.

Sample: Women age 15-49 who are not pregnant and who have not had a birth in the 2 months before the survey

Among women age $15-49,6 \%$ are of short stature (below 145 cm ). The mean BMI for women age 15-49 is 22.5. Sixteen percent of women are thin (BMI below 18.5), while $60 \%$ have a normal BMI (between 18.5 and 24.9); $25 \%$ are overweight or obese, and $6 \%$ are obese (Table 11.11).

## Patterns by background characteristics

- Chin State has the highest proportion of women (14\%) who are of short stature (under 145 cm ).
- The proportion of women who are overweight or obese is higher in urban areas (33\%) than in rural areas $(21 \%)$. Conversely, women in rural areas are more likely to be thin or of normal BMI than women in urban areas.
- Yangon Region has the highest percentage of women classified as overweight (26\%) and obese (8\%).
- The proportion of women who are overweight or obese tends to rise with increasing education and wealth.


### 11.7 Anemia Prevalence in Women

## Anemia prevalence

Any anemia is defined as a blood hemoglobin level below $11.0 \mathrm{~g} / \mathrm{dl}$ in pregnant women and below $12.0 \mathrm{~g} / \mathrm{dl}$ in nonpregnant women. The cut-offs are adjusted for altitude for enumeration areas above 1,000 meters and for cigarette smoking.
Sample: Women age 15-49

Anemia among women age 15-49 was measured using capillary blood collected from a finger prick. Hemoglobin was successfully measured for almost all of the women interviewed.

Nearly half of women (47\%) are anemic (Table 11.12). Thirty-eight percent are classified as mildly anemic, $8 \%$ as moderately anemic, and $1 \%$ as severely anemic (Figure 11.9).

## Patterns by background characteristics

- Pregnant women are more likely to be anemic (57\%) than those who are lactating (48\%) or those who are neither pregnant nor lactating (46\%) (Figure 11.9).
- Anemia is slightly more prevalent among women who have had six or more births and among women who are using IUDs.
- Women in Rakhine State and Tanintharyi Region (55\% each) are most likely to be anemic.


### 11.8 Micronutrient Intake among Mothers

The 2015-16 MDHS included questions to ascertain whether mothers had received vitamin A supplements after birth and whether they had taken iron supplements or deworming medication during pregnancy. The MoHS provides vitamin A supplements to postpartum women (200,000 IU) within 42 days of their delivery, provides iron supplements ( 180 tablets during pregnancy) and deworming tablets (one tablet after the first trimester) to pregnant women, and offers education on eating iron-rich foods and avoiding parasites to prevent anemia.

Only $35 \%$ of women age 15-49 who gave birth in the 5 years before the survey received vitamin A supplementation during the first 2 months after delivery. Almost $60 \%$ of women took iron supplements for at least 90 days during their pregnancy. Only $55 \%$ of women took deworming tablets during the pregnancy of their last birth (Table 11.13). Eighty-one percent of women who delivered their last child in the 5 years before the survey lived in households with iodized salt.

## Patterns by background characteristics

- Women in urban areas were more likely than those in rural areas to have received postpartum vitamin A supplements ( $43 \%$ versus $33 \%$ ), to have taken iron supplements during pregnancy for at least 90 days ( $76 \%$ versus $54 \%$ ), to have taken deworming tablets during pregnancy ( $60 \%$ versus $54 \%$ ), and to live in households with iodized salt ( $93 \%$ versus $77 \%$ ).
- Women with more education and those from the highest wealth quintile are more likely to have received a postpartum vitamin A supplement and iron tablets during pregnancy than less educated and less wealthy women.


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- Table 11.13 Micronutrient intake among mothers

|  | Height-for-age ${ }^{1}$ |  |  |  | Weight-for-height |  |  |  |  | Weight-for-age |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Percentage below -3 SD | Percentage below -2 SD ${ }^{2}$ | $\begin{gathered} \text { Mean Z- } \\ \text { score (SD) } \end{gathered}$ | Number of children | Percentage below -3 SD | Percentage below -2 SD ${ }^{2}$ | Percentage above +2 SD | $\begin{gathered} \text { Mean Z- } \\ \text { score (SD) } \\ \hline \end{gathered}$ | Number of children | Percentage below -3 SD | Percentage below-2 $S^{2}$ | Percentage above +2 SD | $\begin{aligned} & \text { Mean Z- } \\ & \text { score (SD) } \end{aligned}$ | Number of children |
| States/Regions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kachin | 10.6 | 36.1 | -1.5 | 154 | 0.6 | 4.0 | 1.5 | -0.2 | 154 | 4.3 | 17.3 | 0.0 | -1.0 | 154 |
| Kayah | 12.2 | 39.7 | -1.6 | 30 | 0.6 | 2.6 | 2.8 | -0.1 | 30 | 2.6 | 17.9 | 0.3 | -1.0 | 30 |
| Kayin | 6.1 | 25.4 | -1.2 | 177 | 1.8 | 5.9 | 2.6 | -0.3 | 177 | 2.9 | 15.2 | 1.4 | -0.9 | 178 |
| Chin | 12.8 | 41.0 | -1.5 | 61 | 0.5 | 3.3 | 2.6 | -0.1 | 59 | 4.3 | 16.7 | 2.0 | -1.0 | 60 |
| Sagaing | 6.4 | 26.7 | -1.3 | 474 | 0.9 | 6.0 | 1.5 | -0.5 | 474 | 3.1 | 13.4 | 0.3 | -1.1 | 474 |
| Tanintharyi | 4.7 | 25.6 | -1.1 | 148 | 2.4 | 10.3 | 1.6 | -0.7 | 148 | 3.6 | 19.6 | 0.3 | -1.1 | 148 |
| Bago | 4.3 | 23.0 | -1.2 | 406 | 2.2 | 6.1 | 0.3 | -0.7 | 407 | 3.4 | 17.6 | 0.0 | -1.2 | 407 |
| Magway | 10.1 | 25.9 | -1.4 | 299 | 1.3 | 6.2 | 0.9 | -0.6 | 295 | 3.3 | 21.8 | 0.4 | -1.1 | 299 |
| Mandalay | 6.7 | 26.1 | -1.3 | 424 | 0.6 | 7.1 | 1.6 | -0.5 | 420 | 2.4 | 18.0 | 0.8 | -1.1 | 424 |
| Mon | 6.1 | 28.1 | -1.2 | 168 | 0.7 | 6.8 | 0.0 | -0.6 | 168 | 2.4 | 18.8 | 0.4 | -1.1 | 168 |
| Rakhine | 17.8 | 37.5 | -1.7 | 269 | 3.7 | 13.9 | 0.2 | -0.9 | 269 | 11.3 | 34.3 | 0.0 | -1.6 | 269 |
| Yangon | 5.0 | 20.3 | -0.8 | 433 | 2.2 | 12.6 | 3.5 | -0.7 | 430 | 3.6 | 15.3 | 2.1 | -1.0 | 436 |
| Shan | 12.3 | 36.5 | -1.6 | 433 | 1.4 | 4.7 | 0.8 | -0.2 | 435 | 3.4 | 15.5 | 0.4 | -1.1 | 438 |
| Ayeyarwady | 9.1 | 37.2 | -1.7 | 522 | 0.0 | 3.9 | 0.9 | -0.6 | 516 | 3.1 | 24.6 | 1.1 | -1.3 | 521 |
| Nay Pyi Taw | 5.6 | 22.0 | -1.2 | 93 | 0.0 | 6.6 | 0.0 | -0.6 | 92 | 2.8 | 16.3 | 0.0 | -1.1 | 92 |
| Mother's education ${ }^{7}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 15.0 | 39.3 | -1.7 | 645 | 1.3 | 7.6 | 0.4 | -0.5 | 645 | 6.2 | 25.5 | 0.0 | -1.4 | 648 |
| Primary | 8.7 | 31.5 | -1.4 | 1,813 | 1.3 | 7.0 | 1.0 | -0.5 | 1,808 | 4.0 | 19.8 | 0.6 | -1.2 | 1,818 |
| Secondary | 4.6 | 22.5 | -1.1 | 1,081 | 1.2 | 7.0 | 2.0 | -0.5 | 1,074 | 2.4 | 15.2 | 1.1 | -1.0 | 1,085 |
| More than secondary | 3.8 | 16.9 | -1.0 | 289 | 2.7 | 9.0 | 2.6 | -0.6 | 289 | 1.2 | 15.4 | 0.6 | -1.0 | 289 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 12.2 | 38.0 | -1.6 | 1,179 | 1.3 | 7.8 | 0.7 | -0.5 | 1,169 | 5.4 | 24.5 | 0.5 | -1.3 | 1,176 |
| Second | 8.7 | 31.9 | -1.5 | 916 | 1.3 | 5.7 | 1.2 | -0.5 | 913 | 4.4 | 18.8 | 0.1 | -1.2 | 919 |
| Middle | 8.6 | 29.1 | -1.3 | 735 | 0.9 | 7.7 | 1.3 | -0.6 | 730 | 3.8 | 18.4 | 0.6 | -1.1 | 736 |
| Fourth | 4.9 | 21.1 | -1.2 | 701 | 1.1 | 5.1 | 2.0 | -0.5 | 703 | 2.0 | 15.6 | 1.3 | -1.0 | 706 |
| Highest | 2.9 | 16.0 | -0.9 | 557 | 2.3 | 9.0 | 1.9 | -0.5 | 561 | 1.2 | 12.4 | 1.4 | -0.8 | 563 |
| Total | 8.2 | 29.2 | -1.3 | 4,089 | 1.3 | 7.0 | 1.3 | -0.5 | 4,076 | 3.7 | 18.9 | 0.7 | -1.1 | 4,100 |

[^18]Table 11.2 Mid-upper-arm circumference among children
Percentage of children age 3-59 months by MUAC-for-age, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | MUAC-for-age |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Percentage below -3 SD | Percentage below -2 SD ${ }^{1}$ | $\begin{gathered} \text { Mean Z- } \\ \text { score (SD) } \end{gathered}$ | Number of children |
| Age in months |  |  |  |  |
| 3-6 | 0.4 | 1.4 | 0.4 | 254 |
| 6-11 | 0.6 | 1.8 | 0.0 | 330 |
| 12-23 | 0.8 | 3.2 | -0.1 | 837 |
| 24-35 | 0.5 | 4.4 | -0.4 | 781 |
| 36-47 | 0.1 | 4.5 | -0.5 | 899 |
| 48-59 | 0.2 | 4.2 | -0.7 | 834 |
| Sex |  |  |  |  |
| Male | 0.4 | 3.4 | -0.3 | 2,037 |
| Female | 0.5 | 4.0 | -0.4 | 1,898 |
| Birth interval in months ${ }^{\mathbf{2}}$ |  |  |  |  |
| First birth ${ }^{3}$ | 0.7 | 2.7 | -0.3 | 1,255 |
| <24 | 0.6 | 6.6 | -0.5 | 297 |
| 24-47 | 0.4 | 4.9 | -0.4 | 812 |
| 48+ | 0.1 | 2.8 | -0.3 | 1,220 |
| Size at birth ${ }^{2}$ |  |  |  |  |
| Very small | (0.0) | (8.2) | (0.8) | 49 |
| Small | 1.1 | 6.6 | -0.6 | 388 |
| Average or larger | 0.4 | 3.1 | -0.3 | 2,997 |
| Don't know | 0.0 | 3.8 | -0.6 | 149 |
| Mother's interview status |  |  |  |  |
| Interviewed | 0.4 | 3.6 | -0.3 | 3,583 |
| Not interviewed but in household | 0.0 | 9.4 | -0.6 | 94 |
| Not interviewed and not in the household ${ }^{4}$ | 0.6 | 3.6 | -0.3 | 258 |
| Mother's nutritional status ${ }^{5}$ |  |  |  |  |
| Thin (BMI < 18.5) | 0.8 | 5.6 | -0.6 | 429 |
| Normal (BMI 18.5-24.9) | 0.4 | 3.5 | -0.3 | 2,102 |
| Overweight/obese (BMI $\geq 25$ ) | 0.2 | 2.4 | -0.2 | 840 |
| Residence |  |  |  |  |
| Urban | 0.2 | 2.7 | -0.2 | 844 |
| Rural | 0.5 | 4.0 | -0.4 | 3,091 |
| States/Regions |  |  |  |  |
| Kachin | 0.0 | 3.8 | -0.4 | 149 |
| Kayah | 0.6 | 2.5 | -0.0 | 30 |
| Kayin | 0.0 | 2.0 | -0.1 | 174 |
| Chin | 1.0 | 4.5 | -0.4 | 57 |
| Sagaing | 1.0 | 3.5 | -0.4 | 461 |
| Tanintharyi | 0.3 | 2.3 | -0.5 | 144 |
| Bago | 0.4 | 2.3 | -0.3 | 397 |
| Magway | 0.4 | 2.7 | -0.0 | 282 |
| Mandalay | 0.0 | 2.2 | -0.4 | 397 |
| Mon | 0.0 | 3.4 | -0.3 | 160 |
| Rakhine | 1.7 | 13.0 | -0.9 | 248 |
| Yangon | 0.5 | 3.8 | -0.4 | 425 |
| Shan | 0.0 | 5.5 | -0.3 | 401 |
| Ayeyarwady | 0.4 | 1.9 | -0.3 | 520 |
| Nay Pyi Taw | 0.0 | 2.1 | -0.5 | 91 |
| Mother's education ${ }^{6}$ |  |  |  |  |
| No education | 0.6 | 8.3 | -0.6 | 616 |
| Primary | 0.2 | 3.0 | -0.3 | 1,742 |
| Secondary | 0.7 | 2.4 | -0.2 | 1,039 |
| More than secondary | 0.1 | 2.6 | -0.2 | 274 |

Table 11.2 - Continued

| Background <br> characteristic | MUAC-for-age |  |  |  |
| :--- | :--- | :--- | :--- | ---: |

Note: Table is based on children who stayed in the household on the night before the interview. The measure is expressed in standard deviation units (SD) from the median of the WHO Child Growth Standards adopted in 2006. Table is based on children with valid dates of birth (month and year) and valid measurement of mid-upper-arm circumference. Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes children who are below -3 standard deviations (SD) from the WHO Child Growth Standards population median
${ }^{2}$ Excludes children whose mothers were not interviewed
${ }^{3}$ First-born twins (triplets, etc.) are counted as first births because they do not have a previous birth interval
${ }^{4}$ Includes children whose mothers are deceased
${ }^{5}$ 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 11.11.
${ }^{6}$ For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire. Total includes 6 children with missing information on mother's education.

Table 11.3 Initial breastfeeding
Among last-born children who were born in the 2 years preceding the survey, the percentage who were ever breastfed and the percentages who started breastfeeding within 1 hour and within 1 day of birth, and among last-born children born in the 2 years preceding the survey who were ever breastfed, the percentage who received a prelacteal feed, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Among last-born children born in the past 2 years: |  |  |  | Among last-born children born in the past 2 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 ${ }^{1}$ | Number of last-born children | Percentage who received a prelacteal feed ${ }^{2}$ | Number of last-born children ever breastfed |
| Sex |  |  |  |  |  |  |
| Male | 97.7 | 64.4 | 82.6 | 899 | 22.4 | 878 |
| Female | 98.6 | 69.5 | 86.0 | 771 | 18.2 | 760 |
| Assistance at delivery |  |  |  |  |  |  |
| Health personnel ${ }^{3}$ | 98.1 | 69.2 | 86.5 | 1,189 | 19.5 | 1,167 |
| Traditional birth attendant | 98.2 | 60.7 | 77.8 | 407 | 20.7 | 400 |
| Other | 97.0 | 65.6 | 81.7 | 62 | 31.3 | 60 |
| No one | * | * | * | 11 | * | 11 |
| Place of delivery |  |  |  |  |  |  |
| Health facility | 97.9 | 65.0 | 83.8 | 756 | 23.1 | 740 |
| At home | 98.2 | 68.2 | 84.6 | 908 | 18.2 | 892 |
| Other | * | * | * | 6 | * | 6 |
| Residence |  |  |  |  |  |  |
| Urban | 97.6 | 69.8 | 88.3 | 419 | 19.0 | 409 |
| Rural | 98.2 | 65.8 | 82.8 | 1,250 | 20.9 | 1,228 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 95.9 | 64.3 | 75.3 | 56 | 23.9 | 54 |
| Kayah | 99.3 | 71.9 | 84.6 | 12 | 31.3 | 12 |
| Kayin | 96.6 | 75.9 | 87.8 | 66 | 22.3 | 64 |
| Chin | 98.3 | 70.4 | 87.9 | 24 | 24.3 | 24 |
| Sagaing | 99.2 | 63.3 | 79.6 | 172 | 26.9 | 170 |
| Tanintharyi | 99.1 | 62.5 | 84.3 | 48 | 36.5 | 47 |
| Bago | 97.9 | 63.4 | 84.2 | 135 | 18.3 | 132 |
| Magway | 99.3 | 77.1 | 87.5 | 119 | 13.1 | 118 |
| Mandalay | 98.2 | 70.9 | 87.4 | 183 | 14.2 | 180 |
| Mon | 98.0 | 61.7 | 84.6 | 59 | 23.1 | 57 |
| Rakhine | 97.3 | 37.0 | 70.7 | 121 | 37.1 | 118 |
| Yangon | 98.3 | 83.6 | 94.5 | 193 | 7.6 | 189 |
| Shan | 98.6 | 70.0 | 88.2 | 232 | 24.0 | 229 |
| Ayeyarwady | 97.0 | 59.1 | 77.0 | 217 | 18.4 | 211 |
| Nay Pyi Taw | 98.4 | 74.6 | 91.3 | 32 | 14.2 | 31 |
| Mother's education |  |  |  |  |  |  |
| No education | 99.2 | 66.3 | 83.9 | 264 | 25.5 | 262 |
| Primary | 98.6 | 67.3 | 84.2 | 730 | 18.4 | 720 |
| Secondary | 97.2 | 66.8 | 83.8 | 532 | 20.2 | 517 |
| More than secondary | 96.7 | 64.8 | 85.7 | 143 | 22.5 | 139 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 98.9 | 65.7 | 82.6 | 444 | 19.8 | 439 |
| Second | 97.9 | 63.1 | 81.1 | 367 | 20.9 | 359 |
| Middle | 98.6 | 68.9 | 84.8 | 286 | 19.0 | 283 |
| Fourth | 96.9 | 67.5 | 86.7 | 303 | 20.0 | 293 |
| Highest | 97.7 | 70.4 | 87.5 | 270 | 22.9 | 264 |
| Total | 98.1 | 66.8 | 84.2 | 1,669 | 20.4 | 1,637 |

Note: Table is based on last-born children born in the 2 years preceding the survey regardless of whether the children are living or dead at the time of the interview. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Includes children who started breastfeeding within 1 hour of birth
${ }^{2}$ Children given something other than breast milk during the first 3 days of life
${ }^{3}$ Doctor, nurse/midwife/lady health visitor, or auxiliary midwife

## Table 11.4 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, Myanmar DHS 2015-16

| Age in months | Not breastfeeding | Breastfeeding status |  |  |  |  |  | Percentage currently breastfeeding | 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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Exclusively breastfed | Breastfeeding and consuming plain water only | Breastfeeding and consuming non-milk liquids ${ }^{1}$ | Breastfeeding and consuming other milk | Breastfeeding and consuming compleme ntary foods | Total |  |  |  |  |
| 0-1 | 0.0 | 70.7 | 16.0 | 0.1 | 4.4 | 8.8 | 100.0 | 100.0 | 91 | 8.4 | 94 |
| 2-3 | 2.8 | 52.7 | 24.2 | 1.1 | 7.0 | 12.2 | 100.0 | 97.2 | 155 | 9.6 | 155 |
| 4-5 | 1.9 | 38.2 | 14.1 | 5.3 | 3.5 | 36.9 | 100.0 | 98.1 | 153 | 4.9 | 155 |
| 6-8 | 3.9 | 5.2 | 11.6 | 1.0 | 6.0 | 72.4 | 100.0 | 96.1 | 201 | 13.9 | 201 |
| 9-11 | 2.1 | 2.5 | 1.9 | 0.2 | 0.4 | 92.9 | 100.0 | 97.9 | 198 | 10.1 | 202 |
| 12-17 | 12.9 | 0.5 | 2.0 | 0.8 | 0.3 | 83.6 | 100.0 | 87.1 | 454 | 13.9 | 468 |
| 18-23 | 32.1 | 0.0 | 0.4 | 0.5 | 1.4 | 65.5 | 100.0 | 67.9 | 369 | 13.4 | 383 |
| 0-3 | 1.8 | 59.3 | 21.1 | 0.8 | 6.0 | 11.0 | 100.0 | 98.2 | 246 | 9.2 | 249 |
| 0-5 | 1.8 | 51.2 | 18.5 | 2.5 | 5.1 | 20.9 | 100.0 | 98.2 | 399 | 7.5 | 404 |
| 6-9 | 3.1 | 5.0 | 8.7 | 0.8 | 4.5 | 77.9 | 100.0 | 96.9 | 283 | 12.4 | 283 |
| 12-15 | 12.1 | 0.6 | 2.0 | 0.6 | 0.4 | 84.4 | 100.0 | 87.9 | 340 | 15.0 | 347 |
| 12-23 | 21.5 | 0.3 | 1.3 | 0.6 | 0.8 | 75.5 | 100.0 | 78.5 | 823 | 13.7 | 852 |
| 20-23 | 36.2 | 0.1 | 0.6 | 0.1 | 0.0 | 63.1 | 100.0 | 63.8 | 237 | 13.6 | 250 |

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, breastfeeding and consuming plain water, non-milk liquids, other milk, and complementary foods (solids and semisolids) are hierarchical and mutually exclusive, and their percentages add 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.
${ }^{1}$ Non-milk liquids include juice, juice drinks, clear broth, or other liquids.

| Median duration of any breastfeeding, exclusive breastfeeding, and predominant breastfeeding among children born in the 3 years preceding the survey, by background characteristics, Myanmar DHS 2015-16 |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Median duration (months) of breastfeeding among children born in the past 3 years ${ }^{1}$ |  |  |
| Background characteristic | Any breastfeeding | Exclusive breastfeeding | Predominant breastfeeding ${ }^{2}$ |
| Sex |  |  |  |
| Male | 24.7 | 1.7 | 4.5 |
| Female | 22.7 | 3.4 | 4.8 |
| Residence |  |  |  |
| Urban | 21.4 | (2.3) | 4.6 |
| Rural | 25.1 | 2.3 | 4.7 |
| Mother's education |  |  |  |
| No education | 25.2 | * | 4.5 |
| Primary | 25.1 | (2.1) | 4.3 |
| Secondary | 23.3 | 2.6 | 4.6 |
| More than secondary | (20.1) | (4.1) | (6.1) |
| Wealth quintile |  |  |  |
| Lowest | 27.0 | 2.5 | 4.7 |
| Second | 25.1 | (1.1) | 3.5 |
| Middle | 25.2 | 2.7 | 4.4 |
| Fourth | 21.1 | * | 4.7 |
| Highest | 20.7 | 3.7 | 5.4 |
| Total | 23.7 | 2.3 | 4.6 |
| Mean for all children | 24.2 | 3.8 | 5.5 |

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. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ It is assumed that non-last-born children and last-born children not currently living with their mother are not currently breastfeeding
${ }^{2}$ Either exclusively breastfed or received breast milk and plain water, and/or non-milk liquids only

Table 11.6 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, Myanmar DHS 2015-16

|  |  | Liquids |  | Solid or semi-solid foods |  |  |  |  |  |  |  |  | Any solid or semisolid food | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age in months | Infant formula | Other milk ${ }^{1}$ | Other liquids ${ }^{2}$ | Fortified baby foods | Food made from grains ${ }^{3}$ | Fruits and vegetables rich in vitamin $A^{4}$ | 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 |  |  |
| BREASTFEEDING CHILDREN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0-1 | 3.9 | 3.3 | 0.1 | 0.0 | 6.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 | 91 |
| 2-3 | 6.1 | 3.7 | 3.3 | 2.0 | 9.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.6 | 150 |
| 4-5 | 5.5 | 5.0 | 7.6 | 7.6 | 25.3 | 3.7 | 1.3 | 0.6 | 2.3 | 1.8 | 3.4 | 1.5 | 37.6 | 150 |
| 6-8 | 6.2 | 8.5 | 15.5 | 12.1 | 49.8 | 19.5 | 4.7 | 1.4 | 13.2 | 16.6 | 14.5 | 1.0 | 75.3 | 193 |
| 9-11 | 3.1 | 9.3 | 38.6 | 3.6 | 65.3 | 36.3 | 16.5 | 9.4 | 15.4 | 34.7 | 29.5 | 3.0 | 94.9 | 194 |
| 12-17 | 2.8 | 8.6 | 54.2 | 3.5 | 71.7 | 38.2 | 14.5 | 15.8 | 27.4 | 49.5 | 33.4 | 7.2 | 96.0 | 395 |
| 18-23 | 4.5 | 12.7 | 63.7 | 2.5 | 69.2 | 54.2 | 19.4 | 16.1 | 24.3 | 53.9 | 37.3 | 4.8 | 96.5 | 251 |
| 6-23 | 3.9 | 9.7 | 46.3 | 4.9 | 65.8 | 38.2 | 14.2 | 12.0 | 21.7 | 41.6 | 30.1 | 4.6 | 92.0 | 1,033 |
| Total | 4.3 | 8.2 | 34.8 | 4.6 | 51.8 | 28.1 | 10.5 | 8.7 | 16.0 | 30.4 | 22.2 | 3.5 | 72.6 | 1,424 |
| NONBREASTFEEDING CHILDREN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <12 | * | * | * | * | * | * | * | * | * | * | * | * | * | 19 |
| 12-17 | 6.5 | 32.3 | 52.2 | 3.6 | 78.2 | 40.6 | 20.1 | 22.7 | 22.4 | 50.0 | 38.2 | 3.6 | 93.4 | 59 |
| 18-23 | 13.7 | 21.0 | 72.8 | 5.3 | 73.4 | 51.7 | 27.8 | 21.3 | 35.0 | 66.3 | 43.0 | 4.1 | 99.8 | 119 |
| 6-23 | 11.8 | 26.7 | 62.9 | 6.1 | 72.3 | 45.0 | 23.6 | 20.4 | 28.9 | 58.5 | 39.0 | 3.7 | 96.5 | 189 |
| Total | 13.4 | 26.6 | 60.8 | 5.9 | 69.6 | 43.3 | 22.8 | 19.6 | 27.8 | 56.3 | 37.5 | 3.6 | 93.9 | 197 |

Note: Breastfeeding status and food consumed refer to a " 24 -hour" period (yesterday and last night). An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Other milk includes fresh, tinned, and powdered animal milk.
${ }^{2}$ Does not include plain water. Includes juice, juice drinks, clear broth, or other non-milk liquids.
${ }^{3}$ Includes fortified baby food
${ }^{4}$ Includes pumpkin, carrots, squash, sweet potatoes, dark green leafy vegetables, mangoes, papayas, and other locally grown fruits and vegetables that are rich in vitamin A

| Table 11.7 Infant and young child feeding (IYCF) practices |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percentage of youngest children age 6-23 months living with their mother who are fed according to three IYCF feeding practices based on breastfeeding status, number of food groups, and they are fed during the day or night preceding the survey, by background characteristics, Myanmar DHS 2015-16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Among breastfed children 6-23 months, percentage fed: |  |  |  | Among nonbreastfed children 6-23 months, percentage fed: |  |  |  |  | Among all children 6-23 months, percentage fed: |  |  |  |  |
| Background characteristic | $\begin{aligned} & \text { 4+ food } \\ & \text { groups } \end{aligned}$ | $\begin{aligned} & \text { Minimum } \\ & \text { meal } \\ & \text { frequency } \end{aligned}$ | Both 4+ food groups and minimum meal frequency | Number of breastfed children 6 23 months | Milk or milk products ${ }^{3}$ | $4+\text { food }$ $\text { groups }{ }^{1}$ | Minimum meal frequency ${ }^{4}$ | $\begin{gathered} \text { With } 3 \\ \text { IYCF } \\ \text { practices }^{5} \end{gathered}$ | Number of nonbreastfed children 623 months | Breastmilk, milk or milk products | $\begin{aligned} & \text { 4, food } \\ & \text { groups } \end{aligned}$ | Minimum meal frequency ${ }^{7}$ | With 3 IYCF practices | Number of all children 6-23 months |
| Age in months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6-8 | 8.1 | 61.7 | 7.3 | 193 | * | * | * | * | 8 | 99.1 | 7.8 | 62.0 | 7.0 | 201 |
| 9-11 | 17.8 | 47.7 | 13.1 | 194 | * | * | * | * | 4 | 99.2 | 17.5 | 48.0 | 12.8 | 198 |
| 12-17 | 26.3 | 55.7 | 19.7 | 395 | 38.1 | 38.3 | 51.4 | 15.8 | 59 | 92.0 | 27.8 | 55.1 | 19.2 | 454 |
| 18-23 | 27.4 | 67.7 | 22.1 | 251 | 22.9 | 48.6 | 54.1 | 9.6 | 119 | 75.2 | 34.2 | 63.3 | 18.1 | 369 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 24.3 | 57.3 | 17.7 | 544 | 30.0 | 44.6 | 53.6 | 9.2 | 114 | 87.9 | 27.8 | 56.7 | 16.2 | 658 |
| Female | 18.5 | 59.3 | 15.7 | 489 | 31.9 | 39.0 | 54.7 | 13.5 | 75 | 90.9 | 21.2 | 58.7 | 15.4 | 564 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 28.1 | 53.9 | 21.9 | 248 | 32.8 | 57.0 | 49.6 | 16.2 | 62 | 86.6 | 33.9 | 53.0 | 20.8 | 310 |
| Rural | 19.5 | 59.6 | 15.1 | 784 | 29.8 | 35.3 | 56.2 | 8.3 | 128 | 90.2 | 21.7 | 59.1 | 14.2 | 912 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kachin | 36.1 | 41.5 | 20.2 | 27 | * | * | * | * | 10 | 80.1 | 37.5 | 39.3 | 18.0 | 37 |
| Kayah | 17.3 | 78.2 | 15.2 | 8 | * | * | * | * | 2 | 88.0 | 21.6 | 74.1 | 14.6 | 10 |
| Kayin | 13.2 | 35.9 | 5.3 | 40 | * | * | * | * | 7 | 92.2 | 17.8 | 37.8 | 6.4 | 47 |
| Chin | 11.2 | 59.9 | 6.3 | 14 | * | * | * | * | 2 | 89.6 | 11.8 | 55.4 | 6.4 | 16 |
| Sagaing | 8.8 | 59.8 | 6.3 | 112 | * | * | * | * | 7 | 95.4 | 9.5 | 58.6 | 6.0 | 119 |
| Tanintharyi | 18.7 | 62.8 | 14.4 | 29 | * | * | * | * | 5 | 90.8 | 19.1 | 62.6 | 13.2 | 34 |
| Bago | 26.9 | 59.8 | 20.1 | 92 | * | * | * | * | 13 | 92.7 | 28.8 | 60.8 | 20.3 | 105 |
| Magway | 31.8 | 78.5 | 25.5 | 79 | * | * | * | * | 4 | 97.0 | 32.3 | 78.1 | 24.2 | 83 |
| Mandalay | 42.6 | 85.7 | 36.9 | 107 | * | * | * | * | 26 | 83.2 | 46.8 | 80.6 | 32.3 | 133 |
| Mon | 9.3 | 57.8 | 5.6 | 33 | * | * | * | * | 5 | 93.9 | 14.1 | 60.5 | 6.3 | 38 |
| Rakhine | 12.7 | 31.4 | 6.1 | 76 | * | * | * | * | 10 | 94.2 | 17.0 | 34.5 | 7.2 | 86 |
| Yangon | 12.9 | 42.2 | 11.2 | 129 | * | * | * | * | 14 | 91.4 | 14.1 | 40.5 | 11.3 | 143 |
| Shan | 24.2 | 69.6 | 21.2 | 118 | (31.2) | (43.5) | (51.5) | (9.2) | 62 | 76.4 | 30.8 | 63.4 | 17.1 | 180 |
| Ayeyarwady | 18.6 | 48.9 | 13.8 | 147 |  |  |  |  | 21 | 92.0 | 20.5 | 51.9 | 12.9 | 168 |
| Nay Pyi Taw | 39.2 | 74.7 | 36.0 | 21 | * | * | * | * | 1 | 96.8 | 41.1 | 73.0 | 36.6 | 22 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 13.3 | 52.5 | 9.6 | 154 | (31.7) | (23.8) | (57.1) | (10.9) | 30 | 88.8 | 15.0 | 53.2 | 9.8 | 185 |
| Primary | 18.3 | 59.5 | 14.7 | 470 | 30.1 | 39.9 | 49.5 | 6.9 | 77 | 90.1 | 21.4 | 58.1 | 13.6 | 547 |
| Secondary | 24.9 | 59.0 | 20.3 | 329 | 32.8 | 43.1 | 52.7 | 13.7 | 63 | 89.2 | 27.8 | 58.0 | 19.2 | 392 |
| More than secondary | 42.6 | 58.9 | 28.0 | 80 | * | * | * | * | 19 | 85.7 | 49.8 | 61.5 | 26.1 | 99 |

Table 11.8 Prevalence of anemia in children
Percentage of children age 6-59 months classified as having anemia, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Anemia status by hemoglobin level |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Any anemia (<11.0 g/dl) | $\begin{gathered} \hline \text { Mild anemia } \\ (10.0-10.9 \\ \mathrm{g} / \mathrm{dl}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Moderate } \\ \text { anemia } \\ (7.0-9.9 \mathrm{~g} / \mathrm{dl}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Severe } \\ \text { anemia } \\ (<7.0 \mathrm{~g} / \mathrm{dl}) \\ \hline \end{gathered}$ | Number of children age 6-59 months |
| Age in months |  |  |  |  |  |
| 6-8 | 81.0 | 37.2 | 43.8 | 0.0 | 136 |
| 9-11 | 74.8 | 33.7 | 40.3 | 0.8 | 163 |
| 12-17 | 77.7 | 31.6 | 45.3 | 0.7 | 387 |
| 18-23 | 73.3 | 34.6 | 37.9 | 0.8 | 345 |
| 24-35 | 58.8 | 31.7 | 25.9 | 1.2 | 723 |
| 36-47 | 50.2 | 31.9 | 17.8 | 0.6 | 833 |
| 48-59 | 40.8 | 26.2 | 14.5 | 0.1 | 789 |
| Sex |  |  |  |  |  |
| Male | 57.7 | 29.3 | 27.6 | 0.7 | 1,738 |
| Female | 57.9 | 32.9 | 24.5 | 0.5 | 1,638 |
| Mother's interview status |  |  |  |  |  |
| Interviewed | 59.3 | 31.7 | 26.9 | 0.6 | 3,071 |
| Not interviewed but in household | 50.4 | 32.4 | 17.5 | 0.5 | 64 |
| Not interviewed and not in the household ${ }^{1}$ | 40.9 | 22.0 | 17.9 | 1.0 | 241 |
| Residence |  |  |  |  |  |
| Urban | 58.7 | 35.5 | 22.9 | 0.3 | 699 |
| Rural | 57.5 | 29.9 | 26.9 | 0.7 | 2,676 |
| States/Regions |  |  |  |  |  |
| Kachin | 47.8 | 24.4 | 22.5 | 0.9 | 141 |
| Kayah | 45.6 | 25.0 | 20.6 | 0.0 | 25 |
| Kayin | 46.7 | 26.9 | 19.0 | 0.8 | 162 |
| Chin | 42.3 | 23.6 | 17.6 | 1.1 | 53 |
| Sagaing | 70.5 | 31.7 | 38.4 | 0.5 | 312 |
| Tanintharyi | 61.6 | 35.9 | 24.8 | 0.9 | 134 |
| Bago | 54.0 | 31.5 | 22.1 | 0.4 | 374 |
| Magway | 59.5 | 22.5 | 35.4 | 1.5 | 254 |
| Mandalay | 57.8 | 36.7 | 21.1 | 0.0 | 327 |
| Mon | 54.8 | 25.3 | 27.8 | 1.6 | 142 |
| Rakhine | 61.5 | 31.6 | 29.6 | 0.3 | 236 |
| Yangon | 66.3 | 42.3 | 24.0 | 0.0 | 384 |
| Shan | 40.3 | 27.1 | 12.6 | 0.6 | 275 |
| Ayeyarwady | 61.9 | 29.7 | 31.4 | 0.8 | 474 |
| Nay Pyi Taw | 57.7 | 26.0 | 29.8 | 2.0 | 81 |
| Mother's education ${ }^{2}$ |  |  |  |  |  |
| No education | 53.4 | 30.6 | 22.0 | 0.8 | 491 |
| Primary | 60.7 | 30.3 | 29.8 | 0.6 | 1,546 |
| Secondary | 58.0 | 34.6 | 22.9 | 0.5 | 880 |
| More than secondary | 65.2 | 33.3 | 31.6 | 0.2 | 217 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 58.8 | 29.7 | 28.2 | 0.9 | 1,020 |
| Second | 58.9 | 31.1 | 27.3 | 0.5 | 782 |
| Middle | 58.6 | 31.0 | 26.9 | 0.7 | 608 |
| Fourth | 52.9 | 30.6 | 22.0 | 0.3 | 558 |
| Highest | 58.6 | 35.2 | 22.9 | 0.5 | 408 |
| Total | 57.8 | 31.1 | 26.1 | 0.6 | 3,376 |

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).
${ }^{1}$ Includes children whose mothers are deceased
${ }^{2}$ For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.

Table 11.9 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, and among all children 6-59 months, the percentages who were given vitamin A supplements in the 6 months preceding the survey, who were given iron supplements in the past 7 days, and who were given deworming medication in the 6 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, Myanmar DHS 2015-16

| 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 ${ }^{1}$ | Percentage who consumed foods rich in iron in last 24 hours $^{2}$ | Number of children | Percentage given vitamin A supplements in past 6 months | Percentage given iron supplements in past 7 days | Percentage given deworming medication in past 6 months ${ }^{3}$ | Number of children | Percentage living in households with iodized salt ${ }^{4}$ | Number of children |
| Age in months |  |  |  |  |  |  |  |  |  |
| 6-8 | 31.7 | 25.3 | 201 | 34.2 | 9.8 | 6.4 | 201 | 76.7 | 196 |
| 9-11 | 63.2 | 49.7 | 198 | 44.3 | 2.8 | 15.2 | 202 | 81.6 | 201 |
| 12-17 | 76.3 | 65.5 | 454 | 49.9 | 10.4 | 22.2 | 468 | 78.0 | 463 |
| 18-23 | 85.1 | 72.6 | 369 | 60.1 | 7.7 | 32.3 | 383 | 81.8 | 383 |
| 24-35 | na | na | na | 57.0 | 8.5 | 46.4 | 782 | 77.3 | 773 |
| 36-47 | na | na | na | 53.3 | 6.5 | 54.4 | 866 | 80.9 | 856 |
| 48-59 | na | na | na | 60.6 | 9.3 | 59.0 | 792 | 82.3 | 783 |
| Sex |  |  |  |  |  |  |  |  |  |
| Male | 69.7 | 59.1 | 658 | 52.7 | 7.6 | 41.9 | 1,916 | 80.7 | 1,899 |
| Female | 69.3 | 57.8 | 564 | 56.1 | 8.6 | 43.3 | 1,779 | 79.2 | 1,755 |
| Breastfeeding status |  |  |  |  |  |  |  |  |  |
| Breastfeeding | 67.5 | 55.9 | 1,033 | 51.6 | 9.2 | 29.2 | 1,506 | 78.6 | 1,485 |
| Not breastfeeding | 80.4 | 72.8 | 189 | 56.3 | 7.3 | 51.7 | 2,189 | 81.0 | 2,169 |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |
| 15-19 | 46.3 | 37.0 | 45 | 52.7 | 3.3 | 40.8 | 73 | 82.2 | 73 |
| 20-29 | 72.7 | 62.2 | 600 | 46.9 | 6.5 | 37.7 | 1,574 | 79.5 | 1,560 |
| 30-39 | 68.8 | 58.3 | 492 | 59.2 | 9.6 | 45.4 | 1,641 | 81.3 | 1,618 |
| 40-49 | 63.7 | 45.4 | 85 | 64.3 | 8.9 | 50.0 | 406 | 76.3 | 402 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 79.0 | 69.0 | 310 | 53.3 | 8.4 | 36.9 | 821 | 92.8 | 815 |
| Rural | 66.3 | 54.9 | 912 | 54.7 | 8.0 | 44.2 | 2,874 | 76.3 | 2,839 |
| States/Regions |  |  |  |  |  |  |  |  |  |
| Kachin | 75.4 | 62.5 | 37 | 61.3 | 6.7 | 54.7 | 146 | 93.2 | 146 |
| Kayah | 61.1 | 55.0 | 10 | 81.8 | 1.2 | 57.4 | 29 | 99.4 | 29 |
| Kayin | 56.7 | 50.6 | 47 | 43.7 | 12.4 | 42.5 | 125 | 71.5 | 122 |
| Chin | 52.3 | 49.8 | 16 | 53.9 | 0.6 | 49.5 | 53 | 88.0 | 53 |
| Sagaing | 67.3 | 57.9 | 119 | 73.0 | 7.6 | 47.6 | 409 | 85.1 | 409 |
| Tanintharyi | 65.6 | 57.8 | 34 | 52.0 | 1.1 | 43.7 | 112 | 34.1 | 111 |
| Bago | 69.7 | 59.3 | 105 | 55.6 | 9.6 | 45.3 | 331 | 92.4 | 324 |
| Magway | 73.1 | 62.7 | 83 | 51.3 | 30.0 | 47.0 | 267 | 90.6 | 262 |
| Mandalay | 77.6 | 67.4 | 133 | 59.5 | 7.2 | 46.6 | 364 | 90.9 | 362 |
| Mon | 60.5 | 51.2 | 38 | 70.3 | 1.5 | 52.7 | 119 | 75.6 | 114 |
| Rakhine | 68.8 | 54.3 | 86 | 56.0 | 5.6 | 48.4 | 258 | 55.6 | 255 |
| Yangon | 78.2 | 67.6 | 143 | 48.2 | 5.6 | 30.3 | 381 | 97.1 | 381 |
| Shan | 64.4 | 46.2 | 180 | 44.6 | 3.6 | 27.7 | 515 | 85.5 | 513 |
| Ayeyarwady | 67.8 | 59.4 | 168 | 44.8 | 9.0 | 45.0 | 504 | 52.5 | 491 |
| Nay Pyi Taw | 76.6 | 71.4 | 22 | 62.2 | 2.1 | 44.0 | 84 | 94.2 | 83 |
| Mother's education |  |  |  |  |  |  |  |  |  |
| No education | 58.8 | 45.2 | 185 | 43.9 | 6.6 | 36.2 | 660 | 67.8 | 653 |
| Primary | 66.3 | 54.1 | 547 | 56.5 | 8.1 | 44.6 | 1,718 | 78.0 | 1,695 |
| Secondary | 74.8 | 66.8 | 392 | 56.9 | 7.4 | 43.8 | 1,048 | 87.8 | 1,039 |
| More than secondary | 87.0 | 75.1 | 99 | 56.5 | 14.2 | 40.4 | 270 | 92.0 | 267 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 62.1 | 51.3 | 327 | 49.3 | 8.1 | 43.3 | 1,107 | 64.4 | 1,087 |
| Second | 67.9 | 57.9 | 271 | 53.4 | 7.1 | 42.5 | 824 | 81.4 | 816 |
| Middle | 63.2 | 51.1 | 211 | 55.8 | 8.8 | 43.2 | 624 | 85.3 | 618 |
| Fourth | 77.3 | 66.9 | 215 | 63.4 | 8.4 | 43.5 | 621 | 88.5 | 620 |
| Highest | 82.3 | 70.1 | 198 | 54.3 | 8.6 | 39.2 | 518 | 94.0 | 513 |
| Total | 69.5 | 58.5 | 1,222 | 54.4 | 8.1 | 42.6 | 3,695 | 80.0 | 3,654 |

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.
na $=$ Not applicable
${ }^{1}$ 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
${ }^{2}$ Includes meat (and organ meat), fish, poultry, and eggs
${ }^{3}$ Deworming for intestinal parasites is commonly done for helminthes and for schistosomiasis.
${ }^{4}$ Excludes children in households in which salt was not tested

Table 11.10 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, Myanmar DHS 2015-16

| Background characteristic | Among all households, the percentage: |  |  | Among households with tested salt: |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | With salt tested | With no salt in the household | Number of households | Percentage with iodized salt | Number of households |
| Residence |  |  |  |  |  |
| Urban | 98.0 | 2.0 | 3,315 | 92.1 | 3,248 |
| Rural | 98.5 | 1.5 | 9,185 | 78.5 | 9,044 |
| States/Regions |  |  |  |  |  |
| Kachin | 98.7 | 1.3 | 365 | 91.3 | 360 |
| Kayah | 99.4 | 0.6 | 65 | 99.2 | 64 |
| Kayin | 98.3 | 1.7 | 335 | 73.3 | 329 |
| Chin | 99.5 | 0.5 | 105 | 89.5 | 105 |
| Sagaing | 99.7 | 0.3 | 1,295 | 87.2 | 1,291 |
| Tanintharyi | 96.2 | 3.8 | 306 | 31.9 | 294 |
| Bago | 97.2 | 2.8 | 1,269 | 90.8 | 1,233 |
| Magway | 98.5 | 1.5 | 1,062 | 89.1 | 1,045 |
| Mandalay | 98.9 | 1.1 | 1,461 | 94.2 | 1,444 |
| Mon | 95.2 | 4.8 | 466 | 79.2 | 444 |
| Rakhine | 98.6 | 1.4 | 695 | 59.6 | 686 |
| Yangon | 99.7 | 0.3 | 1,730 | 97.1 | 1,724 |
| Shan | 98.7 | 1.3 | 1,339 | 87.4 | 1,322 |
| Ayeyarwady | 97.2 | 2.8 | 1,705 | 52.2 | 1,657 |
| Nay Pyi Taw | 97.0 | 3.0 | 303 | 94.1 | 294 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 97.0 | 3.0 | 2,583 | 66.3 | 2,505 |
| Second | 98.1 | 1.9 | 2,593 | 80.0 | 2,544 |
| Middle | 99.3 | 0.7 | 2,503 | 84.7 | 2,485 |
| Fourth | 99.1 | 0.9 | 2,424 | 87.2 | 2,402 |
| Highest | 98.2 | 1.8 | 2,397 | 93.2 | 2,355 |
| Total | 98.3 | 1.7 | 12,500 | 82.1 | 12,291 |

Table 11.12 Prevalence of anemia in women
Percentage of women age 15-49 with anemia, by background characteristics, Myanmar DHS 2015-16


Note: Prevalence is adjusted for altitude and for smoking status, if known, using formulas in CDC 1998.
${ }^{1}$ Total includes three women with missing information on education.

## Key Findings

- Ownership of nets: Although 97\% of households possess a mosquito net, only $27 \%$ own at least one insecticide-treated net (ITN).
- Access to an ITN: Only $21 \%$ of the household population has access to an ITN (if each ITN in the household were used by up to two people).
- Use of an ITN: Sixteen percent of the household population, $19 \%$ of children under age 5 , and $18 \%$ of pregnant women slept under an ITN the night before the survey.
- Treatment-seeking source: The majority (57\%) of children under age 5 with a recent fever, a symptom of malaria in endemic areas, received advice or treatment from a public sector source.

Malaria is a major public health problem in Myanmar, with more than two-thirds of the country's population living in areas of malaria risk. The peak period for malaria transmission is the monsoon and post-monsoon season that falls from June to December. The fieldwork for the 2015-16 MDHS was carried out in the low-transmission season from December to April/May. The malaria-endemic areas in Myanmar have been classified as high risk (Kachin State, Kayah State, Kayin State, Chin State, Sagaing Region, Rakhine State, Shan State, and Tanintharyi Region), moderate risk (Mon State), and low risk (Yangon Region, Mandalay Region, Magway Region, Bago Region, Ayeyarwady Region, and Nay Pyi Taw) via village-based micro-stratification and annual parasite incidence (API). The latest updated classification was carried out in the first and second quarters of 2015. The national malaria control program and other agencies such as the Myanmar Medical Association, the Myanmar Council of Churches, the Myanmar Red Cross Society, Population Services International, Save the Children, and the University Research Company-Control and Prevention of Malaria Project distribute insecticide-treated nets (ITNs) in most of the malaria-endemic areas.

This chapter presents data that are useful in assessing how well malaria control strategies are being implemented, including the availability and use of mosquito nets, the prophylactic and therapeutic use of antimalarial drugs, diagnostic testing of children with fever, and prevalence of anemia among children under age 5 .

### 12.1 Ownership of Insecticide-Treated Nets

## Ownership of insecticide-treated nets

Households that have at least one insecticide-treated net (ITN). An ITN is defined as (1) a factory-treated net that does not require any further treatment (long-lasting insecticidal net, or LLIN) or (2) a pretreated net obtained within the past 12 months or (3) a net that has been soaked with insecticide within the past 12 months.
Sample: Households

## Full household ITN coverage

Percentage of households with at least one ITN for every two people.
Sample: Households

Distribution of ITNs to households in malaria-endemic areas is one of the central malaria control interventions supported by the government in Myanmar. Almost all households (97\%) in Myanmar possess at least one mosquito net (treated or untreated), but only $27 \%$ possess at least one ITN (Table 12.1). On average, each household has 2.7 mosquito nets of any type and 0.6 ITNs. Three in four households had at least one net for every two persons who stayed in the household the night before the survey.

Fourteen percent of households had at least one ITN for every two people who stayed in the household the night preceding the survey, which indicates that all members of those households had access to an ITN. In other words, only $14 \%$ of households owned enough ITNs to cover all household members (Table 12.1, Figure 12.1). To offer maximum protection, ITN distribution needs to expand to reach the $73 \%$ of households that do not currently own any ITNs and to provide enough ITNs for the $13 \%$ of households that own at least one ITN but have an insufficient supply for the number of household members
(Figure 12.1).

Figure 12.1 Household ownership of ITNs


## Patterns by background characteristics

- Rural households are more likely to own an ITN than urban households ( $31 \%$ and $15 \%$, respectively).
- Households in the highest wealth quintile are less likely to possess an ITN than those in the other quintiles (Figure 12.2).
- The percentage of households with at least one ITN varies greatly according to state and region; ownership is highest in Kayah State (85\%) and lowest in Yangon Region (6\%).
- The proportion of households owning at least one ITN for every two residents also varies by state and region. In the high-risk areas, coverage is highest in Kayah State (59\%), Chin State (52\%), and Tanintharyi Region (47\%) and lowest in Kayin State (13\%) (Table 12.1).
- More than four in five mosquito nets ( $82 \%$ ) were purchased by households. Sixteen percent of nets were distributed by the government or nongovernmental organizations (NGOs). ITNs are most often distributed by the government or NGOs (75\%) (Table 12.2).


### 12.2 Household Access to and Use of ITNs

## Access to an ITN

Percentage of the population that could sleep under an ITN if each ITN in the household were used by up to two people.
Sample: De facto household population

## Use of ITNs

Percentage of the population that slept under an ITN the night before the survey.
Sample: De facto household population

Access to an ITN is measured by the proportion of the population that could sleep under an ITN if each ITN in the household were used by up to two people. Comparing ITN access and ITN use indicators can help programs identify if there is a behavioral gap in which available ITNs are not being used. If the difference between these indicators is substantial, the ITN program may need to focus on behavior change and how to identify the main drivers or barriers to ITN use to design appropriate interventions. This analysis helps ITN programs determine whether they need to achieve higher ITN coverage, promote ITN use, or both. Overall, $21 \%$ of the household population had access to an ITN; in other words $21 \%$ of those who stayed in the household the night before the survey could have slept under an ITN if each net were used by a maximum of two people (Table 12.3).

Overall, $16 \%$ of the population slept under an ITN the night before the survey (Table 12.4, Figure 12.3). However, in households that owned at least one ITN, $55 \%$ of members slept under an ITN. Overall, $58 \%$ of ITNs were used the night before the survey (Table 12.5).

Patterns by background characteristics

- Access to an ITN and use of an ITN by the household population are twice as high in rural areas as in urban areas. Twenty-five percent of rural residents have access to an ITN, as compared with $12 \%$ of urban residents, while $18 \%$ of rural residents and only $9 \%$ of urban residents used an ITN the night before survey (Figure 12.3).
- There are wide regional variations in access to an ITN, ranging from a high of $73 \%$ in Kayah State to a low of $4 \%$ in Yangon Region and Nay Pyi Taw (Figure 12.4).
- Similarly, use of an ITN varies by state and region; $42 \%$ of the household population in Tanintharyi Region and 40\% each in Kayah State, Chin State, and Rakhine State used an ITN the night before the survey, as compared with only $3 \%$ of the household population in Nay Pyi Taw and 4\% in Yangon Region.


### 12.3 Use of ITNs by Children and Pregnant Women

One of the key malaria control strategies is encouraging vulnerable populations such as children under age 5 and pregnant women to sleep under an ITN. Use of mosquito nets by pregnant women is an important strategy to prevent malaria morbidity and to reduce the negative effects of malaria on pregnancy and pregnancy outcomes.

Figure 12.3 Access to and use of ITNs by residence

Percentage of the household population with access to an ITN and who slept under an ITN the night before the survey
$■$ Access to an ITN $\quad$ Slept under an ITN


Figure 12.4 Access to ITNs by states and regions
Percent of the household population that could sleep under an ITN if each ITN in the household were used by up to 2 people


Although $82 \%$ of children under age 5 and $84 \%$ of pregnant women slept under any net the night before the survey, only $19 \%$ of children and $18 \%$ of pregnant women slept under an ITN (Table 12.6, Table 12.7, Figure 12.5).

In households with at least one ITN, $56 \%$ of children under age 5 and $62 \%$ of pregnant women slept under an ITN the night before the survey (Table 12.6 and Table 12.7).

## Patterns by background characteristics

Figure 12.5 Use of ITNs
Percentage who slept under an ITN the night before the survey

- Children in rural households are more likely to sleep under an ITN than children in urban households ( $22 \%$ versus $8 \%$ ) (Table 12.6). Similarly, pregnant women in rural areas are more likely than those in urban areas to sleep under an ITN ( $21 \%$ versus $10 \%$ ) (Table 12.7).
- More than two in five children under age 5 slept under an ITN in the high-risk areas of Tanintharyi Region (47\%), Rakhine State (46\%), Kayah State (45\%), and Chin State (42\%) (Table 12.6).
- The proportions of children under age 5 and pregnant women sleeping under an ITN are larger in households in the lowest wealth quintile than in households in the highest quintile.


### 12.4 Case Management of Malaria in Children

## Care seeking for children under age 5 with a fever

Percentage of children under age 5 with a fever in the 2 weeks before the survey for whom advice or treatment was sought from a health provider, a health facility, or a pharmacy.
Sample: Children under age 5 with a fever in the 2 weeks before the survey
Diagnosis of malaria in children under age 5 with a fever
Percentage of children under age 5 with a fever in the 2 weeks before the survey who had blood taken from a finger or heel for testing. This is a proxy measure of diagnostic testing for malaria.
Sample: Children under age 5 with a fever in the 2 weeks before the survey

## Artemisinin-based combination therapy (ACT) for children under age 5 with a fever

Among children under age 5 with a fever in the 2 weeks before the survey who took any antimalarial drugs, the percentage who received artemisinin-based combination therapy (ACT).
Sample: Children under age 5 with a fever in the 2 weeks before the survey

Prompt and effective treatment for malaria is crucial to prevent the disease from becoming severe and complicated. The first line of treatment for Plasmodium falciparum malaria in Myanmar is artemisininbased combination therapy (ACT), common forms of which include artemether-lumefantrine, atesunatemefloquine, and dihydroartemisinin-piperaquine. Evidence of artemisinin resistance in Myanmar gave rise to the Myanmar Artemisinin Resistance Containment (MARC) project, which sought to address the issue of artemisinin-resistant parasites (WHO 2013).

Overall, $16 \%$ of children under age 5 had a fever in the 2 weeks before the survey. Advice or treatment was sought for $65 \%$ of these children with recent fever, and $3 \%$ had blood taken from a finger or heel, presumably for diagnostic testing (Table 12.8).

Among children under age 5 with recent fever for whom advice or treatment was sought, $57 \%$ received advice or treatment from any public sector source, while $31 \%$ received advice or treatment from any private source (Table 12.9). Government sub-centers and government hospitals are the primary sources in the government sector, with private hospitals and clinics playing an important role in the private sector. Nine percent of children received advice or treatment from a shop. Only $1 \%$ of children received antimalarial drugs for treatment of fever in the 2 weeks preceding the survey (data not shown).

### 12.5 Prevalence of Low Hemoglobin in Children

Prevalence of low hemoglobin in children
Percentage of children age 6-59 months who had a blood hemoglobin measurement below 8 grams per deciliter ( $\mathrm{g} / \mathrm{dl}$ ). The cut-off of $8 \mathrm{~g} / \mathrm{dl}$ is often used to classify malaria-related anemia. This is a different cut-off than that used to classify severe anemia in Chapter 11 ( $7 \mathrm{~g} / \mathrm{dl}$ ).
Sample: Children age 6-59 months

Anemia is one of the complications of malaria infection, especially in children. Other causes of anemia are nutritional deficiencies, helminth infestation, damage to bone marrow through heavy metals or other toxins, and genetically acquired diseases such as sickle cell anemia. The prevalence of anemia in Myanmar has been discussed earlier (Chapter 11) in relation to nutritional deficiency. This section addresses anemia in relation to malaria. Although anemia is not specific to malaria, trends in anemia prevalence can reflect malaria morbidity, and they respond to changes in the coverage of malaria interventions (Korenromp 2004). Malaria interventions have been associated with a $60 \%$ reduction in the risk of anemia using a cutoff of $8 \mathrm{~g} / \mathrm{dl}$ (Roll Back Malaria Partnership 2003).

Table $\mathbf{1 2 . 1 0}$ shows that 3\% of children age 6-59 months have hemoglobin levels below $8.0 \mathrm{~g} / \mathrm{dl}$. Nine percent of children age $9-11$ months and $10 \%$ of those age 12-17 months have hemoglobin levels below $8.0 \mathrm{~g} / \mathrm{dl}$, as compared with only $2 \%$ of children age 6-8 months and 36-47 months and $1 \%$ of those age 48-59 months (Figure 12.6). The proportion of children with hemoglobin levels below $8.0 \mathrm{~g} / \mathrm{dl}$ is highest in Mon State (7\%) and lowest in Shan State, Kayin State, Chin State, Mandalay Region, and Yangon Region (2\% each). There is little variation in the proportion of children with hemoglobin levels below $8.0 \mathrm{~g} / \mathrm{dl}$ by residence, household wealth, or mother's educational level.

Figure 12.6 Low hemoglobin by age
Percentage of children age 6-59 months with hemoglobin lower than $8.0 \mathrm{~g} / \mathrm{dl}$


## List of Tables

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- Table 12.7 Use of mosquito nets by pregnant women
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- Table 12.9 Source of advice or treatment for children with fever
- Table 12.10 Hemoglobin $<8.0 \mathrm{~g} / \mathrm{dl}$ in children
Table 12.1 Household possession of mosquito nets
Percentage of households with at least one mosquito net (treated or untreated), insecticide-treated net (ITN), and long-lasting insecticidal net (LLIN); average number of nets, ITNs, and LLINs per household; and percentage of households with at least one net, ITN, and LLIN per two persons who stayed in the household last night, by background characteristics, Myanmar DHS 2015-1

| Background characteristic | Percentage of households with at least one mosquito net |  |  | Average number of nets per household |  |  | Number of households | Percentage of households with at least one net for every two persons who stayed in the household last night ${ }^{1}$ |  |  | Number of households with at least one person who stayed in the household last night |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Any mosquito net | Insecticidetreated mosquito net $(\text { ITN })^{2}$ | Long--lasting insecticidal net (LLIN) | Any mosquito net | Insecticidetreated mosquito net (ITN) ${ }^{2}$ | Long-lasting insecticidal net (LLIN) |  | $\underset{\text { net }}{\text { Any mosquito }}$ | Insecticidetreated mosquito net $(\text { ITN })^{2}$ | Long-lasting insecticidal net (LLIN) |  |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 98.3 | 14.7 | 11.2 | 2.9 | 0.3 | 0.2 | 3,315 | 81.7 | 8.3 | 5.9 | 3,302 |
| Rural | 96.7 | 31.1 | 28.6 | 2.6 | 0.6 | 0.6 | 9,185 | 73.8 | 16.2 | 15.1 | 9,109 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |  |
| Kachin | 99.0 | 44.0 | 42.5 | 2.9 | 1.0 | 1.0 | 365 | 77.8 | 26.8 | 25.9 | 360 |
| Kayah | 99.3 | 85.2 | 84.1 | 2.9 | 2.2 | 2.1 | 65 | 78.2 | 58.6 | 57.6 | 65 |
| Kayin | 87.9 | 35.5 | 34.5 | 1.7 | 0.6 | 0.6 | 335 | 44.4 | 12.5 | 12.2 | 333 |
| Chin | 97.0 | 80.2 | 77.7 | 2.8 | 2.1 | 2.0 | 105 | 70.7 | 51.9 | 50.0 | 105 |
| Sagaing | 99.8 | 31.9 | 27.3 | 3.3 | 0.8 | 0.7 | 1,295 | 85.3 | 18.7 | 16.6 | 1,291 |
| Tanintharyi | 96.9 | 77.5 | 76.6 | 2.9 | 1.8 | 1.8 | 306 | 76.0 | 47.4 | 46.5 | 303 |
| Bago | 99.2 | 13.4 | 12.2 | 3.1 | 0.2 | 0.2 | 1,269 | 86.3 | 3.8 | 3.0 | 1,249 |
| Magway | 97.7 | 27.1 | 24.7 | 2.4 | 0.5 | 0.4 | 1,062 | 76.2 | 13.3 | 12.3 | 1,057 |
| Mandalay | 98.8 | 10.1 | 7.9 | 2.3 | 0.2 | 0.2 | 1,461 | 70.6 | 5.1 | 3.9 | 1,458 |
| Mon | 99.0 | 64.2 | 61.9 | 3.1 | 1.5 | 1.5 | 466 | 83.3 | 41.0 | 40.0 | 458 |
| Rakhine | 96.1 | 67.0 | 65.1 | 2.6 | 1.5 | 1.4 | 695 | 65.6 | 35.5 | 34.4 | 692 |
| Yangon | 99.7 | 5.7 | 2.8 | 2.8 | 0.1 | 0.0 | 1,730 | 84.6 | 3.0 | 1.0 | 1,730 |
| Shan | 85.2 | 38.6 | 34.9 | 2.1 | 0.8 | 0.7 | 1,339 | 55.8 | 20.4 | 18.4 | 1,333 |
| Ayeyarwady | 99.8 | 15.9 | 11.6 | 2.8 | 0.3 | 0.2 | 1,705 | 81.6 | 6.4 | 4.9 | 1,679 |
| Nay Pyi Taw | 98.7 | 7.5 | 5.1 | 2.4 | 0.1 | 0.1 | 303 | 71.5 | 2.8 | 1.5 | 300 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 94.3 | 34.8 | 32.1 | 2.0 | 0.7 | 0.6 | 2,583 | 61.3 | 16.4 | 15.7 | 2,535 |
| Second | 96.8 | 31.5 | 29.4 | 2.4 | 0.6 | 0.6 | 2,593 | 72.6 | 17.1 | 16.2 | 2,575 |
| Middle | 98.6 | 26.8 | 24.4 | 2.7 | 0.6 | 0.5 | 2,503 | 78.2 | 13.9 | 12.7 | 2,493 |
| Fourth | 98.8 | 23.3 | 20.3 | 3.0 | 0.5 | 0.4 | 2,424 | 82.7 | 13.2 | 11.5 | 2,417 |
| Highest | 97.4 | 16.6 | 12.6 | 3.3 | 0.4 | 0.3 | 2,397 | 85.7 | 9.6 | 6.8 | 2,392 |
| Total | 97.2 | 26.8 | 24.0 | 2.7 | 0.6 | 0.5 | 12,500 | 75.9 | 14.1 | 12.7 | 12,411 |

[^19]Table 12.2 Source of mosquito nets
Percent distribution of mosquito nets by source of net, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Government/ NGO distribution | ANC visit | Purchased | Other | Not sure/missing | Total | Number of mosquito nets |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type of net |  |  |  |  |  |  |  |
| ITN ${ }^{1}$ | 74.9 | 0.6 | 23.5 | 0.9 | 0.1 | 100.0 | 7,827 |
| Other ${ }^{2}$ | 1.2 | 0.1 | 96.7 | 1.9 | 0.2 | 100.0 | 31,190 |
| Residence |  |  |  |  |  |  |  |
| Urban | 4.1 | 0.1 | 93.5 | 2.1 | 0.2 | 100.0 | 12,817 |
| Rural | 21.8 | 0.2 | 76.4 | 1.5 | 0.1 | 100.0 | 26,199 |
| States/Regions |  |  |  |  |  |  |  |
| Kachin | 30.2 | 0.1 | 68.2 | 1.5 | 0.0 | 100.0 | 1,177 |
| Kayah | 72.7 | 0.1 | 26.8 | 0.4 | 0.0 | 100.0 | 206 |
| Kayin | 30.1 | 0.4 | 66.8 | 2.7 | 0.1 | 100.0 | 585 |
| Chin | 75.0 | 0.0 | 24.0 | 1.1 | 0.0 | 100.0 | 307 |
| Sagaing | 20.0 | 0.5 | 78.2 | 1.3 | 0.0 | 100.0 | 5,160 |
| Tanintharyi | 58.3 | 0.0 | 41.3 | 0.4 | 0.0 | 100.0 | 901 |
| Bago | 4.7 | 0.0 | 93.4 | 1.8 | 0.0 | 100.0 | 4,413 |
| Magway | 14.3 | 0.1 | 83.6 | 1.9 | 0.0 | 100.0 | 2,970 |
| Mandalay | 2.5 | 0.0 | 94.8 | 2.4 | 0.2 | 100.0 | 4,075 |
| Mon | 44.0 | 0.2 | 52.9 | 2.8 | 0.1 | 100.0 | 1,581 |
| Rakhine | 42.8 | 1.4 | 54.0 | 1.8 | 0.1 | 100.0 | 2,210 |
| Yangon | 1.0 | 0.0 | 97.8 | 0.9 | 0.2 | 100.0 | 6,213 |
| Shan | 29.0 | 0.0 | 70.3 | 0.7 | 0.1 | 100.0 | 3,253 |
| Ayeyarwady | 7.4 | 0.1 | 90.3 | 2.1 | 0.1 | 100.0 | 5,156 |
| Nay Pyi Taw | 2.0 | 0.1 | 93.4 | 4.1 | 0.4 | 100.0 | 811 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 33.0 | 0.3 | 63.9 | 2.9 | 0.1 | 100.0 | 5,028 |
| Second | 24.9 | 0.4 | 73.6 | 1.0 | 0.0 | 100.0 | 6,217 |
| Middle | 17.0 | 0.2 | 81.6 | 1.1 | 0.0 | 100.0 | 7,786 |
| Fourth | 12.8 | 0.2 | 85.5 | 1.3 | 0.1 | 100.0 | 9,157 |
| Highest | 4.9 | 0.0 | 92.7 | 2.1 | 0.2 | 100.0 | 10,828 |
| Total | 16.0 | 0.2 | 82.0 | 1.7 | 0.1 | 100.0 | 39,017 |

ANC = Antenatal care
${ }^{1}$ An insecticide-treated net (ITN) is (1) a factory-treated net that does not require any further treatment (LLIN) or (2) a pretreated net obtained within the past 12 months or (3) a net that has been soaked with insecticide within the past 12 months.
${ }^{2}$ Any net that is not an ITN

Table 12.3 Access to an insecticide-treated net (ITN
Percent distribution of the de facto household population by number of ITNs the household owns, according to number of persons who stayed in the household the night before the survey, Myanmar DHS 2015-16

|  | Number of persons who stayed in the household the night before the survey |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Number of ITNs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | $8+$ | Total |
| 0 | 77.7 | 78.1 | 76.0 | 73.6 | 70.0 | 66.2 | 70.3 | 67.2 | 71.5 |
| 1 | 14.5 | 11.0 | 10.6 | 11.3 | 10.3 | 8.8 | 6.7 | 7.4 | 9.8 |
| 2 | 5.0 | 7.0 | 8.1 | 8.6 | 10.3 | 12.0 | 7.8 | 7.0 | 8.9 |
| 3 | 1.1 | 2.5 | 3.3 | 4.1 | 5.8 | 7.8 | 9.1 | 10.0 | 5.9 |
| 4 | 1.2 | 1.0 | 1.4 | 1.3 | 2.0 | 3.4 | 3.7 | 4.0 | 2.3 |
| 5 | 0.2 | 0.2 | 0.5 | 0.7 | 1.2 | 1.2 | 1.7 | 2.3 | 1.1 |
| 6 | 0.3 | 0.0 | 0.1 | 0.3 | 0.2 | 0.4 | 0.4 | 1.2 | 0.4 |
| 7 | 0.0 | 0.1 | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 |
| $8+$ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.7 | 0.1 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 748 | 3,814 | 7,432 | 11,010 | 9,747 | 7,237 | 4,572 | 6,570 | 51,130 |
| Percentage with access |  |  |  |  |  |  |  |  |  |
| to an ITN |  |  |  |  |  |  |  |  |  |

${ }^{1}$ Percentage of the de facto household population who could sleep under an ITN if each ITN in the household were used by up to two people

Table 12.4 Use of mosquito nets by persons in the household
Percentage of the de facto household population who slept the night before the survey under a mosquito net (treated or untreated), under an insecticide-treated net (ITN), and under a long-lasting insecticidal net (LLIN), and among the de facto household population in households with at least one ITN, the percentage who slept under an ITN the night before the survey, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Household population |  |  |  | Household population in households with at least one ITN ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who slept under any mosquito net last night | Percentage who slept under an ITN ${ }^{1}$ last night | Percentage who slept under an LLIN last night | Number of persons | Percentage who slept under an ITN ${ }^{1}$ last night | Number of persons |
| Age ${ }^{2}$ |  |  |  |  |  |  |
| <5 | 81.6 | 18.6 | 16.6 | 4,595 | 56.3 | 1,516 |
| 5-14 | 81.5 | 18.1 | 16.0 | 10,442 | 54.7 | 3,458 |
| 15-34 | 83.2 | 14.7 | 12.8 | 14,736 | 53.5 | 4,043 |
| 35-49 | 88.3 | 15.0 | 12.4 | 9,987 | 56.9 | 2,625 |
| 50+ | 86.8 | 14.0 | 12.3 | 11,366 | 54.1 | 2,934 |
| Sex |  |  |  |  |  |  |
| Male | 83.0 | 15.6 | 13.5 | 23,547 | 54.0 | 6,790 |
| Female | 85.8 | 15.7 | 13.7 | 27,583 | 55.5 | 7,789 |
| Residence |  |  |  |  |  |  |
| Urban | 90.0 | 9.2 | 6.6 | 13,962 | 58.8 | 2,187 |
| Rural | 82.5 | 18.0 | 16.2 | 37,168 | 54.1 | 12,392 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 82.9 | 25.3 | 24.2 | 1,554 | 57.8 | 680 |
| Kayah | 59.4 | 40.3 | 38.7 | 281 | 46.8 | 242 |
| Kayin | 68.2 | 22.2 | 21.6 | 1,473 | 61.3 | 533 |
| Chin | 57.3 | 40.4 | 38.2 | 480 | 49.7 | 390 |
| Sagaing | 91.9 | 19.5 | 16.0 | 5,610 | 55.6 | 1,968 |
| Tanintharyi | 72.2 | 41.9 | 40.6 | 1,296 | 52.9 | 1,028 |
| Bago | 90.1 | 5.3 | 4.3 | 4,860 | 34.9 | 742 |
| Magway | 87.1 | 15.5 | 13.4 | 4,015 | 56.1 | 1,111 |
| Mandalay | 87.1 | 6.9 | 5.0 | 5,857 | 64.2 | 629 |
| Mon | 79.9 | 36.4 | 33.7 | 1,912 | 55.5 | 1,254 |
| Rakhine | 72.1 | 39.5 | 38.0 | 3,167 | 58.8 | 2,128 |
| Yangon | 96.3 | 3.7 | 1.5 | 6,968 | 61.9 | 420 |
| Shan | 62.9 | 21.6 | 19.6 | 5,752 | 55.0 | 2,256 |
| Ayeyarwady | 95.1 | 8.2 | 6.0 | 6,718 | 50.0 | 1,109 |
| Nay Pyi Taw | 74.9 | 3.3 | 2.0 | 1,186 | 44.0 | 90 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 77.0 | 22.6 | 20.9 | 10,032 | 58.7 | 3,858 |
| Second | 82.1 | 18.5 | 17.3 | 10,127 | 55.0 | 3,412 |
| Middle | 86.8 | 14.9 | 12.9 | 10,215 | 52.2 | 2,908 |
| Fourth | 88.1 | 11.9 | 9.8 | 10,363 | 48.8 | 2,530 |
| Highest | 88.4 | 10.6 | 7.5 | 10,394 | 58.7 | 1,870 |
| Total | 84.5 | 15.6 | 13.6 | 51,130 | 54.8 | 14,579 |

${ }^{1}$ An insecticide-treated net (ITN) is (1) a factory-treated net that does not require any further treatment (LLIN) or (2) a pretreated net obtained within the past 12 months or (3) a net that has been soaked with insecticide within the past 12 months.
${ }^{2}$ Total includes three persons with missing information on age.

Table 12.5 Use of existing ITNs
Percentage of insecticide-treated nets (ITNs) that were used by anyone the night before the survey, by background characteristics, Myanmar DHS 2015-16

|  | Percentage of <br> existing ITNs <br>  <br> Background <br> characteristic | used last night |
| :--- | :--- | :--- |


| Residence |  |  |
| :--- | ---: | ---: |
| Urban | 67.7 | 1,101 |
| Rural | 56.6 | 5,893 |
| States/Regions |  |  |
| Kachin | 59.9 | 364 |
| Kayah | 39.7 | 140 |
| Kayin | 80.9 | 194 |
| Chin | 38.5 | 224 |
| Sagaing | 55.1 | 995 |
| Tanintharyi | 49.1 | 556 |
| Bago | 49.4 | 243 |
| Magway | 63.2 | 535 |
| Mandalay | 68.1 | 316 |
| Mon | 50.7 | 712 |
| Rakhine | 58.2 | 1,014 |
| Yangon | 76.2 | 183 |
| Shan | 63.8 | 1,030 |
| Ayeyarwady | 65.6 | 457 |
| Nay Pyi Taw | 66.4 | 32 |
| Wealth quintile |  |  |
| Lowest | 59.3 | 1,720 |
| Second | 55.6 | 1,651 |
| Middle | 56.3 | 1,396 |
| Fourth | 55.5 | 1,252 |
| Highest | 67.6 | 975 |
| Total | 58.3 | 6,994 |

${ }^{1}$ An insecticide-treated net (ITN) is (1) a factory-treated net that does not require any further treatment (LLIN) or (2) a pretreated net obtained within the past 12 months or (3) a net that has been soaked with insecticide within the past 12 months.

Table 12.6 Use of mosquito nets by children
Percentage of children under age 5 who, the night before the survey, slept under a mosquito net (treated or untreated), under an insecticide-treated net (ITN), and under a long-lasting insecticidal net (LLIN), and among children under age 5 in households with at least one ITN, the percentage who slept under an ITN the night before the survey, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Children under age 5 in all households |  |  |  | Children under age 5 in households with at least one ITN ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who slept under any mosquito net last night | Percentage who slept under an ITN ${ }^{1}$ last night | Percentage who slept under an LLIN last night | Number of children | Percentage who slept under an ITN ${ }^{1}$ last night | Number of children |
| Age in months |  |  |  |  |  |  |
| <12 | 81.0 | 17.8 | 16.4 | 865 | 54.5 | 282 |
| 12-23 | 83.4 | 19.9 | 18.2 | 925 | 62.1 | 297 |
| 24-35 | 80.8 | 18.4 | 16.4 | 888 | 56.3 | 290 |
| 36-47 | 79.9 | 16.8 | 14.5 | 991 | 51.4 | 324 |
| 48-59 | 83.1 | 20.1 | 17.9 | 926 | 57.5 | 323 |
| Sex |  |  |  |  |  |  |
| Male | 81.8 | 18.8 | 16.9 | 2,387 | 56.7 | 790 |
| Female | 81.5 | 18.4 | 16.4 | 2,208 | 55.9 | 726 |
| Residence |  |  |  |  |  |  |
| Urban | 87.1 | 8.3 | 6.9 | 1,025 | 53.7 | 158 |
| Rural | 80.1 | 21.5 | 19.4 | 3,570 | 56.6 | 1,357 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 82.5 | 25.7 | 25.0 | 171 | 54.4 | 81 |
| Kayah | 64.7 | 44.5 | 43.2 | 33 | 52.5 | 28 |
| Kayin | 69.1 | 25.3 | 24.5 | 188 | 66.7 | 71 |
| Chin | 59.8 | 42.2 | 40.4 | 63 | 49.9 | 53 |
| Sagaing | 93.2 | 25.1 | 21.1 | 497 | 58.2 | 215 |
| Tanintharyi | 71.5 | 46.7 | 45.4 | 153 | 55.2 | 129 |
| Bago | 86.8 | 3.9 | 3.0 | 423 | 23.9 | 68 |
| Magway | 89.6 | 15.3 | 13.4 | 323 | 58.8 | 84 |
| Mandalay | 87.8 | 7.2 | 5.9 | 445 | (67.8) | 47 |
| Mon | 82.1 | 43.4 | 42.1 | 183 | 63.4 | 125 |
| Rakhine | 69.9 | 46.0 | 44.2 | 308 | 63.9 | 222 |
| Yangon | 91.5 | 2.8 | 1.3 | 473 | * | 32 |
| Shan | 62.4 | 21.3 | 19.0 | 656 | 53.3 | 262 |
| Ayeyarwady | 89.9 | 8.3 | 5.6 | 581 | (52.8) | 91 |
| Nay Pyi Taw | 73.0 | 4.6 | 3.5 | 98 | * | 6 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 72.9 | 23.8 | 21.9 | 1,328 | 59.2 | 535 |
| Second | 81.9 | 21.4 | 20.1 | 995 | 57.2 | 373 |
| Middle | 85.6 | 18.2 | 15.7 | 792 | 54.1 | 266 |
| Fourth | 87.7 | 13.8 | 11.0 | 801 | 51.5 | 215 |
| Highest | 86.6 | 10.1 | 8.9 | 680 | 54.4 | 126 |
| Total | 81.6 | 18.6 | 16.6 | 4,595 | 56.3 | 1,516 |

Note: Table is based on children who stayed in the household the night before the interview. 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.
${ }^{1}$ An insecticide-treated net (ITN) is (1) a factory-treated net that does not require any further treatment (LLIN) or (2) a pretreated net obtained within the past 12 months or (3) a net that has been soaked with insecticide within the past 12 months.

Table 12.7 Use of mosquito nets by pregnant women
Percentage of pregnant women age 15-49 who, the night before the survey, slept under a mosquito net (treated or untreated), under an insecticide-treated net (ITN), and under a long-lasting insecticidal net (LLIN), and among pregnant women age 15-49 in households with at least one ITN, the percentage who slept under an ITN the night before the survey, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Among pregnant women age 15-49 in all households |  |  |  | Among pregnant women age 15-49 in households with at least one ITN ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who slept under any mosquito net last night | Percentage who slept under an ITN ${ }^{1}$ last night | Percentage who slept under an LLIN last night | Number of women | Percentage who slept under an ITN ${ }^{1}$ last night | Number of women |
| Residence |  |  |  |  |  |  |
| Urban | 95.2 | 10.4 | 6.7 | 105 | * | 15 |
| Rural | 81.1 | 20.7 | 19.6 | 367 | 60.5 | 125 |
| Education |  |  |  |  |  |  |
| No education | 59.8 | 23.4 | 23.4 | 63 | (56.3) | 26 |
| Primary | 84.8 | 19.4 | 18.5 | 207 | 61.6 | 65 |
| Secondary | 89.2 | 19.3 | 15.5 | 160 | 65.6 | 47 |
| More than secondary | (99.4) | (2.3) | (2.3) | 41 | * | 2 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 74.1 | 20.7 | 19.1 | 141 | 62.6 | 47 |
| Second | 86.6 | 24.6 | 24.6 | 95 | 60.5 | 39 |
| Middle | 89.0 | 23.1 | 22.9 | 78 | 71.3 | 25 |
| Fourth | 86.5 | 12.2 | 8.5 | 76 | (46.2) | 20 |
| Highest | 92.2 | 8.5 | 5.1 | 82 | * | 10 |
| Total | 84.2 | 18.4 | 16.7 | 472 | 61.9 | 140 |

Note: Table is based on women who stayed in the household the night before the interview. 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. Because of the small number of cases, estimates for states and regions are not shown separately.
${ }^{1}$ An insecticide-treated net (ITN) is (1) a factory-treated net that does not require any further treatment (LLIN) or (2) a pretreated net obtained within the past 12 months or (3) a net that has been soaked with insecticide within the past 12 months.

Table 12.8 Prevalence, diagnosis, and prompt treatment of children with fever
Percentage of children under age 5 with a fever in the 2 weeks preceding the survey, and among children under age 5 with a fever, the percentage for whom advice or treatment was sought and the percentage who had blood taken from a finger or heel, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Children under age 5 |  | Children under age 5 with fever |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage with fever in the 2 weeks preceding the survey | Number of children | Percentage for whom advice or treatment was sought ${ }^{1}$ | Percentage who had blood taken from a finger or heel for testing | Number of children |
| Age in months |  |  |  |  |  |
| <12 | 16.3 | 807 | 63.9 | 1.8 | 131 |
| 12-23 | 21.2 | 852 | 62.7 | 3.5 | 180 |
| 24-35 | 18.0 | 782 | 69.6 | 3.9 | 141 |
| 36-47 | 13.5 | 866 | 63.5 | 3.0 | 117 |
| 48-59 | 11.0 | 792 | 65.8 | 2.2 | 87 |
| Sex |  |  |  |  |  |
| Male | 15.5 | 2,131 | 64.2 | 3.2 | 330 |
| Female | 16.6 | 1,968 | 65.7 | 2.8 | 327 |
| Residence |  |  |  |  |  |
| Urban | 16.4 | 925 | 64.6 | 0.1 | 151 |
| Rural | 15.9 | 3,174 | 65.1 | 3.9 | 505 |
| States/Regions |  |  |  |  |  |
| Kachin | 21.8 | 162 | 64.9 | 2.3 | 35 |
| Kayah | 22.0 | 31 | 74.2 | 7.4 | 7 |
| Kayin | 18.0 | 140 | 72.6 | 1.8 | 25 |
| Chin | 32.2 | 60 | 40.7 | 17.0 | 19 |
| Sagaing | 6.6 | 456 | * | * | 30 |
| Tanintharyi | 20.9 | 125 | 76.3 | 6.4 | 26 |
| Bago | 16.3 | 360 | (61.0) | (0.0) | 59 |
| Magway | 18.2 | 299 | (54.9) | (2.3) | 54 |
| Mandalay | 11.1 | 411 | (65.3) | (0.0) | 46 |
| Mon | 9.1 | 140 | * | * | 13 |
| Rakhine | 24.1 | 294 | 78.9 | 11.5 | 71 |
| Yangon | 8.2 | 423 | * | * | 35 |
| Shan | 14.1 | 564 | (57.2) | (0.0) | 80 |
| Ayeyarwady | 26.1 | 542 | 63.4 | 0.0 | 142 |
| Nay Pyi Taw | 16.7 | 92 | (61.4) | (2.6) | 15 |
| Mother's education |  |  |  |  |  |
| No education | 15.6 | 730 | 64.5 | 6.8 | 114 |
| Primary | 16.7 | 1,879 | 62.5 | 2.3 | 313 |
| Secondary | 16.0 | 1,175 | 65.4 | 2.4 | 188 |
| More than secondary | 13.1 | 314 | (82.5) | (0.3) | 41 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 18.0 | 1,211 | 60.6 | 5.3 | 218 |
| Second | 19.3 | 906 | 64.3 | 1.6 | 175 |
| Middle | 13.0 | 691 | 57.7 | 1.9 | 90 |
| Fourth | 13.6 | 699 | 74.0 | 3.5 | 95 |
| Highest | 13.4 | 593 | 75.8 | 0.5 | 80 |
| Total | 16.0 | 4,099 | 65.0 | 3.0 | 657 |

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.
${ }^{1}$ Excludes advice or treatment from a traditional practitioner

Table 12.9 Source of advice or treatment for children with fever
Percentage of children under age 5 with a fever in the 2 weeks preceding the survey for whom advice or treatment was sought from specific sources, and among children under age 5 with a fever in the 2 weeks preceding the survey for whom advice or treatment was sought, the percentage for whom advice or treatment was sought from specific sources, by background characteristics, Myanmar DHS 2015-16

|  | $\begin{array}{c}\text { Percentage for whom advice or } \\ \text { treatment } \\ \text { was sought from each } \\ \text { source: }\end{array}$ |  |  |
| :--- | ---: | :---: | :---: |
|  | $\begin{array}{c}\text { Among children } \\ \text { with fever for } \\ \text { whom advice or }\end{array}$ |  |  |
| treatment was |  |  |  |
| sought |  |  |  |$]$

Table 12.10 Hemoglobin $<8.0 \mathrm{~g} / \mathrm{dl}$ in children
Percentage of children age 6-59 months with hemoglobin lower than $8.0 \mathrm{~g} / \mathrm{dl}$, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Hemoglobin $<8.0 \mathrm{~g} / \mathrm{dl}$ | Number of children |
| :---: | :---: | :---: |
| Age in months |  |  |
| 6-8 | 2.3 | 136 |
| 9-11 | 8.7 | 163 |
| 12-17 | 9.6 | 387 |
| 18-23 | 4.3 | 345 |
| 24-35 | 3.5 | 723 |
| 36-47 | 1.6 | 833 |
| 48-59 | 0.8 | 789 |
| Sex |  |  |
| Male | 3.9 | 1,738 |
| Female | 2.8 | 1,638 |
| Mother's interview status |  |  |
| Interviewed | 3.4 | 3,071 |
| Not interviewed but in household | 2.9 | 64 |
| Not interviewed and not in the household ${ }^{1}$ | 3.0 | 241 |
| Residence |  |  |
| Urban | 3.9 | 699 |
| Rural | 3.2 | 2,676 |
| States/Regions |  |  |
| Kachin | 3.8 | 141 |
| Kayah | 4.1 | 25 |
| Kayin | 2.4 | 162 |
| Chin | 2.4 | 53 |
| Sagaing | 3.2 | 312 |
| Tanintharyi | 3.8 | 134 |
| Bago | 2.9 | 374 |
| Magway | 5.0 | 254 |
| Mandalay | 1.9 | 327 |
| Mon | 6.8 | 142 |
| Rakhine | 3.4 | 236 |
| Yangon | 2.2 | 384 |
| Shan | 1.8 | 275 |
| Ayeyarwady | 4.9 | 474 |
| Nay Pyi Taw | 4.7 | 81 |
| Mother's education ${ }^{2}$ |  |  |
| No education | 3.7 | 491 |
| Primary | 3.5 | 1,546 |
| Secondary | 3.0 | 880 |
| More than secondary | 4.1 | 217 |
| Wealth quintile |  |  |
| Lowest | 3.1 | 1,020 |
| Second | 4.8 | 782 |
| Middle | 3.2 | 608 |
| Fourth | 1.8 | 558 |
| Highest | 3.7 | 408 |
| Total | 3.4 | 3,376 |

Note: Table is based on children who stayed in the household the night before the interview. Hemoglobin levels are adjusted for altitude using CDC formulas (CDC 1998). Hemoglobin is measured in grams per deciliter (g/dl).
${ }^{1}$ Includes children whose mothers are deceased
${ }^{2}$ For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are no listed in the Household Questionnaire. Total includes 2 children with missing information on mother's education.

# HIV/AIDS-RELATED KNOWLEDGE, ATTITUDES, AND BEHAVIOR 

## Key Findings

- Knowledge of HIV prevention methods: Twenty percent of women and $22 \%$ of men have "comprehensive knowledge" about the modes of HIV transmission and prevention.
- Knowledge of prevention of mother-to-child transmission of HIV: Sixty-seven percent of women and $61 \%$ of men know that HIV can be transmitted by breastfeeding. Among women and men, 59\% and 55\%, respectively, know that the risk of mother-to-child transmission is reduced by a mother taking special drugs during pregnancy.
- Attitudes towards people living with HIV/AIDS: Eighty percent of women and $72 \%$ of men are willing to care for a family member with HIVIAIDS. Seventy-five percent of women and $79 \%$ of men would not want to keep it a secret if a family member became infected with HIV.
- HIV tests: Sixty-four percent of women and 63\% of men age 15-49 know where to get an HIV test. Eighteen percent of women and $21 \%$ of men have ever been tested for HIV and received the results of their last test.

TThis chapter presents information on the current status of HIV knowledge, attitudes, and testing coverage in the general population and the young population. Although the prevalence of HIV is very low in Myanmar, estimated at $0.54 \%$ in the adult population age 15 and above, sentinel serosurveillance indicates that it is higher in high-risk groups such as men who have sex with men, people who inject drugs, and female sex workers (MoHS 2015b). The National AIDS Program in Myanmar will benefit from the information derived from this survey and can develop strategic plans for preventive measures through health education, increasing HIV awareness, and testing for HIV. Similarly, this information will allow an assessment of Myanmar's commitment towards the UNAIDS 90-90-90 target (UNAIDS 2016).

### 13.1 HIV/AIDS Knowledge, Transmission, and Prevention Methods

Most women and men age 15-49 (92\% each) are aware of HIV (Table 13.1). Overall, $59 \%$ of women and $71 \%$ of men know that using condoms is a way to prevent HIV transmission (Table 13.2). Seventy percent of women and $75 \%$ of men recognize that the risk of getting HIV can be reduced by limiting sexual intercourse to one uninfected partner. Fifty-four percent of women and $62 \%$ of men are aware of both of these prevention methods (Figure 13.1).

Figure 13.1 Knowledge of HIV prevention methods by residence

- Across all age groups, men are more likely than women to know that HIV can be prevented by using condoms and limiting sexual intercourse to one uninfected partner; the difference is most prominent in the 20-24 age group ( $65 \%$ and $52 \%$, respectively).
- Women and men with no education ( $22 \%$ and $32 \%$, respectively) are less likely to know about the two prevention methods than those who have more than a secondary education ( $84 \%$ and $85 \%$, respectively).
- Among the states and regions, women living in

Percentage of women and men age 15-49 who know that HIV can be prevented by using condoms and limiting sex to one uninfected partner
 Chin State have the least knowledge of the two prevention methods ( $27 \%$ ), followed by women in Shan State (30\%) and Rakhine State (32\%) (Figure 13.2).

## Comprehensive knowledge of HIV

Knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chances of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting the two most common local misconceptions about transmission or prevention of HIV.
Sample: Women and men age 15-49

Comprehensive knowledge of HIV is a composite measure and indicates that a person knows that both condom use and limiting sexual intercourse to one uninfected partner can prevent HIV, knows that a healthy-looking person can have HIV, and rejects the two most common local misconceptions about the transmission of HIV, which in Myanmar are that HIV can be transmitted through mosquito bites and that a person can become infected with HIV by sharing food with someone who has AIDS. One in five women and $22 \%$ of men age 15-49 have comprehensive knowledge about HIV (Table 13.3.1 and Table 13.3.2).

## Patterns by background characteristics

- Women and men living in rural areas (13\% and $16 \%$, respectively) are less likely than those living in urban areas ( $36 \%$ and $38 \%$, respectively) to have comprehensive knowledge of HIV.
- There are variations in comprehensive knowledge of HIV among women by region/state. For instance, only $8 \%$ of women in Rakhine State and $10 \%$ of women in Chin State have comprehensive knowledge, as compared with $33 \%$ in Yangon Region.

Figure 13.2 Knowledge of HIV prevention methods by states and regions
Percentage of women age 15-49 who knows HIV prevention methods


- Comprehensive knowledge of HIV rises with increasing education and wealth among both women and men. The difference is particularly striking with respect to education: $3 \%$ or less of women and men with no education have comprehensive knowledge, compared with $62 \%$ of women and men with more than a secondary education.


### 13.2 Knowledge about Mother-to-Child Transmission

Increasing the level of general knowledge about transmission of HIV from mother to child and reducing the risk of transmission using antiretroviral drugs are critical in reducing mother-to-child transmission (MTCT) of HIV. To assess MTCT knowledge, respondents were asked whether HIV can be transmitted from mother to child through breastfeeding and whether a mother with HIV can reduce the risk of transmission to her baby by taking certain drugs during pregnancy.

Improving knowledge regarding MTCT can help prevent mother-to-child transmission. Women are more aware than men that HIV can be transmitted through breastfeeding ( $67 \%$ versus $61 \%$ ) and that the risk of MTCT can be reduced by taking special drugs ( $59 \%$ versus $55 \%$ ) (Table 13.4, Figure 13.3). Overall, half of women and $45 \%$ of men age 15-49 know that HIV can be transmitted by breastfeeding and that the risk of MTCT can be reduced by the mother taking special drugs during pregnancy (Table 13.4).

## Patterns by background characteristics

- Knowledge regarding MTCT varies by states and regions among both women and men. Only $29 \%$ of women and $20 \%$ of men living in Shan State are aware of MTCT, as compared with $65 \%$ of women in Sagaing Region and $62 \%$ of men in Tanintharyi Region.

Figure 13.3 Knowledge of mother-tochild transmission (MTCT) of HIV

Percentage of women and men age 15-49


- Women and men with no education are least likely to be aware of MTCT (32\% and 31\%, respectively).


### 13.3 HIV/AIDS Attitudes

### 13.3.1 Attitudes toward People Living with HIV/AIDS

Widespread stigma and discrimination in a population can adversely affect both people's willingness to be tested and their adherence to antiretroviral therapy (ART). Thus, reduction of stigma and discrimination in a population is an important indicator of the success of programs targeting HIV/AIDS prevention and control.

## Accepting attitudes about HIV

Women and men are asked four questions to assess the level of stigma associated with HIVIAIDS. Respondents who indicate that (1) they are willing to care for a family member with AIDS in their home, (2) they would buy fresh vegetables from a shopkeeper who has HIV, (3) a female teacher who has HIV but is not sick should be allowed to continue teaching, and (4) they would not want to keep secret that a family member was infected with HIV are considered to have accepting attitudes.
Sample: Women and men age 15-49

Table 13.5.1 and Table 13.5 .2 present information on attitudes towards people living with HIV/AIDS. The majority of women $(80 \%)$ and men $(72 \%)$ are willing to take care of family members with AIDS and do not want to keep it a secret ( $75 \%$ and $79 \%$, respectively). Thirty-five percent of women and $36 \%$ of men report that they would buy fresh vegetables from a shopkeeper who is HIV positive, and approximately half of women and men say that an HIV-positive but healthy teacher should be allowed to continue teaching ( $53 \%$ and $49 \%$, respectively). Overall, however, the proportions of women and men with accepting attitudes in all four situations are very low ( $20 \%$ and $19 \%$, respectively).

## Patterns by background characteristics

- Rural women and men ( $16 \%$ and $15 \%$, respectively) are less likely than urban women and men ( $30 \%$ and $27 \%$, respectively) to have accepting attitudes towards people living with HIV/AIDS.
- Women and men with no education (9\% and ( $6 \%$, respectively) are less likely to have accepting attitudes than women and men with more than a secondary education ( $38 \%$ and $43 \%$, respectively) (Figure 13.4).


### 13.3.2 Attitudes toward Negotiating Safer Sexual Relations with Husbands

Knowledge about HIV transmission and ways to

Figure 13.4 Discriminatory attitudes towards people living with HIV by education

Percentage of women and men age 15-49 who express accepting attitudes on all four indicators

■ Women ■ Men
 prevent it is of little use if people feel powerless to negotiate safer sex practices with their partners. To assess attitudes toward negotiating safer sexual relations with husbands, women and men were asked whether they thought that a wife is justified in refusing to have sexual intercourse with her husband if she knows he has sex with other women or asking that he use a condom if she knows he has a sexually transmitted infection (STI).

Eighty-one percent of women and $68 \%$ of men believe that a woman is justified in refusing sexual intercourse if her husband has another sexual partner (Table 13.6). Similarly, three in four women (75\%) and about four in five men ( $82 \%$ ) believe that a woman is justified in asking her husband to use a condom if she knows that he has an STI.

## Patterns by background characteristics

- Women and men living in urban areas are more likely to have positive attitudes toward negotiating for safer sexual relations with husbands than those in rural areas. For instance, $79 \%$ of men in urban areas believe that a woman is justified in refusing sexual intercourse if her husband has another sexual partner, as compared with $64 \%$ of men in rural areas.
- Attitudes toward negotiating safer sexual relations with husbands vary by education. For instance, $49 \%$ of women with no education believe that a woman is justified in asking her husband to use a condom if she knows that he has an STI, compared with $94 \%$ of women with more than a secondary education.


### 13.3.3 Attitudes toward Condom Education for Young People

Women and men age 18-49 were asked if children age 12-14 should be educated on using condoms to avoid HIV. Forty percent of women and $46 \%$ of men agreed that children age 12-14 should be taught about condoms (Table 13.7).

## Patterns by background characteristics

- Urban women and men ( $51 \%$ and $54 \%$, respectively) are more likely than rural women and men ( $36 \%$ and $43 \%$, respectively) to support teaching children age 12-14 about condoms.
- Only $21 \%$ of women in Shan State and 30\% of men in Kayin State agree that children age 12-14 should be taught about using a condom. On the other hand, $54 \%$ of women in Yangon Region and $62 \%$ of men in Magway Region support condom education.
- Women and men with no education are less likely to support educating children age 12-14 on condom use than those with more education. For instance, only $21 \%$ of women and $29 \%$ of men with no education support teaching children about condoms, as compared with $62 \%$ of women and men with more than a secondary education.


### 13.4 Paid SEX

The act of paying for sex introduces an uneven negotiating ground for safer sexual intercourse. Table 13.8 shows the percentage of men age 15-49 who had ever paid for sexual intercourse, the percentage who had paid for sexual intercourse in the past 12 months, and the percentage reporting that a condom was used the last time they paid for sexual intercourse. Overall, $2 \%$ of men had ever paid for sexual intercourse, and $1 \%$ reported having paid for sexual intercourse in the 12 months preceding the survey. Among those who had paid for sexual intercourse in the 12 months preceding the survey, $77 \%$ reported using a condom during their last such intercourse.

### 13.5 Coverage of HIV Testing Services

Knowledge of HIV status helps HIV-negative individuals make specific decisions to reduce risk and increase safer sex practices so that they can remain disease free. Among those who are living with HIV, knowledge of their status allows them to take action to protect their sexual partners, to access care, and to receive treatment.

### 13.5.1 Awareness of HIV Testing Services and Experience with HIV Testing

To assess awareness and coverage of HIV testing services, 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 and where they had been tested. If they had never been tested, they were asked whether they knew a place where they could go to be tested.

Table 13.9.1 shows coverage of prior HIV testing among women. Sixty-four percent of women in Myanmar know a place to get an HIV test. Eighteen percent of women had ever been tested for HIV and received their test results (Figure 13.5). Information on coverage of HIV testing among men is presented in Table 13.9.2. Sixty-three percent of men know where to get an HIV test. About one in five men (21\%) reported having ever been tested for HIV and receiving their results. Two percent of women and men who had been tested for HIV did not receive their test results.

## Patterns by background characteristics

- Married women are more likely than unmarried women to have been tested for HIV and to have received their test results ( $24 \%$ and $7 \%$, respectively). Also, unmarried men are more likely to have been tested and to have received their results than unmarried women ( $15 \%$ versus $7 \%$ ) (Table 13.9.1 and Table 13.9.2).
- Women and men in urban areas ( $28 \%$ and $37 \%$, respectively) are more likely to have been tested for HIV and to have received their results than those in rural areas ( $13 \%$ and $14 \%$, respectively).
- Women and men in Rakhine State are least likely to ever have been tested for HIV and to have received their test results ( $8 \%$ and $10 \%$, respectively).
- Women and men at higher educational levels are more likely than those with no education to have been tested for HIV and to have received their results. For example, only $9 \%$ of women and men with no education had been tested and received their results, as compared with $37 \%$ of women and $55 \%$ of men with more than a secondary education (Figure 13.6).

Figure 13.6 HIV testing by education
Percentage of women and men age 15-49 who have ever been tested for HIV and received results of the most recent test

■ No education ■ Primary complete $■$ Secondary $■$ More than secondary


- Only 5\% of women and men were tested for HIV in the 12 months preceding the survey and received the results of their last test (Table 13.9.1 and Table 13.9.2). There are variations by state/region in the proportions of women who had been test and received results in the past 12 months, ranging from a low of $3 \%$ in Sagaing Region, Rakhine State, and Nay Pyi Taw to a high of 8\% in Kayah State and Kayin State (Figure 13.7).


### 13.5.2 HIV Testing of Pregnant Women

In efforts to prevent MTCT, it is vital to screen pregnant women for HIV, which entails initial testing and education about HIV. Through mandatory testing in pregnancy, HIV can be diagnosed and managed early. Thirty-four percent of women who gave birth during the 2 years preceding the survey received counseling on HIV during an antenatal care (ANC) visit (Table 13.10). Twenty-three percent of women reported that they received counseling on HIV during ANC and that they were tested for HIV and received the results of their test.

## Patterns by background characteristics

Figure 13.7 Recent HIV testing (or ever tested) by states and regions

Percentage of women age 15-49 who were tested for HIV in the year before the survey and received results


- Women living in urban areas are more likely to receive the recommended screening services (counseling on HIV, HIV testing, and receipt of results) than rural women ( $39 \%$ versus $17 \%$ ).
- Women in Rakhine State (7\%) are least likely to receive the recommended screening services.
- There are wide variations by education in HIV services received by women during pregnancy. Only $7 \%$ of women with no education received the recommended services, as compared with $37 \%$ of women with more than a secondary education.


### 13.6 Male Circumcision

In Myanmar, $4 \%$ of men age 15-49 are circumcised. Men living in urban areas are more likely to be circumcised than those living in rural areas ( $7 \%$ versus $3 \%$ ) (Table 13.11).

### 13.7 Self-Reporting of Sexually Transmitted Infections

## Sexually transmitted infections (STIs) and symptoms

Respondents who had ever had sex were asked whether they had an STI or symptoms of an STI (a bad-smelling, abnormal discharge from the vagina/penis or a genital sore or ulcer) in the 12 months before the survey.
Sample: Women and men age 15-49

Sexually transmitted diseases are associated with HIV, and people with an STI are 2-9 times more likely to contract HIV than those without an STI. Overall, $8 \%$ of women and $7 \%$ of men reported that they had experienced symptoms of an STI in the 12 months preceding the survey (Table 13.12).

Sixty percent of women and $84 \%$ of men with an STI or STI symptoms did not receive advice or treatment from a health care provider (Figure 13.8). Lack of such advice or treatment can increase disease progression or the risk of STI transmission to partners.

### 13.8 InJECTIONS

Injection overuse in a health care setting can contribute to the transmission of blood-borne pathogens because it amplifies the effects of unsafe practices such as

Figure 13.8 STI advice or treatment seeking-behavior
 reuse of injection equipment. Respondents were asked whether they had received any injections from a health worker in the 12 months before the survey and, if so, whether their last injection was administered with a syringe from a new, unopened package. It should be noted that self-administered medical injections (e.g., insulin injections for diabetes) were not included in the calculations.

Fifty-five percent of women and $47 \%$ of men age 15-49 reported that they received a medical injection in the 12 months preceding the survey (Table 13.13). On average, both women and men received two injections in the 12 months before the survey. It is universal in Myanmar for health providers to use syringes and needles from a new, unopened package.

### 13.9 HIV/AIDS-related Knowledge and Behavior among Young People

This section addresses HIV/AIDS-related knowledge among young people age 15-24 and also assesses the extent to which young people are engaged in behaviors that may place them at risk of contracting HIV.

### 13.9.1 Knowledge

Knowledge of how HIV is transmitted is crucial in enabling people to avoid HIV infection, and this is especially true for young people, who are often at greater risk because they may have shorter relationships with more partners or engage in other risky behaviors.

Sixteen percent of young women and $18 \%$ of young men have comprehensive knowledge of HIV/AIDS (defined as knowing that both condom use and limiting sexual intercourse to one uninfected partner are HIV prevention methods, knowing that a healthy-looking person can have HIV, and rejecting the two most common local misconceptions about HIV transmission) (Table 13.14). Young men are more likely to know about sources of condoms than young women ( $42 \%$ and $23 \%$, respectively).

## Patterns by background characteristics

- Young women and men living in urban areas ( $28 \%$ and $30 \%$, respectively) are more likely to have comprehensive knowledge about HIV than those living in rural areas ( $11 \%$ and $13 \%$, respectively).
- Comprehensive knowledge of HIV is associated with education. Forty-seven percent of young women and men with more than a secondary education have comprehensive knowledge, as compared with only $1 \%$ of young women and men with no education.


### 13.9.2 First Sex

Young people who initiate sex at an early age are typically at higher risk of becoming pregnant or contracting an STI than young people who initiate sex later. Consistent condom use can reduce such risks. In Myanmar, young women are more likely than young men to have sexual intercourse before age $18(14 \%$ and $6 \%$, respectively) (Table 13.15).

## Patterns by background characteristics

- Thirty-five percent of ever-married young women had sexual intercourse before age 18 , as compared with only $16 \%$ of ever-married young men.
- Young women and men with no education ( $38 \%$ and $14 \%$, respectively) were more likely than those with a secondary education ( $10 \%$ and $5 \%$, respectively) to initiate sex before age 18 .


### 13.9.3 Coverage of HIV Testing Services

Seeking an HIV test may be more difficult for young people than adults because many young people lack experience in accessing health services for themselves and because there are often barriers to young people obtaining services. Table $\mathbf{1 3 . 1 6}$ presents information on HIV testing among young people age 15-24 who had sexual intercourse in the past 12 months. Eight percent of young women and $6 \%$ of young men had been tested for HIV in the 12 months preceding the survey and had received the results of their last test.

## Patterns by background characteristics

- By age group, $11 \%$ of young women age 23-24 had been tested for HIV in the past 12 months and received their results, as compared with only $3 \%$ of young women age 15-17.
- Seven percent of young women and $2 \%$ of young men living in rural areas had been tested for HIV in the past 12 months and received the results of their test, compared with $14 \%$ of young women and $17 \%$ of young men living in urban areas.


## LIST OF TABLES

For more information on HIV/AIDS-related knowledge, attitudes, and behavior, see the following tables:

## - Table 13.1 Knowledge of AIDS

- Table 13.2 Knowledge of HIV prevention methods
- Table 13.3.1 Comprehensive knowledge about HIV: Women
- Table 13.3.2 Comprehensive knowledge about HIV: Men
- Table 13.4 Knowledge of prevention of mother-to-child transmission of HIV
- Table 13.5.1 Accepting attitudes toward those living with HIV/AIDS: Women
- Table 13.5.2 Accepting attitudes toward those living with HIV/AIDS: Men
- Table 13.6 Attitudes toward negotiating safer sexual relations with husband
- Table 13.7 Adult support of education about condom use to prevent AIDS
- Table 13.8 Payment for sexual intercourse and condom use at last paid sexual intercourse
- Table 13.9.1 Coverage of prior HIV testing: Women
- Table 13.9.2 Coverage of prior HIV testing: Men
- Table 13.10 Pregnant women counseled and tested for HIV
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- Table 13.12 Self-reported prevalence of sexually transmitted infections (STIs) and STI symptoms
- Table 13.13 Prevalence of medical injections
- Table 13.14 Comprehensive knowledge about AIDS and a source of condoms among young people
- Table 13.15 Age at first sexual intercourse among young people
- Table 13.16 Recent HIV tests among young people

Table 13.1 Knowledge of AIDS
Percentage of women and men age 15-49 who have heard of AIDS, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Women |  | Men |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Has heard of AIDS | Number of respondents | Has heard of AIDS | Number of respondents |
| Age |  |  |  |  |
| 15-24 | 89.9 | 3,677 | 89.9 | 1,423 |
| 15-19 | 88.5 | 1,810 | 89.0 | 731 |
| 20-24 | 91.2 | 1,867 | 90.8 | 692 |
| 25-29 | 92.5 | 1,867 | 93.4 | 677 |
| 30-39 | 92.6 | 3,990 | 93.5 | 1,377 |
| 40-49 | 91.6 | 3,351 | 92.0 | 1,259 |
| Marital status ${ }^{1}$ |  |  |  |  |
| Never married | 92.2 | 4,278 | 91.3 | 1,644 |
| Ever had sex | * | 11 | 96.9 | 178 |
| Never had sex | 92.2 | 4,267 | 90.6 | 1,466 |
| Married | 91.5 | 7,759 | 92.5 | 2,957 |
| Divorced/separated/wi dowed | 89.1 | 848 | 88.6 | 135 |
| Residence |  |  |  |  |
| Urban | 98.1 | 3,768 | 97.7 | 1,350 |
| Rural | 88.9 | 9,117 | 89.7 | 3,387 |
| States/Regions |  |  |  |  |
| Kachin | 95.6 | 374 | 96.7 | 161 |
| Kayah | 95.0 | 65 | 93.7 | 23 |
| Kayin | 88.1 | 303 | 88.3 | 115 |
| Chin | 75.6 | 102 | 89.3 | 39 |
| Sagaing | 96.3 | 1,410 | 93.4 | 514 |
| Tanintharyi | 97.0 | 283 | 97.4 | 103 |
| Bago | 95.0 | 1,244 | 99.5 | 454 |
| Magway | 97.8 | 1,081 | 96.7 | 320 |
| Mandalay | 94.4 | 1,541 | 96.1 | 601 |
| Mon | 96.9 | 463 | 97.2 | 162 |
| Rakhine | 72.5 | 777 | 81.1 | 222 |
| Yangon | 98.4 | 1,927 | 98.9 | 703 |
| Shan | 70.3 | 1,368 | 67.7 | 542 |
| Ayeyarwady | 94.3 | 1,650 | 93.2 | 653 |
| Nay Pyi Taw | 94.3 | 300 | 93.8 | 126 |
| Education ${ }^{2}$ |  |  |  |  |
| No education | 65.3 | 1,606 | 68.4 | 575 |
| Primary | 91.8 | 5,305 | 91.2 | 1,684 |
| Secondary | 98.0 | 4,646 | 97.7 | 2,139 |
| More than secondary | 100.0 | 1,325 | 100.0 | 339 |
| Wealth quintile |  |  |  |  |
| Lowest | 78.8 | 2,274 | 84.2 | 890 |
| Second | 89.1 | 2,408 | 88.8 | 916 |
| Middle | 93.5 | 2,633 | 94.1 | 979 |
| Fourth | 95.4 | 2,702 | 94.2 | 986 |
| Highest | 98.4 | 2,868 | 97.9 | 966 |
| Total | 91.6 | 12,885 | 92.0 | 4,737 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Total includes two men with missing information on marital status.
${ }^{2}$ Total includes three women with missing information on education.

Table 13.2 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 HIV 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, Myanmar DHS 2015-16

| Background characteristic | Percentage of women who say HIV can be prevented by |  |  |  | Percentage of men who say HIV can be prevented by |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Using condoms ${ }^{1}$ | Limiting sexual intercourse to one uninfected partner ${ }^{2}$ | Using <br> condoms and limiting sexual intercourse to one uninfected partner ${ }^{1,2}$ | Number of women | Using condoms ${ }^{1}$ | Limiting sexual intercourse to one uninfected partner ${ }^{2}$ | Using <br> condoms and limiting sexual intercourse to one uninfected partner ${ }^{1,2}$ | Number of men |
| Age |  |  |  |  |  |  |  |  |
| 15-24 | 54.2 | 65.7 | 48.2 | 3,677 | 68.2 | 68.8 | 58.8 | 1,423 |
| 15-19 | 49.8 | 62.9 | 44.3 | 1,810 | 62.5 | 64.7 | 53.0 | 731 |
| 20-24 | 58.5 | 68.4 | 52.0 | 1,867 | 74.3 | 73.2 | 64.9 | 692 |
| 25-29 | 62.5 | 73.6 | 56.9 | 1,867 | 74.9 | 76.9 | 66.1 | 677 |
| 30-39 | 64.4 | 74.2 | 59.2 | 3,990 | 72.3 | 77.6 | 64.4 | 1,377 |
| 40-49 | 57.5 | 69.0 | 52.0 | 3,351 | 68.8 | 76.8 | 61.8 | 1,259 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 72.3 | 78.5 | 66.0 | 3,768 | 84.9 | 85.3 | 77.0 | 1,350 |
| Rural | 54.1 | 66.9 | 48.8 | 9,117 | 64.8 | 70.4 | 56.4 | 3,387 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | 70.1 | 74.8 | 61.6 | 374 | 77.6 | 78.7 | 67.1 | 161 |
| Kayah | 68.2 | 77.4 | 62.5 | 65 | 69.6 | 74.3 | 60.5 | 23 |
| Kayin | 56.7 | 71.8 | 52.4 | 303 | 56.4 | 24.6 | 15.7 | 115 |
| Chin | 41.5 | 38.7 | 27.2 | 102 | 60.7 | 50.2 | 37.6 | 39 |
| Sagaing | 69.1 | 86.4 | 67.0 | 1,410 | 76.4 | 70.4 | 62.8 | 514 |
| Tanintharyi | 61.7 | 78.7 | 59.5 | 283 | 79.6 | 88.1 | 76.7 | 103 |
| Bago | 64.1 | 80.2 | 60.8 | 1,244 | 70.5 | 86.2 | 66.5 | 454 |
| Magway | 59.7 | 70.3 | 50.4 | 1,081 | 80.1 | 79.7 | 70.6 | 320 |
| Mandalay | 57.5 | 70.8 | 49.5 | 1,541 | 69.3 | 81.3 | 63.5 | 601 |
| Mon | 60.0 | 70.2 | 53.3 | 463 | 79.7 | 79.8 | 70.6 | 162 |
| Rakhine | 37.8 | 45.1 | 31.5 | 777 | 70.3 | 74.4 | 67.6 | 222 |
| Yangon | 63.5 | 69.4 | 56.8 | 1,927 | 84.0 | 86.4 | 78.1 | 703 |
| Shan | 35.2 | 40.3 | 29.6 | 1,368 | 52.5 | 52.6 | 43.6 | 542 |
| Ayeyarwady | 73.3 | 84.3 | 70.0 | 1,650 | 60.6 | 72.2 | 54.0 | 653 |
| Nay Pyi Taw | 58.3 | 76.3 | 52.8 | 300 | 70.1 | 78.9 | 64.6 | 126 |
| Education ${ }^{3}$ |  |  |  |  |  |  |  |  |
| No education | 27.3 | 35.8 | 22.0 | 1,606 | 40.7 | 45.4 | 31.9 | 575 |
| Primary | 52.6 | 67.3 | 47.2 | 5,305 | 61.4 | 69.7 | 53.3 | 1,684 |
| Secondary | 69.7 | 79.8 | 64.0 | 4,646 | 82.3 | 83.6 | 73.8 | 2,139 |
| More than secondary | 89.8 | 90.8 | 83.5 | 1,325 | 91.7 | 92.5 | 85.1 | 339 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 45.2 | 55.9 | 39.2 | 2,274 | 54.8 | 61.8 | 46.8 | 890 |
| Second | 50.8 | 65.0 | 46.3 | 2,408 | 58.6 | 66.5 | 51.0 | 916 |
| Middle | 57.2 | 71.0 | 51.6 | 2,633 | 70.4 | 78.8 | 63.5 | 979 |
| Fourth | 64.0 | 74.9 | 58.7 | 2,702 | 79.4 | 78.3 | 69.2 | 986 |
| Highest | 75.6 | 81.3 | 69.3 | 2,868 | 87.3 | 86.3 | 78.9 | 966 |
| Total | 59.4 | 70.3 | 53.8 | 12,885 | 70.5 | 74.7 | 62.3 | 4,737 |

[^20]Table 13.3.1 Comprehensive knowledge about HIV: Women
Percentage of women age 15-49 who say that a healthy-looking person can have HIV and who, in response to prompted questions, correctly reject local misconceptions about transmission or prevention of HIV, and the percentage with comprehensive knowledge about HIV, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Percentage of respondents who say that: |  |  |  | Percentage who say that a <br> healthy-looking person can have HIV and who reject the two most common local misconceptions ${ }^{1}$ | Percentage with comprehensive knowledge about HIV ${ }^{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A healthylooking person can have HIV | HIV cannot be transmitted by mosquito bites | HIV cannot be transmitted by supernatural means | A person cannot become infected by sharing food with a person who has HIV |  |  | Number of respondents |
| Age |  |  |  |  |  |  |  |
| 15-24 | 60.2 | 34.6 | 68.3 | 53.8 | 21.1 | 16.2 | 3,677 |
| 15-19 | 59.6 | 33.5 | 66.8 | 49.6 | 18.6 | 13.4 | 1,810 |
| 20-24 | 60.9 | 35.7 | 69.6 | 57.9 | 23.4 | 18.9 | 1,867 |
| 25-29 | 61.8 | 41.9 | 71.5 | 63.1 | 27.9 | 23.7 | 1,867 |
| 30-39 | 58.9 | 40.7 | 71.4 | 59.8 | 26.3 | 22.1 | 3,990 |
| 40-49 | 55.3 | 36.5 | 65.7 | 55.2 | 23.1 | 18.7 | 3,351 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 62.6 | 41.3 | 73.4 | 61.9 | 27.4 | 21.4 | 4,278 |
| Ever had sex | * | * | * | * | * | * | 11 |
| Never had sex | 62.6 | 41.3 | 73.4 | 61.9 | 27.4 | 21.4 | 4,267 |
| Married | 57.2 | 36.4 | 67.1 | 55.5 | 22.8 | 19.1 | 7,759 |
| Divorced/separated/ widowed | 53.6 | 36.0 | 64.8 | 52.0 | 20.9 | 17.1 | 848 |
| Residence |  |  |  |  |  |  |  |
| Urban | 73.7 | 57.0 | 86.3 | 78.9 | 43.2 | 36.0 | 3,768 |
| Rural | 52.6 | 30.2 | 61.9 | 48.5 | 16.3 | 13.0 | 9,117 |
| States/Regions |  |  |  |  |  |  |  |
| Kachin | 72.8 | 44.1 | 71.7 | 70.0 | 33.2 | 27.0 | 374 |
| Kayah | 69.4 | 48.1 | 63.9 | 63.4 | 33.1 | 27.7 | 65 |
| Kayin | 50.7 | 33.2 | 52.8 | 52.0 | 20.7 | 17.9 | 303 |
| Chin | 50.8 | 31.3 | 47.9 | 48.7 | 18.0 | 9.8 | 102 |
| Sagaing | 74.0 | 31.5 | 71.6 | 54.5 | 22.4 | 19.3 | 1,410 |
| Tanintharyi | 52.0 | 46.0 | 78.7 | 69.0 | 25.7 | 22.5 | 283 |
| Bago | 60.6 | 37.3 | 73.6 | 55.5 | 22.2 | 18.7 | 1,244 |
| Magway | 57.6 | 33.3 | 65.8 | 53.1 | 20.1 | 15.6 | 1,081 |
| Mandalay | 66.5 | 34.5 | 73.1 | 61.5 | 25.0 | 18.3 | 1,541 |
| Mon | 61.5 | 49.1 | 79.6 | 69.0 | 34.1 | 26.9 | 463 |
| Rakhine | 26.7 | 28.6 | 48.2 | 34.7 | 10.8 | 7.6 | 777 |
| Yangon | 70.8 | 53.5 | 84.1 | 73.2 | 40.4 | 33.3 | 1,927 |
| Shan | 35.5 | 29.0 | 50.9 | 42.7 | 15.4 | 11.5 | 1,368 |
| Ayeyarwady | 57.8 | 39.9 | 70.4 | 58.9 | 19.9 | 18.5 | 1,650 |
| Nay Pyi Taw | 53.9 | 36.1 | 57.6 | 50.4 | 22.0 | 18.2 | 300 |
| Education ${ }^{3}$ |  |  |  |  |  |  |  |
| No education | 26.8 | 14.3 | 31.1 | 22.3 | 3.5 | 2.3 | 1,606 |
| Primary | 52.8 | 26.9 | 61.1 | 45.8 | 12.7 | 9.6 | 5,305 |
| Secondary | 68.4 | 46.7 | 83.0 | 71.6 | 31.2 | 25.4 | 4,646 |
| More than secondary | 87.6 | 81.0 | 97.6 | 96.0 | 70.4 | 61.9 | 1,325 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 39.2 | 21.8 | 46.4 | 31.4 | 6.7 | 4.9 | 2,274 |
| Second | 48.5 | 25.6 | 59.3 | 44.5 | 12.0 | 9.7 | 2,408 |
| Middle | 58.3 | 32.1 | 69.0 | 54.7 | 18.2 | 14.4 | 2,633 |
| Fourth | 66.1 | 43.0 | 77.3 | 67.3 | 29.6 | 24.2 | 2,702 |
| Highest | 76.3 | 62.2 | 87.5 | 82.0 | 48.7 | 40.6 | 2,868 |
| Total | 58.7 | 38.0 | 69.0 | 57.4 | 24.2 | 19.7 | 12,885 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Two most common local misconceptions: that HIV can be transmitted by mosquito bites and by sharing food with a person who has HIV
${ }^{2}$ 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.
${ }^{3}$ Total includes three women with missing information on education.

Table 13.3.2 Comprehensive knowledge about HIV: Men
Percentage of men age 15-49 who say that a healthy-looking person can have HIV and who, in response to prompted questions, correctly reject local misconceptions about transmission or prevention of HIV, and the percentage with comprehensive knowledge about HIV, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Percentage of respondents who say that: |  |  |  | Percentage who say that a healthy-looking person can have HIV and who reject the two most common local misconceptions ${ }^{1}$ | Percentage with comprehensiv e knowledge about HIV ${ }^{2}$ | Number of respondents |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A healthylooking person can have HIV | HIV cannot be transmitted by mosquito bites | HIV cannot be transmitted by supernatural means | A person cannot become infected by sharing food with a person who has HIV |  |  |  |
| Age |  |  |  |  |  |  |  |
| 15-24 | 54.2 | 37.4 | 70.4 | 49.6 | 21.0 | 17.8 | 1,423 |
| 15-19 | 50.1 | 36.5 | 67.9 | 43.4 | 17.3 | 14.3 | 731 |
| 20-24 | 58.6 | 38.3 | 73.2 | 56.2 | 24.9 | 21.5 | 692 |
| 25-29 | 63.3 | 44.8 | 78.3 | 62.9 | 32.7 | 26.6 | 677 |
| 30-39 | 60.1 | 40.9 | 73.5 | 59.8 | 29.0 | 24.3 | 1,377 |
| 40-49 | 57.8 | 38.3 | 70.2 | 53.7 | 26.2 | 22.7 | 1,259 |
| Marital status ${ }^{3}$ |  |  |  |  |  |  |  |
| Never married | 56.2 | 42.5 | 73.4 | 55.8 | 26.5 | 21.5 | 1,644 |
| Ever had sex | 75.2 | 58.8 | 86.2 | 73.2 | 45.5 | 36.7 | 178 |
| Never had sex | 53.9 | 40.6 | 71.8 | 53.7 | 24.2 | 19.7 | 1,466 |
| Married | 59.6 | 38.1 | 72.3 | 55.6 | 26.4 | 22.9 | 2,957 |
| Divorced/separated/widowed | 50.7 | 38.7 | 62.4 | 50.6 | 24.3 | 17.4 | 135 |
| Residence |  |  |  |  |  |  |  |
| Urban | 70.8 | 59.4 | 86.5 | 75.1 | 45.1 | 38.1 | 1,350 |
| Rural | 53.1 | 31.8 | 66.8 | 47.8 | 18.9 | 16.0 | 3,387 |
| States/Regions |  |  |  |  |  |  |  |
| Kachin | 74.7 | 48.6 | 82.3 | 64.1 | 37.2 | 31.9 | 161 |
| Kayah | 43.3 | 39.7 | 59.8 | 57.2 | 19.7 | 18.2 | 23 |
| Kayin | 51.4 | 32.7 | 64.0 | 56.4 | 20.1 | 5.3 | 115 |
| Chin | 55.5 | 39.1 | 56.6 | 57.9 | 23.4 | 14.4 | 39 |
| Sagaing | 61.3 | 40.8 | 72.4 | 50.7 | 26.0 | 22.2 | 514 |
| Tanintharyi | 50.9 | 40.7 | 79.1 | 64.4 | 23.7 | 23.3 | 103 |
| Bago | 68.8 | 38.4 | 81.3 | 52.9 | 25.2 | 21.8 | 454 |
| Magway | 69.2 | 36.7 | 77.6 | 58.1 | 28.3 | 24.9 | 320 |
| Mandalay | 68.7 | 36.2 | 78.9 | 60.7 | 26.3 | 22.8 | 601 |
| Mon | 58.9 | 53.2 | 75.5 | 64.4 | 30.1 | 26.6 | 162 |
| Rakhine | 44.2 | 43.8 | 69.4 | 45.8 | 24.7 | 23.2 | 222 |
| Yangon | 72.9 | 61.1 | 85.5 | 71.8 | 46.3 | 39.7 | 703 |
| Shan | 30.1 | 26.2 | 52.7 | 40.6 | 13.1 | 10.0 | 542 |
| Ayeyarwady | 44.2 | 27.6 | 59.9 | 49.1 | 15.8 | 12.5 | 653 |
| Nay Pyi Taw | 57.5 | 35.7 | 70.5 | 47.4 | 23.2 | 19.4 | 126 |
| Education |  |  |  |  |  |  |  |
| No education | 30.8 | 12.0 | 40.7 | 24.8 | 3.9 | 3.1 | 575 |
| Primary | 49.9 | 25.7 | 62.0 | 41.5 | 13.8 | 11.2 | 1,684 |
| Secondary | 67.5 | 51.6 | 85.2 | 68.5 | 35.1 | 29.9 | 2,139 |
| More than secondary | 86.6 | 81.2 | 96.8 | 95.8 | 72.1 | 61.9 | 339 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 39.8 | 19.3 | 52.9 | 32.7 | 7.8 | 6.3 | 890 |
| Second | 52.7 | 26.4 | 60.5 | 41.9 | 15.1 | 12.8 | 916 |
| Middle | 60.7 | 40.8 | 75.0 | 53.5 | 24.2 | 20.4 | 979 |
| Fourth | 62.9 | 44.6 | 80.2 | 65.4 | 31.7 | 27.5 | 986 |
| Highest | 73.0 | 64.9 | 91.0 | 81.7 | 50.9 | 42.5 | 966 |
| Total | 58.2 | 39.7 | 72.4 | 55.6 | 26.4 | 22.3 | 4,737 |

${ }^{1}$ Two most common local misconceptions: that HIV can be transmitted by mosquito bites and by sharing food with a person who has HIV
${ }^{2}$ 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.
${ }^{3}$ Total includes three men with missing information on marital status.

Table 13.4 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, Myanmar DHS 2015-16

| Background characteristic | Women |  |  |  | Men |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who know that: |  |  |  | Percentage who know that: |  |  |  |
|  | 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 |
| Age |  |  |  |  |  |  |  |  |
| 15-24 | 63.5 | 56.8 | 48.2 | 3,677 | 54.5 | 50.0 | 40.2 | 1,423 |
| 15-19 | 61.3 | 55.2 | 46.6 | 1,810 | 53.5 | 47.7 | 39.1 | 731 |
| 20-24 | 65.8 | 58.3 | 49.7 | 1,867 | 55.6 | 52.5 | 41.4 | 692 |
| 25-29 | 67.4 | 62.6 | 54.7 | 1,867 | 59.4 | 58.7 | 44.9 | 677 |
| 30-39 | 69.9 | 60.9 | 53.2 | 3,990 | 64.7 | 56.0 | 46.8 | 1,377 |
| 40-49 | 67.7 | 57.3 | 50.7 | 3,351 | 63.7 | 57.0 | 46.7 | 1,259 |
| Marital status ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Never married | 62.0 | 56.6 | 46.8 | 4,278 | 55.5 | 52.1 | 41.3 | 1,644 |
| Ever had sex | * | * | * | 11 | 61.1 | 56.1 | 41.3 | 178 |
| Never had sex | 62.1 | 56.5 | 46.8 | 4,267 | 54.8 | 51.6 | 41.3 | 1,466 |
| Married | 70.3 | 60.4 | 53.8 | 7,759 | 63.7 | 56.8 | 46.5 | 2,957 |
| Divorced/separated/ widowed | 64.2 | 58.8 | 51.8 | 848 | 55.6 | 46.9 | 41.8 | 135 |
| Currently pregnant |  |  |  |  |  |  |  |  |
| Pregnant | 67.4 | 62.2 | 53.7 | 466 | na | na | na | na |
| Not pregnant or not sure | 67.1 | 58.9 | 51.2 | 12,419 | na | na | na | na |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 67.3 | 63.9 | 53.1 | 3,768 | 58.3 | 60.2 | 43.7 | 1,350 |
| Rural | 67.1 | 57.0 | 50.6 | 9,117 | 61.6 | 52.7 | 44.8 | 3,387 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | 68.8 | 71.2 | 57.2 | 374 | 60.6 | 67.2 | 47.1 | 161 |
| Kayah | 71.2 | 62.2 | 51.9 | 65 | 49.1 | 38.5 | 27.1 | 23 |
| Kayin | 68.1 | 48.2 | 42.8 | 303 | 57.5 | 35.1 | 30.7 | 115 |
| Chin | 58.3 | 38.2 | 32.7 | 102 | 62.5 | 52.0 | 40.1 | 39 |
| Sagaing | 78.5 | 74.1 | 65.4 | 1,410 | 70.8 | 58.0 | 49.6 | 514 |
| Tanintharyi | 71.9 | 63.2 | 54.7 | 283 | 76.6 | 71.3 | 61.9 | 103 |
| Bago | 73.1 | 63.5 | 55.5 | 1,244 | 73.5 | 62.7 | 53.7 | 454 |
| Magway | 67.2 | 57.9 | 49.8 | 1,081 | 67.3 | 62.1 | 52.1 | 320 |
| Mandalay | 74.8 | 65.5 | 56.7 | 1,541 | 63.6 | 60.2 | 49.7 | 601 |
| Mon | 63.9 | 54.5 | 45.5 | 463 | 61.7 | 48.1 | 36.7 | 162 |
| Rakhine | 53.1 | 42.0 | 36.7 | 777 | 59.4 | 46.2 | 40.7 | 222 |
| Yangon | 61.9 | 59.8 | 51.5 | 1,927 | 55.5 | 67.1 | 47.4 | 703 |
| Shan | 42.9 | 33.6 | 28.9 | 1,368 | 34.7 | 25.5 | 20.3 | 542 |
| Ayeyarwady | 77.9 | 65.8 | 59.1 | 1,650 | 61.9 | 52.0 | 45.2 | 653 |
| Nay Pyi Taw | 70.7 | 63.0 | 54.8 | 300 | 66.7 | 59.0 | 48.0 | 126 |
| Education ${ }^{2}$ |  |  |  |  |  |  |  |  |
| No education | 43.5 | 36.2 | 32.3 | 1,606 | 42.1 | 34.1 | 31.0 | 575 |
| Primary | 70.1 | 59.2 | 53.7 | 5,305 | 62.2 | 54.1 | 46.7 | 1,684 |
| Secondary | 71.4 | 64.6 | 54.9 | 4,646 | 64.3 | 60.2 | 46.8 | 2,139 |
| More than secondary | 69.2 | 66.7 | 52.6 | 1,325 | 61.0 | 60.1 | 42.4 | 339 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 61.3 | 48.9 | 45.4 | 2,274 | 59.8 | 48.7 | 45.0 | 890 |
| Second | 67.5 | 58.3 | 52.8 | 2,408 | 61.2 | 51.7 | 44.2 | 916 |
| Middle | 70.0 | 59.5 | 52.4 | 2,633 | 65.2 | 56.8 | 47.8 | 979 |
| Fourth | 68.5 | 62.2 | 52.9 | 2,702 | 59.7 | 57.3 | 44.5 | 986 |
| Highest | 67.6 | 64.2 | 52.4 | 2,868 | 57.0 | 59.0 | 41.1 | 966 |
| Total | 67.1 | 59.0 | 51.3 | 12,885 | 60.6 | 54.9 | 44.5 | 4,737 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
na $=$ Not applicable
${ }^{1}$ Total includes two men with missing information on marital status.
${ }^{2}$ Total includes three women with missing information on education.

Table 13.5.1 Accepting attitudes toward those living with HIVIAIDS: Women
Among women age 15-49 who have heard of AIDS, percentage expressing specific accepting attitudes toward people with HIV/AIDS, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Percentage of women who: |  |  |  | Percentage expressing accepting attitudes on all four indicators | Number of women 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 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 |  |  |
| Age |  |  |  |  |  |  |
| 15-24 | 81.2 | 31.5 | 54.7 | 68.1 | 17.3 | 3,305 |
| 15-19 | 80.4 | 27.6 | 52.8 | 65.1 | 14.9 | 1,603 |
| 20-24 | 82.0 | 35.1 | 56.5 | 71.0 | 19.6 | 1,702 |
| 25-29 | 80.5 | 40.6 | 57.3 | 73.5 | 21.9 | 1,727 |
| 30-39 | 79.8 | 36.2 | 53.7 | 77.8 | 21.1 | 3,696 |
| 40-49 | 78.6 | 34.4 | 48.7 | 80.9 | 20.7 | 3,069 |
| Marital status |  |  |  |  |  |  |
| Never married | 84.4 | 38.2 | 58.0 | 70.5 | 21.8 | 3,945 |
| Ever had sex | * | * | 58.0 | . | 21.8 | 10 |
| Never had sex | 84.4 | 38.2 | 58.1 | 70.5 | 21.8 | 3,935 |
| Married | 77.4 | 32.9 | 50.4 | 77.6 | 18.5 | 7,096 |
| Divorced/separated/w idowed | 81.3 | 38.9 | 53.7 | 78.2 | 25.4 | 756 |
| Residence |  |  |  |  |  |  |
| Urban | 87.0 | 48.5 | 69.9 | 70.5 | 29.5 | 3,695 |
| Rural | 76.8 | 28.9 | 45.5 | 77.4 | 15.8 | 8,102 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 82.1 | 49.0 | 60.5 | 74.9 | 25.9 | 358 |
| Kayah | 76.7 | 44.5 | 61.6 | 83.0 | 26.7 | 61 |
| Kayin | 76.6 | 30.6 | 49.7 | 80.7 | 16.3 | 267 |
| Chin | 74.8 | 39.7 | 54.6 | 59.4 | 18.7 | 77 |
| Sagaing | 82.1 | 27.9 | 48.3 | 78.3 | 16.9 | 1,358 |
| Tanintharyi | 80.4 | 47.6 | 56.3 | 67.9 | 24.7 | 275 |
| Bago | 74.4 | 32.1 | 48.7 | 82.4 | 17.4 | 1,182 |
| Magway | 82.7 | 29.6 | 43.4 | 74.0 | 13.6 | 1,056 |
| Mandalay | 78.6 | 27.4 | 48.1 | 77.2 | 14.3 | 1,454 |
| Mon | 85.6 | 49.9 | 59.5 | 69.8 | 29.1 | 448 |
| Rakhine | 63.1 | 19.8 | 36.9 | 66.9 | 11.4 | 563 |
| Yangon | 88.7 | 47.2 | 69.2 | 76.9 | 31.5 | 1,897 |
| Shan | 78.4 | 36.1 | 51.1 | 63.2 | 20.0 | 961 |
| Ayeyarwady | 79.8 | 36.6 | 57.7 | 76.0 | 20.4 | 1,556 |
| Nay Pyi Taw | 66.0 | 26.4 | 42.9 | 82.0 | 14.2 | 283 |
| Education ${ }^{1}$ |  |  |  |  |  |  |
| No education | 70.7 | 22.6 | 31.6 | 72.6 | 9.4 | 1,049 |
| Primary | 75.3 | 26.8 | 44.4 | 79.9 | 14.3 | 4,868 |
| Secondary | 83.9 | 38.4 | 59.1 | 73.0 | 23.2 | 4,552 |
| More than secondary | 91.1 | 63.6 | 82.1 | 68.3 | 38.4 | 1,325 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 68.4 | 22.7 | 40.8 | 77.5 | 10.6 | 1,791 |
| Second | 74.7 | 26.5 | 42.6 | 78.1 | 14.6 | 2,146 |
| Middle | 80.2 | 30.5 | 47.6 | 78.0 | 17.7 | 2,463 |
| Fourth | 83.7 | 38.5 | 57.9 | 74.6 | 22.6 | 2,576 |
| Highest | 87.9 | 50.3 | 69.6 | 69.9 | 29.8 | 2,820 |
| Total | 80.0 | 35.1 | 53.2 | 75.3 | 20.0 | 11,797 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Total includes three women with missing information on education.

Table 13.5.2 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, Myanmar DHS 2015-16

| Background characteristic | Percentage of men who: |  |  |  | Percentage expressing accepting attitudes on all four indicators | Number of men 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 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 |  |  |
| Age |  |  |  |  |  |  |
| 15-24 | 71.1 | 31.6 | 46.7 | 71.3 | 14.9 | 1,279 |
| 15-19 | 68.9 | 25.0 | 44.5 | 69.7 | 11.1 | 651 |
| 20-24 | 73.5 | 38.4 | 48.9 | 72.9 | 18.9 | 628 |
| 25-29 | 76.0 | 45.4 | 58.1 | 79.0 | 26.5 | 632 |
| 30-39 | 71.7 | 37.8 | 51.0 | 79.8 | 19.9 | 1,288 |
| 40-49 | 69.8 | 31.8 | 45.1 | 86.4 | 18.1 | 1,159 |
| Marital status ${ }^{1}$ |  |  |  |  |  |  |
| Never married | 74.5 | 36.8 | 50.7 | 72.6 | 18.1 | 1,501 |
| Ever had sex | 85.4 | 53.6 | 55.6 | 65.2 | 22.9 | 172 |
| Never had sex | 73.1 | 34.6 | 50.1 | 73.6 | 17.4 | 1,329 |
| Married | 70.0 | 34.9 | 48.7 | 82.2 | 19.4 | 2,736 |
| Divorced/separated/ widowed | 73.4 | 32.2 | 39.3 | 82.6 | 16.4 | 119 |
| Residence |  |  |  |  |  |  |
| Urban | 75.4 | 51.4 | 65.6 | 73.5 | 26.9 | 1,320 |
| Rural | 70.0 | 28.6 | 42.1 | 81.3 | 15.4 | 3,039 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 88.1 | 49.8 | 62.7 | 82.5 | 27.9 | 156 |
| Kayah | 70.7 | 38.4 | 43.5 | 74.4 | 20.3 | 21 |
| Kayin | 90.4 | 40.5 | 59.9 | 61.8 | 19.4 | 101 |
| Chin | 76.0 | 37.3 | 52.6 | 59.9 | 15.7 | 35 |
| Sagaing | 76.3 | 30.1 | 57.2 | 75.5 | 18.6 | 480 |
| Tanintharyi | 81.7 | 47.8 | 56.6 | 80.4 | 26.7 | 100 |
| Bago | 66.6 | 28.5 | 44.7 | 86.5 | 16.3 | 452 |
| Magway | 80.0 | 30.5 | 34.9 | 85.9 | 16.9 | 309 |
| Mandalay | 77.5 | 34.6 | 46.9 | 81.3 | 18.7 | 578 |
| Mon | 77.9 | 35.7 | 50.2 | 76.3 | 20.0 | 157 |
| Rakhine | 75.8 | 36.3 | 51.7 | 68.1 | 19.9 | 180 |
| Yangon | 63.6 | 54.0 | 60.7 | 81.2 | 27.8 | 695 |
| Shan | 73.8 | 28.0 | 44.5 | 74.5 | 14.4 | 367 |
| Ayeyarwady | 59.3 | 25.7 | 39.4 | 76.4 | 11.6 | 609 |
| Nay Pyi Taw | 63.8 | 30.0 | 41.4 | 82.6 | 14.4 | 118 |
| Education |  |  |  |  |  |  |
| No education | 69.7 | 15.7 | 31.1 | 79.5 | 6.4 | 394 |
| Primary | 64.9 | 24.5 | 36.5 | 82.0 | 10.6 | 1,535 |
| Secondary | 75.0 | 41.4 | 57.0 | 76.9 | 23.5 | 2,091 |
| More than secondary | 84.0 | 72.0 | 79.5 | 77.1 | 42.9 | 339 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 60.9 | 21.3 | 35.4 | 79.0 | 9.2 | 750 |
| Second | 67.5 | 25.2 | 36.9 | 82.9 | 12.8 | 813 |
| Middle | 73.8 | 33.3 | 45.7 | 82.7 | 18.6 | 922 |
| Fourth | 73.0 | 38.3 | 55.2 | 77.5 | 19.3 | 928 |
| Highest | 80.2 | 55.1 | 68.2 | 73.2 | 31.7 | 946 |
| Total | 71.7 | 35.5 | 49.2 | 78.9 | 18.9 | 4,358 |

[^21]Table 13.6 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, Myanmar DHS 2015-16

| Background characteristic | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Woman is justified in: |  |  | Woman is justified in: |  |  |
|  | 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 |
| Age |  |  |  |  |  |  |
| 15-24 | 77.1 | 68.4 | 3,677 | 66.2 | 77.4 | 1,423 |
| 15-19 | 73.0 | 62.5 | 1,810 | 65.6 | 73.1 | 731 |
| 20-24 | 81.0 | 74.1 | 1,867 | 66.9 | 82.0 | 692 |
| 25-29 | 83.2 | 78.8 | 1,867 | 71.6 | 87.5 | 677 |
| 30-39 | 82.1 | 79.6 | 3,990 | 68.1 | 84.1 | 1,377 |
| 40-49 | 80.8 | 75.8 | 3,351 | 67.9 | 82.1 | 1,259 |
| Marital status ${ }^{1}$ |  |  |  |  |  |  |
| Never married | 76.0 | 69.1 | 4,278 | 65.1 | 78.7 | 1,644 |
| Ever had sex | * | * | 11 | 74.5 | 91.0 | 178 |
| Never had sex | 76.0 | 69.1 | 4,267 | 64.0 | 77.2 | 1,466 |
| Married | 82.9 | 78.8 | 7,759 | 69.8 | 84.4 | 2,957 |
| Divorced/separated/ widowed | 80.4 | 74.0 | 848 | 63.3 | 72.3 | 135 |
| Residence |  |  |  |  |  |  |
| Urban | 84.4 | 84.0 | 3,768 | 79.2 | 90.9 | 1,350 |
| Rural | 78.9 | 71.7 | 9,117 | 63.5 | 78.5 | 3,387 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 74.9 | 86.2 | 374 | 69.2 | 90.5 | 161 |
| Kayah | 77.3 | 78.7 | 65 | 54.7 | 84.3 | 23 |
| Kayin | 83.1 | 77.2 | 303 | 70.0 | 75.8 | 115 |
| Chin | 70.6 | 65.6 | 102 | 49.3 | 69.7 | 39 |
| Sagaing | 90.6 | 88.8 | 1,410 | 58.2 | 81.2 | 514 |
| Tanintharyi | 80.1 | 74.5 | 283 | 62.7 | 82.8 | 103 |
| Bago | 78.2 | 75.2 | 1,244 | 75.0 | 81.3 | 454 |
| Magway | 79.9 | 80.3 | 1,081 | 67.0 | 91.8 | 320 |
| Mandalay | 85.3 | 72.3 | 1,541 | 74.0 | 84.9 | 601 |
| Mon | 81.8 | 74.7 | 463 | 66.9 | 80.0 | 162 |
| Rakhine | 77.9 | 61.4 | 777 | 64.8 | 82.9 | 222 |
| Yangon | 81.0 | 78.1 | 1,927 | 88.3 | 93.0 | 703 |
| Shan | 60.6 | 52.2 | 1,368 | 57.3 | 67.9 | 542 |
| Ayeyarwady | 87.1 | 85.5 | 1,650 | 57.1 | 76.2 | 653 |
| Nay Pyi Taw | 83.7 | 65.9 | 300 | 60.9 | 79.0 | 126 |
| Education ${ }^{2}$ |  |  |  |  |  |  |
| No education | 65.0 | 49.1 | 1,606 | 50.6 | 60.6 | 575 |
| Primary | 79.9 | 73.5 | 5,305 | 61.0 | 78.2 | 1,684 |
| Secondary | 84.0 | 81.1 | 4,646 | 75.3 | 88.5 | 2,139 |
| More than secondary | 89.3 | 94.1 | 1,325 | 85.3 | 97.0 | 339 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 74.5 | 62.8 | 2,274 | 54.9 | 69.3 | 890 |
| Second | 79.2 | 71.6 | 2,408 | 59.8 | 74.4 | 916 |
| Middle | 81.2 | 75.8 | 2,633 | 69.7 | 84.3 | 979 |
| Fourth | 82.4 | 78.8 | 2,702 | 73.2 | 88.0 | 986 |
| Highest | 83.8 | 84.5 | 2,868 | 80.7 | 92.8 | 966 |
| Total | 80.5 | 75.3 | 12,885 | 68.0 | 82.1 | 4,737 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Total includes two men with missing information on marital status.
${ }^{2}$ Total includes three women with missing information on education.

Table 13.7 Adult support of education about condom use to prevent AIDS
Percentage of women and men age 18-49 who agree that children age 12-14 should be taught about using a condom to avoid AIDS, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Women |  | Men |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Percentage who agree | Number | Percentage who agree | Number |
| Age |  |  |  |  |
| 18-24 | 39.2 | 2,581 | 40.9 | 971 |
| 18-19 | 35.6 | 714 | 32.9 | 279 |
| 20-24 | 40.5 | 1,867 | 44.2 | 692 |
| 25-29 | 44.4 | 1,867 | 51.8 | 677 |
| 30-39 | 39.9 | 3,990 | 47.8 | 1,377 |
| 40-49 | 39.6 | 3,351 | 44.3 | 1,259 |
| Marital status |  |  |  |  |
| Never married | 43.6 | 3,256 | 44.5 | 1,199 |
| Married | 39.0 | 7,692 | 46.8 | 2,952 |
| Divorced/separated/w idowed | 40.5 | 841 | 36.5 | 133 |
| Residence |  |  |  |  |
| Urban | 51.4 | 3,420 | 54.0 | 1,219 |
| Rural | 35.8 | 8,370 | 42.6 | 3,066 |
| States/Regions |  |  |  |  |
| Kachin | 39.7 | 341 | 54.4 | 150 |
| Kayah | 42.6 | 59 | 41.7 | 20 |
| Kayin | 39.3 | 275 | 30.1 | 104 |
| Chin | 41.9 | 91 | 52.3 | 34 |
| Sagaing | 45.7 | 1,313 | 56.5 | 455 |
| Tanintharyi | 30.7 | 258 | 43.3 | 89 |
| Bago | 42.5 | 1,122 | 45.6 | 407 |
| Magway | 49.1 | 1,004 | 61.7 | 288 |
| Mandalay | 37.8 | 1,444 | 38.1 | 544 |
| Mon | 29.3 | 423 | 54.3 | 141 |
| Rakhine | 27.2 | 705 | 54.0 | 191 |
| Yangon | 53.9 | 1,739 | 48.6 | 640 |
| Shan | 21.3 | 1,213 | 31.6 | 508 |
| Ayeyarwady | 41.8 | 1,524 | 42.2 | 600 |
| Nay Pyi Taw | 39.4 | 279 | 48.2 | 112 |
| Education ${ }^{1}$ |  |  |  |  |
| No education | 20.7 | 1,543 | 28.8 | 545 |
| Primary | 36.2 | 5,059 | 40.4 | 1,592 |
| Secondary | 46.5 | 3,875 | 52.9 | 1,816 |
| More than secondary | 61.6 | 1,309 | 61.7 | 332 |
| Wealth quintile |  |  |  |  |
| Lowest | 29.3 | 2,073 | 36.1 | 801 |
| Second | 34.5 | 2,201 | 40.3 | 836 |
| Middle | 40.3 | 2,401 | 46.0 | 878 |
| Fourth | 43.0 | 2,476 | 48.8 | 882 |
| Highest | 51.5 | 2,639 | 56.8 | 889 |
| Total 18-49 | 40.4 | 11,789 | 45.9 | 4,285 |

${ }^{1}$ Total includes three women with missing information on education.

Table 13.8 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, according to background characteristics, Myanmar DHS 2015-16
$\left.\begin{array}{lccccc}\hline & & \text { Among all men: }\end{array}\right]$

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.

## Table 13.9.1 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, Myanmar DHS 2015-16

| 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 ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |
| 15-24 | 60.5 | 9.2 | 1.2 | 89.6 | 100.0 | 10.4 | 3.5 | 3,677 |
| 15-19 | 56.1 | 3.0 | 0.4 | 96.7 | 100.0 | 3.3 | 0.9 | 1,810 |
| 20-24 | 64.8 | 15.2 | 2.0 | 82.8 | 100.0 | 17.2 | 6.0 | 1,867 |
| 25-29 | 67.8 | 25.7 | 2.8 | 71.4 | 100.0 | 28.6 | 8.1 | 1,867 |
| 30-39 | 67.8 | 24.6 | 2.5 | 73.0 | 100.0 | 27.0 | 6.2 | 3,990 |
| 40-49 | 61.5 | 14.3 | 1.1 | 84.7 | 100.0 | 15.3 | 2.9 | 3,351 |
| Marital status |  |  |  |  |  |  |  |  |
| Never married | 62.7 | 6.6 | 0.5 | 93.0 | 100.0 | 7.0 | 1.9 | 4,278 |
| Ever had sex | * | * | * | * | 100.0 | * | * | 11 |
| Never had sex | 62.7 | 6.5 | 0.5 | 93.0 | 100.0 | 7.0 | 1.9 | 4,267 |
| Married | 65.2 | 24.0 | 2.6 | 73.4 | 100.0 | 26.6 | 6.6 | 7,759 |
| Divorced/separated/ widowed | 61.0 | 15.3 | 1.4 | 83.3 | 100.0 | 16.7 | 3.6 | 848 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 79.7 | 28.0 | 1.7 | 70.3 | 100.0 | 29.7 | 7.6 | 3,768 |
| Rural | 57.6 | 13.4 | 1.8 | 84.8 | 100.0 | 15.2 | 3.7 | 9,117 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | 80.7 | 33.3 | 5.5 | 61.2 | 100.0 | 38.8 | 6.9 | 374 |
| Kayah | 73.8 | 26.1 | 7.5 | 66.4 | 100.0 | 33.6 | 7.8 | 65 |
| Kayin | 59.7 | 26.0 | 3.9 | 70.1 | 100.0 | 29.9 | 7.5 | 303 |
| Chin | 53.0 | 15.2 | 2.5 | 82.3 | 100.0 | 17.7 | 5.3 | 102 |
| Sagaing | 71.5 | 11.1 | 1.7 | 87.2 | 100.0 | 12.8 | 2.9 | 1,410 |
| Tanintharyi | 71.2 | 19.4 | 1.5 | 79.1 | 100.0 | 20.9 | 4.2 | 283 |
| Bago | 68.2 | 15.6 | 1.5 | 82.8 | 100.0 | 17.2 | 4.1 | 1,244 |
| Magway | 60.0 | 13.5 | 2.3 | 84.2 | 100.0 | 15.8 | 4.1 | 1,081 |
| Mandalay | 63.8 | 24.6 | 1.3 | 74.1 | 100.0 | 25.9 | 6.2 | 1,541 |
| Mon | 69.3 | 22.8 | 4.1 | 73.1 | 100.0 | 26.9 | 6.5 | 463 |
| Rakhine | 43.2 | 7.6 | 0.8 | 91.6 | 100.0 | 8.4 | 2.6 | 777 |
| Yangon | 76.4 | 22.4 | 1.0 | 76.6 | 100.0 | 23.4 | 6.1 | 1,927 |
| Shan | 43.4 | 18.5 | 1.7 | 79.8 | 100.0 | 20.2 | 4.7 | 1,368 |
| Ayeyarwady | 66.3 | 13.0 | 1.5 | 85.4 | 100.0 | 14.6 | 4.7 | 1,650 |
| Nay Pyi Taw | 55.9 | 14.9 | 2.0 | 83.1 | 100.0 | 16.9 | 2.6 | 300 |
| Education ${ }^{2}$ |  |  |  |  |  |  |  |  |
| No education | 31.5 | 8.7 | 0.8 | 90.5 | 100.0 | 9.5 | 2.5 | 1,606 |
| Primary | 57.5 | 13.9 | 2.1 | 84.0 | 100.0 | 16.0 | 4.0 | 5,305 |
| Secondary | 74.4 | 19.5 | 1.7 | 78.8 | 100.0 | 21.2 | 5.1 | 4,646 |
| More than secondary | 93.6 | 37.4 | 1.9 | 60.7 | 100.0 | 39.3 | 10.2 | 1,325 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 44.4 | 9.2 | 2.2 | 88.6 | 100.0 | 11.4 | 3.0 | 2,274 |
| Second | 55.9 | 12.8 | 1.7 | 85.5 | 100.0 | 14.5 | 3.5 | 2,408 |
| Middle | 62.5 | 14.0 | 1.4 | 84.5 | 100.0 | 15.5 | 4.1 | 2,633 |
| Fourth | 71.2 | 19.7 | 2.2 | 78.1 | 100.0 | 21.9 | 5.5 | 2,702 |
| Highest | 81.4 | 29.9 | 1.5 | 68.6 | 100.0 | 31.4 | 7.4 | 2,868 |
| Total | 64.1 | 17.7 | 1.8 | 80.5 | 100.0 | 19.5 | 4.8 | 12,885 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
Includes "don't know/missing"
${ }^{2}$ Total includes three women with missing information on education.

## Table 13.9.2 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, Myanmar DHS 2015-16

| Background characteristic | Percent distribution of men by testing status and by whether they received the results of the last test |  |  |  |  |  | Percentage who have been tested for HIV in the past 12 months and received the results of the last test |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who know where to get an HIV test | Ever tested and received results | Ever tested, did not receive results | Never tested ${ }^{1}$ | Total | Percentage ever tested |  | Number of men |
| Age |  |  |  |  |  |  |  |  |
| 15-24 | 56.1 | 10.5 | 1.8 | 87.8 | 100.0 | 12.2 | 4.1 | 1,423 |
| 15-19 | 49.1 | 6.1 | 1.1 | 92.8 | 100.0 | 7.2 | 2.0 | 731 |
| 20-24 | 63.6 | 15.1 | 2.5 | 82.4 | 100.0 | 17.6 | 6.3 | 692 |
| 25-29 | 69.7 | 22.8 | 2.0 | 75.2 | 100.0 | 24.8 | 8.5 | 677 |
| 30-39 | 65.1 | 26.9 | 2.6 | 70.5 | 100.0 | 29.5 | 6.3 | 1,377 |
| 40-49 | 63.2 | 24.0 | 2.0 | 73.9 | 100.0 | 26.1 | 3.5 | 1,259 |
| Marital status ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Never married | 59.1 | 14.5 | 1.5 | 84.0 | 100.0 | 16.0 | 4.2 | 1,644 |
| Ever had sex | 77.5 | 37.4 | 1.4 | 61.2 | 100.0 | 38.8 | 10.4 | 178 |
| Never had sex | 56.9 | 11.8 | 1.5 | 86.8 | 100.0 | 13.2 | 3.4 | 1,466 |
| Married | 64.4 | 23.8 | 2.5 | 73.7 | 100.0 | 26.3 | 5.8 | 2,957 |
| Divorced/separated/ widowed | 64.6 | 26.0 | 1.5 | 72.6 | 100.0 | 27.4 | 5.8 | 135 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 81.0 | 36.7 | 1.8 | 61.5 | 100.0 | 38.5 | 10.0 | 1,350 |
| Rural | 55.2 | 14.2 | 2.2 | 83.6 | 100.0 | 16.4 | 3.3 | 3,387 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | 63.8 | 22.3 | 2.6 | 75.0 | 100.0 | 25.0 | 3.7 | 161 |
| Kayah | 57.2 | 24.9 | 2.3 | 72.8 | 100.0 | 27.2 | 5.3 | 23 |
| Kayin | 40.0 | 15.4 | 2.3 | 82.3 | 100.0 | 17.7 | 4.1 | 115 |
| Chin | 48.8 | 13.4 | 2.4 | 84.2 | 100.0 | 15.8 | 3.3 | 39 |
| Sagaing | 62.3 | 18.2 | 2.1 | 79.7 | 100.0 | 20.3 | 3.7 | 514 |
| Tanintharyi | 76.2 | 24.2 | 2.3 | 73.5 | 100.0 | 26.5 | 7.1 | 103 |
| Bago | 82.0 | 21.3 | 7.9 | 70.8 | 100.0 | 29.2 | 5.9 | 454 |
| Magway | 60.7 | 21.7 | 1.1 | 77.2 | 100.0 | 22.8 | 4.6 | 320 |
| Mandalay | 66.5 | 25.6 | 1.1 | 73.2 | 100.0 | 26.8 | 6.0 | 601 |
| Mon | 58.4 | 19.9 | 3.7 | 76.5 | 100.0 | 23.5 | 5.6 | 162 |
| Rakhine | 52.0 | 10.1 | 0.3 | 89.6 | 100.0 | 10.4 | 2.5 | 222 |
| Yangon | 81.7 | 31.0 | 1.8 | 67.3 | 100.0 | 32.7 | 7.6 | 703 |
| Shan | 41.5 | 14.6 | 1.3 | 84.1 | 100.0 | 15.9 | 5.0 | 542 |
| Ayeyarwady | 50.6 | 15.4 | 0.6 | 84.0 | 100.0 | 16.0 | 4.1 | 653 |
| Nay Pyi Taw | 61.6 | 16.6 | 1.8 | 81.7 | 100.0 | 18.3 | 6.3 | 126 |
| Education |  |  |  |  |  |  |  |  |
| No education | 32.9 | 9.3 | 2.1 | 88.6 | 100.0 | 11.4 | 1.9 | 575 |
| Primary | 51.9 | 13.6 | 2.2 | 84.3 | 100.0 | 15.7 | 4.1 | 1,684 |
| Secondary | 73.9 | 23.7 | 2.1 | 74.2 | 100.0 | 25.8 | 5.8 | 2,139 |
| More than secondary | 94.5 | 55.1 | 2.2 | 42.7 | 100.0 | 57.3 | 13.0 | 339 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 44.5 | 8.6 | 1.9 | 89.5 | 100.0 | 10.5 | 2.4 | 890 |
| Second | 48.6 | 13.9 | 1.9 | 84.2 | 100.0 | 15.8 | 3.1 | 916 |
| Middle | 62.0 | 14.7 | 2.5 | 82.7 | 100.0 | 17.3 | 3.1 | 979 |
| Fourth | 70.9 | 22.2 | 2.1 | 75.7 | 100.0 | 24.3 | 6.7 | 986 |
| Highest | 84.5 | 42.5 | 2.0 | 55.5 | 100.0 | 44.5 | 10.4 | 966 |
| Total | 62.6 | 20.6 | 2.1 | 77.3 | 100.0 | 22.7 | 5.2 | 4,737 |

[^22]
## Table 13.10 Pregnant women counseled and tested for HIV

Among all women age 15-49 who gave birth in the 2 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, Myanmar DHS 2015-16

| Background characteristic | Percentage who received counseling on HIV during antenatal care ${ }^{1}$ | 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: ${ }^{2}$ |  | Number of women who gave birth in the past 2 years ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Received results and received post-test counseling | Received results and did not receive posttest counseling | Did not receive results |  | Received results | Did not receive results |  |
| Age |  |  |  |  |  |  |  |  |
| 15-24 | 24.8 | 14.8 | 14.3 | 3.6 | 15.2 | 29.3 | 4.3 | 434 |
| 15-19 | 18.9 | 5.1 | 9.1 | 5.0 | 3.6 | 14.2 | 5.0 | 70 |
| 20-24 | 25.9 | 16.6 | 15.3 | 3.3 | 17.4 | 32.2 | 4.2 | 364 |
| 25-29 | 36.5 | 24.7 | 15.7 | 3.5 | 25.3 | 42.1 | 4.0 | 473 |
| 30-39 | 39.2 | 26.1 | 15.6 | 5.7 | 27.2 | 43.9 | 6.2 | 651 |
| 40-49 | 32.7 | 20.3 | 10.4 | 4.7 | 17.3 | 30.7 | 6.2 | 111 |
| Marital status |  |  |  |  |  |  |  |  |
| Married | 34.3 | 22.6 | 14.9 | 4.4 | 22.9 | 38.9 | 5.1 | 1,622 |
| Divorced/separated/ widowed | 33.3 | 15.8 | 15.6 | 5.3 | 22.8 | 34.0 | 5.3 | 48 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 48.6 | 40.9 | 22.1 | 3.6 | 39.2 | 63.7 | 4.1 | 419 |
| Rural | 29.4 | 16.2 | 12.6 | 4.7 | 17.4 | 30.4 | 5.4 | 1,250 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | 33.7 | 21.6 | 34.1 | 9.8 | 25.9 | 56.5 | 9.8 | 56 |
| Kayah | 39.1 | 38.2 | 14.7 | 20.3 | 28.7 | 54.3 | 21.1 | 12 |
| Kayin | 34.7 | 21.6 | 24.1 | 7.7 | 27.6 | 46.4 | 7.7 | 66 |
| Chin | 28.5 | 6.4 | 11.0 | 4.7 | 11.9 | 17.4 | 4.7 | 24 |
| Sagaing | 30.2 | 12.2 | 13.3 | 3.3 | 17.1 | 27.1 | 6.4 | 172 |
| Tanintharyi | 19.2 | 16.3 | 19.9 | 4.2 | 13.8 | 37.0 | 4.2 | 48 |
| Bago | 40.2 | 27.5 | 17.6 | 1.5 | 29.5 | 48.1 | 1.5 | 135 |
| Magway | 38.7 | 15.9 | 19.2 | 8.5 | 18.3 | 37.2 | 8.5 | 119 |
| Mandalay | 39.0 | 25.9 | 26.0 | 2.1 | 30.1 | 55.6 | 3.9 | 183 |
| Mon | 35.2 | 29.7 | 24.0 | 11.6 | 26.3 | 53.7 | 12.6 | 59 |
| Rakhine | 12.5 | 11.1 | 2.1 | 2.4 | 7.2 | 14.0 | 3.0 | 121 |
| Yangon | 56.6 | 46.1 | 11.2 | 4.4 | 43.3 | 58.0 | 4.4 | 193 |
| Shan | 18.2 | 14.0 | 10.3 | 2.2 | 14.0 | 24.3 | 2.2 | 232 |
| Ayeyarwady | 39.4 | 23.7 | 7.3 | 5.0 | 20.0 | 32.7 | 5.0 | 217 |
| Nay Pyi Taw | 39.2 | 16.2 | 17.0 | 8.5 | 20.2 | 33.1 | 9.7 | 32 |
| Education |  |  |  |  |  |  |  |  |
| No education | 11.9 | 7.4 | 6.2 | 1.8 | 6.6 | 13.8 | 2.5 | 264 |
| Primary | 35.0 | 18.8 | 11.8 | 6.0 | 21.8 | 32.0 | 6.8 | 730 |
| Secondary | 41.8 | 29.2 | 18.5 | 4.2 | 28.8 | 49.6 | 4.9 | 532 |
| More than secondary | 43.7 | 42.9 | 33.9 | 2.1 | 36.5 | 78.8 | 2.2 | 143 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 24.1 | 11.9 | 6.0 | 4.6 | 12.5 | 18.9 | 4.7 | 444 |
| Second | 32.3 | 18.4 | 13.9 | 5.1 | 20.0 | 34.7 | 5.6 | 367 |
| Middle | 35.4 | 19.1 | 17.8 | 3.9 | 21.1 | 39.6 | 4.5 | 286 |
| Fourth | 41.7 | 31.8 | 14.2 | 5.2 | 32.5 | 46.0 | 7.3 | 303 |
| Highest | 44.0 | 38.0 | 28.9 | 3.1 | 35.0 | 68.0 | 3.1 | 270 |
| Total | 34.2 | 22.4 | 14.9 | 4.5 | 22.9 | 38.7 | 5.1 | 1,669 |

${ }^{1}$ 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.
${ }^{2}$ Women were asked whether they received an HIV test during labor only if they were not tested for HIV during ANC.
${ }^{3}$ Denominator for percentages includes women who did not receive antenatal care for their last birth in the past 2 years.

Table 13.11 Male circumcision
Percent distribution of men age 15-49 who report having been circumcised, by background characteristics, Myanmar DHS 2015-16

| Background <br> characteristic | Percentage of <br> men <br> circumcised ${ }^{1}$ | Number of <br> men |
| :--- | :---: | :---: |
| Age |  |  |
| $15-24$ | 4.1 | 1,423 |
| $15-19$ | 3.9 | 731 |
| $20-24$ | 4.2 | 692 |
| $25-29$ | 3.9 | 677 |
| $30-39$ | 4.3 | 1,377 |
| $40-49$ | 3.1 | 1,259 |
| Residence |  |  |
| $\quad$ Urban | 6.8 | 1,350 |
| Rural | 2.7 | 3,387 |
| Total | 3.9 | 4,737 |

Table 13.12 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, Myanmar DHS 2015-16

| 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 | Badsmelling/ abnormal genital discharge | Genital sore or ulcer | STI/ genital discharge/ sore or ulcer | Number of women who ever had sexual intercourse | STI | Badsmelling/ abnormal discharge from penis | Genital sore or ulcer | STI/ abnormal discharge from penis/ sore or ulcer | Number of men who ever had sexual intercourse |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-24 | 0.0 | 7.8 | 1.7 | 8.9 | 1,146 | 0.0 | 6.4 | 1.5 | 7.3 | 358 |
| 15-19 | 0.0 | 7.5 | 1.0 | 8.5 | 245 | 0.0 | 5.8 | 3.0 | 8.8 | 55 |
| 20-24 | 0.0 | 7.9 | 1.9 | 9.0 | 901 | 0.0 | 6.5 | 1.2 | 7.0 | 303 |
| 25-29 | 0.1 | 7.7 | 0.5 | 7.9 | 1,359 | 0.0 | 5.8 | 0.8 | 6.0 | 508 |
| 30-39 | 0.2 | 7.5 | 1.2 | 8.2 | 3,233 | 0.4 | 5.5 | 1.8 | 6.8 | 1,219 |
| 40-49 | 0.1 | 7.0 | 0.8 | 7.5 | 2,878 | 0.5 | 5.8 | 1.4 | 6.5 | 1,181 |
| Marital status |  |  |  |  |  |  |  |  |  |  |
| Never married | * | * | * | * | 11 | 1.2 | 15.9 | 5.1 | 20.2 | 178 |
| Married | 0.1 | 7.3 | 0.9 | 7.9 | 7,757 | 0.3 | 5.3 | 1.3 | 6.0 | 2,955 |
| Divorced/separated/ widowed | 0.1 | 8.1 | 1.7 | 8.5 | 848 | 0.3 | 2.9 | 0.9 | 3.2 | 134 |
| Male circumcision |  |  |  |  |  |  |  |  |  |  |
| Circumcised | na | na | na | na | na | 1.9 | 10.4 | 2.4 | 11.1 | 123 |
| Not circumcised | na | na | na | na | na | 0.3 | 5.6 | 1.4 | 6.5 | 3,134 |
| Don't know | na | na | na | na | na | * | * | * | * | 8 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 0.2 | 9.0 | 1.1 | 9.6 | 2,290 | 0.7 | 7.1 | 1.7 | 8.2 | 888 |
| Rural | 0.1 | 6.8 | 0.9 | 7.4 | 6,326 | 0.2 | 5.3 | 1.4 | 6.0 | 2,378 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |
| Kachin | 0.8 | 8.4 | 0.9 | 9.0 | 269 | 0.4 | 6.4 | 2.6 | 7.8 | 112 |
| Kayah | 0.2 | 17.5 | 1.7 | 18.7 | 44 | 0.0 | 1.2 | 0.0 | 1.2 | 15 |
| Kayin | 0.0 | 2.0 | 0.8 | 2.7 | 224 | 0.0 | 2.4 | 0.8 | 2.8 | 75 |
| Chin | 0.6 | 19.9 | 4.0 | 20.6 | 74 | 0.0 | 10.9 | 5.3 | 15.2 | 28 |
| Sagaing | 0.0 | 4.7 | 0.9 | 5.2 | 917 | 0.0 | 2.5 | 2.6 | 4.0 | 341 |
| Tanintharyi | 0.0 | 1.3 | 0.4 | 1.3 | 191 | 0.0 | 7.9 | 2.0 | 9.3 | 64 |
| Bago | 0.1 | 6.1 | 0.9 | 6.4 | 846 | 0.4 | 2.5 | 0.7 | 3.1 | 338 |
| Magway | 0.1 | 6.3 | 1.2 | 7.0 | 705 | 0.0 | 11.9 | 0.5 | 11.9 | 230 |
| Mandalay | 0.1 | 5.2 | 0.6 | 5.6 | 936 | 0.0 | 7.1 | 1.7 | 7.5 | 405 |
| Mon | 0.4 | 8.0 | 1.4 | 9.2 | 300 | 0.0 | 12.7 | 1.6 | 13.8 | 96 |
| Rakhine | 0.0 | 11.2 | 2.6 | 12.3 | 537 | 0.5 | 4.4 | 2.7 | 5.0 | 155 |
| Yangon | 0.0 | 6.9 | 0.5 | 7.2 | 1,160 | 1.1 | 3.7 | 0.0 | 3.7 | 458 |
| Shan | 0.2 | 9.4 | 1.2 | 10.4 | 1,006 | 0.5 | 5.5 | 1.8 | 6.8 | 411 |
| Ayeyarwady | 0.4 | 10.7 | 0.9 | 11.3 | 1,190 | 0.0 | 8.1 | 1.6 | 9.1 | 445 |
| Nay Pyi Taw | 0.0 | 4.8 | 0.8 | 5.5 | 216 | 0.3 | 4.8 | 2.6 | 6.9 | 92 |
| Education ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| No education | 0.0 | 5.9 | 0.6 | 6.1 | 1,368 | 0.0 | 3.5 | 0.9 | 4.5 | 461 |
| Primary | 0.1 | 6.9 | 0.9 | 7.4 | 4,059 | 0.2 | 6.5 | 1.1 | 7.0 | 1,343 |
| Secondary | 0.3 | 8.5 | 1.6 | 9.4 | 2,521 | 0.6 | 6.0 | 2.1 | 7.0 | 1,251 |
| More than secondary | 0.2 | 9.5 | 0.3 | 10.0 | 665 | 0.0 | 4.8 | 1.6 | 6.5 | 210 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 0.1 | 7.9 | 1.4 | 8.5 | 1,808 | 0.0 | 6.2 | 0.8 | 6.4 | 666 |
| Second | 0.1 | 6.9 | 1.1 | 7.5 | 1,758 | 0.3 | 5.6 | 1.6 | 7.0 | 661 |
| Middle | 0.0 | 7.0 | 1.0 | 7.4 | 1,726 | 0.1 | 5.0 | 1.6 | 6.1 | 656 |
| Fourth | 0.3 | 6.5 | 0.5 | 6.9 | 1,675 | 0.5 | 5.7 | 1.4 | 5.9 | 651 |
| Highest | 0.2 | 8.8 | 1.0 | 9.6 | 1,650 | 0.6 | 6.4 | 2.0 | 7.8 | 632 |
| Total | 0.1 | 7.4 | 1.0 | 8.0 | 8,616 | 0.3 | 5.8 | 1.5 | 6.6 | 3,266 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
na $=$ Not applicable
${ }^{1}$ Total includes three women with missing information on education

| Table 13.13-Continued |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Women |  |  |  |  | Men |  |  |  |  |
| Background characteristic | 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 |
| Education ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| No education | 48.8 | 2.3 | 1,606 | 96.9 | 783 | 44.7 | 2.2 | 575 | 95.5 | 257 |
| Primary | 57.4 | 2.6 | 5,305 | 99.1 | 3,048 | 47.8 | 2.4 | 1,684 | 98.5 | 806 |
| Secondary | 54.7 | 2.2 | 4,646 | 99.3 | 2,542 | 47.5 | 1.9 | 2,139 | 98.7 | 1,016 |
| More than secondary | 55.3 | 2.2 | 1,325 | 99.9 | 734 | 46.4 | 1.8 | 339 | 99.3 | 157 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 52.1 | 2.4 | 2,274 | 97.9 | 1,184 | 44.5 | 2.3 | 890 | 98.6 | 396 |
| Second | 54.1 | 2.5 | 2,408 | 98.7 | 1,302 | 44.4 | 2.0 | 916 | 96.4 | 406 |
| Middle | 56.4 | 2.5 | 2,633 | 99.3 | 1,485 | 48.6 | 2.1 | 979 | 97.8 | 476 |
| Fourth | 55.7 | 2.3 | 2,702 | 99.4 | 1,506 | 48.7 | 2.0 | 986 | 99.3 | 480 |
| Highest | 56.9 | 2.5 | 2,868 | 99.5 | 1,630 | 49.4 | 2.1 | 966 | 99.1 | 477 |
| Total | 55.2 | 2.4 | 12,885 | 99.0 | 7,108 | 47.2 | 2.1 | 4,737 | 98.3 | 2,236 |
| Note: Medical injections are those given by a doctor, nurse, pharmacist, dentist, or any other health worker. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and been suppressed. <br> ${ }^{1}$ Total includes two men with missing information on marital status. <br> ${ }^{2}$ Total includes three women with missing information on education. |  |  |  |  |  |  |  |  |  |  |

Table 13.14 Comprehensive knowledge about AIDS and a source of condoms among young people
Percentage of young women and young men age 15-24 with comprehensive knowledge about AIDS and percentage with knowledge about a source of condoms, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage with comprehensive knowledge of AIDS ${ }^{1}$ | Percentage who know a condom source ${ }^{2}$ | Number of respondents | Percentage with comprehensive knowledge of AIDS ${ }^{1}$ | Percentage who know a condom source ${ }^{2}$ | Number of respondents |
| Age |  |  |  |  |  |  |
| 15-19 | 13.4 | 16.7 | 1,810 | 14.3 | 31.6 | 731 |
| 15-17 | 12.2 | 14.6 | 1,096 | 11.0 | 27.0 | 452 |
| 18-19 | 15.2 | 19.9 | 714 | 19.7 | 39.1 | 279 |
| 20-24 | 18.9 | 28.5 | 1,867 | 21.5 | 53.5 | 692 |
| 20-22 | 16.1 | 24.0 | 1,133 | 19.4 | 56.2 | 426 |
| 23-24 | 23.2 | 35.5 | 734 | 25.0 | 49.1 | 266 |
| Marital status |  |  |  |  |  |  |
| Never married | 18.1 | 20.8 | 2,533 | 17.8 | 40.0 | 1,143 |
| Ever had sex | * | * | 3 | 34.4 | 77.4 | 78 |
| Never had sex | 18.1 | 20.8 | 2,530 | 16.6 | 37.2 | 1,065 |
| Ever married | 12.0 | 26.9 | 1,144 | 18.1 | 51.6 | 280 |
| Residence |  |  |  |  |  |  |
| Urban | 27.6 | 30.8 | 1,121 | 29.6 | 65.8 | 442 |
| Rural | 11.2 | 19.2 | 2,556 | 12.5 | 31.6 | 981 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 19.2 | 32.9 | 112 | 23.9 | 52.1 | 49 |
| Kayah | 25.1 | 47.6 | 19 | 15.5 | 36.4 | 7 |
| Kayin | 15.3 | 18.9 | 83 | 2.6 | 35.3 | 30 |
| Chin | 7.0 | 22.2 | 33 | 9.7 | 34.2 | 13 |
| Sagaing | 15.3 | 44.8 | 361 | 15.9 | 31.4 | 170 |
| Tanintharyi | 20.4 | 20.7 | 82 | 17.1 | 46.0 | 33 |
| Bago | 17.1 | 16.0 | 372 | 19.9 | 53.2 | 122 |
| Magway | 10.6 | 26.2 | 272 | 17.7 | 45.6 | 79 |
| Mandalay | 11.0 | 25.8 | 392 | 14.5 | 42.5 | 173 |
| Mon | 22.3 | 32.1 | 132 | 21.9 | 33.8 | 69 |
| Rakhine | 7.4 | 12.7 | 278 | 20.7 | 38.6 | 82 |
| Yangon | 28.1 | 18.1 | 582 | 35.7 | 64.0 | 226 |
| Shan | 8.4 | 12.9 | 449 | 5.7 | 27.9 | 155 |
| Ayeyarwady | 18.8 | 23.9 | 424 | 8.5 | 33.8 | 177 |
| Nay Pyi Taw | 17.7 | 14.2 | 84 | 16.2 | 32.2 | 38 |
| Education ${ }^{3}$ |  |  |  |  |  |  |
| No education | 1.2 | 5.2 | 264 | 0.8 | 10.6 | 109 |
| Primary | 4.2 | 11.3 | 1,013 | 5.2 | 29.8 | 337 |
| Secondary | 19.3 | 24.7 | 2,084 | 22.0 | 47.3 | 894 |
| More than secondary | 47.0 | 60.7 | 314 | 46.8 | 80.3 | 83 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 4.6 | 12.5 | 662 | 5.7 | 25.0 | 247 |
| Second | 9.2 | 14.2 | 657 | 9.2 | 26.1 | 259 |
| Middle | 14.1 | 20.6 | 777 | 15.8 | 35.9 | 321 |
| Fourth | 21.1 | 28.4 | 796 | 23.0 | 52.4 | 305 |
| Highest | 28.8 | 34.6 | 785 | 32.6 | 67.7 | 291 |
| Total | 16.2 | 22.7 | 3,677 | 17.8 | 42.2 | 1,423 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ 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 HIV, knowing that a healthy-looking person can have HIV, and rejecting the two most common local misconceptions about AIDS transmission or prevention. The components of comprehensive knowledge are presented in Tables 13.2, 13.3.1, and 13.3.2.
${ }^{2}$ For this table, the following responses are not considered a source for condoms: friends, family members, and home.
${ }^{3}$ Total includes one woman with missing information on education.

Table 13.15 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, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Women age 15-24 |  | Women age 18-24 |  | Men age 15-24 |  | Men age 18-24 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who had sexual intercourse before age 15 | Number of respondents | Percentage who had sexual intercourse before age 18 | Number of respondents | Percentage who had sexual intercourse before age 15 | Number of respondents | Percentage who had sexual intercourse before age 18 | Number of respondents |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 0.9 | 1,810 | na | na | 0.5 | 731 | na | na |
| 15-17 | 0.7 | 1,096 | na | na | 0.9 | 452 | na | na |
| 18-19 | 1.2 | 714 | 15.3 | 714 | 0.0 | 279 | 6.0 | 279 |
| 20-24 | 1.3 | 1,867 | 14.0 | 1,867 | 0.0 | 692 | 5.6 | 692 |
| 20-22 | 1.4 | 1,133 | 14.1 | 1,133 | 0.0 | 426 | 4.3 | 426 |
| 23-24 | 1.2 | 734 | 13.8 | 734 | 0.1 | 266 | 7.8 | 266 |
| Marital status |  |  |  |  |  |  |  |  |
| Never married | 0.0 | 2,533 | 0.0 | 1,511 | 0.2 | 1,143 | 1.6 | 697 |
| Ever married | 3.5 | 1,144 | 34.6 | 1,070 | 0.4 | 280 | 16.1 | 274 |
| Knows condom source ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Yes | 0.2 | 834 | 11.4 | 675 | 0.4 | 601 | 4.0 | 479 |
| No | 1.4 | 2,843 | 15.4 | 1,906 | 0.2 | 822 | 7.4 | 492 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 0.5 | 1,121 | 10.1 | 772 | 0.5 | 442 | 4.6 | 311 |
| Rural | 1.4 | 2,556 | 16.2 | 1,809 | 0.2 | 981 | 6.2 | 660 |
| Education ${ }^{2}$ |  |  |  |  |  |  |  |  |
| No education | 4.8 | 264 | 37.6 | 201 | 0.0 | 109 | 14.0 | 79 |
| Primary | 2.0 | 1,013 | 22.0 | 767 | 1.0 | 337 | 7.7 | 246 |
| Secondary | 0.3 | 2,084 | 9.5 | 1,313 | 0.1 | 894 | 4.5 | 571 |
| More than secondary | 0.1 | 314 | 0.7 | 298 | 0.0 | 83 | 0.0 | 76 |
| Total | 1.1 | 3,677 | 14.4 | 2,581 | 0.3 | 1,423 | 5.7 | 971 |

na $=$ Not applicable
${ }^{1}$ For this table, the following responses are not considered a source for condoms: friends, family members, and home.
${ }^{2}$ Total includes one woman with missing information on education

Table 13.16 Recent HIV tests among young people
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, according to background characteristics, Myanmar DHS 2015-16

| 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 |
| Age |  |  |  |  |
| 15-19 | 2.4 | 223 | (8.3) | 49 |
| 15-17 | 3.1 | 63 | * | 10 |
| 18-19 | 2.1 | 160 | (10.6) | 39 |
| 20-24 | 9.9 | 823 | 5.6 | 271 |
| 20-22 | 8.7 | 454 | 6.4 | 134 |
| 23-24 | 11.3 | 369 | 4.9 | 137 |
| Marital status |  |  |  |  |
| Never married | * | 2 | 13.2 | 56 |
| Ever married | 8.3 | 1,045 | 4.6 | 265 |
| Knows condom source ${ }^{1}$ |  |  |  |  |
| Yes | 12.2 | 291 | 9.8 | 183 |
| No | 6.8 | 756 | 1.1 | 137 |
| Residence |  |  |  |  |
| Urban | 13.5 | 251 | 16.7 | 91 |
| Rural | 6.6 | 795 | 1.9 | 229 |
| Education ${ }^{2}$ |  |  |  |  |
| No education | 2.3 | 120 | * | 30 |
| Primary | 6.6 | 397 | 4.6 | 106 |
| Secondary | 10.1 | 486 | 7.3 | 171 |
| More than secondary | (20.6) | 42 | * | 14 |
| Total | 8.3 | 1,046 | 6.1 | 320 |

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
${ }^{1}$ For this table, the following responses are not considered a source for condoms: friends, family members, and home.
${ }^{2}$ Total includes one woman with missing information on education.

## ADULT AND MATERNAL MORTALITY

## Key Findings

- Adult mortality: For women and men who have reached age 15 , the probability of dying before age 50 is $7 \%$ and $16 \%$, respectively.
- Pregnancy-related mortality: The pregnancy-related mortality ratio was 227 maternal deaths per 100,000 live births for the 7 years period before the survey.
- Lifetime risk of maternal death: The lifetime risk of maternal death indicates that 1 in 200 women in Myanmar will die from either pregnancy or childbearing.

Adult and maternal mortality indicators can be used to assess the health status of a population, especially in developing countries such as Myanmar. Estimation of mortality rates requires complete and accurate data on adult and maternal deaths. In the 2015-16 MDHS, data were collected on the survivorship of female respondents' siblings to obtain an estimate of adult mortality. The inclusion of questions to determine if deaths of female siblings were maternity-related permits estimation of maternal mortality, a key indicator of maternal health and well-being and of the quality of maternal care.

In keeping with the International Classification of Diseases (ICD-10) definition of maternal mortality, the 2015-16 MDHS results reflect pregnancy-related mortality, which accounts for deaths of women while pregnant, during delivery, or within 42 days of termination of pregnancy, irrespective of the cause of death (WHO 2011). In line with this, the maternal mortality module used in the DHS surveys measures only the timing of deaths and not the cause. Moreover, the data collected in the 2015-16 MDHS questionnaire are based on information about deaths during the 2 months following a birth rather than the recommended 42 days following a birth.

This chapter includes results estimated from sibling history data collected in the sibling survival module (commonly referred to as the maternal mortality module) that is part of the Woman's Questionnaire. In addition to adult mortality rates for 5 -year age groups, the chapter includes a summary measure ( ${ }_{35} \mathrm{q}_{15}$ ) that represents the probability of a person dying between exact ages 15 and 50-that is, between his or her 15th and 50th birthdays.

### 14.1 Data

To obtain a sibling history, each respondent was first asked to give the total number of her mother's live births. The respondent was then asked to provide a list of all of the children born to her mother, starting with the first born. The respondent was further asked whether each of these siblings was still alive at the survey date. For living siblings, the current age was recorded. For deceased siblings, age at death and number of years since death were recorded. Interviewers were instructed that, when a respondent could not provide precise information on age at death or years since death, approximate but quantitative answers were acceptable. For sisters who died at age 12 or above, three questions were used to determine whether the death was maternity-related: "Was [NAME OF SISTER] pregnant when she died?" and, if not, "Did she die during childbirth?" and, if not, "Did she die within 2 months after the end of a pregnancy or childbirth?" Estimation of adult and maternal mortality by either direct or indirect means requires
reasonably accurate reporting of the number of sisters and brothers the respondent ever had, the number who have died, and (for maternal mortality) the number of sisters who died of maternity-related causes.
Table 14.1 shows the number of siblings reported by respondents and the completeness of data on current age, age at death, and years since death.

Overall, the sibling history data collected in the 2015-16 MDHS are fairly complete. There are very few siblings for whom survival status was not reported ( $0.1 \%$ ), and among surviving siblings current age (used to estimate exposure to death) was reported for all. In the case of deceased siblings, both age at death and years since death (or year of death) were reported for all but seven deaths among the total of 9,853 reported unweighted deaths. Rather than excluding siblings with missing data from further analysis, information on the birth order of siblings in conjunction with other information was used to impute the missing data. ${ }^{1}$ The sex ratio for enumerated siblings (the ratio of brothers to sisters multiplied by 100) is 103 (Appendix Table C.9).

### 14.2 Direct Estimates of Adult Mortality

## Adult mortality rate

The number of adult deaths per 1,000 population age 15-49. Adult mortality rates by 5 -year age groups are calculated as follows: the number of deaths to a respondent's siblings in each age group is divided by the number of personyears of exposure to the risk of dying in that age group during a specified period prior to the survey. The number of deaths is the number of siblings (brothers or sisters) reported as having died within the specified period. The person-years of exposure in each age group are calculated for both surviving and dead siblings based on their current age (living siblings) or age at death and years since death (dead siblings).
Sample: Siblings (both living and dead) who were age 15-49 in the specified 7 -year period preceding the survey by sex and 5-year age groups

One way to assess the quality of the data used to estimate pregnancy-related mortality is to evaluate the plausibility and stability of overall adult mortality. It is reasoned that if estimated rates of overall adult mortality are implausible, rates based on a subset of deaths (pregnancy-related deaths in particular) are unlikely to be free of serious problems.

The reported ages at death and years since death of the respondents' brothers and sisters are used to make direct estimates of adult mortality. Because of the differentials in exposure to the risk of dying, age- and sex-specific death rates are presented in this report. To ensure a sufficiently large number of adult deaths to generate a robust estimate, the rates are calculated for the 7 -year period before the survey (roughly mid2009 to mid-2016). Nevertheless, age-specific mortality rates obtained in this manner are subject to considerable sampling variation. Use of this 7-year period was a compromise between the desire for the most recent data and the need to minimize sampling error.

[^23]Table 14.2 and Figure 14.1 show direct estimates of age-specific mortality rates for women and men age $15-49$ for the 7 -year period before the survey. Overall, the level of adult mortality is more than twice as high among men ( 5.0 deaths per 1,000 population) than among women ( 2.1 deaths per 1,000 population). Mortality rates generally increase with age, but they increase more sharply for men than for women. Mortality rates are much higher for men than for women in all age groups other than the 20-24 age group, in which the mortality rates for men and women are similar ( 1.5 per 1,000 and 1.6 per 1,000, respectively).

Figure 14.1 Adult mortality rates by age
Deaths per 1,000 population


The probability of dying between exact ages 15 and $50\left({ }_{35} \mathrm{q}_{15}\right)$ is also much higher at 163 , for men than for women at 72 (Table 14.3). Here, ${ }_{35} \mathrm{q}_{15}$ is the probability of a 15 -year-old man or woman dying before age 50, if they experience the age specific deaths rates in Table 14.2.

### 14.3 Direct Estimates of Pregnancy-related Mortality

## Pregnancy-related mortality rate

The number of pregnancy-related deaths per 1,000 women age 15-49. Pregnancy-related mortality rates by 5 -year age groups are calculated by dividing the number of pregnancy-related deaths to female siblings of respondents in each age group by the total person-years of exposure of the sisters to the risk of dying in that age group during the 7 years prior to the survey. The number of deaths is the number of sisters reported as having died during pregnancy or delivery or in the 2 months following delivery in the specified period by their age group at the time of death. The person-years of exposure in each age group are calculated for both surviving and dead sisters based on their reported current age (living sisters) or age at death and years since death (dead sisters).
Sample: Sisters (both living and dead) age 15-49 in the specified period, by 5 -year age groups

## Pregnancy-related mortality ratio

The number of pregnancy-related deaths per 100,000 live births. The pregnancy-related mortality ratio is calculated by dividing the age-standardized pregnancy-related mortality rate for women age 15-49 for the specified period by the general fertility rate (GFR) for the same time period.

Pregnancy-related deaths are a subset of all female deaths; they are defined as any deaths that occur during pregnancy or childbirth or within 2 months after the birth or termination of a pregnancy. Estimates of pregnancy-related mortality are therefore based solely on the timing of the death in relationship to the pregnancy. Two methods are generally used to estimate pregnancy-related mortality in developing countries: the indirect sisterhood method (Graham et al. 1989) and a direct variant of the sisterhood method (Rutenberg and Sullivan 1991; Stanton et al. 1997). Age-specific estimates of pregnancy-related mortality from reported survivorship of sisters are shown in Table $\mathbf{1 4 . 4}$ for the 7-year period before the survey.

Table 14.4 shows that the pregnancy-related mortality rate among women age $15-49$ is 0.16 deaths per 1,000 woman-years of exposure. By 5 -year age groups, the pregnancy-related mortality rate is highest among women in the $30-34$ age group ( 0.33 ), followed by those in the $40-44$ age group ( 0.26 ). The overall percentage of female deaths due to pregnancy-related causes is $8 \%$; this percentage varies by age and
ranges from $0 \%$ among women age $45-49$ to $14 \%$ among women age $30-34$. However, this age-specific pattern should be interpreted with caution because of the very small number of events: only 22 maternal deaths among women of all reproductive ages.

The estimated pregnancy-related mortality ratio (PRM) is 227 deaths per 100,000 live births during the 7 year period before the survey (with a $95 \%$ confidence interval of 131 to 323 ). In other words, for every 1,000 live births in Myanmar during the 7 years before the 2015-16 MDHS, approximately two women died during pregnancy, during childbirth, or within 2 months after childbirth. The lifetime risk of pregnancy-related death $(0.005)$ indicates that of 1,000 women age 15 , about five would die before age 50 during pregnancy, during childbirth, or within 2 months of childbirth.

## List of Tables

For more information on adult and maternal mortality, see the following tables:

- Table 14.1 Completeness of information on siblings
- Table 14.2 Adult mortality rates
- Table 14.3 Adult mortality probabilities
- Table 14.4 Pregnancy-related mortality rates

Table 14.1 Completeness of information on siblings
Completeness of data on survival status of sisters and brothers reported by interviewed women, age of living siblings, and age at death (AD) and years since death (YSD) of dead siblings (unweighted), Myanmar DHS 2015-16

|  | Sisters |  |  | Brothers |  |  | All siblings |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | Number | Percent |  | Number | Percent |  | Number | Percent |
| All siblings | 28,868 | 100.0 |  | 29,731 | 100.0 |  | 58,599 | 100.0 |
| Living | 24,747 | 85.7 |  | 23,927 | 80.5 | 48,674 | 83.1 |  |
| Dead | 4,095 | 14.2 |  | 5,758 | 19.4 | 9,853 | 16.8 |  |
| Survival status unknown | 26 | 0.1 |  | 46 | 0.2 | 72 | 0.1 |  |
| Living siblings | 24,747 | 100.0 |  | 23,927 | 100.0 | 48,674 | 100.0 |  |
| Age reported | 24,747 | 100.0 |  | 23,927 | 100.0 | 48,674 | 100.0 |  |
| Dead siblings | 4,095 | 100.0 |  | 5,758 | 100.0 | 9,853 | 100.0 |  |
| AD and YSD reported | 4,092 | 99.9 |  | 5,754 | 99.9 | 9,846 | 99.9 |  |
| Missing only AD | $n c$ | 0.0 |  | 2 | 0.0 | 2 | 0.0 |  |
| Missing only YSD | nc | 0.0 |  | 1 | 0.0 | 1 | 0.0 |  |
| Missing AD and YSD | 3 | 0.1 |  | 1 | 0.0 | 4 | 0.0 |  |

Table 14.2 Adult mortality rates
Direct estimates of female and male mortality rates for the 7 years preceding the survey, by 5 -year age groups, Myanmar DHS 2015-16

| Age | Deaths | Exposure <br> years | Mortality <br> rates $^{1}$ |
| :--- | :---: | :---: | :---: |
| FEMALE |  |  |  |
| $15-19$ | 13 | 16,600 | 0.77 |
| $20-24$ | 36 | 21,850 | 1.64 |
| $25-29$ | 44 | 24,241 | 1.81 |
| $30-34$ | 55 | 24,064 | 2.30 |
| $35-39$ | 37 | 21,357 | 1.73 |
| $40-44$ | 58 | 15,948 | 3.65 |
| $45-49$ | 35 | 11,534 | 3.04 |
| $15-49$ | 278 | 135,595 | $2.11^{\text {a }}$ |
| MALE |  |  |  |
| $15-19$ | 21 | 17,063 | 1.24 |
| $20-24$ | 32 | 21,617 | 1.49 |
| $25-29$ | 73 | 23,812 | 3.07 |
| $30-34$ | 123 | 23,741 | 5.20 |
| $35-39$ | 146 | 20,676 | 7.06 |
| $40-44$ | 130 | 14,773 | 8.81 |
| $45-49$ | 88 | 10,224 | 8.66 |
| $15-49$ | 614 | 131,907 | $5.00^{\text {a }}$ |

${ }^{1}$ Expressed per 1,000 population
${ }^{1}$ Age-adjusted rate

## Table 14.3 Adult mortality probabilities

The probability of dying between ages 15 and 50 for women and men for the 7 years preceding the survey, Myanmar DHS 2015-16

| Survey | Female <br> $35 q_{15}{ }^{1}$ | Male <br> $35 q_{15}{ }^{1}$ |
| :--- | :---: | :---: |
| 2015-16 MDHS | 72 <br> (CI: 61-83) | (CI: 144-182) |

$\mathrm{Cl}=$ Confidence interval
1 The probability of dying between exact ages 15 and 50 , expressed per 1,000 persons at age 15

Table 14.4 Pregnancy-related mortality rates
Direct estimates of pregnancy-related mortality rates for the 7 years preceding the survey, by 5-year age groups, Myanmar DHS 2015-16

| Age | Percentage of female deaths that are pregnancyrelated | Number of pregnancyrelated deaths | Exposure years | $\begin{aligned} & \text { Pregnancy- } \\ & \text { related } \\ & \text { mortality rate }^{1} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| 15-19 | 2.6 | 0 | 16,600 | 0.02 |
| 20-24 | 7.7 | 3 | 21,850 | 0.13 |
| 25-29 | 8.2 | 4 | 24,241 | 0.15 |
| 30-34 | 14.2 | 8 | 24,064 | 0.33 |
| 35-39 | 10.4 | 4 | 21,357 | 0.18 |
| 40-44 | 7.0 | 4 | 15,948 | 0.26 |
| 45-49 | 0.0 | 0 | 11,534 | 0.00 |
| 15-49 | 8.1 | 22 | 135,595 | $0.16^{\text {a }}$ |
| General fertility rate (GFR) ${ }^{2}$ a ${ }^{\text {a }}$ |  |  |  |  |
| $\begin{array}{lrrl}\text { Pregnancy-related mortality ratio (PRM) } & \\ \text { Lifetime risk of maternal death }\end{array}$ |  |  |  |  |
|  |  |  |  |  |
| $\mathrm{CI}=$ Confidence interval |  |  |  |  |
| ${ }^{1}$ Expressed per 1,000 woman-years of exposure |  |  |  |  |
| ${ }^{2}$ Expressed per 1,000 women age 15-49 |  |  |  |  |
| ${ }^{3}$ Expressed per 100,000 live births; calculated as the age-adjusted pregnancyrelated mortality rate times 100 divided by the age-adjusted general fertility rate |  |  |  |  |
| ${ }^{4}$ Calculated as 1-(1-PRM) ${ }^{\text {TFR }}$, where TFR represents the total fertility rate for the |  |  |  |  |
| 7 years preceding the survey |  |  |  |  |
| ${ }^{\text {a }}$ Age-adjusted rate |  |  |  |  |

## Key Findings

- Employment and control over earnings: Almost all currently married men and nearly three-fourths of currently married women were employed in the 12 months preceding the survey. About 9 out of 10 women and men who worked earned cash only for their work.
- Control over earnings: About half of currently married women (51\%) with cash earnings decide independently on how their earnings will be used, while $41 \%$ decide jointly with their husband.
- Ownership of assets: Fifty-four percent of women age 15-49 own a house and 48\% own land alone or jointly with someone else. Similarly, $56 \%$ of men own a house and $49 \%$ own land alone or jointly.
- Participation in decision making: About two-thirds of currently married women participate in three specified household decisions, while $5 \%$ do not have a say in any of these decisions.
- Attitude towards wife beating: Fifty-one percent of women and $49 \%$ of men believe that a husband is justified in beating his wife in at least one of five specified situations.
- Empowerment and health outcomes: Use of contraception and access to antenatal care, postnatal care, and delivery assistance from a health professional increase with increasing scores on women's empowerment indices.

Women's empowerment has many different dimensions that can each be measured by separate indicators. This chapter explores women's empowerment in terms of their employment and control over earnings, asset ownership, gender-related attitudes, and household decision making. In order to examine gender differentials, where possible, indicators for women are compared with those for men. In addition, women's responses to specific questions on their participation in household decision making and attitudes towards wife beating are used to examine how selected demographic and health indicators vary by women's empowerment.

### 15.1 Married Women’s and Men’s Employment

## Employment

Respondents are considered to be employed if they have done any work other than their housework in the 12 months before the survey.
Sample: Currently married women and men age 15-49

## Cash employment

Respondents are asked if they are paid for their labor in cash or in kind. Only those who receive payment in cash only or in cash and in kind are considered to earn cash for their employment.
Sample: Currently married women and men age 15-49 employed in the 12 months before the survey

Men are more likely to be employed than women in Myanmar. Almost all currently married men age 15-49 were employed in the 12 months preceding the survey, as compared with $71 \%$ of currently married women age 15-49 (Table 15.1). There is very little variation in employment by age among either women or men. Approximately 9 in 10 women and men are paid in cash only ( $87 \%$ and $88 \%$, respectively). Four percent each of women and men receive in-kind earnings only for their work, and $7 \%$ each receive cash and inkind payments. Three percent of women and $1 \%$ of men do not receive any payment for their work.

### 15.2 Control over Women's Earnings

## Control over one's own cash earnings

Respondents are considered to have control over their own earnings if they participate in decisions alone or jointly with their husband about how their own earnings will be used.
Sample: Currently married women age 15-49 who received cash earnings for employment during the 12 months before the survey

Women gain direct access to economic resources when they are employed for cash. However, this access is meaningless unless women also control how their earnings are used.

In Myanmar, more than half of currently married women age 15-49 who receive cash earnings decide by themselves on how their earnings are used, while $41 \%$ make such decisions jointly with their husbands. Only $6 \%$ reported that their husbands mainly decide on the use of their cash earnings. Most employed women earn less money than their husbands ( $59 \%$ ), $24 \%$ earn the same as their husbands, and $15 \%$ earn more than their husbands
(Table 15.2.1, Figure 15.1).

## Patterns by background characteristics

- Urban women are more likely to be the main decision maker regarding the use of their earnings than rural women ( $56 \%$ versus $50 \%$ ). Also, urban women are less likely than rural women to earn less than their husbands (53\% versus 61\%).
- Across the 15 different states and regions, the proportion of women who make independent decisions on using their cash earnings ranges from a low of $28 \%$ in Kayah State to a high of $80 \%$ in Mon State.
- Women with more than a secondary education are more likely to make independent decisions on the use of their earnings than women with less education or no education ( $59 \%$ versus $50-51 \%$ ). Also, they are much less likely than those at other educational levels to earn less than their husbands ( $44 \%$ versus 56-62\%).
- Although women's control over their earnings does not vary consistently by household wealth, the likelihood of women earning less than their husband declines sharply with increasing wealth.


### 15.3 Control over Men’s Earnings

Married men age 15-49 were asked about the primary decision maker regarding the use of their cash earnings. About half of men jointly decide with their wives and $26 \%$ say that their wives mainly decide how to spend their earnings. When women were similarly asked about decisions regarding the use of their husband's earnings, $53 \%$ said that the decision was made jointly and $34 \%$ said that they primarily made the decision. Notably, women were much less likely than men ( $10 \%$ versus $23 \%$ ) to say that the husband mainly decides about the use of his earnings (Table 15.2.2).

Women's role in decision making regarding the use of their own and their husbands' earnings varies by their earnings relative to those of their husbands. Two-thirds or more of women who earn more than their husbands ( $67 \%$ ) and whose husbands do not have cash earnings ( $69 \%$ ) are the main decision makers about the use of their own earnings, as compared with half or less of women who earn the same as (41\%) or less than $(51 \%)$ their husbands. Similarly, women who earn more than their husbands are more likely than other women to be the main decision makers regarding the use of their husbands' earnings ( $44 \%$ versus 29$35 \%$ ) (Table 15.3).

### 15.4 Women's and Men's Ownership of Assets

## Ownership of a house or land

Respondents who own a house or land, whether alone or jointly with someone else.
Sample: Women and men age 15-49

In Myanmar, there are no differences between women and men with respect to ownership of a house or land. More than half of women (54\%) and men (56\%) age 15-49 own a house alone or jointly with someone else, and almost half of women ( $48 \%$ ) and men ( $49 \%$ ) own land alone or jointly. However, men are more likely than women to own both a house and land alone
(Table 15.4.1, Table 15.4.2, and Figure 15.2).

Figure 15.2 Ownership of house and land
Percent distribution of women and men age 15-49 by ownership of house and land


## Patterns by background characteristics

- Women living in rural areas are more likely to own a house and land alone or jointly than those living in urban areas. Three in five rural women own a house, as compared with two in five urban women. Fifty-three percent of rural women own land, compared with $37 \%$ of urban women (Table 15.4.1). Similar differentials by rural-urban residence are observed for men (Table 15.4.2).
- Among women, sole or joint ownership of a house varies from a low of $33 \%$ in Kachin State to a high of $87 \%$ in Mandalay Region, and sole or joint ownership of land varies from $28 \%$ in Kachin State to $83 \%$ in Mandalay Region. Among men, ownership of both a house and land is also highest in Mandalay Region.
- Ownership of a house and land declines sharply with increasing education among both women and men.


### 15.5 Women's Participation in Decision Making

## Participation in household decisions

Women are considered to participate in household decisions if they make decisions alone or jointly with their husband in the following areas: (1) the woman's health care, (2) major household purchases, (3) visits to the woman's family or relatives, and (4) the well-being of their children.
Sample: Currently married women age 15-49

Participation in household decision making is an important aspect of women's ability to have control over their own lives. Eighty-eight percent of currently married women participate in decisions about visits to their family or relatives, including $37 \%$ who make these decisions mainly alone; $83 \%$ participate in decisions regarding their own health care, including $40 \%$ who make these decisions mainly alone; and $74 \%$ participate in decisions about major household purchases, including $19 \%$ who make these decisions mainly alone (Table 15.5). Overall, $65 \%$ of currently married women participate in the three specified decisions (women's own health care, making major household purchases, and visits to their family or relatives) alone or jointly with their husband (Table 15.6.1, Figure 15.3). Only $5 \%$ of women say that they do not participate in any of these decisions.

Currently married women are also most likely to participate in decisions about the well-being of their children: $91 \%$ of women participate in these decisions, with $57 \%$ making them mainly alone and $34 \%$ making them jointly with their husband (Table 15.6.1).

Currently married men were also asked about their participation in selected household decisions. Only $59 \%$ of men participate in decisions about the well-being of their children, and $72 \%$ participate in decisions about their own health care. With respect to the decisions that both women and men were asked about, the only one in which a higher proportion of men than women reported participating was the decision on major household purchases: $85 \%$ of men participated alone or jointly in this decision, as compared with $74 \%$ of women (Table 15.6.2).

## Patterns by background characteristics

- Currently married women who are employed for cash (67\%) and those who are not employed (62\%) are more likely to participate in the three selected decisions than women who are employed but do not earn cash (53\%).
- By state/region, currently married women in Rakhine State are least likely to participate in the three selected decisions (48\%), while women in Tanintharyi Region (80\%) and Kayin State (79\%) are most likely to do so.
- There are minimal differences in women's participation in decision making by education or wealth.


### 15.6 Attitudes toward Wife Beating

## Attitudes toward wife beating

Respondents are asked if they agree that a husband is justified in hitting or beating his wife under each of the following five circumstances: she burns the food, she argues with him, she goes out without telling him, she neglects the children, and she refuses to have sex with him. If respondents answer "yes" in at least one circumstance, they are considered to have attitudes justifying wife beating
Sample: Women and men age 15-49

Another measure of women's empowerment derives from the idea that gender equity is essential for empowerment. Attitudes in which the beating of wives by husbands is seen as justified are indicative of women's lower status and can disempower women in their household and intimate relationships. In Myanmar, $42 \%$ of women agree that wife beating is justified if a wife neglects the children, and $22 \%$ agree that it is justified if the wife goes out without telling her husband. Smaller proportions of women agree that wife beating is justified if the wife burns the food ( $13 \%$ ), refuses to have sexual intercourse with her husband (10\%), or argues with her husband ( $10 \%$ ). Overall, $51 \%$ of women agree that wife beating is justified for at least one of the five reasons (Table 15.7.1). Among men, the pattern of agreement with these five specified reasons for wife beating is similar to that observed for women (Table 15.7.2). Men are also most likely to agree that wife beating is justified if the wife neglects the children (40\%) or goes out without telling her husband (17\%) (Figure 15.4).

In Myanmar, women and men were also asked if wife beating is justified if the wife refuses to use contraception and if she becomes involved in too much social activity. Ten percent each of women and men believe that a husband is justified in hitting or beating his wife if she refuses to use contraception. Fifteen percent of women and $21 \%$ of men believe that a husband is justified in hitting or beating his wife if she becomes involved in too much social activity.

## Patterns by background characteristics

- Wife beating is more acceptable among rural women than urban women: $54 \%$ of women from rural areas agree that wife beating is justified in at least one of the five specified circumstances, as compared with $44 \%$ of women in urban areas (Table 15.7.1). There are, however, no urban-rural differentials in men's acceptance of wife beating (Table 15.7.2).
- Agreement with wife beating varies greatly by state and region, ranging from 33\% in Tanintharyi Region to $70 \%$ in Mandalay Region among women and from $14 \%$ in Kayah State to $69 \%$ in Rakhine State among men.
- Women with more than a secondary education (33\%) are much less likely to agree with wife beating than women with less education (52-55\%). Among men, acceptance of wife beating does not vary consistently with education but is lowest among men with more than a secondary education (35\%).
- There are no clear patterns in acceptance of wife beating by wealth among either women or men; however, among women, those in the highest wealth quintile are less likely to agree with wife beating than those in the other wealth quintiles.


### 15.7 Women's Empowerment and Demographic and Health Outcomes

The two sets of empowerment indicators, namely women's participation in household decisions and women's attitudes toward wife beating, can be summarized in two separate indices. The first index shows the number of decisions (see Table 15.6.1 for the list of decisions) in which women participate alone or jointly with their husbands. This index ranges in value from 0 to 3 and is positively related to women's empowerment. The second indicator, which ranges in value from 0 to 5 , is the total number of reasons (see Table 15.7.1 for the list of reasons) for which the woman feels that a husband is justified in beating his wife. A lower score on this indicator is interpreted as reflecting a greater sense of entitlement and selfesteem and higher status for women. The data show that there is the expected positive relationship between the two empowerment indicators: the percentage of women who disagree with all of the five specified reasons given for wife beating increases from $44 \%$ among those who do not participate in any of the three specified decisions to $54 \%$ among those who participate in all three decisions, and the percentage of women who participate in all three of the specified decisions declines sharply with the number of reasons justifying wife beating, from $71 \%$ among women who do not agree with any reason to $48 \%$ among women who agree with all five reasons (Table 15.8).

A woman's ability to control her fertility and use a method of contraception is likely to be affected by her sense of empowerment and her own belief in her ability to control her sexual life and fertility. In Myanmar, women's use of contraception is related to the two empowerment indicators. For example, $53 \%$ of women who participate in the three specified decisions use contraceptives, as compared with $45 \%$ of women who do not participate in any of the three decisions. Similarly, contraceptive use among women who do not agree with any reason for wife beating, at $52 \%$, is much higher than contraceptive use among women who agree with all five reasons for wife beating, at $38 \%$ (Table 15.9). Unmet need for contraception declines slightly with increases in the number of decisions in which women participate (Table 15.10).

Women's use of maternal care also varies in the expected direction with both indicators of women's empowerment. For example, $48 \%$ of women who participate in no decisions received delivery care for their most recent birth in the last 5 years, as compared with $66 \%$ of women who participate in all three decisions. Similarly, $65 \%$ of women who disagree with all five reasons for wife beating received delivery care for their most recent birth, compared with $51 \%$ of women who agree with all five reasons (Table 15.11).

Child mortality is another demographic indicator that varies by women's empowerment. For example, under- 5 mortality declines from 77 per 1,000 live births in the 5 years preceding the survey among women who participate in 1-2 of the three decisions to 68 among women who participate in all three decisions. However, under-5 mortality declines from 79 per 1,000 live births among women who disagree with all five reasons for wife beating to 65 among women who agree with one or more reasons (Table 15.12).

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Table 15.1 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, Myanmar DHS 2015-16

| Age | Among currently married respondents: |  | Percent distribution of currently married respondents employed in the past 12 months, by type of earnings |  |  |  | Total | Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage employed in past 12 months | Number | Cash only | Cash and in-kind | In-kind only | Not paid |  |  |
| WOMEN |  |  |  |  |  |  |  |  |
| 15-19 | 69.1 | 227 | 84.1 | 3.6 | 2.7 | 9.7 | 100.0 | 157 |
| 20-24 | 64.9 | 834 | 84.6 | 4.8 | 2.9 | 7.8 | 100.0 | 541 |
| 25-29 | 67.5 | 1,258 | 87.2 | 5.0 | 3.8 | 4.0 | 100.0 | 849 |
| 30-34 | 71.5 | 1,505 | 86.7 | 8.0 | 2.6 | 2.7 | 100.0 | 1,077 |
| 35-39 | 73.5 | 1,482 | 89.0 | 5.3 | 4.1 | 1.6 | 100.0 | 1,090 |
| 40-44 | 72.2 | 1,283 | 86.4 | 8.1 | 3.9 | 1.6 | 100.0 | 926 |
| 45-49 | 72.6 | 1,169 | 85.6 | 7.8 | 5.6 | 1.0 | 100.0 | 849 |
| Total | 70.7 | 7,759 | 86.7 | 6.6 | 3.8 | 2.9 | 100.0 | 5,489 |
| MEN |  |  |  |  |  |  |  |  |
| 15-19 | (99.5) | 36 | (90.2) | (5.0) | (0.0) | (4.8) | 100.0 | 36 |
| 20-24 | 99.3 | 228 | 86.7 | 6.2 | 6.0 | 1.1 | 100.0 | 226 |
| 25-29 | 99.7 | 447 | 88.4 | 5.9 | 3.8 | 1.9 | 100.0 | 446 |
| 30-34 | 99.3 | 549 | 88.8 | 5.4 | 4.7 | 1.1 | 100.0 | 545 |
| 35-39 | 99.0 | 587 | 88.8 | 8.1 | 2.3 | 0.8 | 100.0 | 581 |
| 40-44 | 99.0 | 593 | 87.1 | 7.3 | 4.8 | 0.8 | 100.0 | 587 |
| 45-49 | 99.1 | 516 | 85.3 | 8.2 | 4.6 | 1.9 | 100.0 | 511 |
| Total | 99.2 | 2,957 | 87.7 | 6.9 | 4.1 | 1.3 | 100.0 | 2,933 |

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

Table 15.2.1 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, Myanmar DHS 2015-16

| Background characteristic | Person who decides how the wife's cash earnings are used: |  |  |  |  | Total | Wife's cash earnings compared with husband's cash earnings: |  |  |  |  | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mainly wife | Wife and husband jointly | Mainly husband | Other | Missing |  | More | Less | About the same | Husband has no earnings | Don't know/ missing |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 41.7 | 35.7 | 5.6 | 16.0 | 1.1 | 100.0 | 19.0 | 63.1 | 11.3 | 0.9 | 5.7 | 100.0 | 138 |
| 20-24 | 51.9 | 34.5 | 5.0 | 8.3 | 0.2 | 100.0 | 14.0 | 66.1 | 18.5 | 0.4 | 1.1 | 100.0 | 484 |
| 25-29 | 51.1 | 41.2 | 4.2 | 3.3 | 0.2 | 100.0 | 13.0 | 64.3 | 21.4 | 0.9 | 0.5 | 100.0 | 783 |
| 30-34 | 49.9 | 40.8 | 6.7 | 2.6 | 0.0 | 100.0 | 16.3 | 62.3 | 20.4 | 0.8 | 0.2 | 100.0 | 1,020 |
| 35-39 | 51.7 | 43.0 | 4.3 | 1.0 | 0.0 | 100.0 | 16.3 | 56.8 | 26.0 | 0.8 | 0.2 | 100.0 | 1,028 |
| 40-44 | 52.8 | 39.2 | 7.6 | 0.2 | 0.1 | 100.0 | 16.6 | 53.2 | 28.1 | 1.5 | 0.6 | 100.0 | 874 |
| 45-49 | 52.0 | 41.8 | 5.6 | 0.4 | 0.2 | 100.0 | 13.6 | 51.5 | 31.2 | 2.8 | 0.8 | 100.0 | 793 |
| Number of living children |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 48.1 | 38.7 | 3.8 | 9.0 | 0.4 | 100.0 | 16.9 | 58.5 | 22.6 | 1.0 | 1.0 | 100.0 | 626 |
| 1-2 | 50.9 | 41.5 | 5.1 | 2.4 | 0.1 | 100.0 | 14.7 | 59.8 | 24.0 | 0.7 | 0.8 | 100.0 | 2,692 |
| 3-4 | 51.7 | 40.9 | 6.8 | 0.6 | 0.0 | 100.0 | 15.0 | 58.0 | 24.9 | 1.9 | 0.2 | 100.0 | 1,385 |
| 5+ | 56.9 | 35.1 | 8.0 | 0.0 | 0.0 | 100.0 | 17.5 | 53.7 | 26.3 | 2.3 | 0.2 | 100.0 | 417 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 56.2 | 37.4 | 4.6 | 1.7 | 0.1 | 100.0 | 16.9 | 52.5 | 28.1 | 1.5 | 1.0 | 100.0 | 1,230 |
| Rural | 49.7 | 41.4 | 6.0 | 2.8 | 0.1 | 100.0 | 14.7 | 60.6 | 23.0 | 1.1 | 0.5 | 100.0 | 3,890 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kachin | 48.0 | 38.0 | 11.4 | 2.6 | 0.0 | 100.0 | 15.9 | 48.4 | 34.5 | 0.3 | 0.9 | 100.0 | 135 |
| Kayah | 28.1 | 61.5 | 7.8 | 2.6 | 0.0 | 100.0 | 10.5 | 49.5 | 37.7 | 1.0 | 1.3 | 100.0 | 27 |
| Kayin | 73.4 | 22.5 | 2.2 | 1.9 | 0.0 | 100.0 | 15.0 | 44.5 | 36.5 | 3.2 | 1.0 | 100.0 | 81 |
| Chin | 30.6 | 51.5 | 11.0 | 6.9 | 0.0 | 100.0 | 23.9 | 53.3 | 20.2 | 2.7 | 0.0 | 100.0 | 22 |
| Sagaing | 53.2 | 41.7 | 2.1 | 3.0 | 0.0 | 100.0 | 8.1 | 66.6 | 21.8 | 3.4 | 0.0 | 100.0 | 562 |
| Tanintharyi | 51.1 | 40.5 | 7.7 | 0.7 | 0.0 | 100.0 | 18.7 | 60.5 | 19.8 | 0.6 | 0.3 | 100.0 | 119 |
| Bago | 56.8 | 35.9 | 5.0 | 1.8 | 0.5 | 100.0 | 10.9 | 68.1 | 18.5 | 1.8 | 0.7 | 100.0 | 530 |
| Magway | 56.5 | 33.5 | 7.1 | 2.2 | 0.8 | 100.0 | 7.9 | 63.3 | 26.5 | 1.2 | 1.1 | 100.0 | 499 |
| Mandalay | 48.4 | 41.9 | 4.6 | 5.1 | 0.0 | 100.0 | 26.3 | 52.8 | 19.8 | 0.6 | 0.5 | 100.0 | 684 |
| Mon | 80.3 | 12.1 | 2.8 | 4.8 | 0.0 | 100.0 | 13.6 | 60.2 | 25.8 | 0.4 | 0.0 | 100.0 | 149 |
| Rakhine | 55.5 | 37.1 | 5.5 | 2.0 | 0.0 | 100.0 | 17.4 | 59.4 | 22.1 | 0.7 | 0.4 | 100.0 | 220 |
| Yangon | 35.4 | 58.8 | 5.1 | 0.6 | 0.0 | 100.0 | 12.4 | 59.6 | 27.6 | 0.3 | 0.0 | 100.0 | 510 |
| Shan | 48.9 | 41.3 | 7.6 | 2.2 | 0.0 | 100.0 | 13.6 | 52.3 | 31.3 | 1.0 | 1.8 | 100.0 | 695 |
| Ayeyarwady | 50.0 | 40.9 | 6.9 | 2.2 | 0.0 | 100.0 | 21.8 | 57.5 | 19.5 | 0.9 | 0.4 | 100.0 | 760 |
| Nay Pyi Taw | 54.1 | 39.0 | 4.8 | 2.1 | 0.0 | 100.0 | 10.7 | 53.5 | 34.7 | 0.6 | 0.6 | 100.0 | 129 |
| Education ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 49.8 | 40.3 | 8.5 | 1.4 | 0.0 | 100.0 | 14.5 | 56.0 | 28.0 | 0.9 | 0.7 | 100.0 | 829 |
| Primary | 51.0 | 40.0 | 6.1 | 2.8 | 0.1 | 100.0 | 14.3 | 61.8 | 21.9 | 1.5 | 0.5 | 100.0 | 2,465 |
| Secondary | 50.2 | 42.1 | 4.3 | 3.0 | 0.4 | 100.0 | 15.6 | 59.3 | 23.4 | 1.2 | 0.6 | 100.0 | 1,394 |
| More than secondary | 58.5 | 38.0 | 2.0 | 1.5 | 0.0 | 100.0 | 21.7 | 44.0 | 33.1 | 0.4 | 0.9 | 100.0 | 428 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 55.6 | 35.2 | 7.0 | 2.2 | 0.0 | 100.0 | 17.0 | 65.2 | 16.7 | 0.6 | 0.5 | 100.0 | 1,047 |
| Second | 48.8 | 40.7 | 7.2 | 3.2 | 0.0 | 100.0 | 15.0 | 63.3 | 20.0 | 1.3 | 0.5 | 100.0 | 1,076 |
| Middle | 47.5 | 43.8 | 5.6 | 3.0 | 0.1 | 100.0 | 14.0 | 60.3 | 24.2 | 1.2 | 0.2 | 100.0 | 1,079 |
| Fourth | 50.3 | 42.8 | 4.3 | 2.3 | 0.4 | 100.0 | 13.9 | 53.6 | 29.9 | 1.6 | 1.0 | 100.0 | 972 |
| Highest | 54.3 | 39.8 | 3.9 | 1.9 | 0.1 | 100.0 | 16.5 | 49.4 | 31.6 | 1.4 | 1.1 | 100.0 | 946 |
| Total | 51.2 | 40.5 | 5.6 | 2.5 | 0.1 | 100.0 | 15.3 | 58.7 | 24.2 | 1.2 | 0.6 | 100.0 | 5,120 |

${ }^{1}$ Total includes three women with missing information on education.

Table 15.2.2 Control over men's cash earnings
Percent distributions of currently married men age 15-49 who receive cash earnings for employment and of currently married women age 1549 whose husbands receive cash earnings for employment, by person who decides how husband's cash earnings are used, according to background characteristics, Myanmar DHS 2015-16

|  | Men |  |  |  |  |  | Women |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Mainly wife | Husband and wife jointly | Mainly husband | Other | Total | Number | Mainly wife | Husband and wife jointly | Mainly husband | Other | Missing | Total | Number |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | (18.3) | (54.9) | (12.2) | (14.6) | 100.0 | 34 | 23.4 | 48.4 | 13.7 | 13.8 | 0.7 | 100.0 | 223 |
| 20-24 | 29.7 | 43.1 | 20.7 | 6.5 | 100.0 | 210 | 31.3 | 52.1 | 9.6 | 6.9 | 0.1 | 100.0 | 825 |
| 25-29 | 24.1 | 42.6 | 26.4 | 6.8 | 100.0 | 421 | 34.3 | 54.6 | 8.8 | 2.3 | 0.0 | 100.0 | 1,249 |
| 30-34 | 25.3 | 50.4 | 21.8 | 2.5 | 100.0 | 514 | 34.1 | 53.9 | 9.7 | 2.3 | 0.0 | 100.0 | 1,496 |
| 35-39 | 27.4 | 48.3 | 22.5 | 1.9 | 100.0 | 563 | 36.9 | 53.3 | 8.8 | 1.0 | 0.0 | 100.0 | 1,472 |
| 40-44 | 23.6 | 52.0 | 23.6 | 0.8 | 100.0 | 554 | 36.5 | 51.5 | 11.6 | 0.4 | 0.0 | 100.0 | 1,267 |
| 45-49 | 29.4 | 46.6 | 23.8 | 0.3 | 100.0 | 478 | 32.8 | 55.5 | 11.1 | 0.4 | 0.0 | 100.0 | 1,135 |
| Number of living children |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 29.0 | 44.9 | 17.8 | 8.3 | 100.0 | 360 | 27.8 | 55.5 | 8.8 | 7.7 | 0.3 | 100.0 | 903 |
| 1-2 | 25.3 | 49.2 | 22.7 | 2.9 | 100.0 | 1,515 | 34.0 | 54.9 | 8.8 | 2.3 | 0.0 | 100.0 | 4,034 |
| 3-4 | 25.1 | 48.5 | 25.9 | 0.5 | 100.0 | 720 | 36.7 | 51.4 | 11.3 | 0.6 | 0.0 | 100.0 | 2,064 |
| $5+$ | 32.4 | 41.3 | 26.2 | 0.1 | 100.0 | 180 | 37.2 | 47.3 | 15.2 | 0.2 | 0.0 | 100.0 | 665 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 28.2 | 43.6 | 25.6 | 2.6 | 100.0 | 748 | 34.8 | 54.4 | 9.7 | 1.1 | 0.1 | 100.0 | 2,001 |
| Rural | 25.4 | 49.6 | 22.2 | 2.8 | 100.0 | 2,027 | 34.1 | 53.0 | 10.1 | 2.7 | 0.0 | 100.0 | 5,666 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kachin | 24.2 | 44.5 | 29.2 | 2.1 | 100.0 | 83 | 36.1 | 48.1 | 12.9 | 2.8 | 0.2 | 100.0 | 237 |
| Kayah | 16.0 | 66.6 | 16.0 | 1.4 | 100.0 | 13 | 17.3 | 70.1 | 11.4 | 1.3 | 0.0 | 100.0 | 40 |
| Kayin | 60.7 | 28.0 | 10.8 | 0.6 | 100.0 | 59 | 61.0 | 30.5 | 7.9 | 0.6 | 0.0 | 100.0 | 195 |
| Chin | 19.3 | 52.9 | 25.4 | 2.4 | 100.0 | 11 | 19.9 | 61.8 | 15.0 | 3.4 | 0.0 | 100.0 | 64 |
| Sagaing | 18.3 | 50.6 | 28.5 | 2.7 | 100.0 | 294 | 41.8 | 48.4 | 6.7 | 3.1 | 0.0 | 100.0 | 803 |
| Tanintharyi | 22.1 | 61.4 | 15.7 | 0.8 | 100.0 | 54 | 33.5 | 54.3 | 11.9 | 0.2 | 0.0 | 100.0 | 173 |
| Bago | 14.2 | 64.1 | 17.4 | 4.4 | 100.0 | 302 | 34.8 | 55.5 | 7.0 | 2.3 | 0.3 | 100.0 | 761 |
| Magway | 22.6 | 45.0 | 29.2 | 3.2 | 100.0 | 204 | 34.3 | 53.4 | 9.8 | 2.5 | 0.0 | 100.0 | 636 |
| Mandalay | 29.8 | 42.7 | 22.3 | 5.3 | 100.0 | 343 | 35.5 | 51.3 | 8.3 | 4.9 | 0.0 | 100.0 | 834 |
| Mon | 37.3 | 40.6 | 19.5 | 2.6 | 100.0 | 76 | 61.0 | 31.1 | 5.6 | 2.3 | 0.0 | 100.0 | 278 |
| Rakhine | 15.6 | 45.1 | 38.0 | 1.3 | 100.0 | 126 | 30.9 | 47.1 | 19.9 | 2.2 | 0.0 | 100.0 | 448 |
| Yangon | 35.3 | 43.9 | 19.4 | 1.3 | 100.0 | 387 | 21.2 | 69.6 | 8.4 | 0.8 | 0.0 | 100.0 | 1,039 |
| Shan | 27.7 | 46.4 | 22.2 | 3.6 | 100.0 | 355 | 31.4 | 54.7 | 12.2 | 1.7 | 0.0 | 100.0 | 894 |
| Ayeyarwady | 26.9 | 49.6 | 22.1 | 1.4 | 100.0 | 402 | 31.5 | 54.3 | 12.3 | 1.9 | 0.0 | 100.0 | 1,072 |
| Nay Pyi Taw | 27.8 | 41.6 | 29.6 | 1.0 | 100.0 | 66 | 43.8 | 44.7 | 8.5 | 2.8 | 0.2 | 100.0 | 194 |
| Education ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 33.1 | 45.4 | 18.5 | 3.0 | 100.0 | 392 | 33.6 | 51.1 | 13.7 | 1.6 | 0.0 | 100.0 | 1,180 |
| Primary | 29.3 | 46.3 | 22.1 | 2.3 | 100.0 | 1,188 | 36.3 | 51.0 | 10.0 | 2.7 | 0.0 | 100.0 | 3,606 |
| Secondary | 21.4 | 50.9 | 24.1 | 3.6 | 100.0 | 1,018 | 32.5 | 56.1 | 8.9 | 2.3 | 0.1 | 100.0 | 2,259 |
| More than secondary | 16.7 | 47.8 | 34.7 | 0.8 | 100.0 | 177 | 30.3 | 61.7 | 6.8 | 1.2 | 0.1 | 100.0 | 619 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 28.8 | 46.2 | 23.6 | 1.3 | 100.0 | 579 | 38.7 | 48.0 | 11.3 | 2.0 | 0.0 | 100.0 | 1,611 |
| Second | 29.1 | 47.4 | 21.9 | 1.6 | 100.0 | 563 | 35.6 | 51.9 | 10.2 | 2.2 | 0.0 | 100.0 | 1,565 |
| Middle | 22.2 | 54.1 | 20.4 | 3.2 | 100.0 | 562 | 31.9 | 55.2 | 10.1 | 2.8 | 0.0 | 100.0 | 1,536 |
| Fourth | 27.9 | 45.7 | 21.3 | 5.1 | 100.0 | 549 | 32.7 | 55.1 | 9.4 | 2.7 | 0.2 | 100.0 | 1,484 |
| Highest | 22.4 | 46.3 | 28.6 | 2.7 | 100.0 | 522 | 31.9 | 57.2 | 9.0 | 1.9 | 0.0 | 100.0 | 1,471 |
| Total | 26.2 | 48.0 | 23.1 | 2.8 | 100.0 | 2,775 | 34.3 | 53.4 | 10.0 | 2.3 | 0.0 | 100.0 | 7,667 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Total includes three women with missing information on education.

Table 15.3 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, Myanmar DHS 2015-16

| Women's earnings relative to husband's earnings | Person who decides how the wife's cash earnings are used: |  |  |  |  | Total | Number | Person who decides how the husband's cash earnings are used: |  |  |  | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mainly wife | Wife and husband jointly | Mainly husband | Other | Missing |  |  | Mainly wife | Wife and husband jointly | Mainly husband | Other |  |  |
| More than husband | 67.3 | 23.9 | 5.3 | 3.5 | 0.0 | 100.0 | 782 | 44.3 | 40.5 | 12.1 | 3.1 | 100.0 | 782 |
| Less than husband | 50.9 | 41.2 | 5.5 | 2.4 | 0.0 | 100.0 | 3,003 | 35.3 | 53.3 | 9.3 | 2.1 | 100.0 | 3,003 |
| Same as husband | 41.1 | 50.6 | 6.5 | 1.8 | 0.1 | 100.0 | 1,241 | 29.2 | 61.7 | 7.8 | 1.2 | 100.0 | 1,241 |
| Husband has no cash earnings or did not work | 69.0 | 22.7 | 0.5 | 7.8 | 0.0 | 100.0 | 61 | na | na | na | na | na | na |
| Woman worked but has no cash earnings | na | na | na | na | na | na | na | 30.6 | 53.8 | 10.8 | 4.8 | 100.0 | 359 |
| Woman did not work | na | na | na | na | na | na | na | 32.9 | 53.7 | 11.1 | 2.3 | 100.0 | 2,249 |
| Total ${ }^{1}$ | 51.2 | 40.5 | 5.6 | 2.5 | 0.1 | 100.0 | 5,120 | 34.3 | 53.4 | 10.0 | 2.3 | 100.0 | 7,667 |

na $=$ Not applicable
${ }^{1}$ Includes cases where a woman does not know whether she earned more or less than her husband

Table 15.4.1 Ownership of assets: Women
Percent distribution of women age 15-49 by ownership of housing and land, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Percentage who own a house: |  |  |  | Total | Percentage who own land: |  |  |  |  | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone | Jointly | Alone and jointly | Percentage who do not own a house |  | Alone | Jointly | Alone and jointly | Percentage who do not own land | Total |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 1.8 | 16.6 | 4.2 | 77.4 | 100.0 | 1.1 | 16.4 | 3.2 | 79.3 | 100.0 | 1,810 |
| 20-24 | 6.1 | 20.4 | 5.7 | 67.8 | 100.0 | 4.5 | 19.0 | 4.8 | 71.6 | 100.0 | 1,867 |
| 25-29 | 13.2 | 26.2 | 6.9 | 53.7 | 100.0 | 9.7 | 24.5 | 6.3 | 59.5 | 100.0 | 1,867 |
| 30-34 | 19.3 | 28.9 | 10.9 | 40.9 | 100.0 | 15.0 | 27.0 | 10.1 | 47.9 | 100.0 | 2,037 |
| 35-39 | 25.1 | 28.7 | 13.4 | 32.8 | 100.0 | 19.5 | 28.5 | 12.9 | 39.1 | 100.0 | 1,954 |
| 40-44 | 30.4 | 28.7 | 14.8 | 26.0 | 100.0 | 25.8 | 26.4 | 13.9 | 33.9 | 100.0 | 1,733 |
| 45-49 | 32.6 | 30.4 | 16.2 | 20.9 | 100.0 | 27.6 | 29.3 | 15.4 | 27.7 | 100.0 | 1,617 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 13.5 | 20.7 | 5.8 | 60.0 | 100.0 | 11.1 | 19.9 | 5.5 | 63.6 | 100.0 | 3,768 |
| Rural | 20.0 | 27.7 | 12.0 | 40.3 | 100.0 | 15.9 | 26.3 | 11.0 | 46.8 | 100.0 | 9,117 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |  |
| Kachin | 17.7 | 9.4 | 6.1 | 66.8 | 100.0 | 16.9 | 4.8 | 5.9 | 72.4 | 100.0 | 374 |
| Kayah | 30.4 | 12.7 | 13.3 | 43.5 | 100.0 | 30.7 | 12.3 | 13.8 | 43.0 | 100.0 | 65 |
| Kayin | 29.6 | 17.2 | 6.1 | 47.0 | 100.0 | 29.5 | 16.6 | 4.9 | 49.0 | 100.0 | 303 |
| Chin | 4.2 | 14.2 | 26.1 | 55.5 | 100.0 | 3.9 | 14.5 | 25.5 | 56.1 | 100.0 | 102 |
| Sagaing | 4.8 | 2.5 | 35.4 | 57.3 | 100.0 | 4.5 | 2.4 | 35.2 | 57.8 | 100.0 | 1,410 |
| Tanintharyi | 5.2 | 35.2 | 1.5 | 58.0 | 100.0 | 4.9 | 30.3 | 0.8 | 63.9 | 100.0 | 283 |
| Bago | 23.6 | 11.1 | 9.7 | 55.6 | 100.0 | 19.3 | 8.8 | 9.8 | 62.1 | 100.0 | 1,244 |
| Magway | 29.4 | 29.6 | 11.3 | 29.7 | 100.0 | 14.7 | 30.2 | 3.5 | 51.6 | 100.0 | 1,081 |
| Mandalay | 22.1 | 63.8 | 0.9 | 13.3 | 100.0 | 18.7 | 63.6 | 0.8 | 17.0 | 100.0 | 1,541 |
| Mon | 11.1 | 28.2 | 10.8 | 49.9 | 100.0 | 10.4 | 24.9 | 10.5 | 54.2 | 100.0 | 463 |
| Rakhine | 6.0 | 16.4 | 19.0 | 58.7 | 100.0 | 5.6 | 15.8 | 18.2 | 60.4 | 100.0 | 777 |
| Yangon | 17.9 | 14.5 | 8.7 | 58.9 | 100.0 | 12.7 | 15.2 | 8.4 | 63.7 | 100.0 | 1,927 |
| Shan | 29.2 | 18.3 | 7.0 | 45.5 | 100.0 | 26.2 | 18.6 | 7.5 | 47.7 | 100.0 | 1,368 |
| Ayeyarwady | 12.8 | 44.1 | 0.1 | 43.0 | 100.0 | 10.3 | 38.6 | 0.1 | 51.0 | 100.0 | 1,650 |
| Nay Pyi Taw | 21.1 | 35.6 | 5.6 | 37.7 | 100.0 | 19.1 | 33.0 | 5.1 | 42.8 | 100.0 | 300 |
| Education ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| No education | 29.4 | 23.8 | 15.3 | 31.5 | 100.0 | 24.2 | 22.0 | 14.4 | 39.4 | 100.0 | 1,606 |
| Primary | 21.3 | 29.2 | 12.4 | 37.0 | 100.0 | 16.4 | 27.6 | 11.3 | 44.7 | 100.0 | 5,305 |
| Secondary | 12.9 | 22.8 | 6.7 | 57.5 | 100.0 | 10.8 | 22.0 | 6.2 | 61.0 | 100.0 | 4,646 |
| More than secondary | 9.4 | 23.6 | 7.3 | 59.6 | 100.0 | 7.7 | 23.1 | 6.9 | 62.2 | 100.0 | 1,325 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 24.2 | 29.6 | 10.9 | 35.2 | 100.0 | 16.4 | 25.4 | 9.9 | 48.3 | 100.0 | 2,274 |
| Second | 20.8 | 28.0 | 11.4 | 39.8 | 100.0 | 16.4 | 26.1 | 10.3 | 47.2 | 100.0 | 2,408 |
| Middle | 17.6 | 26.2 | 12.1 | 44.1 | 100.0 | 14.4 | 25.7 | 10.4 | 49.4 | 100.0 | 2,633 |
| Fourth | 15.6 | 21.7 | 9.6 | 53.1 | 100.0 | 14.1 | 21.7 | 9.3 | 54.9 | 100.0 | 2,702 |
| Highest | 13.6 | 23.9 | 7.5 | 55.0 | 100.0 | 11.8 | 23.6 | 7.4 | 57.2 | 100.0 | 2,868 |
| Total | 18.1 | 25.7 | 10.2 | 46.0 | 100.0 | 14.5 | 24.4 | 9.4 | 51.7 | 100.0 | 12,885 |

${ }^{1}$ Total includes three women with missing information on education.

Table 15.4.2 Ownership of assets; Men
Percent distribution of men age 15-49 by ownership of housing and land, according to background characteristics, Myanmar DHS 201516

| Background characteristic | Percentage who own a house: |  |  |  | Total | Percentage who own land: |  |  |  | Total | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone | Jointly | Alone and jointly | Percentage who do not own a house |  | Alone | Jointly | Alone and jointly | Percentage who do not own land |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 2.7 | 22.6 | 3.1 | 71.6 | 100.0 | 2.9 | 21.4 | 2.8 | 72.9 | 100.0 | 731 |
| 20-24 | 8.1 | 22.5 | 2.5 | 66.8 | 100.0 | 7.5 | 21.5 | 1.9 | 69.1 | 100.0 | 692 |
| 25-29 | 20.5 | 21.9 | 2.6 | 55.0 | 100.0 | 14.6 | 19.7 | 2.7 | 63.0 | 100.0 | 677 |
| 30-34 | 37.8 | 21.9 | 1.0 | 39.3 | 100.0 | 29.2 | 18.6 | 1.2 | 51.0 | 100.0 | 698 |
| 35-39 | 44.8 | 24.4 | 1.3 | 29.5 | 100.0 | 38.2 | 22.1 | 1.7 | 38.1 | 100.0 | 679 |
| 40-44 | 57.8 | 19.3 | 1.0 | 21.9 | 100.0 | 48.0 | 20.9 | 0.4 | 30.7 | 100.0 | 689 |
| 45-49 | 66.0 | 16.4 | 0.8 | 16.8 | 100.0 | 57.3 | 16.1 | 0.8 | 25.7 | 100.0 | 571 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 20.8 | 20.9 | 2.5 | 55.8 | 100.0 | 18.2 | 19.3 | 2.4 | 60.1 | 100.0 | 1,350 |
| Rural | 37.7 | 21.7 | 1.5 | 39.2 | 100.0 | 30.9 | 20.5 | 1.4 | 47.2 | 100.0 | 3,387 |
| States/Regions |  |  |  |  |  |  |  |  |  |  |  |
| Kachin | 30.7 | 28.8 | 4.1 | 36.4 | 100.0 | 31.2 | 27.0 | 4.4 | 37.4 | 100.0 | 161 |
| Kayah | 52.0 | 12.9 | 0.4 | 34.7 | 100.0 | 49.2 | 15.7 | 0.0 | 35.1 | 100.0 | 23 |
| Kayin | 30.7 | 13.1 | 2.9 | 53.4 | 100.0 | 29.9 | 11.1 | 2.3 | 56.7 | 100.0 | 115 |
| Chin | 47.3 | 7.1 | 0.0 | 45.6 | 100.0 | 52.2 | 5.8 | 0.0 | 42.0 | 100.0 | 39 |
| Sagaing | 35.3 | 9.2 | 0.8 | 54.8 | 100.0 | 32.1 | 10.1 | 0.5 | 57.3 | 100.0 | 514 |
| Tanintharyi | 6.6 | 40.9 | 1.2 | 51.3 | 100.0 | 8.2 | 34.3 | 1.7 | 55.8 | 100.0 | 103 |
| Bago | 35.9 | 6.1 | 0.0 | 58.0 | 100.0 | 25.6 | 4.9 | 0.0 | 69.4 | 100.0 | 454 |
| Magway | 44.2 | 3.9 | 0.0 | 51.9 | 100.0 | 41.4 | 4.2 | 0.0 | 54.4 | 100.0 | 320 |
| Mandalay | 35.0 | 50.4 | 1.1 | 13.5 | 100.0 | 31.8 | 50.9 | 1.4 | 15.9 | 100.0 | 601 |
| Mon | 16.1 | 28.9 | 0.4 | 54.6 | 100.0 | 17.8 | 29.1 | 0.4 | 52.7 | 100.0 | 162 |
| Rakhine | 21.2 | 32.5 | 0.3 | 46.0 | 100.0 | 15.9 | 28.1 | 0.6 | 55.4 | 100.0 | 222 |
| Yangon | 24.1 | 13.1 | 4.8 | 58.1 | 100.0 | 20.7 | 12.9 | 3.7 | 62.7 | 100.0 | 703 |
| Shan | 40.4 | 20.1 | 2.2 | 37.3 | 100.0 | 32.8 | 19.4 | 2.0 | 45.8 | 100.0 | 542 |
| Ayeyarwady | 35.6 | 25.1 | 2.5 | 36.8 | 100.0 | 21.4 | 18.7 | 2.5 | 57.3 | 100.0 | 653 |
| Nay Pyi Taw | 35.9 | 25.8 | 0.6 | 37.8 | 100.0 | 28.6 | 28.1 | 1.0 | 42.4 | 100.0 | 126 |
| Education |  |  |  |  |  |  |  |  |  |  |  |
| No education | 50.0 | 14.5 | 1.4 | 34.1 | 100.0 | 40.2 | 14.9 | 1.2 | 43.7 | 100.0 | 575 |
| Primary | 43.2 | 20.9 | 1.2 | 34.7 | 100.0 | 34.7 | 19.1 | 1.3 | 44.9 | 100.0 | 1,684 |
| Secondary | 22.5 | 23.8 | 2.4 | 51.3 | 100.0 | 19.4 | 22.4 | 2.1 | 56.1 | 100.0 | 2,139 |
| More than secondary | 18.0 | 21.1 | 1.9 | 59.0 | 100.0 | 18.4 | 20.0 | 1.8 | 59.8 | 100.0 | 339 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 45.0 | 19.1 | 0.7 | 35.1 | 100.0 | 30.8 | 15.6 | 0.7 | 52.9 | 100.0 | 890 |
| Second | 41.3 | 18.9 | 2.6 | 37.3 | 100.0 | 34.2 | 17.9 | 2.4 | 45.5 | 100.0 | 916 |
| Middle | 31.2 | 23.8 | 2.2 | 42.9 | 100.0 | 28.1 | 23.6 | 1.6 | 46.7 | 100.0 | 979 |
| Fourth | 25.1 | 24.0 | 1.5 | 49.5 | 100.0 | 22.6 | 23.1 | 1.8 | 52.5 | 100.0 | 986 |
| Highest | 23.4 | 21.0 | 2.0 | 53.6 | 100.0 | 21.6 | 19.9 | 1.7 | 56.8 | 100.0 | 966 |
| Total | 32.9 | 21.4 | 1.8 | 43.9 | 100.0 | 27.3 | 20.1 | 1.7 | 50.9 | 100.0 | 4,737 |

Table 15.5 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, Myanmar DHS 2015-16

| Decision | Mainly wife | Wife and husband jointly | Mainly husband | Someone else | Other | Missing | Total | Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WOMEN |  |  |  |  |  |  |  |  |
| Own health care | 40.1 | 43.4 | 14.1 | 2.1 | 0.4 | 0.0 | 100.0 | 7,759 |
| Major household purchases | 18.6 | 55.7 | 18.5 | 6.2 | 0.9 | 0.0 | 100.0 | 7,759 |
| Visits to her family or relatives | 36.8 | 50.9 | 9.5 | 2.3 | 0.5 | 0.0 | 100.0 | 7,759 |
| Well-being of children | 57.3 | 34.0 | 5.0 | 1.3 | 2.3 | 0.1 | 100.0 | 7,759 |
| MEN |  |  |  |  |  |  |  |  |
| Own health care | 24.7 | 34.0 | 37.6 | 3.8 | 0.0 | 0.0 | 100.0 | 2,957 |
| Major household purchases | 9.4 | 48.3 | 36.7 | 5.6 | 0.0 | 0.0 | 100.0 | 2,957 |
| Well-being of children | 38.2 | 40.5 | 18.7 | 1.2 | 1.4 | 0.0 | 100.0 | 2,957 |

Table 15.6.1 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, Myanmar DHS 2015-16

| Background characteristic | Specific decisions |  |  | All three decisions | None of the three decisions | Well-being of children | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Woman's own health care | Making major household purchases | Visits to her family or relatives |  |  |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 69.7 | 54.4 | 81.1 | 46.7 | 11.4 | 73.2 | 227 |
| 20-24 | 76.1 | 62.1 | 81.9 | 53.4 | 9.5 | 85.4 | 834 |
| 25-29 | 84.2 | 72.9 | 85.8 | 63.8 | 5.6 | 91.6 | 1,258 |
| 30-34 | 85.7 | 75.4 | 87.6 | 67.4 | 4.9 | 92.3 | 1,505 |
| 35-39 | 84.3 | 77.0 | 89.9 | 68.1 | 4.0 | 93.7 | 1,482 |
| 40-44 | 84.7 | 79.5 | 89.5 | 69.6 | 4.1 | 92.4 | 1,283 |
| 45-49 | 85.0 | 78.1 | 90.3 | 67.8 | 3.7 | 93.1 | 1,169 |
| $\begin{aligned} & \text { Employment (last } 12 \\ & \text { months) }{ }^{1} \end{aligned}$ |  |  |  |  |  |  |  |
| Not employed | 83.0 | 72.3 | 85.0 | 62.4 | 6.4 | 90.9 | 2,269 |
| Employed for cash | 84.0 | 76.1 | 89.1 | 67.4 | 4.4 | 91.8 | 5,120 |
| Employed not for cash | 78.1 | 62.1 | 84.4 | 52.9 | 8.4 | 87.4 | 369 |
| Number of living children |  |  |  |  |  |  |  |
| 0 | 74.2 | 63.6 | 82.0 | 53.3 | 9.7 | 74.6 | 916 |
| 1-2 | 85.4 | 74.8 | 88.7 | 66.6 | 4.3 | 93.7 | 4,061 |
| 3-4 | 84.3 | 77.3 | 88.7 | 67.6 | 4.7 | 94.2 | 2,098 |
| 5+ | 81.1 | 76.9 | 85.8 | 66.2 | 6.2 | 90.6 | 684 |
| Residence |  |  |  |  |  |  |  |
| Urban | 88.1 | 76.3 | 89.0 | 68.6 | 3.2 | 92.2 | 2,022 |
| Rural | 81.8 | 73.7 | 87.2 | 64.1 | 5.9 | 91.0 | 5,737 |
| States/Regions |  |  |  |  |  |  |  |
| Kachin | 86.0 | 70.5 | 83.6 | 60.6 | 3.9 | 91.2 | 238 |
| Kayah | 92.9 | 72.5 | 88.4 | 66.8 | 2.0 | 90.0 | 40 |
| Kayin | 92.5 | 85.0 | 93.8 | 79.4 | 1.8 | 95.5 | 201 |
| Chin | 77.4 | 79.5 | 85.7 | 67.4 | 8.1 | 88.3 | 66 |
| Sagaing | 86.3 | 75.5 | 85.9 | 69.9 | 6.8 | 92.3 | 828 |
| Tanintharyi | 90.7 | 84.7 | 92.1 | 79.6 | 3.3 | 92.2 | 174 |
| Bago | 80.4 | 78.6 | 89.9 | 67.2 | 4.0 | 94.0 | 780 |
| Magway | 82.8 | 68.4 | 89.7 | 61.0 | 3.6 | 88.9 | 642 |
| Mandalay | 79.7 | 77.3 | 93.3 | 64.3 | 3.6 | 94.1 | 838 |
| Mon | 78.1 | 80.7 | 90.0 | 66.0 | 4.4 | 87.6 | 278 |
| Rakhine | 60.6 | 64.6 | 68.3 | 47.5 | 19.2 | 79.0 | 454 |
| Yangon | 94.4 | 79.4 | 91.5 | 73.8 | 1.3 | 96.7 | 1,042 |
| Shan | 88.5 | 69.7 | 92.2 | 64.2 | 3.2 | 92.4 | 901 |
| Ayeyarwady | 80.5 | 70.9 | 81.6 | 60.9 | 7.9 | 87.3 | 1,083 |
| Nay Pyi Taw | 77.7 | 68.9 | 84.3 | 56.2 | 5.7 | 90.8 | 195 |
| Education ${ }^{2}$ |  |  |  |  |  |  |  |
| No education | 81.1 | 73.3 | 86.7 | 64.5 | 7.0 | 89.6 | 1,193 |
| Primary | 82.6 | 74.8 | 87.8 | 65.3 | 5.3 | 91.6 | 3,656 |
| Secondary | 84.0 | 73.5 | 87.5 | 64.3 | 4.9 | 91.3 | 2,285 |
| More than secondary | 90.5 | 76.6 | 89.4 | 69.4 | 2.0 | 92.6 | 621 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 77.9 | 72.0 | 82.9 | 60.3 | 8.0 | 87.7 | 1,622 |
| Second | 81.9 | 76.6 | 87.8 | 67.7 | 6.2 | 91.4 | 1,586 |
| Middle | 84.9 | 73.0 | 88.9 | 64.7 | 3.7 | 92.2 | 1,556 |
| Fourth | 84.4 | 75.8 | 89.4 | 66.8 | 4.9 | 93.0 | 1,509 |
| Highest | 88.4 | 74.5 | 89.8 | 67.0 | 2.9 | 92.4 | 1,487 |
| Total | 83.4 | 74.3 | 87.7 | 65.3 | 5.2 | 91.3 | 7,759 |

${ }^{1}$ Total includes one woman with missing information on employment status in the last 12 months.
${ }^{2}$ Total includes three women with missing information on education.

Table 15.6.2 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, Myanmar DHS 2015-16

| Background characteristic | Specific decisions |  | Both decisions | Neither of the two decisions | Well-being of children | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Man's own health | Making major household purchases |  |  |  |  |
| Age |  |  |  |  |  |  |
| 15-19 | (63.2) | (63.6) | (51.7) | (24.9) | (62.8) | 36 |
| 20-24 | 63.0 | 67.5 | 49.1 | 18.6 | 50.2 | 228 |
| 25-29 | 64.7 | 78.9 | 56.9 | 13.3 | 52.0 | 447 |
| 30-34 | 72.6 | 86.1 | 68.0 | 9.2 | 58.2 | 549 |
| 35-39 | 73.2 | 86.6 | 69.1 | 9.2 | 58.4 | 587 |
| 40-44 | 77.5 | 90.4 | 74.2 | 6.3 | 64.5 | 593 |
| 45-49 | 71.7 | 89.9 | 67.6 | 5.9 | 64.9 | 516 |
| $\begin{aligned} & \text { Employment (last } 12 \\ & \text { months) } \end{aligned}$ |  |  |  |  |  |  |
| Not employed | * | * | * | * | * | 23 |
| Employed for cash | 71.5 | 85.4 | 66.4 | 9.4 | 59.7 | 2,775 |
| Employed not for cash | 70.8 | 79.2 | 61.5 | 11.4 | 51.8 | 159 |
| Number of living children |  |  |  |  |  |  |
| 0 | 63.6 | 75.3 | 53.0 | 14.1 | 57.1 | 381 |
| 1-2 | 72.5 | 84.6 | 67.5 | 10.4 | 57.6 | 1,605 |
| 3-4 | 73.8 | 89.2 | 69.3 | 6.4 | 63.5 | 773 |
| $5+$ | 69.6 | 90.1 | 66.9 | 7.3 | 59.1 | 197 |
| Residence |  |  |  |  |  |  |
| Urban | 68.6 | 83.4 | 62.3 | 10.3 | 53.0 | 767 |
| Rural | 72.5 | 85.5 | 67.3 | 9.3 | 61.3 | 2,190 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 76.8 | 83.0 | 68.6 | 8.8 | 56.5 | 93 |
| Kayah | 81.9 | 90.0 | 76.7 | 4.8 | 39.2 | 15 |
| Kayin | 73.4 | 89.6 | 71.0 | 8.0 | 48.5 | 70 |
| Chin | 74.1 | 81.3 | 64.3 | 8.9 | 54.9 | 24 |
| Sagaing | 77.0 | 83.0 | 68.6 | 8.5 | 60.4 | 308 |
| Tanintharyi | 87.2 | 88.0 | 78.9 | 3.7 | 59.1 | 57 |
| Bago | 75.3 | 83.2 | 66.5 | 7.9 | 68.6 | 309 |
| Magway | 73.7 | 86.1 | 69.5 | 9.8 | 71.6 | 215 |
| Mandalay | 64.0 | 87.1 | 60.5 | 9.4 | 64.5 | 358 |
| Mon | 67.7 | 68.9 | 52.5 | 15.9 | 49.7 | 82 |
| Rakhine | 86.0 | 91.2 | 82.5 | 5.3 | 56.6 | 139 |
| Yangon | 61.6 | 88.1 | 58.1 | 8.5 | 41.9 | 413 |
| Shan | 74.6 | 84.5 | 71.8 | 12.7 | 53.8 | 371 |
| Ayeyarwady | 70.8 | 82.1 | 64.9 | 11.9 | 66.6 | 419 |
| Nay Pyi Taw | 60.9 | 88.7 | 58.0 | 8.4 | 66.6 | 81 |
| Education |  |  |  |  |  |  |
| No education | 71.2 | 79.7 | 67.8 | 16.9 | 52.3 | 430 |
| Primary | 70.9 | 85.4 | 65.6 | 9.3 | 61.1 | 1,260 |
| Secondary | 71.6 | 86.0 | 65.5 | 7.9 | 59.6 | 1,085 |
| More than secondary | 76.0 | 87.8 | 68.6 | 4.8 | 59.6 | 181 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 70.3 | 85.2 | 66.3 | 10.8 | 60.0 | 627 |
| Second | 73.0 | 87.9 | 68.7 | 7.9 | 58.9 | 605 |
| Middle | 72.8 | 84.9 | 66.5 | 8.8 | 61.4 | 603 |
| Fourth | 69.8 | 81.7 | 63.2 | 11.6 | 58.6 | 590 |
| Highest | 71.7 | 85.0 | 65.4 | 8.8 | 56.6 | 531 |
| Total | 71.5 | 84.9 | 66.0 | 9.6 | 59.2 | 2,957 |

[^24]Table 15.7.1 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, Myanmar DHS 2015-16

| Background characteristic | Husband is justified in hitting or beating his wife if she: |  |  |  |  | Percentage who agree with at least one specified reason | Refuses to use contraception | Involved in too much social activity | Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Burns the } \\ \text { food } \\ \hline \end{gathered}$ | Argues with him | Goes out without telling him | Neglects the children | $\begin{gathered} \hline \text { Refuses to } \\ \text { have } \\ \text { sexual } \\ \text { intercourse } \\ \text { with him } \\ \hline \end{gathered}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 11.2 | 10.0 | 17.2 | 43.4 | 10.1 | 52.6 | 10.1 | 16.6 | 1,810 |
| 20-24 | 11.1 | 8.4 | 19.1 | 43.4 | 8.5 | 53.4 | 11.4 | 16.1 | 1,867 |
| 25-29 | 12.2 | 10.7 | 20.7 | 42.9 | 9.5 | 51.1 | 9.4 | 14.5 | 1,867 |
| 30-34 | 13.1 | 9.0 | 22.6 | 42.1 | 9.9 | 52.1 | 9.5 | 15.6 | 2,037 |
| 35-39 | 11.7 | 10.4 | 22.0 | 40.5 | 11.5 | 49.3 | 10.5 | 13.0 | 1,954 |
| 40-44 | 16.0 | 12.4 | 27.5 | 43.5 | 13.0 | 53.0 | 10.9 | 15.4 | 1,733 |
| 45-49 | 14.1 | 10.4 | 22.5 | 38.2 | 10.6 | 46.2 | 9.7 | 12.3 | 1,617 |
| Employment (last 12 months) ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Not employed | 11.1 | 9.6 | 18.7 | 39.4 | 10.2 | 47.7 | 11.0 | 15.3 | 3,517 |
| Employed for cash | 13.2 | 10.1 | 22.5 | 42.9 | 10.3 | 52.1 | 9.9 | 14.5 | 8,606 |
| Employed not for cash | 15.4 | 12.7 | 24.7 | 45.0 | 12.1 | 57.1 | 10.1 | 16.1 | 762 |
| Number of living children |  |  |  |  |  |  |  |  |  |
| 0 | 11.9 | 9.8 | 18.6 | 41.4 | 9.1 | 51.4 | 9.6 | 15.2 | 5,331 |
| 1-2 | 12.3 | 9.8 | 22.9 | 42.0 | 10.8 | 50.6 | 10.5 | 14.3 | 4,510 |
| 3-4 | 13.9 | 10.5 | 23.3 | 42.3 | 11.6 | 50.9 | 10.6 | 14.1 | 2,279 |
| 5+ | 17.5 | 13.9 | 30.0 | 46.1 | 13.5 | 53.8 | 11.3 | 16.4 | 765 |
| Marital status |  |  |  |  |  |  |  |  |  |
| Never married | 11.7 | 10.2 | 17.8 | 41.3 | 8.7 | 51.4 | 8.9 | 15.6 | 4,278 |
| Married | 13.2 | 10.1 | 23.9 | 42.1 | 11.0 | 50.7 | 10.4 | 14.4 | 7,759 |
| Divorced/separated/ widowed | 13.7 | 10.4 | 20.2 | 45.2 | 13.8 | 54.0 | 15.2 | 14.7 | 848 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 9.1 | 7.3 | 14.9 | 35.4 | 7.4 | 44.0 | 7.6 | 13.8 | 3,768 |
| Rural | 14.2 | 11.3 | 24.4 | 44.8 | 11.7 | 54.1 | 11.3 | 15.2 | 9,117 |
| States/Regions |  |  |  |  |  |  |  |  |  |
| Kachin | 13.4 | 9.7 | 23.3 | 51.4 | 9.5 | 59.7 | 12.8 | 14.8 | 374 |
| Kayah | 4.3 | 5.6 | 14.9 | 38.2 | 4.2 | 45.4 | 6.2 | 7.8 | 65 |
| Kayin | 5.8 | 8.8 | 15.2 | 33.4 | 6.3 | 40.5 | 8.4 | 8.0 | 303 |
| Chin | 10.6 | 22.7 | 32.0 | 43.9 | 15.1 | 55.3 | 8.7 | 20.4 | 102 |
| Sagaing | 17.4 | 11.5 | 27.9 | 59.0 | 10.8 | 67.8 | 9.8 | 13.4 | 1,410 |
| Tanintharyi | 5.4 | 2.7 | 11.2 | 27.6 | 3.8 | 32.7 | 3.4 | 9.7 | 283 |
| Bago | 14.4 | 6.3 | 24.1 | 36.8 | 6.6 | 48.0 | 9.7 | 15.3 | 1,244 |
| Magway | 9.2 | 6.4 | 16.0 | 38.5 | 8.1 | 45.5 | 4.8 | 10.6 | 1,081 |
| Mandalay | 18.6 | 17.3 | 40.1 | 58.9 | 18.3 | 69.6 | 16.2 | 18.9 | 1,541 |
| Mon | 8.2 | 6.0 | 11.4 | 35.3 | 6.7 | 42.4 | 8.4 | 13.7 | 463 |
| Rakhine | 12.5 | 17.1 | 27.5 | 50.3 | 23.4 | 60.0 | 22.6 | 25.8 | 777 |
| Yangon | 5.3 | 7.1 | 10.8 | 23.2 | 6.1 | 30.5 | 6.2 | 13.3 | 1,927 |
| Shan | 12.3 | 8.9 | 13.5 | 33.0 | 7.2 | 44.2 | 4.7 | 10.5 | 1,368 |
| Ayeyarwady | 16.1 | 10.2 | 20.2 | 44.7 | 11.2 | 54.5 | 12.9 | 14.9 | 1,650 |
| Nay Pyi Taw | 20.9 | 15.4 | 34.8 | 58.3 | 13.2 | 65.4 | 16.0 | 26.7 | 300 |
| Education ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| No education | 16.0 | 14.4 | 26.3 | 41.8 | 14.2 | 52.1 | 13.0 | 15.5 | 1,606 |
| Primary | 16.3 | 11.5 | 25.6 | 45.2 | 12.4 | 54.7 | 11.6 | 15.7 | 5,305 |
| Secondary | 10.3 | 8.5 | 19.3 | 43.0 | 8.6 | 51.9 | 9.2 | 14.7 | 4,646 |
| More than secondary | 3.1 | 5.3 | 8.4 | 26.4 | 4.3 | 33.4 | 4.8 | 10.9 | 1,325 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 15.6 | 12.9 | 23.8 | 44.0 | 13.1 | 53.2 | 13.0 | 16.5 | 2,274 |
| Second | 15.5 | 11.2 | 25.3 | 44.1 | 12.5 | 54.2 | 12.1 | 15.8 | 2,408 |
| Middle | 13.1 | 11.1 | 24.1 | 45.5 | 11.0 | 54.1 | 10.5 | 14.6 | 2,633 |
| Fourth | 11.1 | 9.1 | 20.8 | 42.3 | 9.0 | 51.5 | 8.9 | 14.0 | 2,702 |
| Highest | 9.4 | 7.2 | 15.3 | 35.5 | 7.3 | 43.9 | 7.3 | 13.6 | 2,868 |
| Total | 12.7 | 10.1 | 21.6 | 42.0 | 10.4 | 51.2 | 10.2 | 14.8 | 12,885 |

[^25]Table 15.7.2 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, Myanmar DHS 2015-16

| Background characteristic | Husband is justified in hitting or beating his wife if she: |  |  |  |  | Percentage who agree with at least one specified reason | Refuses to use contraception | Involved in too much social activity | Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Burns the } \\ \text { food } \end{gathered}$ | Argues with him | Goes out without telling him | Neglects the children | Refuses to have sexual intercourse with him |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 10.3 | 15.6 | 20.0 | 47.3 | 16.3 | 57.1 | 15.6 | 24.9 | 731 |
| 20-24 | 9.3 | 13.5 | 18.2 | 45.0 | 12.7 | 54.5 | 11.3 | 25.6 | 692 |
| 25-29 | 6.1 | 10.7 | 11.8 | 38.4 | 10.0 | 46.6 | 8.0 | 19.7 | 677 |
| 30-34 | 7.2 | 13.4 | 16.5 | 41.1 | 7.7 | 51.4 | 8.9 | 19.0 | 698 |
| 35-39 | 7.0 | 9.3 | 15.9 | 34.9 | 7.3 | 43.7 | 8.5 | 21.5 | 679 |
| 40-44 | 9.1 | 13.7 | 14.3 | 33.3 | 8.2 | 41.3 | 7.8 | 15.0 | 689 |
| 45-49 | 7.0 | 16.7 | 19.2 | 37.1 | 7.4 | 47.1 | 7.2 | 20.5 | 571 |
| Employment (last 12 months) ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Not employed | 7.6 | 15.4 | 16.5 | 40.4 | 11.9 | 52.3 | 9.8 | 20.8 | 282 |
| Employed for cash | 7.9 | 12.7 | 16.3 | 39.6 | 9.7 | 48.4 | 9.4 | 20.7 | 4,123 |
| Employed not for cash | 10.1 | 18.1 | 19.8 | 41.1 | 12.7 | 53.4 | 13.3 | 24.2 | 332 |
| Number of living children |  |  |  |  |  |  |  |  |  |
| 0 | 9.4 | 13.3 | 17.2 | 43.0 | 13.4 | 52.9 | 12.0 | 22.2 | 2,077 |
| 1-2 | 6.1 | 12.4 | 13.8 | 37.1 | 7.0 | 44.9 | 7.8 | 20.5 | 1,669 |
| 3-4 | 9.0 | 14.6 | 19.8 | 38.8 | 8.7 | 49.9 | 8.5 | 20.5 | 792 |
| $5+$ | 7.2 | 13.6 | 18.8 | 31.2 | 6.4 | 38.8 | 7.0 | 13.9 | 200 |
| Marital status |  |  |  |  |  |  |  |  |  |
| Never married | 9.8 | 14.2 | 18.1 | 44.9 | 15.3 | 55.4 | 12.7 | 22.8 | 1,646 |
| Married | 6.8 | 12.2 | 15.2 | 36.6 | 7.2 | 44.8 | 7.8 | 19.7 | 2,957 |
| Divorced/separated/wido wed | 13.1 | 24.1 | 26.8 | 45.5 | 10.3 | 61.3 | 17.0 | 25.1 | 135 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 7.3 | 10.7 | 14.3 | 41.5 | 11.6 | 49.5 | 9.0 | 26.5 | 1,350 |
| Rural | 8.3 | 14.2 | 17.4 | 39.0 | 9.5 | 48.8 | 10.0 | 18.7 | 3,387 |
| States/Regions |  |  |  |  |  |  |  |  |  |
| Kachin | 11.2 | 15.1 | 14.8 | 46.0 | 11.3 | 59.1 | 14.8 | 19.6 | 161 |
| Kayah | 1.1 | 3.1 | 4.7 | 8.5 | 0.8 | 14.2 | 2.3 | 0.0 | 23 |
| Kayin | 17.2 | 6.4 | 6.7 | 10.8 | 5.8 | 32.4 | 17.4 | 20.0 | 115 |
| Chin | 11.7 | 19.2 | 20.7 | 41.4 | 13.5 | 60.3 | 12.8 | 25.5 | 39 |
| Sagaing | 12.6 | 16.6 | 17.3 | 48.3 | 15.6 | 58.9 | 16.2 | 22.7 | 514 |
| Tanintharyi | 5.4 | 14.6 | 15.5 | 40.8 | 8.1 | 48.5 | 11.2 | 13.7 | 103 |
| Bago | 11.2 | 11.7 | 17.5 | 41.5 | 7.7 | 51.9 | 12.3 | 15.6 | 454 |
| Magway | 4.3 | 15.2 | 11.2 | 36.4 | 5.4 | 43.6 | 9.0 | 19.2 | 320 |
| Mandalay | 13.4 | 18.0 | 20.9 | 50.3 | 12.7 | 61.9 | 13.6 | 13.4 | 601 |
| Mon | 10.3 | 18.3 | 19.0 | 47.2 | 16.9 | 58.5 | 15.0 | 19.7 | 162 |
| Rakhine | 9.2 | 20.1 | 39.2 | 61.6 | 10.5 | 68.8 | 9.9 | 40.9 | 222 |
| Yangon | 2.9 | 7.3 | 18.1 | 48.1 | 12.1 | 53.1 | 4.5 | 37.2 | 703 |
| Shan | 3.2 | 16.7 | 10.5 | 25.8 | 8.5 | 34.5 | 4.4 | 20.9 | 542 |
| Ayeyarwady | 5.0 | 6.2 | 10.3 | 19.0 | 5.2 | 27.0 | 5.1 | 8.5 | 653 |
| Nay Pyi Taw | 12.8 | 14.9 | 22.0 | 52.1 | 11.4 | 61.7 | 12.1 | 25.4 | 126 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 6.8 | 17.8 | 14.8 | 29.6 | 9.5 | 42.6 | 8.9 | 21.1 | 575 |
| Primary | 9.8 | 12.6 | 17.8 | 38.7 | 9.9 | 48.2 | 10.0 | 19.5 | 1,684 |
| Secondary | 7.8 | 13.6 | 17.2 | 44.4 | 11.1 | 53.5 | 10.5 | 22.6 | 2,139 |
| More than secondary | 3.5 | 6.0 | 9.1 | 32.6 | 5.5 | 34.9 | 4.8 | 17.4 | 339 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 8.9 | 13.6 | 17.9 | 34.1 | 9.9 | 44.1 | 10.0 | 16.9 | 890 |
| Second | 8.3 | 13.0 | 18.9 | 41.2 | 9.2 | 51.0 | 10.5 | 18.5 | 916 |
| Middle | 8.9 | 14.3 | 17.1 | 41.3 | 10.3 | 49.5 | 10.3 | 21.8 | 979 |
| Fourth | 8.1 | 13.1 | 15.5 | 41.6 | 10.7 | 52.3 | 9.4 | 23.5 | 986 |
| Highest | 6.1 | 12.2 | 13.5 | 40.0 | 10.1 | 47.6 | 8.4 | 23.5 | 966 |
| Total | 8.1 | 13.2 | 16.5 | 39.7 | 10.1 | 49.0 | 9.7 | 21.0 | 4,737 |

${ }^{1}$ Total includes one man with missing information on employment status in the last 12 months.

Table 15.8 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, Myanmar DHS 2015-16

| Empowerment indicator | Percentage who participate in all decision making | Percentage who disagree with all of the reasons justifying wife beating | Number of women |
| :---: | :---: | :---: | :---: |
| Number of decisions in which women participate ${ }^{1}$ |  |  |  |
| 0 | na | 43.6 | 404 |
| 1-2 | na | 41.1 | 2,292 |
| 3 | na | 53.5 | 5,063 |
| Number of reasons for which wife beating is justified ${ }^{2}$ |  |  |  |
| 0 | 70.8 | na | 3,825 |
| 1-2 | 60.8 | na | 2,908 |
| 3-4 | 58.8 | na | 874 |
| 5 | 48.4 | na | 152 |

na $=$ Not applicable
${ }^{1}$ See Table 15.6.1 for the list of decisions. Excludes decision on well-being of children.
${ }^{2}$ See Table 15.7.1 for the list of reasons. Excludes the reasons refusal of contraception and involvement in social activities.

Table 15.9 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, Myanmar DHS 2015-16

| Empowerment indicator | Any method | Any modern method | Modern methods |  |  |  | Any traditional method | Notcurrentlyusing | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Female sterilization | Male sterilization | ```Tempo- rary modern female methods }\mp@subsup{}{}{1``` | Male condom |  |  |  |  |
| Number of decisions in which women participate ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 44.5 | 44.4 | 2.2 | 0.1 | 41.3 | 0.7 | 0.1 | 55.5 | 100.0 | 404 |
| 1-2 | 51.4 | 50.2 | 4.8 | 0.2 | 44.0 | 1.2 | 1.2 | 48.6 | 100.0 | 2,292 |
| 3 | 53.3 | 52.3 | 5.0 | 0.3 | 46.1 | 0.9 | 1.0 | 46.7 | 100.0 | 5,063 |
| Number of reasons for which wife beating is justified ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 51.9 | 50.8 | 5.0 | 0.2 | 44.4 | 1.2 | 1.1 | 48.1 | 100.0 | 3,825 |
| 1-2 | 54.6 | 53.7 | 4.8 | 0.4 | 47.6 | 0.9 | 0.9 | 45.4 | 100.0 | 2,908 |
| 3-4 | 48.2 | 47.4 | 4.4 | 0.1 | 42.3 | 0.7 | 0.8 | 51.8 | 100.0 | 874 |
| 5 | 38.1 | 38.1 | 0.8 | 0.0 | 37.3 | 0.0 | 0.0 | 61.9 | 100.0 | 152 |
| Total | 52.2 | 51.3 | 4.8 | 0.3 | 45.2 | 1.0 | 1.0 | 47.8 | 100.0 | 7,759 |

Note: If more than one method is used, only the most effective method is considered in this tabulation.
${ }^{1}$ Pill, IUD, injectables, implants, female condom, emergency contraception, standard days method, lactational amenorrhea method, and other modern methods
${ }^{2}$ See Table 15.6 .1 for the list of decisions. Excludes decision on well-being of children.
${ }^{3}$ See Table 15.7.1 for the list of reasons. Excludes the reasons refusal of contraception and involvement in social activities.

Table 15.10 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 percentage of currently married women age 15-49 with an unmet need for family planning, by indicators of women's empowerment, Myanmar DHS 2015-16

| Empowerment indicator | Mean ideal number of children ${ }^{1}$ | Number of women | Percentage of currently married women with an unmet need for family planning ${ }^{2}$ |  |  | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | For spacing | For limiting | Total |  |
| Number of decisions in which women participate ${ }^{3}$ |  |  |  |  |  |  |
| 0 | 3.0 | 381 | 8.1 | 11.0 | 19.1 | 404 |
| 1-2 | 2.9 | 2,179 | 5.0 | 11.4 | 16.5 | 2,292 |
| 3 | 2.9 | 4,860 | 4.4 | 11.5 | 15.9 | 5,063 |
| Number of reasons for which wife beating is justified ${ }^{4}$ |  |  |  |  |  |  |
| 0 | 2.5 | 5,714 | 5.0 | 12.0 | 17.0 | 3,825 |
| 1-2 | 2.6 | 4,700 | 4.5 | 10.5 | 15.0 | 2,908 |
| 3-4 | 2.8 | 1,262 | 5.2 | 11.3 | 16.5 | 874 |
| 5 | 2.7 | 198 | 3.7 | 15.0 | 18.7 | 152 |
| Total | 2.5 | 11,874 | 4.8 | 11.4 | 16.2 | 7,759 |

${ }^{1}$ Mean excludes women who gave non-numeric responses.
${ }^{2}$ See Table 7.12.1 for the definition of unmet need for family planning
${ }^{3}$ Restricted to currently married women. See Table 15.6.1 for the list of decisions. Excludes decision on well-being of children.
${ }^{4}$ See Table 15.7.1 for the list of reasons. Excludes the reasons refusal of contraception and involvement in social activities.

## Table 15.11 Reproductive health care by women's empowerment

Percentage of women age 15-49 with a live birth in the 5 years preceding the survey who received antenatal care, delivery assistance, and postnatal care from health personnel for the most recent birth, according to indicators of women's empowerment, Myanmar DHS 2015-16

| Empowerment indicator | Percentage receiving antenatal care from a skilled provider ${ }^{1}$ | Percentage receiving delivery care from a skilled provider ${ }^{1}$ | Percentage with a postnatal checkup in the first 2 days after birth ${ }^{2}$ | Number of women with a child born in the last 5 years |
| :---: | :---: | :---: | :---: | :---: |
| Number of decisions in which women participate ${ }^{3}$ |  |  |  |  |
| 0 | 70.0 | 47.5 | 53.8 | 198 |
| 1-2 | 80.5 | 62.4 | 67.7 | 1,018 |
| 3 | 82.3 | 66.1 | 71.1 | 2,208 |
| Number of reasons for which wife beating is justified ${ }^{4}$ |  |  |  |  |
| 0 | 81.2 | 65.1 | 70.7 | 1,761 |
| 1-2 | 81.3 | 63.9 | 68.9 | 1,390 |
| 3-4 | 78.6 | 56.5 | 62.5 | 363 |
| 5 | 65.6 | 50.7 | 65.1 | 69 |
| Total | 80.7 | 63.5 | 69.1 | 3,583 |

[^26]Table 15.12 Early childhood mortality rates by women's status
Infant, child, and under-5 mortality rates for the 10-year period preceding the survey, by indicators of women's empowerment, Myanmar DHS 2015-16

| Empowerment <br> indicator | Infant mortality <br> $\left(1 \mathrm{q}_{0}\right)$ | Child mortality <br> $\left(4 \mathrm{q}_{1}\right)$ | Under-5 <br> mortality $\left(5 \mathrm{q}_{0}\right)$ |
| :--- | :---: | :---: | :---: |
| Number of decisions in <br> which women participate ${ }^{1}$ |  |  |  |
| 0 | $(74)$ | $(18)$ | $(91)$ |
| $1-2$ | 60 | 18 | 77 |
| 3 | 57 | 12 | 68 |
| Number of reasons for |  |  |  |
| $\quad$ which wife beating is |  |  |  |
| justified ${ }^{2}$ | 65 | 15 | 79 |
| 0 | 51 | 14 | 65 |
| $1-2$ | 52 | 13 | 65 |
| $3-4$ |  |  |  |

Note: Figures in parentheses are based on 250-499 unweighted person-years of exposure to the risk of death.
1 Restricted to currently married women. See Table 15.6 .1 for the list of decisions. Excludes decision on well-being of children.
${ }^{2}$ See Table 15.7.1 for the list of reasons. Excludes the reasons refusal of contraception and involvement in social activities.

## Key Findings

- Experience of violence from anyone: Fifteen percent of women have experienced physical violence since age 15, and $3 \%$ have ever experienced sexual violence. Three percent of ever-pregnant women report having experienced physical violence during any pregnancy.
- Marital control: Seventy-one percent of women have never experienced any marital control behaviors by their husbands, and 5\% have experienced at least three types of marital control behaviors.
- Spousal violence: Twenty-one percent of ever-married women have experienced spousal violence; the most common type of spousal violence is physical violence (15\%), followed by emotional violence (14\%). Only 3\% of ever-married women have ever experienced spousal sexual violence.
- Injuries due to spousal violence: Thirty-seven percent of ever-married women who have experienced spousal violence report suffering physical injuries, including 7\% who have had serious injuries such as deep wounds, broken bones, and broken teeth.
- Help seeking: Only $22 \%$ of women who have experienced physical or sexual violence committed by anyone have sought help to stop the violence, and $37 \%$ have never told anyone about the violence.

Domestic violence is a violation of basic human rights and has documented adverse health, demographic, and economic consequences for women, children, and societies. Women bear the brunt of domestic violence, including the associated health and psychological burdens. Furthermore, women may be socialized to accept, tolerate, or even rationalize domestic violence. The 2015-16 MDHS included a module of questions on women's experience of domestic violence. The module was implemented in a subsample of half of the interviewed households (the same subsample selected for the male survey). In accordance with the World Health Organization's guidelines on the ethical collection of information on domestic violence, only one eligible woman per household was randomly selected for the module, and the module was not implemented if privacy could not be obtained (WHO 2001). In total, 4,563 women received the domestic violence questions. Only $1 \%$ of women eligible for the domestic violence module could not be successfully interviewed with the module for privacy or other reasons.

### 16.1 Measurement of Violence

In the 2015-16 MDHS, information was obtained from never-married women on their experience of violence committed by anyone and from ever-married women on their experience of violence committed by their current and former husbands and by anyone else. Specifically, violence committed by the current
husband (for currently married women) and by the most recent husband (for formerly married women) was measured by asking all ever-married women if their husband ever did the following to them:

Physical spousal violence: push you, shake you, or throw something at you; slap you; twist your arm or pull your hair; punch you with his fist or with something that could hurt you; kick you, drag you, or beat you up; try to choke you or burn you on purpose; or threaten or attack you with a knife, gun, or any other weapon

Sexual spousal violence: physically force you to have sexual intercourse with him even when you did not want to, physically force you to perform any other sexual acts you did not want to, or force you with threats or in any other way to perform sexual acts you did not want to

Emotional spousal violence: say or do something to humiliate you in front of others, threaten to hurt or harm you or someone close to you, or insult you or make you feel bad about yourself

In addition, information was obtained from all women (married and unmarried) about physical violence committed by anyone (other than a current or most recent husband) since they were age 15 by asking if anyone had hit, slapped, kicked, or done something else to hurt them physically. Similarly, information was gathered from all women about experiences of sexual violence committed by anyone (other than a current or most recent husband) at any time in their life, as a child or as an adult, by asking if they were forced in any way to have sexual intercourse or perform any other sexual acts when they did not want to.

### 16.2 Experience of Physical Violence from Anyone

## Physical violence by anyone

Percentage of women who have experienced any physical violence (committed by a husband or anyone else) since age 15 and in the 12 months preceding the survey.
Sample: Women age 15-49

### 16.2.1 Prevalence of Physical Violence

Fifteen percent of women age 15-49 have experienced physical violence since age 15 , and $9 \%$ experienced physical violence during the 12 months preceding the survey. Two percent of women reported that they experienced physical violence often in the past 12 months (Table 16.1).

Among women age 15-49 who have ever been pregnant, $3 \%$ have experienced physical violence from anyone during a pregnancy (Table 16.2).

Patterns by background characteristics

- Divorced/separated/widowed women are more likely to have ever experienced physical violence (33\%) than never-married women (9\%) and married women (17\%) (Figure 16.1).
- The likelihood of experiencing physical violence increases with the number of living children. Twenty-eight percent of women with more than five children have experienced physical violence since age 15 , as compared with $11 \%$ of women who have no living children.
- By state and region, Tanintharyi Region and Rakhine State have the highest percentages of women who have ever experienced physical violence ( $30 \%$ and $27 \%$, respectively). Rakhine State also has the highest percentage of ever-pregnant women who have experienced violence during pregnancy (8\%).
- Women with more than a secondary education are much less likely ( $6 \%$ ) than women with a secondary education and those with no education to have experienced physical violence since age 15 ( $15 \%$ and $20 \%$, respectively). Women with no education are six times as likely to have experienced violence during pregnancy as women with more than a secondary education (Figure 16.2).
- Women's likelihood of experiencing physical violence decreases with increasing wealth, from a low of $9 \%$ among those in the highest wealth quintile to a high of $23 \%$ among those in the lowest quintile.

Figure 16.2 Violence during pregnancy by education

Percentage among women age 15-49 who have ever been pregnant


### 16.2.2 Perpetrators of Physical Violence

Among all women age 15-49 who had experienced physical violence since age 15, more than half (55\%) reported their current husband and $19 \%$ reported a former husband as the perpetrator (Table 16.3).

Sixty-seven percent of ever-married women reported their current husbands as perpetrators of physical violence, and $24 \%$ reported former husbands as perpetrators. Among never-married women, nearly all reported perpetrators were family members, including mothers or stepmothers, fathers or stepfathers, and other relatives. Only $1 \%$ of women reported that a current or former boyfriend perpetrated violence.

### 16.3 Experience of Sexual Violence

## Sexual violence

Percentage of women who have experienced any sexual violence (committed by a husband or anyone else) ever and in the 12 months preceding the survey.
Sample: Women age 15-49

### 16.3.1 Prevalence of Sexual Violence

Three percent of women age 15-49 have ever experienced sexual violence, and $2 \%$ experienced sexual violence during the 12 months preceding the survey (Table 16.4). Less than $1 \%$ of women first experienced sexual violence before age 18 (data not shown).

## Patterns by background characteristics

- As was the case for physical violence, divorced/separated/widowed women ( $10 \%$ ) were more likely to have ever experienced sexual violence than married women (3\%) and never-married women ( $<1 \%$ ).
- Women who have more than five children are more likely to have experienced sexual violence ( $6 \%$ ) than women with fewer children ( $1 \%$ to $4 \%$ ).
- The percentage of women who have ever experienced sexual violence ranges from a high of $10 \%$ in Kayah State and 9\% in Rakhine State to a low of 1\% each in Yangon Region and Mandalay Region. Seven percent of women in Rakhine State and 6\% of those in Kayah State reported having experienced sexual violence within the past 12 months.
- Women's likelihood of experiencing sexual violence declines with increasing education and wealth; $5 \%$ of women with no education and $4 \%$ of women in the lowest wealth quintile have ever experienced sexual violence, as compared with $1 \%$ each of women with more than a secondary education and women in the highest wealth quintile.


### 16.3.2 Perpetrators of Sexual Violence

Among ever-married women age 15-49 who had experienced sexual violence, $56 \%$ reported their current husband and $43 \%$ reported a former husband as the perpetrator. One percent of ever-married women reported that strangers were the perpetrators of sexual violence (Table 16.5). The number of never-married women who reported sexual violence was too small to allow an analysis of perpetrators.

### 16.4 Experience of Different Forms of Violence

Physical violence and sexual violence may not occur in isolation; rather, women may experience a combination of different forms of violence.

In Myanmar, $13 \%$ of women have experienced physical violence only, $1 \%$ have experienced sexual violence only, and $2 \%$ have experienced both physical and sexual violence. Overall, $16 \%$ of women age 15-49 have ever experienced physical or sexual violence. There are minimal variations in women's experience of physical or sexual violence by age; however, women age 18-19 are more likely than those age 15-17 to have experienced such violence ( $19 \%$ versus 13\%) (Table 16.6).

### 16.5 Marital Control

## Marital control

Percentage of women whose current husband (if currently married) or most recent husband (if formerly married) demonstrates at least one of the following controlling behaviors: 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, and insists on knowing where she is at all times.
Sample: Ever-married women age 15-49

One in 20 ever-married women have husbands who have ever displayed at least three types of marital control behaviors. The most common marital control behavior is jealousy or anger if the woman talks to other men, reported by $23 \%$ of women. Eleven percent of women report that their husbands insist on knowing where they are at all times. Women less commonly reported that their husbands frequently accuse them of being unfaithful (7\%), do not permit them to meet their female friends ( $6 \%$ ), or try to limit their contact with their own family (4\%) (Table 16.7).

## Patterns by background characteristics

- Most marital control behaviors are more common in the youngest age group: $10 \%$ of women age 1519 report that their husbands demonstrate three or more marital control behaviors, as compared with $6 \%$ of women age 40-49.
- A much higher proportion of divorced/separated/widowed women (16\%) than currently married women (4\%) report having experienced at least three marital control behaviors.
- Women's experience of marital control behaviors varies across states and regions. Ever-married women in Yangon Region are least likely to report that their husbands display at least three marital control behaviors (1\%), while women in Kachin State (10\%) are most likely to report such behaviors by their husbands.
- Women's experience of at least three marital control behaviors declines with increasing education. However, women with a secondary education are more likely than women in other education categories to report that their husbands are jealous or angry if they talk to other men (31\%) and that their husbands insist on knowing where they are at all times (15\%).


### 16.6 Spousal Violence

## Spousal violence

Percentage of women who have experienced any of the specified acts of physical, sexual, or emotional violence committed by their current husband (if currently married) or most recent husband (if formerly married), ever and in the 12 months preceding the survey.
Sample: Ever-married women age 15-49

### 16.6.1 Prevalence of Spousal Violence

More than one-fifth of ever-married women (21\%) have experienced spousal physical, sexual, or emotional violence, and $15 \%$ experienced such violence in the 12 months preceding the survey (Table 16.8).

Fifteen percent of women reported having ever experienced spousal physical violence, and $10 \%$ reported having experienced such violence in the past 12 months. Three percent reported that their husbands have
committed sexual violence, and $2 \%$ reported that they experienced sexual violence in the past 12 months. Spousal emotional violence was reported by $14 \%$ of women, and $10 \%$ reported such violence in the past 12 months.

Of the acts of physical violence committed by husbands, women most commonly reported that their husband slapped them (11\%) or pushed, shook, or threw something at them (10\%). One percent of women reported that their husband tried to choke and burn them on purpose, and $2 \%$ reported that their husband had threatened or attacked them with knives, guns, or other weapons. Women reporting sexual violence mostly reported that their husband physically forced them to have sexual intercourse with him when they did not want to. Overall, $12 \%$ of women reported that their husband insulted them or made them feel bad about themselves.

Women who were married more than once were also asked about spousal violence committed by any other husband. Seventeen percent of women have ever experienced spousal violence committed by any husband: $16 \%$ have experienced physical violence, and $4 \%$ have experienced sexual violence. During the 12 months preceding the survey, $11 \%$ of women experienced physical or sexual violence by any husband, current or previous (Table 16.8 and Table 16.11).

## Patterns by background characteristics

- The prevalence of spousal violence (physical, sexual, or emotional) generally declines with women's age, from a high of $28 \%$ among women age 15-19 to a low of $20 \%$ among women age 40-49 (Table 16.9).
- Divorced/separated/widowed women report a much higher frequency of spousal violence ( $42 \%$ ) than currently married women (19\%). This differential is not surprising because spousal violence is one of the major reasons for marriage dissolution.
- The prevalence of spousal violence is much higher among women with at least five children (32\%) than among women with $0-4$ children (1921\%).
- Spousal violence is most prevalent in Rakhine State (41\%) and Tanintharyi Region (40\%) and least prevalent in Yangon Region and Mandalay Region (12\% each) (Figure 16.3).
- Women's education is inversely correlated with the likelihood of spousal violence. Women with no education are more likely to have ever experienced physical, sexual, or emotional violence ( $24 \%$ ) than women with more than a

Figure 16.3 Spousal violence by states and regions
Percentage of ever-married women age 15-49 who have ever experienced physical, sexual, or emotional violence committed by their husband
 secondary education (13\%). The prevalence of spousal violence also declines with increasing household wealth.

- Husbands who have more than a secondary education (13\%) are less likely to commit spousal violence than husbands with less education (20-22\%) (Table 16.10). Notably, variations in spousal violence are somewhat greater by women's own education than by the education of their husband.
- Experience of spousal violence varies greatly with the level of husbands' alcohol consumption. Nearly half of women whose husbands are often drunk have experienced spousal violence, as compared with $12 \%$ of women whose husbands do not drink alcohol (Figure 16.4).
- The likelihood of experiencing spousal violence increases sharply with the number of marital control behaviors displayed by husbands: more than $70 \%$ of women whose husbands display three or more marital control behaviors have ever experienced spousal violence, compared with $13 \%$ of women whose husbands do not display any marital control behaviors.
- Women who participate in household decision making and who do not agree with any reason for wife beating have a much lower prevalence of spousal violence than women who participate in no household decisions and women who agree with most reasons for wife beating (a difference of about 9 percentage points for each).
- Intergenerational effects of spousal violence are evident in Myanmar. Women who report that their fathers beat their mothers are twice as likely ( $35 \%$ ) to have themselves experienced spousal violence than women who report that their fathers did not beat their mothers (17\%).
- Women's fear of their husband and spousal violence are correlated. Women who say that they are afraid of their husband most of the time are most likely to have ever experienced spousal violence ( $81 \%$ ), followed by women who are only sometimes afraid of their husbands ( $34 \%$ ). By contrast, only $14 \%$ of women who say that they are never afraid of their husband have experienced spousal violence.


### 16.6.2 Onset of Spousal Violence

Table $\mathbf{1 6 . 1 2}$ shows when spousal violence first occurred in relation to the start of marriage among women married only once. Among currently married women age 15-49 who have been married only once, $5 \%$ first experienced spousal violence within the first 2 years of marriage and $12 \%$ by 10 years of marriage.

### 16.7 Injuries due to Spousal Violence

## Injuries due to spousal violence

Percentage of women who have the following types of injuries from spousal violence: cuts, bruises, or aches; eye injuries, sprains, dislocations, or burns; or deep wounds, broken bones, broken teeth, or any other serious injury.
Sample: Ever-married women age 15-49 who have experienced physical or sexual violence committed by their current husband (if currently married) or their most recent husband (if formerly married)

Among ever-married women who have experienced any spousal physical or sexual violence, $37 \%$ have ever sustained an injury. The percentage who have been injured is slightly higher (39\%) among women who experienced physical or sexual violence in the past 12 months (Table 16.13).

Cuts, bruises, or aches are the most common types of injuries (31\%) reported by women who have experienced spousal physical or sexual violence. Nonetheless, a significant proportion of women who have experienced spousal violence also report having eye injuries, sprains, dislocations, or burns ( $16 \%$ ) and more serious injuries such as deep wounds, broken bones, and broken teeth (7\%).

### 16.8 Violence Initiated by Women against Husbands

In Myanmar, $8 \%$ of ever-married women have ever committed physical violence against their current or most recent husband when he was not already beating or physically hurting them. Six percent reported that they initiated violence within the past 12 months (Table 16.14 and Table 16.15).

## Patterns by background characteristics

- Women who have themselves experienced spousal violence are much more likely than women who have not to have ever initiated violence against their husbands. Twenty-three percent of women who have experienced spousal violence also perpetrated such violence, as compared with $6 \%$ who have never experienced spousal violence.
- By state and region, the proportion of women who have ever initiated violence against their husbands ranges from $2 \%$ in Yangon Region to $18-19 \%$ in Tanintharyi Region and Kayin State.
- Women who do not participate in decision making are less likely to initiate violence (4\%) than women who participate in decision making ( $9 \%$ ).
- Initiation of violence by women is more common among those who report that their father beat their mother ( $16 \%$ ) than among those with no such history (7\%).


### 16.9 Response to Violence

### 16.9.1 Help-seeking Behavior to Stop the Violence

In Myanmar, less than one-fourth ( $22 \%$ ) of women age 15-49 who have experienced physical or sexual violence from anyone have ever sought help from anyone, and more than one-third (37\%) have never sought help or told anyone about the violence (Table 16.16). Among women who have ever experienced sexual violence, 7 out of 10 have never sought help and never told anyone. Women who have faced both physical and sexual violence are more likely to seek help to stop the violence (28\%) (Figure 16.5).

## Patterns by background characteristics

- Help seeking is substantially lower among women age $15-19$; only $8 \%$ in this age group have ever sought help to stop the violence, as compared with $22-29 \%$ in other age groups.
- Help seeking in response to violence is less common among rural than urban women; $19 \%$ of rural women have ever sought help, compared with $32 \%$ of urban women.
- Women in Kayin State who have experienced violence are most likely to seek help (42\%), whereas women in Rakhine State are least likely to do so (9\%).
- Women's likelihood of seeking help increases with increasing education and is highest among those in the wealthiest households (32\%).


### 16.9.2 Sources for Help

Among women who have experienced physical or sexual violence and sought help, the most common source for help was their own family ( $53 \%$ ). The second most common source was neighbors ( $27 \%$ ). Only $1 \%$ of women sought help from the police. Three percent each sought help from a lawyer and a social work organization (Table 16.17).

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Table 16.1 Experience of physical violence
Percentage of women age 15-49 who have experienced physical violence since age 15 and percentage who experienced physical violence during the 12 months preceding the survey, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Percentage who have experienced physical violence since age $15^{1}$ | Percentage who experienced physical violence in the past 12 months |  |  | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Often | Sometimes | Often or sometimes ${ }^{2}$ |  |
| Age |  |  |  |  |  |
| 15-19 | 15.0 | 1.0 | 8.9 | 10.0 | 632 |
| 20-24 | 13.4 | 1.8 | 6.6 | 8.4 | 694 |
| 25-29 | 16.0 | 3.2 | 7.4 | 10.6 | 658 |
| 30-39 | 15.7 | 1.7 | 7.0 | 8.7 | 1,414 |
| 40-49 | 15.9 | 1.5 | 5.1 | 6.6 | 1,132 |
| Marital status |  |  |  |  |  |
| Never married | 8.7 | 0.3 | 3.9 | 4.2 | 1,471 |
| Married | 17.0 | 2.2 | 8.0 | 10.3 | 2,750 |
| Divorced/separated/ widowed | 32.9 | 4.8 | 9.5 | 14.3 | 309 |
| Number of living children |  |  |  |  |  |
| 0 | 10.7 | 0.9 | 5.4 | 6.3 | 1,836 |
| 1-2 | 17.4 | 2.4 | 7.3 | 9.8 | 1,631 |
| 3-4 | 17.7 | 2.0 | 7.3 | 9.2 | 804 |
| 5+ | 28.4 | 4.0 | 11.4 | 15.4 | 260 |
| Employment |  |  |  |  |  |
| Employed for cash | 15.5 | 1.6 | 7.0 | 8.6 | 2,998 |
| Employed not for cash | 13.0 | 2.5 | 5.8 | 8.4 | 306 |
| Not employed | 15.6 | 2.2 | 6.5 | 8.7 | 1,227 |
| Residence |  |  |  |  |  |
| Urban | 12.9 | 2.1 | 5.1 | 7.2 | 1,300 |
| Rural | 16.4 | 1.7 | 7.5 | 9.1 | 3,230 |
| States/Regions |  |  |  |  |  |
| Kachin | 23.9 | 2.1 | 16.3 | 18.4 | 128 |
| Kayah | 12.4 | 0.8 | 5.2 | 5.9 | 24 |
| Kayin | 18.2 | 1.9 | 6.0 | 8.0 | 114 |
| Chin | 12.6 | 0.6 | 6.0 | 6.6 | 35 |
| Sagaing | 17.3 | 1.9 | 7.6 | 9.5 | 527 |
| Tanintharyi | 29.8 | 3.2 | 8.6 | 11.8 | 95 |
| Bago | 14.7 | 2.3 | 7.8 | 10.1 | 462 |
| Magway | 18.0 | 1.4 | 11.4 | 12.8 | 380 |
| Mandalay | 9.1 | 0.4 | 2.7 | 3.1 | 550 |
| Mon | 16.1 | 1.3 | 5.3 | 6.9 | 159 |
| Rakhine | 26.8 | 2.8 | 14.0 | 16.8 | 267 |
| Yangon | 8.4 | 1.3 | 2.7 | 3.9 | 664 |
| Shan | 10.0 | 1.2 | 4.9 | 6.1 | 444 |
| Ayeyarwady | 19.5 | 3.4 | 6.9 | 10.3 | 574 |
| Nay Pyi Taw | 20.7 | 1.8 | 8.8 | 10.6 | 108 |
| Education ${ }^{3}$ |  |  |  |  |  |
| No education | 20.4 | 1.6 | 8.1 | 9.7 | 534 |
| Primary | 16.6 | 2.4 | 6.7 | 9.1 | 1,865 |
| Secondary | 14.7 | 1.7 | 7.4 | 9.1 | 1,693 |
| More than secondary | 6.4 | 0.0 | 3.1 | 3.1 | 435 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 22.6 | 2.7 | 11.7 | 14.4 | 825 |
| Second | 18.4 | 2.3 | 7.9 | 10.3 | 854 |
| Middle | 15.2 | 1.6 | 5.6 | 7.2 | 924 |
| Fourth | 12.7 | 1.0 | 6.4 | 7.4 | 915 |
| Highest | 9.4 | 1.5 | 3.3 | 4.8 | 1,012 |
| Total | 15.4 | 1.8 | 6.8 | 8.6 | 4,530 |

${ }^{1}$ 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
${ }^{2}$ Includes women for whom frequency in the past 12 months is not known
${ }^{3}$ Total includes two women with missing information on education.

## Table 16.2 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, Myanmar DHS 2015-16

|  | Percentage who | Number of |
| :--- | :---: | :---: |
| experienced | women who |  |
| Background | violence during | have ever been |
| characteristic | pregnancy | pregnant |

Age

| Age |  |  |
| :--- | :---: | ---: |
| $15-19$ | $(2.4)$ | 41 |
| $20-24$ | 5.1 | 263 |
| $25-29$ | 3.6 | 429 |
| $30-39$ | 2.7 | 1,120 |
| $40-49$ | 3.7 | 943 |


| Marital status |  |  |
| :--- | :--- | ---: |
| $\quad$ Never married | $*$ |  |
| Married | 2.8 | 2,534 |
| Divorced/separated/widowed | 9.0 | 262 |


| Number of living children |  |  |
| :--- | ---: | ---: |
| 0 | 5.3 | 103 |
| $1-2$ | 2.3 | 1,631 |


| $3-4$ | 3.8 | 804 |
| :--- | :--- | ---: |
| $5+$ | 8.4 | 260 |


| Residence |  |  |
| :--- | ---: | ---: |
| Urban | 3.3 | 723 |
| Rural | 3.4 | 2,074 |


| States/Regions |  |  |
| :--- | ---: | ---: |
| Kachin | 5.9 | 89 |
| Kayah | 3.3 | 15 |
| Kayin | 5.6 | 85 |
| Chin | 4.5 | 24 |
| Sagaing | 3.0 | 308 |
| Tanintharyi | 4.0 | 58 |
| Bago | 2.5 | 287 |
| Magway | 4.6 | 234 |
| Mandalay | 2.4 | 308 |
| Mon | 2.6 | 93 |
| Rakhine | 7.5 | 172 |
| Yangon | 1.0 | 368 |
| Shan | 0.9 | 295 |
| Ayeyarwady | 5.4 | 391 |
| Nay Pyi Taw | 5.0 | 70 |


| Education |  |  |
| :--- | ---: | ---: |
|  |  |  |
| No education |  |  |
| Primary | 5.5 | 434 |
| Secondary | 3.6 | 1,370 |
| More than secondary | 2.5 | 790 |
| Wealth quintile | 0.8 | 200 |
| Lowest |  |  |
| Second | 4.8 | 618 |
| Middle | 4.5 | 594 |
| Fourth | 3.9 | 543 |
| Highest | 1.7 | 521 |
| Total | 1.6 | 521 |

[^27]Table 16.3 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, Myanmar DHS 2015-16

|  | Marital status |  |  |
| :--- | ---: | :---: | ---: |
|  | Ever <br> married | Never <br> married | Total |
| Person | 66.8 | na | 54.5 |
| Current husband | 23.6 | na | 19.2 |
| Former husband | 6.0 | 33.8 | 11.1 |
| Father/stepfather | 3.3 | 43.6 | 10.7 |
| Mother/stepmother | 4.4 | 17.8 | 6.9 |
| Sister/brother <br> Current boyfriend/former <br> boyfriend | 1.1 | 0.7 | 1.0 |
| Other relatives | 12.4 | 16.1 | 13.1 |
| Other | 0.9 | 6.0 | 1.9 |
| Number of women who have <br> experienced physical <br> violence since age 15 |  |  |  |

Note: Women can report more than one person who committed the violence.
na $=$ Not applicable

Table 16.4 Experience of sexual violence
Percentage of women age 15-49 who have ever experienced sexual violence and percentage who experienced sexual violence in the 12 months preceding the survey, by background characteristics, Myanmar DHS 2015-16

|  |  |  |  |
| :--- | :--- | :--- | ---: |
|  | Percentage who have <br> experienced sexual <br> violence: |  |  |
|  | Past 12 |  |  | Number of

${ }^{1}$ Includes violence in the past 12 months
${ }_{2}$ Total includes two women with missing information on education.

Table 16.5 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, Myanmar DHS 201516

|  | Marital status |  |  |
| :--- | :---: | :---: | :---: |
| Person | Ever <br> married | Never <br> married | Total |
| Current husband | 55.5 | na | 53.0 |
| Former husband | 42.6 | na | 40.7 |
| Current/former boyfriend | 5.4 | $*$ | 6.3 |
| Father/stepfather | 2.3 | $*$ | 2.2 |
| Brother/stepbrother | 0.0 | $*$ | 0.1 |
| Other relative | 2.4 | $*$ | 4.5 |
| In-law | 0.1 | na | 0.1 |
| Own friend/acquaintance | 2.3 | $*$ | 2.3 |
| Family friend | 0.0 | $*$ | 0.2 |
| Employer/someone at work | 1.6 | $*$ | 1.5 |
| Stranger | 1.1 | $*$ | 1.2 |
| Missing | 0.1 | $*$ | 0.8 |
| $\quad$ Number of women who have |  |  |  |
| $\quad$ experienced sexual violence | 116 | 6 | 122 |

Note: Women can report more than one person who committed the violence. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed
na $=$ Not applicable

Table 16.6 Experience of different forms of violence
Percentage of women age 15-49 who have ever experienced different forms of violence, by current age, Myanmar DHS 2015-16

|  | Physical <br> violence <br> only | Sexual <br> violence <br> only | Physical and <br> sexual <br> violence | Physical or <br> sexual <br> violence | Number of <br> women |
| :--- | :---: | :---: | :---: | :---: | :---: |
| $15-19$ | 14.5 | 0.5 | 0.5 | 15.5 | 632 |
| $15-17$ | 13.1 | 0.4 | 0.0 | 13.4 | 389 |
| $18-19$ | 16.7 | 0.8 | 1.3 | 18.8 | 243 |
| $20-24$ | 12.1 | 1.8 | 1.3 | 15.2 | 694 |
| $25-29$ | 13.5 | 0.6 | 2.5 | 16.7 | 658 |
| $30-39$ | 14.2 | 0.5 | 1.6 | 16.3 | 1,414 |
| $40-49$ | 12.7 | 0.6 | 3.3 | 16.5 | 1,132 |
| Total | 13.4 | 0.7 | 1.9 | 16.1 | 4,530 |

Table 16.7 Marital control exercised by husbands
Percentage of ever-married women age 15-49 whose husbands have ever demonstrated specific types of controlling behaviors, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Percentage of women whose husband: |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 | Displays 3 or more of the specific behaviors | Displays none of the specific behaviors | Number of evermarried women |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 30.8 | 10.6 | 11.6 | 8.4 | 14.9 | 10.4 | 67.9 | 91 |
| 20-24 | 31.0 | 7.6 | 7.7 | 5.4 | 14.5 | 7.0 | 60.8 | 337 |
| 25-29 | 27.0 | 6.6 | 9.0 | 5.8 | 11.7 | 5.7 | 64.2 | 486 |
| 30-39 | 20.6 | 5.7 | 5.1 | 2.8 | 12.8 | 4.4 | 72.0 | 1,171 |
| 40-49 | 18.7 | 7.6 | 5.3 | 2.9 | 7.6 | 5.6 | 76.8 | 973 |
| Marital status |  |  |  |  |  |  |  |  |
| Married | 21.2 | 5.7 | 5.0 | 2.5 | 10.8 | 4.3 | 72.2 | 2,750 |
| Divorced/separated/ widowed | 33.9 | 16.4 | 17.3 | 14.9 | 15.1 | 15.5 | 59.4 | 309 |
| Number of living children |  |  |  |  |  |  |  |  |
| 0 | 33.1 | 6.1 | 10.6 | 6.5 | 14.2 | 6.3 | 61.6 | 365 |
| 1-2 | 22.2 | 6.7 | 5.4 | 3.3 | 11.2 | 5.0 | 71.1 | 1,631 |
| 3-4 | 17.4 | 6.1 | 5.2 | 3.8 | 11.1 | 4.5 | 74.4 | 804 |
| 5+ | 24.8 | 10.4 | 8.9 | 3.0 | 7.7 | 9.6 | 72.0 | 260 |
| Employment |  |  |  |  |  |  |  |  |
| Employed for cash | 21.9 | 6.9 | 6.5 | 3.8 | 11.2 | 5.6 | 71.1 | 2,030 |
| Employed not for cash | 23.0 | 6.1 | 9.1 | 5.5 | 11.6 | 5.2 | 71.5 | 166 |
| Not employed | 23.8 | 6.8 | 5.2 | 3.3 | 11.1 | 5.1 | 70.5 | 863 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 27.7 | 6.6 | 8.3 | 4.1 | 13.5 | 6.9 | 64.6 | 796 |
| Rural | 20.6 | 6.9 | 5.6 | 3.6 | 10.4 | 4.9 | 73.2 | 2,262 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | 25.3 | 5.9 | 11.5 | 6.8 | 22.5 | 10.2 | 61.4 | 91 |
| Kayah | 32.3 | 12.6 | 12.4 | 4.8 | 24.4 | 7.9 | 52.4 | 15 |
| Kayin | 24.1 | 8.6 | 2.8 | 2.5 | 11.5 | 4.9 | 69.7 | 88 |
| Chin | 19.8 | 9.7 | 7.9 | 4.5 | 8.1 | 8.2 | 76.0 | 25 |
| Sagaing | 21.5 | 8.4 | 8.8 | 4.8 | 7.2 | 5.8 | 73.4 | 324 |
| Tanintharyi | 28.0 | 12.5 | 4.8 | 2.0 | 17.8 | 6.3 | 62.6 | 62 |
| Bago | 28.6 | 5.7 | 5.5 | 5.6 | 16.1 | 5.0 | 62.9 | 330 |
| Magway | 19.0 | 9.9 | 5.8 | 3.4 | 9.2 | 7.4 | 77.2 | 252 |
| Mandalay | 23.0 | 4.0 | 3.6 | 2.9 | 5.9 | 2.9 | 72.4 | 339 |
| Mon | 28.9 | 12.4 | 4.1 | 2.9 | 12.4 | 6.5 | 65.9 | 104 |
| Rakhine | 26.5 | 10.7 | 7.4 | 7.2 | 9.1 | 7.2 | 66.7 | 191 |
| Yangon | 16.2 | 2.4 | 3.4 | 0.0 | 7.4 | 1.4 | 79.0 | 414 |
| Shan | 21.7 | 5.6 | 5.0 | 2.9 | 14.2 | 5.3 | 71.5 | 325 |
| Ayeyarwady | 21.7 | 7.6 | 10.3 | 5.2 | 14.0 | 8.3 | 69.3 | 416 |
| Nay Pyi Taw | 21.2 | 6.9 | 8.1 | 4.1 | 12.7 | 4.6 | 70.7 | 79 |
| Education ${ }^{1}$ |  |  |  |  |  |  |  |  |
| No education | 17.1 | 8.5 | 7.4 | 3.8 | 7.6 | 6.0 | 76.6 | 467 |
| Primary | 19.1 | 7.1 | 5.5 | 3.4 | 10.3 | 5.5 | 75.0 | 1,470 |
| Secondary | 31.1 | 6.8 | 7.3 | 5.1 | 14.9 | 6.1 | 61.3 | 897 |
| More than secondary | 21.4 | 1.4 | 4.3 | 0.9 | 9.6 | 1.5 | 70.8 | 222 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 20.6 | 8.8 | 6.6 | 2.9 | 10.3 | 6.3 | 72.9 | 674 |
| Second | 24.7 | 8.2 | 7.4 | 5.3 | 12.3 | 6.0 | 69.0 | 629 |
| Middle | 17.5 | 6.3 | 5.9 | 3.3 | 9.9 | 5.6 | 76.5 | 605 |
| Fourth | 25.5 | 6.0 | 5.1 | 4.2 | 10.2 | 4.7 | 68.2 | 576 |
| Highest | 24.4 | 4.4 | 6.2 | 3.2 | 13.5 | 4.4 | 67.7 | 575 |
| Woman afraid of husband ${ }^{2}$ Afraid most of the |  |  |  |  |  |  |  |  |
| Sometimes afraid | 29.4 | 11.8 | 9.0 | 5.1 | 14.6 | 8.7 | 62.7 | 657 |
| Never afraid | 18.7 | 4.3 | 4.3 | 1.9 | 9.5 | 3.1 | 75.2 | 2,289 |
| Total | 22.5 | 6.8 | 6.3 | 3.8 | 11.2 | 5.4 | 70.9 | 3,059 |

Note: Husband refers to the current husband for currently married women and the most recent husband for divorced, separated, or widowed women.
${ }^{1}$ Total includes two women with missing information on education.
${ }^{2}$ Total includes two women with missing information on whether they are afraid of their husband.

## Table 16.8 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, Myanmar DHS 2015-16

| Type of violence | Ever | In the past 12 months |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Often | Sometimes | Often or sometimes |
| Physical violence |  |  |  |  |
| Any physical violence | 15.4 | 2.4 | 7.8 | 10.2 |
| Pushed her, shook her, or threw something at her | 9.6 | 1.5 | 5.0 | 6.5 |
| Slapped her | 11.0 | 1.3 | 5.8 | 7.0 |
| Twisted her arm or pulled her hair | 4.1 | 0.6 | 1.9 | 2.5 |
| Punched her with his fist or with something that could hurt her | 6.0 | 1.1 | 2.8 | 3.9 |
| Kicked her, dragged her, or beat her up | 3.6 | 0.6 | 1.7 | 2.3 |
| Tried to choke her or burn her on purpose | 0.8 | 0.2 | 0.4 | 0.6 |
| Threatened her or attacked her with a knife, gun, or other weapon | 1.6 | 0.2 | 0.9 | 1.1 |
| Sexual violence |  |  |  |  |
| Any sexual violence | 3.0 | 0.6 | 1.6 | 2.2 |
| Physically forced her to have sexual intercourse with him when she did not want to | 2.9 | 0.5 | 1.5 | 2.1 |
| Physically forced her to perform any other sexual acts she did not want to | 1.0 | 0.3 | 0.4 | 0.7 |
| Forced her with threats or in any other way to perform sexual acts she did not want to | 0.5 | 0.1 | 0.2 | 0.2 |
| Emotional violence |  |  |  |  |
| Any emotional violence | 13.5 | 3.9 | 6.3 | 10.2 |
| Said or did something to humiliate her in front of others | 6.2 | 1.6 | 2.6 | 4.3 |
| Threatened to hurt or harm her or someone she cared about | 3.5 | 0.9 | 1.7 | 2.6 |
| Insulted her or made her feel bad about herself | 11.6 | 3.4 | 5.5 | 8.9 |
| Any form of physical and/or sexual violence | 16.3 | 2.7 | 8.3 | 11.0 |
| Any form of emotional and/or physical and/or sexual violence | 20.9 | 5.1 | 9.9 | 15.0 |
| Spousal violence committed by any husband |  |  |  |  |
| Physical violence | 16.3 | na | na | 10.2 |
| Sexual violence | 3.5 | na | na | 2.2 |
| Physical and/or sexual violence | 17.3 | na | na | 11.0 |
| Number of ever-married women | 3,059 | 3,059 | 3,059 | 3,059 |

na $=$ Not applicable

Table 16.9 Spousal violence by background characteristics
Percentage of ever-married women age 15-49 who have ever experienced emotional, physical, or sexual violence committed by their husband, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Emotional violence | Physical violence | Sexual violence | Physical and sexual | Physical and sexual and emotional | Physical or sexual | Physical or sexual or emotional | Number of evermarried women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 19.0 | 22.5 | 5.0 | 3.6 | 3.6 | 24.0 | 28.1 | 91 |
| 20-24 | 12.1 | 15.7 | 3.7 | 1.7 | 1.5 | 17.8 | 20.6 | 337 |
| 25-29 | 16.8 | 16.7 | 3.1 | 2.4 | 1.9 | 17.5 | 24.0 | 486 |
| 30-39 | 12.3 | 14.9 | 2.0 | 1.3 | 1.0 | 15.6 | 20.1 | 1,171 |
| 40-49 | 13.4 | 14.6 | 3.5 | 2.8 | 2.8 | 15.4 | 19.6 | 973 |
| Marital status |  |  |  |  |  |  |  |  |
| Married | 10.9 | 13.7 | 2.3 | 1.5 | 1.2 | 14.5 | 18.5 | 2,750 |
| Divorced/separated/ widowed | 36.7 | 30.8 | 8.5 | 7.1 | 7.1 | 32.2 | 42.2 | 309 |
| Number of living children |  |  |  |  |  |  |  |  |
| 0 | 14.0 | 16.5 | 2.6 | 1.9 | 1.9 | 17.2 | 21.4 | 365 |
| 1-2 | 12.7 | 13.8 | 2.7 | 1.8 | 1.5 | 14.8 | 19.3 | 1,631 |
| 3-4 | 12.0 | 15.1 | 2.8 | 2.0 | 1.9 | 15.9 | 20.3 | 804 |
| 5+ | 22.5 | 24.7 | 5.9 | 4.2 | 3.7 | 26.4 | 31.8 | 260 |
| Employment |  |  |  |  |  |  |  |  |
| Employed for cash | 14.7 | 16.2 | 3.1 | 2.2 | 2.0 | 17.1 | 22.3 | 2,030 |
| Employed not for cash | 15.0 | 16.5 | 1.5 | 0.5 | 0.5 | 17.4 | 20.5 | 166 |
| Not employed | 10.4 | 13.4 | 3.0 | 2.1 | 1.7 | 14.3 | 17.4 | 863 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 13.7 | 13.6 | 3.2 | 2.5 | 2.4 | 14.3 | 19.1 | 796 |
| Rural | 13.5 | 16.0 | 2.9 | 1.9 | 1.6 | 17.0 | 21.5 | 2,262 |
| States/Regions |  |  |  |  |  |  |  |  |
| Kachin | 17.1 | 24.4 | 2.2 | 1.6 | 1.6 | 25.0 | 32.0 | 91 |
| Kayah | 25.3 | 12.7 | 10.9 | 5.0 | 5.0 | 18.5 | 28.8 | 15 |
| Kayin | 22.5 | 18.7 | 3.7 | 3.5 | 3.1 | 19.0 | 26.4 | 88 |
| Chin | 14.3 | 10.7 | 2.2 | 1.5 | 1.5 | 11.5 | 18.9 | 25 |
| Sagaing | 16.3 | 19.4 | 3.5 | 2.7 | 2.4 | 20.2 | 25.2 | 324 |
| Tanintharyi | 27.7 | 28.7 | 11.1 | 6.2 | 5.3 | 33.7 | 39.9 | 62 |
| Bago | 10.4 | 15.1 | 1.2 | 0.9 | 0.9 | 15.4 | 18.6 | 330 |
| Magway | 13.0 | 21.2 | 2.5 | 2.5 | 2.5 | 21.2 | 24.1 | 252 |
| Mandalay | 8.6 | 7.1 | 0.3 | 0.3 | 0.3 | 7.1 | 12.2 | 339 |
| Mon | 19.5 | 12.8 | 3.6 | 2.4 | 2.4 | 13.9 | 23.7 | 104 |
| Rakhine | 25.1 | 31.3 | 11.5 | 7.0 | 5.1 | 35.8 | 41.1 | 191 |
| Yangon | 6.2 | 9.3 | 0.9 | 0.6 | 0.6 | 9.7 | 11.7 | 414 |
| Shan | 12.9 | 7.7 | 3.1 | 1.6 | 1.6 | 9.2 | 15.4 | 325 |
| Ayeyarwady | 13.3 | 16.0 | 3.0 | 2.4 | 2.1 | 16.7 | 19.8 | 416 |
| Nay Pyi Taw | 16.6 | 20.4 | 1.4 | 0.4 | 0.4 | 21.5 | 27.8 | 79 |
| Education ${ }^{1}$ |  |  |  |  |  |  |  |  |
| No education | 17.4 | 17.1 | 3.9 | 3.2 | 3.1 | 17.8 | 23.5 | 467 |
| Primary | 13.1 | 16.5 | 3.1 | 2.0 | 1.6 | 17.5 | 22.0 | 1,470 |
| Secondary | 13.5 | 14.9 | 2.8 | 1.9 | 1.8 | 15.9 | 19.5 | 897 |
| More than secondary | 8.6 | 6.8 | 1.0 | 0.3 | 0.3 | 7.5 | 13.3 | 222 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 16.9 | 21.7 | 3.7 | 2.4 | 2.2 | 23.1 | 28.5 | 674 |
| Second | 16.5 | 18.2 | 4.0 | 3.0 | 2.5 | 19.2 | 23.6 | 629 |
| Middle | 11.5 | 14.7 | 3.9 | 2.9 | 2.6 | 15.7 | 18.9 | 605 |
| Fourth | 11.1 | 11.3 | 1.7 | 1.1 | 1.0 | 11.9 | 16.4 | 576 |
| Highest | 10.9 | 9.9 | 1.2 | 0.7 | 0.7 | 10.4 | 15.3 | 575 |
| Total | 13.5 | 15.4 | 3.0 | 2.0 | 1.8 | 16.3 | 20.9 | 3,059 |

Note: Husband refers to the current husband for currently married women and the most recent husband for divorced, separated, or widowed women
${ }^{1}$ Total includes two women with missing information on education.

Table 16.10 Spousal violence by husband's characteristics and empowerment indicators
Percentage of ever-married women age15-49 who have ever experienced emotional, physical, or sexual violence committed by their husband, by husband's characteristics and empowerment indicators, Myanmar DHS 2015-16

| Background characteristic | Emotional violence | Physical violence | Sexual violence | Physical and sexual | Physical and sexual and emotional | Physical or sexual | Physical or sexual or emotional | Number of evermarried women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Husband's education ${ }^{1}$ |  |  |  |  |  |  |  |  |
| No education | 15.4 | 14.9 | 4.0 | 2.9 | 2.8 | 16.0 | 21.9 | 482 |
| Primary | 13.7 | 16.5 | 3.1 | 2.1 | 1.8 | 17.5 | 21.9 | 1,229 |
| Secondary | 13.3 | 15.3 | 3.0 | 2.0 | 1.8 | 16.2 | 20.4 | 1,101 |
| More than secondary | 10.5 | 8.9 | 0.1 | 0.0 | 0.0 | 9.0 | 12.8 | 177 |
| Husband's alcohol consumption |  |  |  |  |  |  |  |  |
| Does not drink alcohol | 6.7 | 9.4 | 1.7 | 1.0 | 0.9 | 10.1 | 12.2 | 1,627 |
| Drinks alcohol but is never drunk | 21.9 | 16.2 | 1.9 | 0.0 | 0.0 | 18.0 | 26.9 | 63 |
| Is sometimes drunk | 13.4 | 15.9 | 2.8 | 1.3 | 1.0 | 17.4 | 23.2 | 964 |
| Is often drunk | 39.8 | 38.3 | 8.6 | 8.0 | 7.8 | 38.9 | 49.1 | 404 |
| Spousal education difference ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Husband has more education | 14.4 | 16.2 | 3.4 | 2.4 | 1.9 | 17.3 | 22.0 | 1,232 |
| Wife has more education | 13.2 | 14.5 | 2.7 | 1.6 | 1.6 | 15.5 | 20.3 | 977 |
| Both have equal education | 11.4 | 14.8 | 2.0 | 1.4 | 1.4 | 15.4 | 18.8 | 549 |
| Neither has any education | 17.0 | 16.0 | 4.6 | 4.1 | 3.9 | 16.5 | 22.0 | 229 |
| Spousal age difference ${ }^{3}$ |  |  |  |  |  |  |  |  |
| Wife older | 10.7 | 9.9 | 2.4 | 1.0 | 1.0 | 11.3 | 15.5 | 602 |
| Wife is same age | 12.5 | 15.1 | 1.4 | 1.4 | 1.4 | 15.1 | 20.8 | 320 |
| Wife 1-4 years younger | 11.4 | 14.5 | 2.1 | 1.1 | 0.9 | 15.5 | 19.5 | 1,014 |
| Wife 5-9 years younger | 9.4 | 14.6 | 3.0 | 2.2 | 1.9 | 15.5 | 18.1 | 546 |
| Wife 10 or more years younger | 10.9 | 15.5 | 2.9 | 2.7 | 1.6 | 15.7 | 18.9 | 268 |
| Number of marital control behaviors displayed by husband ${ }^{4}$ |  |  |  |  |  |  |  |  |
| 0 | 6.4 | 9.1 | 1.0 | 0.5 | 0.3 | 9.6 | 12.6 | 2,170 |
| 1-2 | 22.9 | 23.5 | 4.4 | 2.8 | 2.4 | 25.1 | 33.2 | 723 |
| 3-4 | 65.2 | 62.3 | 21.4 | 18.1 | 17.1 | 65.6 | 74.8 | 133 |
| 5 | (71.8) | (66.7) | (29.7) | (25.5) | (25.5) | (70.9) | (72.0) | 33 |
| Number of decisions in which women participate ${ }^{5}$ |  |  |  |  |  |  |  |  |
| 0 | 12.0 | 20.2 | 6.5 | 5.8 | 3.5 | 20.9 | 25.3 | 122 |
| 1-2 | 12.8 | 15.8 | 2.6 | 1.7 | 1.6 | 16.6 | 21.4 | 845 |
| 3 | 10.0 | 12.2 | 1.9 | 1.1 | 0.9 | 13.1 | 16.6 | 1,782 |
| Number of reasons for which wife beating is justified ${ }^{6}$ |  |  |  |  |  |  |  |  |
| 0 | 11.8 | 13.1 | 2.3 | 1.6 | 1.6 | 13.7 | 17.8 | 1,493 |
| 1-2 | 16.2 | 18.0 | 3.7 | 2.6 | 2.2 | 19.0 | 24.0 | 1,151 |
| 3-4 | 11.5 | 16.0 | 3.3 | 1.8 | 1.6 | 17.6 | 22.3 | 342 |
| 5 | 16.4 | 19.7 | 3.2 | 2.4 | 2.4 | 20.5 | 26.8 | 73 |
| Woman's father beat her mother |  |  |  |  |  |  |  |  |
| Yes | 24.2 | 27.4 | 5.8 | 4.4 | 4.3 | 28.8 | 35.2 | 552 |
| No | 10.7 | 12.3 | 2.2 | 1.3 | 1.0 | 13.1 | 17.2 | 2,360 |
| Don't know | 19.0 | 20.6 | 5.6 | 5.3 | 5.3 | 20.9 | 26.4 | 147 |
| Woman afraid of husband ${ }^{7}$ |  |  |  |  |  |  |  |  |
| Afraid most of the time | 67.8 | 63.8 | 23.2 | 19.5 | 17.9 | 67.5 | 80.7 | 111 |
| Sometimes afraid | 22.4 | 27.2 | 4.9 | 3.2 | 2.7 | 28.8 | 34.4 | 657 |
| Never afraid | 8.4 | 9.7 | 1.4 | 0.9 | 0.8 | 10.3 | 14.1 | 2,289 |
| Total | 13.5 | 15.4 | 3.0 | 2.0 | 1.8 | 16.3 | 20.9 | 3,059 |

Note: Husband refers to the current husband for currently married women and the most recent husband for divorced, separated, or widowed women. Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Total includes 69 women with missing information on husband's education.
${ }^{2}$ Total includes 69 women with missing information on husband's education and two women with missing information on their education.
${ }^{3}$ Includes only currently married women
${ }^{4}$ According to the wife's report. See Table 16.7 for list of behaviors.
${ }^{5}$ According to the wife's report. See Table 15.6 .1 for list of decisions. Excludes decision on well-being of children. Includes only currently married women.
${ }^{6}$ According to the wife's report. See Table 15.7.1 for list of reasons. Excludes the reasons refusal of contraception and involvement in social activities.
${ }^{7}$ Total includes two women with missing information on whether they are afraid of their husband.

## Table 16.11 Physical or sexual violence in the past 12 months by any husband

Percentage of ever-married women who experienced physical or sexual violence by any husband in the past 12 months, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Percentage of women who experienced physical or sexual violence in the past 12 months from any husband | Number of evermarried women |
| :---: | :---: | :---: |


| Age |  |  |
| :---: | :---: | :---: |
| 15-19 | 21.8 | 91 |
| 20-24 | 14.0 | 337 |
| 25-29 | 13.3 | 486 |
| 30-39 | 10.8 | 1,171 |
| 40-49 | 8.2 | 973 |
| Marital status |  |  |
| Married | 10.7 | 2,750 |
| Divorced/separated/ widowed | 14.1 | 309 |
| Number of living children |  |  |
| 0 | 14.5 | 365 |
| 1-2 | 10.0 | 1,631 |
| 3-4 | 9.8 | 804 |
| 5+ | 16.9 | 260 |
| Employment |  |  |
| Employed for cash | 11.4 | 2,030 |
| Employed not for cash | 13.4 | 166 |
| Not employed | 9.8 | 863 |
| Residence |  |  |
| Urban | 8.9 | 796 |
| Rural | 11.8 | 2,262 |
| States/Regions |  |  |
| Kachin | 22.5 | 91 |
| Kayah | 12.2 | 15 |
| Kayin | 9.9 | 88 |
| Chin | 8.0 | 25 |
| Sagaing | 13.2 | 324 |
| Tanintharyi | 17.3 | 62 |
| Bago | 11.2 | 330 |
| Magway | 14.7 | 252 |
| Mandalay | 3.2 | 339 |
| Mon | 9.3 | 104 |
| Rakhine | 26.5 | 191 |
| Yangon | 5.0 | 414 |
| Shan | 7.4 | 325 |
| Ayeyarwady | 11.9 | 416 |
| Nay Pyi Taw | 14.8 | 79 |
| Education ${ }^{1}$ |  |  |
| No education | 10.8 | 467 |
| Primary | 11.8 | 1,470 |
| Secondary | 11.7 | 897 |
| More than secondary | 4.0 | 222 |
| Wealth quintile |  |  |
| Lowest | 16.8 | 674 |
| Second | 12.9 | 629 |
| Middle | 10.0 | 605 |
| Fourth | 7.4 | 576 |
| Highest | 7.0 | 575 |
| Woman afraid of husband ${ }^{2}$ |  |  |
| Afraid most of the time | 48.9 | 111 |
| Sometimes afraid | 19.1 | 657 |
| Never afraid | 6.9 | 2,289 |
| Total | 11.0 | 3,059 |

Note: Any husband includes all current, most recent, and former husbands
${ }^{1}$ Total includes two women with missing information on education.
${ }^{2}$ Total includes two women with missing information on whether they are afraid of their husband

Table 16.12 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 by specific exact years since marriage, according to marital duration, Myanmar DHS 2015-16

| 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 |  |  |
| Years since marriage |  |  |  |  |  |  |
| <2 | 0.7 | na | na | na | 89.4 | 193 |
| 2-4 | 1.5 | 9.4 | na | na | 86.7 | 325 |
| 5-9 | 0.5 | 4.8 | 12.0 | na | 85.7 | 533 |
| 10+ | 0.2 | 4.1 | 9.5 | 11.6 | 85.4 | 1,551 |
| Total | 0.5 | 5.4 | 10.6 | 12.3 | 85.9 | 2,602 |

na $=$ Not applicable

## Table 16.13 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, Myanmar DHS 2015-16
$\left.\begin{array}{lllll}\hline & & & & \begin{array}{c}\text { Number of } \\ \text { ever-married } \\ \text { women who } \\ \text { have ever }\end{array} \\ \text { experienced } \\ \text { any physical } \\ \text { or sexual } \\ \text { violence }\end{array}\right]$

Note: Husband refers to the current husband for currently married women and the most recent husband for divorced, separated, or widowed women.
${ }^{1}$ Excludes women who reported violence only in response to a direct question on violence during pregnancy
${ }^{2}$ Includes in the past 12 months

Table 16.14 Women's violence against their spouse by background characteristics
Percentage of ever-married women age 15-49 who have committed physical violence against their current or most recent husband 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, Myanmar DHS 2015-16

| Background characteristic | Percentage who have committed physical violence against their husband |  | Number of evermarried women |
| :---: | :---: | :---: | :---: |
|  | Ever ${ }^{1}$ | Past 12 months |  |
| Woman's experience of spousal physical violence |  |  |  |
| Ever ${ }^{1}$ | 22.6 | 14.7 | 471 |
| In the past 12 months | 24.7 | 20.6 | 312 |
| Never | 5.8 | 4.2 | 2,587 |
| Age |  |  |  |
| 15-19 | 7.7 | 7.7 | 91 |
| 20-24 | 7.5 | 5.9 | 337 |
| 25-29 | 10.0 | 7.4 | 486 |
| 30-39 | 7.9 | 5.5 | 1,171 |
| 40-49 | 8.6 | 5.4 | 973 |
| Marital status |  |  |  |
| Married | 8.3 | 6.2 | 2,750 |
| Divorced/separated/widowed | 9.0 | 3.1 | 309 |
| Employment |  |  |  |
| Employed for cash | 8.5 | 5.8 | 2,030 |
| Employed not for cash | 7.0 | 4.5 | 166 |
| Not employed | 8.5 | 6.3 | 863 |
| Number of living children |  |  |  |
| 0 | 7.3 | 5.9 | 365 |
| 1-2 | 8.2 | 5.8 | 1,631 |
| 3-4 | 8.0 | 5.5 | 804 |
| 5+ | 12.4 | 7.2 | 260 |
| Residence |  |  |  |
| Urban | 7.8 | 5.6 | 796 |
| Rural | 8.6 | 5.9 | 2,262 |
| States/Regions |  |  |  |
| Kachin | 11.7 | 11.4 | 91 |
| Kayah | 4.4 | 2.8 | 15 |
| Kayin | 19.3 | 13.3 | 88 |
| Chin | 4.6 | 3.9 | 25 |
| Sagaing | 10.1 | 6.4 | 324 |
| Tanintharyi | 18.0 | 7.6 | 62 |
| Bago | 5.7 | 2.0 | 330 |
| Magway | 8.2 | 6.6 | 252 |
| Mandalay | 5.7 | 3.8 | 339 |
| Mon | 9.7 | 6.2 | 104 |
| Rakhine | 15.3 | 11.7 | 191 |
| Yangon | 2.3 | 1.6 | 414 |
| Shan | 4.6 | 4.0 | 325 |
| Ayeyarwady | 12.6 | 9.4 | 416 |
| Nay Pyi Taw | 11.0 | 7.3 | 79 |
| Education ${ }^{2}$ |  |  |  |
| No education | 7.8 | 5.3 | 467 |
| Primary | 8.2 | 5.4 | 1,470 |
| Secondary | 9.3 | 7.2 | 897 |
| More than secondary | 7.6 | 4.7 | 222 |
| Wealth quintile |  |  |  |
| Lowest | 9.4 | 6.8 | 674 |
| Second | 9.4 | 6.8 | 629 |
| Middle | 9.1 | 5.7 | 605 |
| Fourth | 5.9 | 4.7 | 576 |
| Highest | 7.9 | 5.0 | 575 |
| Total | 8.4 | 5.9 | 3,059 |

Note: Husband refers to the current husband for currently married women and the most recent husband for divorced, separated, or widowed women.
${ }^{1}$ Includes in the past 12 months
${ }^{2}$ Total includes two women with missing information on education

Table 16.15 Women's violence against their spouse by husband's characteristics and empowerment indicators
Percentage of ever-married women who have committed physical violence against their current or most recent husband when he was not already beating or physically hurting them, ever and in the past 12 months, according to their husband's characteristics, Myanmar DHS 2015-16

|  | Percentage who have <br> committed physical <br> violence against their <br> husband |  |  |
| :--- | ---: | ---: | ---: |
|  | Past 12 <br> Ever |  | Number of <br> ever-married <br> months |
| women |  |  |  |

Note: Husband refers to the current husband for currently married women and the most recent husband for divorced, separated, or widowed women. Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes in the past 12 months
${ }^{2}$ Total includes 69 women with missing information on husband's education.
${ }^{3}$ Total includes 69 women with missing information on husband's education and two women with missing information on their education.
${ }^{4}$ Includes only currently married women
${ }^{5}$ According to the wife's report. See Table 16.7 for list of behaviors.
${ }^{6}$ According to the wife's report. See Table 15.6.1 for list of decisions. Excludes decision on well-being of children. Includes only currently married women.
${ }^{7}$ According to the wife's report. See Table 15.7.1 for list of reasons. Excludes
the reasons refusal of contraception and involvement in social activities.
${ }^{8}$ Total includes two women with missing information on whether they are afraid of their husband.

Table 16.16 Help seeking to stop violence
Percent distribution of women age 15-49 who have ever experienced physical or sexual violence according to their help-seeking behavior, by type of violence and background characteristics, Myanmar DHS 2015-16

| 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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type of violence |  |  |  |  |  |  |
| Physical only | 21.2 | 43.2 | 35.2 | 0.4 | 100.0 | 608 |
| Sexual only | 21.8 | 6.5 | 71.1 | 0.6 | 100.0 | 33 |
| Physical and sexual | 28.4 | 33.6 | 38.1 | 0.0 | 100.0 | 88 |
| Age |  |  |  |  |  |  |
| 15-19 | 7.8 | 50.2 | 41.8 | 0.2 | 100.0 | 98 |
| 20-24 | 26.7 | 36.9 | 34.8 | 1.7 | 100.0 | 105 |
| 25-29 | 28.9 | 37.3 | 33.8 | 0.0 | 100.0 | 110 |
| 30-39 | 23.0 | 35.7 | 41.3 | 0.0 | 100.0 | 230 |
| 40-49 | 22.1 | 44.6 | 33.0 | 0.3 | 100.0 | 186 |
| Marital status |  |  |  |  |  |  |
| Never married | 12.5 | 41.7 | 45.6 | 0.2 | 100.0 | 131 |
| Married | 23.0 | 41.2 | 35.3 | 0.5 | 100.0 | 492 |
| Divorced/separated/ widowed | 29.8 | 34.7 | 35.6 | 0.0 | 100.0 | 106 |
| Number of living children |  |  |  |  |  |  |
| 0 | 15.8 | 42.5 | 41.1 | 0.5 | 100.0 | 202 |
| 1-2 | 25.7 | 38.6 | 35.4 | 0.3 | 100.0 | 301 |
| 3-4 | 22.5 | 43.2 | 33.9 | 0.4 | 100.0 | 149 |
| 5+ | 24.1 | 35.8 | 40.1 | 0.0 | 100.0 | 78 |
| Employment |  |  |  |  |  |  |
| Employed for cash | 22.9 | 39.8 | 36.9 | 0.3 | 100.0 | 488 |
| Employed not for cash | 22.1 | 31.6 | 45.9 | 0.5 | 100.0 | 42 |
| Not employed | 20.2 | 43.4 | 36.0 | 0.4 | 100.0 | 199 |
| Residence |  |  |  |  |  |  |
| Urban | 32.1 | 29.6 | 37.8 | 0.5 | 100.0 | 178 |
| Rural | 18.9 | 43.8 | 37.0 | 0.3 | 100.0 | 552 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 18.6 | 47.0 | 34.4 | 0.0 | 100.0 | 32 |
| Kayah | 29.7 | 40.4 | 29.8 | 0.0 | 100.0 | 4 |
| Kayin | 41.9 | 28.5 | 29.6 | 0.0 | 100.0 | 21 |
| Chin | (25.6) | (26.5) | (44.1) | (3.7) | 100.0 | 5 |
| Sagaing | 22.8 | 54.3 | 22.8 | 0.0 | 100.0 | 94 |
| Tanintharyi | 17.1 | 37.8 | 45.1 | 0.0 | 100.0 | 32 |
| Bago | 20.9 | 48.1 | 30.9 | 0.0 | 100.0 | 70 |
| Magway | 22.6 | 41.7 | 34.8 | 0.8 | 100.0 | 69 |
| Mandalay | (26.8) | (39.5) | (33.7) | (0.0) | 100.0 | 51 |
| Mon | 21.9 | 41.7 | 33.2 | 3.2 | 100.0 | 27 |
| Rakhine | 9.3 | 41.0 | 49.7 | 0.0 | 100.0 | 80 |
| Yangon | (47.0) | (23.5) | (29.4) | (0.0) | 100.0 | 57 |
| Shan | (22.2) | (43.2) | (34.6) | (0.0) | 100.0 | 53 |
| Ayeyarwady | 15.5 | 30.2 | 53.5 | 0.8 | 100.0 | 112 |
| Nay Pyi Taw | 17.2 | 46.1 | 36.7 | 0.0 | 100.0 | 23 |
| Education |  |  |  |  |  |  |
| No education | 14.2 | 42.2 | 43.7 | 0.0 | 100.0 | 112 |
| Primary | 22.9 | 40.3 | 36.6 | 0.2 | 100.0 | 329 |
| Secondary | 25.3 | 39.6 | 34.3 | 0.7 | 100.0 | 260 |
| More than secondary | (15.1) | (39.9) | (45.0) | (0.0) | 100.0 | 29 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 20.5 | 38.4 | 40.8 | 0.3 | 100.0 | 197 |
| Second | 23.9 | 37.2 | 38.8 | 0.1 | 100.0 | 164 |
| Middle | 17.7 | 46.8 | 34.9 | 0.6 | 100.0 | 148 |
| Fourth | 19.7 | 48.6 | 30.9 | 0.7 | 100.0 | 121 |
| Highest | 31.9 | 29.8 | 38.3 | 0.0 | 100.0 | 99 |
| Total | 22.1 | 40.3 | 37.2 | 0.3 | 100.0 | 730 |

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

Table 16.17 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, Myanmar DHS 2015-16

|  | Type of violence |  |  |  |
| :--- | ---: | :---: | ---: | :--- |
|  | Physical <br> only | Sexual <br> only | Physical <br> and sexual | Total |
| Source | 52.7 | $*$ | $(43.2)$ | 53.0 |
| Own family | 17.7 | $*$ | $(7.4)$ | 15.3 |
| Husband's family | 0.5 | $*$ | $(0.0)$ | 0.4 |
| Husband | 0.0 | $*$ | $(0.0)$ | 0.0 |
| Boyfriend | 10.2 | $*$ | $(21.9)$ | 11.9 |
| Friend | 26.0 | $*$ | $(40.3)$ | 27.1 |
| Neighbor | 0.2 | $*$ | $(5.0)$ | 1.0 |
| Religious leader | 0.0 | $*$ | $(0.0)$ | 0.0 |
| Doctor/medical personnel | 1.2 | $*$ | $(0.0)$ | 0.9 |
| Police | 0.0 | $*$ | $(0.0)$ | 2.5 |
| Lawyer | 1.5 | $*$ | $(10.9)$ | 2.9 |
| Social work organization | 6.6 | $*$ | $(9.1)$ | 6.7 |
| Other |  |  | 7 | 25 |
| Number of women who have |  |  |  | 161 |
| experienced violence and sought help | 129 | 7 | 2 |  |

Note: Women can report more than one source from which they sought help. 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.

# EARLY CHILD DEVELOPMENT AND CHILD DISCIPLINE 

## Key Findings

- Early childhood education: Twenty-three percent of children age 36-59 months have ever attended an early childhood education program, and $20 \%$ are currently attending such a program.
- Early childhood learning: Fifty-four percent of children engaged with adult household members in four or more activities that promote learning and school readiness during the 3 days before the survey.
- Learning materials: Only 5\% of children under age 5 have three or more children's books present in the household.
- Child care arrangements: Thirteen percent of children were left alone or left in the care of another child younger than age 10 for more than 1 hour during the week preceding the survey.
- Child discipline: Seventy-seven percent of children age 2-14 have experienced any violent discipline method.

Information obtained in the 2015-16 MDHS allows for an assessment of several key aspects of the welfare of Myanmar's children. Questions were included on birth registration and living arrangements and the survival status of parents. A child's access to education is critical, and the MDHS gathered information on both the level of preschool education among young children and children's participation in primary and secondary school.

This chapter provides key data on early childhood development and child discipline collected in the survey. These data will help the Myanmar 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. The data gathered on child discipline will help parents and caretakers implement effective disciplinary techniques that make for happy, healthy and well-behaved children.

### 17.1 Early Childhood Education

Early childhood education programs are important in preparing children for school. In Myanmar, preschool services are offered for all children age 3 and age 4, including services providing activities to transition children to kindergarten and primary school. Social organizations, the Department of Social Welfare, voluntary welfare schools run by nongovernmental organizations, private schools, monasteries, and churches also provide day care and similar preschool and preprimary classes attached to basic education schools. The MDHS included questions designed to determine if children age 3-4 had ever attended or were currently attending an organized learning program.

The MDHS data show that $23 \%$ of children age 36-59 months have ever attended an organized early childhood education program and that $20 \%$ are currently (in the last 7 days) attending such a program (Table 17.1).

## Patterns by background characteristics

- The proportion of children who have ever attended early childhood education programs increases with age, from $15 \%$ among children age $36-47$ months to $32 \%$ among children age 48-59 months.

Figure 17.1 Early childhood education by mother's education

Percentage of de facto children age 36-59 months attending early childhood education programs

- Children living in urban areas are much more likely to attend an early childhood education program (33\%) than children living in rural areas (21\%).
- Participation in early childhood education programs varies by state and region, from a high of $62 \%$ of children in Kayah State to a low of $13 \%$ of children in Rakhine State.

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- Considerable differences are observed by mothers' education. Fourteen percent of children whose mothers have no education have ever attended early childhood education programs, as compared with $42 \%$ of children whose mothers have more than a secondary education (Figure 17.1).
- Only $11 \%$ of children living in households in the lowest wealth quintile have ever attended early childhood education programs, compared with $42 \%$ of children living in households in the highest quintile.


### 17.2 CHILDHOOD LEARNING

### 17.2.1 Support for Learning

It is recognized that a period of rapid brain development occurs in the first 3 to 4 years of life and that quality of home care is the major determinant of a child's development during this period. In this context, adults spending "quality time" 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.

## Support for early learning

Percentage of children with whom any adult household member (age 15+) has (within the previous 3 days) engaged in four or more of the following activities to promote learning and school readiness: reading books or looking at picture books; telling stories; singing songs; taking the children outside the home, compound, or yard; playing with the children; and spending time with the children naming, counting, or drawing things.
Sample: Children age 3-4 (36-59 months)
Father's and mother's support for early learning
Percentage of children with whom the natural father or natural mother has engaged in four or more support-for-early-learning activities to promote learning and school readiness.
Sample: Children age 3-4 (36-59 months)

Fifty-four percent of children age 36-59 months were engaged by adult household members in four or more activities that promote learning and school readiness during the last 3 days. However, fathers (6\%) were much less likely than mothers ( $25 \%$ ) to have engaged in four or more of these activities. The mean number of activities in which any adult household member engaged with children was 3.6 . Thirteen percent of children were not living with their natural father (Table 17.2).

## Patterns by background characteristics

- Children living in urban areas are much more likely to engage in four or more activities with adult household members than children living in rural areas ( $76 \%$ versus $49 \%$ ).
- There are substantial differences by education in mothers' and fathers' involvement in learning activities. Children whose mothers have no education and children whose fathers have no education are much less likely to engage in four or more activities with adult household members ( $31 \%$ each) than children whose mothers and fathers have more than a secondary education ( $83 \%$ each) (Figure 17.2).

Figure 17.2 Adult support for learning by parent's education

Percentage of children age 36-59 months with whom adults engage in learning activities
$\square$ Mother's education $\quad$ Father's education


- Forty-three percent of children living in households in the lowest wealth quintile engaged in four or more activities with adult household members, as compared with $77 \%$ of children living in households in the highest quintile.


### 17.2.2 Children's Books and Playthings

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 school work). The presence of books is also important for later school performance. Mothers of children 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 the home.

Most children under age 5 in Myanmar do not have access to books in the household. Only $5 \%$ of children under age 5 have three or more children's books in the household, and only $1 \%$ have 10 or more children's
books. Fifty-nine percent of children under age 5 play with homemade toys (including dolls and cars). Overall, $72 \%$ of children play with two or more types of playthings, including homemade toys, toys purchased from a store, household objects (such as pots and bowls), and objects found outside the home (such as sticks, rocks, animals, shells, and leaves) (Table 17.3).

## Patterns by background characteristics

- The percentage of children who play with two or more types of playthings increases with age. For example, $52 \%$ of children age $0-23$ months have two or more types of playthings, as compared with $83 \%$ of children age $24-59$ months.
- Urban children under age 5 are more likely than rural children to have access to three or more children's books ( $12 \%$ versus $2 \%$ ).
- The percentage of children who play with two or more types of playthings varies by state and region, from a high of $86 \%$ of children in Mandalay Region to a low of $53 \%$ of children in Chin State.
- Mother's and father's education determines children's access to books. For instance, children whose mothers have more than a secondary education are much more likely to have access to three or more children's books than children whose mothers have no education ( $18 \%$ versus $1 \%$ ).
- Children living in households in the highest wealth quintile are much more likely to have three or more children's books in the household than children living in households in the lowest quintile (15\% versus 1\%).


### 17.3 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, abuse, and neglect. In the 2015-16 MDHS, mothers were asked two questions to establish whether their youngest child under age 5 had been left alone during the week preceding the interview for 1 hour or more and whether the child was left in the care of other children under age 10 for 1 hour or more.

## Inadequate care

Number of children under age 5 left alone or in the care of another child younger than age 10 for more than 1 hour at least once in the last week.
Sample: De jure children under age 5

In Myanmar, $6 \%$ of children under age 5 were left alone and $10 \%$ were left in the care of another child younger than age 10 for more than 1 hour during the week before the survey. Overall, $13 \%$ of children were left alone or left in the care of another child younger than age 10 for more than 1 hour during the week (Table 17.4).

## Patterns by background characteristics

- Children age 48-59 months were slightly more likely to be left alone or left in the care of another child younger than age 10 for more than 1 hour during the week before the survey ( $19 \%$ ) than children age $36-47$ months ( $16 \%$ ).
- A higher percentage of rural children (15\%) than urban children (7\%) were left alone or left in the care of another child younger than 10 years for more than one hour during the week.
- The percentage of children left alone or left in the care of another child for more than 1 hour during the week before the survey varies by state and region, from a high of $28 \%$ in Chin State to a low of only 3\% in Yangon Region.
- There are sharp differences in the proportion of children left alone or left in the care of another child by mother's educational level. This proportion was four times higher among children whose mothers had no education than among children whose mothers had more than a secondary education (19\% versus 5\%).
- Similarly, $21 \%$ of children living in the poorest households were left alone or left in the care of another child for more than 1 hour during the week before the survey, as compared with $5 \%$ of children living in the wealthiest households.


### 17.4 Child Discipline

## Nonviolent disciplinary approaches

Include one or more of the following:

- taking away privileges, forbidding something the child likes, or not allowing the child to leave the house
- explaining that the child's behavior was wrong
- giving the child something else to do

Sample: De jure children age 2-14

## Psychological aggression

Includes one or both of the following:

- shouting, yelling, or screaming at the child
- calling the child dumb, lazy, or a similar term

Sample: De jure children age 2-14

## Physical punishment

Includes one or more of the following:

- shaking the child
- spanking, hitting, or slapping the child on the bottom with a bare hand
- hitting the child on the bottom or another part of the body with a belt, hairbrush, stick, or other similar hard object
- hitting the child on the hand, arm, or leg

Sample: De jure children age 2-14

## Severe physical punishment

Includes one or both of the following:

- hitting or slapping the child on the face, head, or ears
- beating the child up, that is, hitting the child over and over as hard as one can
Sample: De jure children age 2-14

The manner in which parents and caretakers discipline children can have long-term consequences for their physical and psychological development and well-being. The 2015-16 MDHS household questionnaire included questions on how children in the household are usually disciplined. The respondent to the household questionnaire (the household head or another household member) was asked a series of separate questions about disciplinary practices that may have been used with the child during the month before the survey.

### 17.4.1 Prevalence of Disciplinary Approaches

Table 17.5 shows the extent to which 11 different approaches were used to discipline children age 2-14 during the month before the survey. Both nonviolent and violent methods of child discipline were reported.

- The most common nonviolent disciplinary approach involved explaining that the child's behavior was wrong, and this approach was used for $74 \%$ of children.
- The most common form of psychological aggression involved shouting, yelling, or screaming, used for $72 \%$ of children.
- The most common form of physical punishment was spanking, hitting, or slapping the child on the bottom with a bare hand, used for $28 \%$ of children.
- The most common type of severe physical punishment involved hitting or slapping the child on the face, head, or ears, used for $10 \%$ of children.

Overall, $15 \%$ of children age 2-14 experienced only nonviolent discipline, $74 \%$ experienced any type of psychological aggression, $43 \%$ experienced any type of physical punishment, and $12 \%$ experienced any type of severe physical punishment. Overall, $77 \%$ of children experienced any violent discipline method (Table 17.6).

### 17.4.2 Disciplinary Approaches by Background Characteristics

Methods used for disciplining children do not vary substantially by age with the exception of physical punishment. Fifty-four percent of children age 2-4 experienced any physical punishment, as compared with $32 \%$ of children age 10-14.

There are substantial differences in the use of severe physical punishment according to the educational level of the head of the household. Eleven percent of children in households where the household head has no education experienced severe physical punishment, compared with 7\% of children in households where the household head has more than a secondary education.

Figure 17.3 Child discipline by household wealth

Percentage of children age 2-14 by experience of child disciplining methods
$■$ Only nonviolent discipline $\square$ Any violent discipline method


Children in households in the higher wealth quintiles are less likely than those in households in the lower wealth quintiles to experience any violent physical discipline methods. Children in households in the highest wealth quintile more often face only nonviolent discipline (19\%) than those in the lowest quintile (11\%) (Figure 17.3).

## List of Tables

For more information on early child development and child discipline, see the following tables:

- Table 17.1 Early childhood education
- Table 17.2 Support for learning
- Table 17.3 Learning materials
- Table 17.4 Child care arrangements
- Table 17.5 Child discipline
- Table 17.6 Child discipline by background characteristics

Table 17.1 Early childhood education
Percentage of de facto children age 36-59 months who eve attended an early childhood education program and among those who ever attended, the percentage currently attending, according to background characteristics, Myanmar DHS 2015-16

| Background characteristic | Percentage ever attending early childhood education ${ }^{1}$ | Percentage currently (in last 7 days) attending early childhood education | Number of children |
| :---: | :---: | :---: | :---: |
| Age in months |  |  |  |
| 36-47 | 14.8 | 12.2 | 812 |
| 48-59 | 31.9 | 27.8 | 778 |
| Sex |  |  |  |
| Male | 21.6 | 19.0 | 815 |
| Female | 24.8 | 20.7 | 775 |
| Residence |  |  |  |
| Urban | 32.7 | 30.1 | 324 |
| Rural | 20.7 | 17.2 | 1,267 |
| States/Regions |  |  |  |
| Kachin | 36.5 | 34.8 | 69 |
| Kayah | 61.6 | 33.9 | 11 |
| Kayin | 17.2 | 13.4 | 45 |
| Chin | 28.6 | 24.9 | 23 |
| Sagaing | 30.8 | 24.4 | 195 |
| Tanintharyi | 18.4 | 12.2 | 46 |
| Bago | 19.8 | 17.2 | 161 |
| Magway | 19.2 | 18.2 | 128 |
| Mandalay | 25.0 | 21.7 | 153 |
| Mon | 29.2 | 18.5 | 51 |
| Rakhine | 13.0 | 11.4 | 104 |
| Yangon | 21.6 | 21.6 | 149 |
| Shan | 27.5 | 24.2 | 205 |
| Ayeyarwady | 15.9 | 14.1 | 211 |
| Nay Pyi Taw | 21.1 | 15.9 | 40 |
| Mother's education |  |  |  |
| No education | 13.5 | 11.3 | 315 |
| Primary | 19.3 | 15.7 | 771 |
| Secondary | 33.3 | 30.3 | 401 |
| More than secondary | 41.8 | 36.6 | 103 |
| Wealth quintile |  |  |  |
| Lowest | 10.7 | 7.8 | 493 |
| Second | 19.5 | 17.4 | 379 |
| Middle | 25.3 | 21.4 | 253 |
| Fourth | 35.7 | 30.8 | 257 |
| Highest | 41.5 | 37.5 | 208 |
| Total | 23.2 | 19.9 | 1,591 |

${ }^{1}$ Includes children currently attending early childhood education

Table 17.2 Support for learning
Percentage of children age 36-59 months with whom an adult household member engaged in activities that promote learning and school readiness during the last 3 days, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Percentage of children age 36-59 months |  |  | Mean number of activities |  | Percentage of children not living with their natural father | Number of children age 36-59 months |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | With whom adult household members engaged in four or more activities | With whom the father engaged in four or more activities | With whom the mother engaged in four or more activities | Any adult household member engaged with the child | The father engaged with the child |  |  |
| Age in months |  |  |  |  |  |  |  |
| 36-47 | 55.7 | 5.9 | 25.7 | 3.8 | 0.8 | 13.3 | 812 |
| 48-59 | 53.0 | 6.1 | 25.1 | 3.5 | 0.8 | 13.6 | 778 |
| Sex |  |  |  |  |  |  |  |
| Male | 53.4 | 6.6 | 23.0 | 3.6 | 0.9 | 13.8 | 815 |
| Female | 55.5 | 5.3 | 27.9 | 3.7 | 0.8 | 13.0 | 775 |
| Residence |  |  |  |  |  |  |  |
| Urban | 76.2 | 9.0 | 42.6 | 4.6 | 1.1 | 14.6 | 324 |
| Rural | 48.8 | 5.2 | 21.0 | 3.4 | 0.7 | 13.2 | 1,267 |
| States/Regions |  |  |  |  |  |  |  |
| Kachin | 63.4 | 6.6 | 28.2 | 4.2 | 0.6 | 18.5 | 69 |
| Kayah | 51.2 | 3.1 | 16.1 | 3.4 | 0.8 | 19.2 | 11 |
| Kayin | 37.2 | 1.6 | 14.6 | 2.9 | 0.2 | 16.3 | 45 |
| Chin | 49.1 | 2.2 | 33.5 | 3.4 | 0.5 | 12.7 | 23 |
| Sagaing | 34.8 | 3.4 | 13.8 | 2.6 | 0.6 | 14.6 | 195 |
| Tanintharyi | 40.4 | 5.3 | 21.7 | 2.9 | 0.5 | 14.2 | 46 |
| Bago | 51.7 | 2.9 | 25.2 | 3.7 | 0.8 | 11.9 | 161 |
| Magway | 68.5 | 7.9 | 29.4 | 4.2 | 0.7 | 14.4 | 128 |
| Mandalay | 57.1 | 13.1 | 26.9 | 3.7 | 1.3 | 7.6 | 153 |
| Mon | 40.0 | 4.7 | 15.1 | 3.1 | 0.5 | 23.6 | 51 |
| Rakhine | 53.3 | 3.6 | 17.9 | 3.7 | 0.8 | 23.0 | 104 |
| Yangon | 82.7 | 7.4 | 41.9 | 4.8 | 1.3 | 7.0 | 149 |
| Shan | 40.8 | 3.1 | 17.5 | 3.1 | 0.5 | 13.8 | 205 |
| Ayeyarwady | 69.5 | 8.7 | 37.3 | 4.4 | 1.1 | 11.9 | 211 |
| Nay Pyi Taw | 36.1 | 7.6 | 23.1 | 2.8 | 0.9 | 11.9 | 40 |
| Mother's education |  |  |  |  |  |  |  |
| No education | 31.2 | 1.5 | 6.7 | 2.5 | 0.5 | 13.2 | 315 |
| Primary | 51.4 | 6.7 | 23.6 | 3.6 | 0.9 | 11.5 | 771 |
| Secondary | 71.3 | 7.2 | 36.3 | 4.4 | 0.9 | 17.1 | 401 |
| More than secondary | 82.5 | 9.4 | 54.0 | 4.9 | 1.2 | 14.2 | 103 |
| Father's education |  |  |  |  |  |  |  |
| No education | 30.5 | 1.8 | 8.1 | 2.5 | 0.5 | na | 247 |
| Primary | 52.2 | 6.2 | 23.9 | 3.6 | 0.9 | na | 605 |
| Secondary | 66.2 | 8.6 | 32.2 | 4.2 | 1.0 | na | 450 |
| More than secondary | 83.1 | 15.4 | 49.5 | 5.0 | 1.6 | na | 75 |
| Father not living in household | 53.4 | 1.4 | 27.1 | 3.6 | 0.2 | 100.0 | 214 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 42.7 | 5.3 | 16.2 | 3.2 | 0.7 | 13.6 | 493 |
| Second | 51.3 | 5.2 | 21.9 | 3.5 | 0.8 | 11.1 | 379 |
| Middle | 56.9 | 4.3 | 26.4 | 3.7 | 0.8 | 13.4 | 253 |
| Fourth | 60.9 | 7.1 | 30.9 | 3.9 | 0.9 | 14.5 | 257 |
| Highest | 76.8 | 9.6 | 45.5 | 4.7 | 1.1 | 16.2 | 208 |
| Total | 54.4 | 6.0 | 25.4 | 3.6 | 0.8 | 13.4 | 1,591 |

[^28]Table 17.3 Learning materials
Percentage of oldest children under age 5 by numbers of children's books present in the household and by playthings that child plays with, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Household has for the child: |  | Child plays with: |  |  | Two or more types of playthings | $\begin{aligned} & \text { Number of } \\ & \text { oldest } \\ & \text { children } \\ & \text { under age } 5 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 3 or more children's books | 10 or more children's books | Homemade toys | Toys from a shop/manuf actured toys | Household objects/ objects found outside |  |  |
| Age in months |  |  |  |  |  |  |  |
| 0-23 | 1.7 | 0.1 | 42.4 | 56.8 | 46.9 | 51.7 | 1,211 |
| 24-59 | 6.0 | 1.1 | 67.9 | 80.5 | 84.8 | 82.9 | 2,271 |
| Sex |  |  |  |  |  |  |  |
| Male | 4.2 | 0.9 | 56.6 | 73.4 | 68.6 | 70.6 | 1,797 |
| Female | 4.9 | 0.5 | 61.6 | 71.1 | 74.9 | 73.5 | 1,684 |
| Residence |  |  |  |  |  |  |  |
| Urban | 11.8 | 2.7 | 58.3 | 83.0 | 67.8 | 76.3 | 816 |
| Rural | 2.3 | 0.1 | 59.3 | 69.0 | 72.8 | 70.7 | 2,666 |
| States/Regions |  |  |  |  |  |  |  |
| Kachin | 5.6 | 1.3 | 50.7 | 77.1 | 70.9 | 73.0 | 129 |
| Kayah | 4.7 | 0.0 | 48.3 | 81.9 | 80.7 | 79.7 | 23 |
| Kayin | 3.9 | 1.1 | 60.7 | 62.2 | 72.8 | 65.8 | 109 |
| Chin | 3.4 | 0.3 | 46.8 | 47.3 | 76.4 | 52.7 | 40 |
| Sagaing | 6.3 | 0.9 | 69.8 | 78.2 | 76.3 | 79.2 | 390 |
| Tanintharyi | 1.6 | 0.0 | 28.5 | 69.5 | 75.1 | 63.8 | 99 |
| Bago | 4.3 | 1.1 | 62.5 | 74.4 | 74.5 | 75.3 | 321 |
| Magway | 3.0 | 0.0 | 65.6 | 71.9 | 71.5 | 75.7 | 266 |
| Mandalay | 7.9 | 0.4 | 81.7 | 85.0 | 82.9 | 85.9 | 374 |
| Mon | 3.8 | 0.0 | 21.9 | 66.0 | 64.4 | 53.6 | 118 |
| Rakhine | 2.6 | 0.6 | 65.3 | 57.8 | 68.9 | 65.8 | 234 |
| Yangon | 5.5 | 1.6 | 56.4 | 87.5 | 71.2 | 80.9 | 375 |
| Shan | 3.3 | 0.4 | 47.4 | 60.8 | 62.6 | 60.3 | 445 |
| Ayeyarwady | 3.6 | 0.8 | 55.2 | 67.6 | 67.3 | 66.6 | 478 |
| Nay Pyi Taw | 4.7 | 1.2 | 59.1 | 69.1 | 72.1 | 73.0 | 80 |
| Mother's education |  |  |  |  |  |  |  |
| No education | 0.5 | 0.0 | 52.4 | 52.9 | 72.0 | 59.5 | 561 |
| Primary | 1.8 | 0.1 | 60.7 | 73.1 | 73.3 | 73.3 | 1,589 |
| Secondary | 7.1 | 1.1 | 59.0 | 78.9 | 68.7 | 75.0 | 1,038 |
| More than secondary | 18.0 | 4.2 | 62.9 | 81.3 | 72.3 | 78.5 | 294 |
| Father's education |  |  |  |  |  |  |  |
| No education | 0.6 | 0.2 | 49.8 | 56.3 | 69.2 | 59.5 | 474 |
| Primary | 1.9 | 0.0 | 60.0 | 71.3 | 75.3 | 72.7 | 1,243 |
| Secondary | 5.2 | 0.6 | 62.5 | 80.4 | 69.8 | 77.4 | 1,105 |
| More than secondary | 24.3 | 5.4 | 59.1 | 79.2 | 69.7 | 75.7 | 174 |
| Father not living in household | 6.3 | 1.7 | 57.8 | 69.4 | 69.5 | 68.8 | 485 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 0.9 | 0.0 | 54.6 | 59.5 | 73.4 | 64.3 | 950 |
| Second | 1.8 | 0.1 | 58.1 | 67.7 | 71.8 | 68.8 | 760 |
| Middle | 1.9 | 0.0 | 61.6 | 76.4 | 71.9 | 75.2 | 607 |
| Fourth | 6.7 | 1.5 | 63.2 | 84.0 | 73.3 | 81.3 | 623 |
| Highest | 15.2 | 2.7 | 60.6 | 83.1 | 65.9 | 75.8 | 543 |
| Total | 4.5 | 0.7 | 59.1 | 72.3 | 71.6 | 72.0 | 3,481 |

Table 17.4 Child care arrangements
Percentage of de jure children under age 5 left alone, percentage left in the care of another child younger than age 10 years for more than one hour, and percentage left alone or in the care of another child younger than 10 years for more than one hour during the week before the survey, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Left alone for more than 1 hour during the week | Left in the care of another child younger than age 10 for more than 1 hour during the week | Left alone or in the care of another child younger than age 10 for more than 1 hour during the week | Number of children |
| :---: | :---: | :---: | :---: | :---: |
| Age in months |  |  |  |  |
| 36-47 | 8.6 | 11.8 | 16.4 | 812 |
| 48-59 | 9.4 | 14.9 | 19.0 | 778 |
| Sex |  |  |  |  |
| Male | 6.5 | 10.0 | 13.6 | 1,797 |
| Female | 6.0 | 10.7 | 13.2 | 1,684 |
| Residence |  |  |  |  |
| Urban | 4.3 | 5.0 | 7.3 | 816 |
| Rural | 6.9 | 12.0 | 15.3 | 2,666 |
| States/Regions |  |  |  |  |
| Kachin | 9.4 | 12.2 | 17.3 | 129 |
| Kayah | 1.1 | 3.3 | 4.4 | 23 |
| Kayin | 4.7 | 6.1 | 7.5 | 109 |
| Chin | 14.1 | 14.1 | 27.5 | 40 |
| Sagaing | 2.5 | 3.9 | 5.0 | 390 |
| Tanintharyi | 5.4 | 16.3 | 17.5 | 99 |
| Bago | 5.7 | 13.4 | 15.6 | 321 |
| Magway | 5.1 | 21.2 | 22.8 | 266 |
| Mandalay | 2.2 | 3.7 | 4.1 | 374 |
| Mon | 5.9 | 9.9 | 12.2 | 118 |
| Rakhine | 8.2 | 21.8 | 25.6 | 234 |
| Yangon | 1.9 | 1.3 | 2.7 | 375 |
| Shan | 11.4 | 11.2 | 18.4 | 445 |
| Ayeyarwady | 10.9 | 12.2 | 17.5 | 478 |
| Nay Pyi Taw | 4.9 | 14.0 | 15.0 | 80 |
| Mother's education |  |  |  |  |
| No education | 10.7 | 14.2 | 18.8 | 561 |
| Primary | 7.0 | 13.2 | 16.2 | 1,589 |
| Secondary | 3.9 | 6.2 | 8.8 | 1,038 |
| More than secondary | 2.3 | 2.4 | 4.5 | 294 |
| Wealth quintile |  |  |  |  |
| Lowest | 10.5 | 16.3 | 20.7 | 950 |
| Second | 7.0 | 13.1 | 16.7 | 760 |
| Middle | 4.7 | 8.1 | 10.7 | 607 |
| Fourth | 3.8 | 6.8 | 8.6 | 623 |
| Highest | 2.3 | 2.6 | 4.7 | 543 |
| Total | 6.3 | 10.3 | 13.4 | 3,481 |

Table 17.5 Child discipline
Percentage of de jure children age 2-14 reported as having been disciplined in specific manners during the month before the survey, Myanmar DHS 2015-16

| Type of discipline | Total |
| :---: | :---: |
| Nonviolent disciplinary approaches |  |
| Taking away privileges, forbidding something the child likes, or not allowing the child to leave the house | 19.6 |
| Explaining that the child's behavior was wrong | 73.5 |
| Giving the child something else to do | 52.5 |
| Violent disciplinary approaches |  |
| Psychological aggression |  |
| Shouting, yelling, or screaming at the child | 71.8 |
| Calling the child dumb, lazy, or a similar term | 22.4 |
| Physical punishment |  |
| Shaking the child | 13.9 |
| Hitting the child on the hand, arm, or leg | 17.7 |
| Spanking, hitting, or slapping the child on the bottom with a bare hand | 28.4 |
| Hitting the child on the bottom or another part of the body with a belt, hairbrush, stick, or other similar hard object | 16.1 |
| Severe physical punishment |  |
| Hitting or slapping the child on the face, head, or ears | 10.0 |
| Beating up the child, that is, hitting the child over and over as hard as one can | 3.0 |
| Not disciplined with any of the approaches/missing | 7.6 |
| Number of children | 7,395 |

Table 17.6 Child discipline by background characteristics
Percentage of children age 2-14 by child disciplining methods experienced during the month before the survey, by background characteristics, Myanmar DHS 2015-16

| Background characteristic | Percentage of children age 2-14 who experienced: |  |  |  |  | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Only nonviolent discipline | Any psychological aggression | Any physical punishment | Any severe physical punishment | Any violent discipline method |  |
| Age in years |  |  |  |  |  |  |
| 2-4 | 12.6 | 75.8 | 53.6 | 12.6 | 80.0 | 1,627 |
| 5-9 | 12.8 | 77.7 | 48.3 | 14.5 | 81.1 | 2,758 |
| 10-14 | 18.7 | 69.5 | 32.1 | 8.7 | 72.0 | 3,010 |
| Sex |  |  |  |  |  |  |
| Male | 13.7 | 76.8 | 46.9 | 13.4 | 79.9 | 3,749 |
| Female | 16.7 | 71.0 | 38.6 | 9.9 | 74.5 | 3,646 |
| Residence |  |  |  |  |  |  |
| Urban | 18.0 | 73.3 | 42.3 | 11.8 | 76.0 | 1,688 |
| Rural | 14.4 | 74.1 | 43.1 | 11.6 | 77.6 | 5,654 |
| States/Regions |  |  |  |  |  |  |
| Kachin | 14.2 | 76.0 | 47.3 | 11.9 | 79.1 | 230 |
| Kayah | 18.3 | 74.3 | 47.3 | 20.7 | 78.1 | 41 |
| Kayin | 16.5 | 70.6 | 42.9 | 11.8 | 75.2 | 246 |
| Chin | 17.1 | 69.9 | 48.1 | 21.4 | 74.6 | 69 |
| Sagaing | 13.2 | 72.2 | 37.6 | 9.9 | 75.6 | 819 |
| Tanintharyi | 22.0 | 67.9 | 47.1 | 14.5 | 73.3 | 206 |
| Bago | 15.7 | 76.4 | 43.6 | 11.1 | 79.2 | 693 |
| Magway | 15.1 | 76.5 | 41.9 | 8.6 | 79.6 | 598 |
| Mandalay | 16.4 | 71.7 | 41.9 | 12.1 | 74.5 | 814 |
| Mon | 17.6 | 69.2 | 42.6 | 11.5 | 72.2 | 301 |
| Rakhine | 14.6 | 74.0 | 43.6 | 13.6 | 79.1 | 451 |
| Yangon | 11.1 | 82.6 | 51.6 | 13.6 | 86.0 | 846 |
| Shan | 15.1 | 70.6 | 38.4 | 9.4 | 73.2 | 816 |
| Ayeyarwady | 16.1 | 74.1 | 43.2 | 13.3 | 76.8 | 1,034 |
| Nay Pyi Taw | 20.1 | 65.1 | 35.4 | 7.4 | 68.2 | 178 |
| Education of the household head |  |  |  |  |  |  |
| No education | 12.2 | 75.1 | 43.7 | 11.1 | 78.5 | 1,918 |
| Primary | 14.7 | 74.0 | 44.1 | 13.0 | 77.6 | 3,231 |
| Secondary | 18.3 | 72.8 | 40.9 | 10.9 | 75.9 | 1,957 |
| More than secondary | 19.4 | 73.0 | 36.6 | 6.5 | 73.2 | 290 |
| Parental survivorship ${ }^{1}$ |  |  |  |  |  |  |
| Both alive | 14.9 | 74.3 | 43.3 | 11.9 | 77.5 | 6,823 |
| Father deceased | 15.5 | 73.0 | 41.3 | 12.1 | 76.1 | 396 |
| Mother deceased | 27.9 | 61.0 | 27.7 | 3.9 | 63.2 | 117 |
| Both deceased | (16.5) | (66.4) | (28.5) | (10.6) | (71.9) | 36 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 11.0 | 77.0 | 50.6 | 15.4 | 80.7 | 1,701 |
| Second | 13.4 | 77.0 | 46.5 | 12.0 | 80.4 | 1,610 |
| Middle | 16.7 | 72.7 | 40.7 | 9.4 | 76.5 | 1,460 |
| Fourth | 17.3 | 69.6 | 37.6 | 10.7 | 72.8 | 1,341 |
| Highest | 19.3 | 71.9 | 35.8 | 9.9 | 73.6 | 1,230 |
| Total | 15.2 | 74.0 | 42.8 | 11.7 | 77.2 | 7,395 |

Note: Nonviolent practices included one or more of the following: (1) taking away privileges, forbidding something the child likes, or not allowing the child to leave the house; (2) explaining that the child's behavior was wrong; or (3) giving the child something else to do. Psychological aggression included one or both of the following: (1) shouting, yelling, or screaming at the child or (2) calling the child dumb, lazy, or a similar term. Physical punishment included one or more of the following: (1) shaking the child; (2) spanking, hitting, or slapping the child on the bottom with a bare hand; (3) hitting the child on the bottom or another part of the body with a belt, hairbrush, stick, or other similar hard object; (4) hitting or slapping the child on the face, head, or ears; (5) hitting the child on the hand, arm, or leg; and (6) beating the child up, that is, hitting the child over and over as hard as one can. Severe physical punishment included one or both of the following: (1) hitting or slapping the child on the face, head, or ears or (2) beating the child up, that is, hitting the child over and over as hard as one can. Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Total includes 23 children with missing information on parental survival status.

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## SAMPLE DESIGN

## A. 1 Introduction

TThe 2015-16 Myanmar Demographic and Health Survey (2015-16 MDHS) is the first DHS survey to be conducted in Myanmar. A nationally representative sample of about 13,260 households was selected. All women age 15-49 who were usual residents of the selected households or who slept in the households the night before the survey were eligible for the survey. The survey resulted in about 16,800 interviews of women age 15-49. As for all DHS surveys, the main objectives of the 2015-16 MDHS survey were to provide up-to-date information on fertility and childhood mortality levels; fertility preferences; awareness, approval, and use of family planning methods; maternal and child health; knowledge and attitudes toward HIV/AIDS and other sexually transmitted infections (STIs); and domestic violence. The survey was designed to produce representative estimates for the main demographic and health indictors for the country as a whole, for the urban areas and the rural areas separately, for each of the 14 states and regions, and for the Nay Pyi Taw Union Territory.

Apart from the women's survey, a men's survey was also conducted at the same time in a subsample consisting of one household in every second household selected for the female survey. All men age 15-49 who were usual residents of the selected households or who slept in the households the night before the survey were eligible for the male survey. The survey collected information on their basic demographic and social status; on their knowledge and use of family planning methods; and on their knowledge and attitudes toward HIV/AIDS and other sexually transmitted infections. The survey resulted in about 7,500 interviews of men age 15-49. Also in this subsample, one woman per household was selected randomly from all eligible women in the selected household to take the domestic violence questionnaire.

In all of the selected households, parents or guardians of children age 6-59 months asked permission to collect a blood sample through a finger prick, also used to test for anemia. These children were also weighed and measured to obtain anthropometric indicators. Anemia testing and anthropometric measurements were also obtained for women age 15-49 in the sample households.

## A. 2 Sample Frame

The sampling frame used for 2015-16 MDHS is the cartographic frame of the Myanmar Population and Housing Census 2014 (MPHC 2014), provided by the Department of Population, the implementing institution of the MPHC 2014, of the Ministry of Immigration and Population of Myanmar. The sampling frame is a list of 76,990 primary sampling units (PSUs) covering the entire country. A PSU is either an enumeration area (EA) or a ward/village track for some of the non-enumerated or not completely enumerated areas during the census, mainly in Rakhine State. Each PSU has cartographic materials, which delineates its geographical locations, boundaries, main access point, and landmarks in or outside the PSU to identify the PSUs. Each PSU has identification information, administrative belongings, and a measure of size, which is the number of residential households enumerated during the population census if the PSU was an EA, or estimated during the census preparation work if the PSU was a ward/village track. Each PSU was also classified into one of the two types of residence, urban or rural. Institutional PSUs were excluded from this list, but the internally displaced population camps are included in the list.

Myanmar is administratively divided into 14 states/regions and the Nay Pyi Taw Union Territory. These administrative units are further subdivided into districts and the districts are divided into townships. Table A. 1 below shows the distribution of residential households by state/region and according to type of residence (urban and rural) summarized from the sampling frame. The shares vary from 14\% for Yangon Region and Ayeyarwady Region to $0.5 \%$ for Kayah State. In Myanmar, 28\% of the residential households
live in urban areas. The urban percentage of the states/regions varies from $68 \%$ for Yangon Region to $13 \%$ for Ayeyarwady Region and Rakhine State.

| State/region | Households |  |  | Percentage |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | State/region |
| Kachin | 91,907 | 174,945 | 266,852 | 34.4 | 2.5 |
| Kayah | 13,730 | 41,162 | 54,892 | 25.0 | 0.5 |
| Kayin | 63,951 | 237,614 | 301,565 | 21.2 | 2.8 |
| Chin | 19,022 | 71,475 | 90,497 | 21.0 | 0.8 |
| Sagaing | 179,736 | 909,647 | 1,089,383 | 16.5 | 10.1 |
| Tanintharyi | 63,170 | 207,729 | 270,899 | 23.3 | 2.5 |
| Bago | 234,228 | 891,334 | 1,125,562 | 20.8 | 10.4 |
| Magway | 128,363 | 777,702 | 906,065 | 14.2 | 8.4 |
| Mandalay | 406,173 | 898,061 | 1,304,234 | 31.1 | 12.1 |
| Mon | 111,929 | 303,825 | 415,754 | 26.9 | 3.8 |
| Rakhine | 74,120 | 493,336 | 567,456 | 13.1 | 5.2 |
| Yangon | 1,051,226 | 499,273 | 1,550,499 | 67.8 | 14.3 |
| Shan | 265,943 | 875,137 | 1,141,080 | 23.3 | 10.5 |
| Ayeyarwady | 198,294 | 1,286,144 | 1,484,438 | 13.4 | 13.7 |
| Nay Pyi Taw | 68,639 | 178,654 | 247,293 | 27.8 | 2.3 |
| Myanmar | 2,970,431 | 7,846,038 | 10,816,469 | 27.5 | 100.0 |

Source: Sampling frame of Myanmar Population and Household Census 2014, Myanmar

Table A. 2 below shows the distribution of population by states/regions and according to residence type, which is very close to the distribution of residential households.

| State/region | Household population |  |  | Percentage |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Total |
| Kachin | 503,959 | 863,252 | 1,367,211 | 36.9 | 2.9 |
| Kayah | 66,767 | 206,052 | 272,819 | 24.5 | 0.6 |
| Kayin | 313,008 | 1,138,892 | 1,451,900 | 21.6 | 3.0 |
| Chin | 94,807 | 374,105 | 468,912 | 20.2 | 1.0 |
| Sagaing | 852,477 | 4,215,743 | 5,068,220 | 16.8 | 10.6 |
| Tanintharyi | 320,405 | 1,030,066 | 1,350,471 | 23.7 | 2.8 |
| Bago | 1,017,785 | 3,719,720 | 4,737,505 | 21.5 | 9.9 |
| Magway | 559,258 | 3,222,350 | 3,781,608 | 14.8 | 7.9 |
| Mandalay | 1,955,420 | 3,874,183 | 5,829,603 | 33.5 | 12.2 |
| Mon | 538,059 | 1,407,157 | 1,945,216 | 27.7 | 4.1 |
| Rakhine | 337,658 | 1,696,889 | 2,034,547 | 16.6 | 4.3 |
| Yangon | 4,848,157 | 2,091,491 | 6,939,648 | 69.9 | 14.5 |
| Shan | 1,266,090 | 4,222,479 | 5,488,569 | 23.1 | 11.5 |
| Ayeyarwady | 826,944 | 5,214,719 | 6,041,663 | 13.7 | 12.6 |
| Nay Pyi Taw | 319,033 | 751,896 | 1,070,929 | 29.8 | 2.2 |
| Myanmar | 13,819,827 | 34,028,994 | 47,848,821 | 28.9 | 100.0 |

Source: Sampling frame of Myanmar Population and Household Census 2014, Myanmar

A master sample was created based on the above described census frame for responding and coordinating different household based surveys, which will be conducted in Myanmar for years to come, including the current 2015-16 MDHS. A master sample is a large, nationally representative sample of primary sampling units drawn from the entire census frame that can be used for sub-selecting multi-stage household based survey samples. A master sample is large enough for bearing and providing design flexibility for various household based surveys. Table A. 3 below shows the sample allocation of the Myanmar 2014 master sample from which the MDHS 2015-16 sample clusters are selected. The master sample is a stratified sample selected with probability proportional to size (PPS). Stratification is achieved by separating each state/region into urban and rural areas, the urban and rural areas of each state/region forms each a sampling stratum. In total, 30 sampling strata were created. Samples were selected independently in each sampling stratum. Implicit stratification and proportional allocation were achieved at each of the lower administrative unit levels by sorting the sampling frame within the explicit stratum according to administrative unit in different levels before sample selection and by using a PPS selection procedure.

| State/region | Full master sample |  |  | Each of the four replicates |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Kachin | 80 | 96 | 176 | 20 | 24 | 44 |
| Kayah | 40 | 60 | 100 | 10 | 15 | 25 |
| Kayin | 52 | 136 | 188 | 13 | 34 | 47 |
| Chin | 40 | 64 | 104 | 10 | 16 | 26 |
| Sagaing | 76 | 280 | 356 | 19 | 70 | 89 |
| Tanintharyi | 56 | 124 | 180 | 14 | 31 | 45 |
| Bago | 100 | 264 | 364 | 25 | 66 | 91 |
| Magway | 60 | 264 | 324 | 15 | 66 | 81 |
| Mandalay | 160 | 232 | 392 | 40 | 58 | 98 |
| Mon | 80 | 140 | 220 | 20 | 35 | 55 |
| Rakhine | 44 | 216 | 260 | 11 | 54 | 65 |
| Yangon | 272 | 128 | 400 | 68 | 32 | 100 |
| Shan | 112 | 252 | 364 | 28 | 63 | 91 |
| Ayeyarwady | 72 | 328 | 400 | 18 | 82 | 100 |
| Nay Pyi Taw | 64 | 108 | 172 | 16 | 27 | 43 |
| Myanmar | 1,308 | 2,692 | 4,000 | 327 | 673 | 1000 |

Source: Sampling frame of Myanmar Population and Household Census 2014, Myanmar

## A. 3 Sample Design and Implementation

The sample for 2015-16 MDHS was a stratified sample selected in two stages from the master sample. In the first stage, 442 clusters were selected with equal probability systematic sampling and with independent selection in each sampling stratum. Stratification was achieved by separating each state/region into urban and rural areas. The urban and rural areas of each state/region form a sampling stratum that follows exactly the master sample stratification. In total, 30 sampling strata were created. Implicit stratification and proportional allocation were achieved at each of the lower administrative unit levels by taking into account the sampling procedure used in the master sample selection.

Table A. 4 below shows the sample allocation of clusters and households. Among the 442 clusters, 123 were from urban areas and 319 were from rural areas. With a fixed number of 30 households to be selected per cluster, the total number of households selected was 13,260 . Among them, 3,690 households were from urban areas, and 9,570 households were from rural areas. Table A. 5 shows the sample allocation of a number of completed women interviews. With the large number of survey regions and the tight total sample size, the sample allocation features a power allocation with small adjustment in order to get at least 1,000 women interviews per state/region. The sample allocation is not far from an equal size allocation, which guarantees comparable survey precision across regions, with the largest sample size allocated to Yangon (about 1300 women $15-49$ ) because it is the largest region and has a low fertility level.

At the second stage, a fixed number of 30 households were selected from each selected cluster using equal probability systematic sampling. For the clusters that were completely enumerated in the population census, the census household listings were used as the base, which were updated by the MDHS listers and mappers, for selecting the sample households. For the clusters that were not enumerated or only partially enumerated in the census, an independent household listing operation was carried out to create a complete list of households residing in the cluster. Sample households were selected from the newly updated listing. The interviewers were asked to interview only the pre-selected households, no replacement was allowed for nonresponse households to prevent bias. The interviewers were asked to make at least three callbacks to reduce nonresponse

The household listing operation consists of visiting each of the selected clusters; drawing a location map and a detailed sketch map; and recording on the household listing forms all residential households found in the cluster with the address and the name of the head of the households. Some of the selected EAs in the household listing operation were large. To minimize the task of household listing, the selected clusters with an estimated number of households greater than 300 were to be segmented. Only one segment was selected with probability proportional to the segment size.

| Table A. 4 | Sample allocation of EAs and households by state/region and type of residence |  |  |  |  |  |  |
| :--- | ---: | :---: | ---: | ---: | ---: | ---: | :---: |
|  | Allocation of clusters |  |  |  | Allocation of households |  |  |
|  | Urban | Rural | Total | Urban | Rural | Total |  |
| Sate/region | 10 | 17 | 27 | 300 | 510 | 810 |  |
| Kachin | 7 | 20 | 27 | 210 | 600 | 810 |  |
| Kayah | 7 | 21 | 28 | 210 | 630 | 840 |  |
| Kayin | 6 | 21 | 27 | 180 | 630 | 810 |  |
| Chin | 6 | 25 | 31 | 180 | 750 | 930 |  |
| Sagaing | 7 | 20 | 27 | 210 | 600 | 810 |  |
| Tanintharyi | 8 | 24 | 32 | 240 | 720 | 960 |  |
| Bago | 6 | 25 | 31 | 180 | 750 | 930 |  |
| Magway | 10 | 21 | 31 | 300 | 630 | 930 |  |
| Mandalay | 8 | 20 | 28 | 240 | 600 | 840 |  |
| Mon | 5 | 24 | 29 | 150 | 720 | 870 |  |
| Rakhine | 8 | 12 | 33 | 630 | 360 | 990 |  |
| Yangon | 6 | 23 | 31 | 240 | 690 | 930 |  |
| Shan | 8 | 19 | 33 | 180 | 810 | 990 |  |
| Ayeyarwady | 123 | 319 | 27 | 240 | 570 | 810 |  |
| Nay Pyi Taw |  |  | 442 | 3,690 | 9,570 | 13,260 |  |
| Myanmar |  |  |  |  |  |  |  |

The sample calculations were based on the survey results of the Multiple Indicator Cluster Survey (MICS) conducted in Myanmar in 2009-2010 (MICS 2009-2010): the average number of women 15-49 per household is 1.4 and 1.3 per urban household and rural household, respectively; women's individual response rates were $98 \%$ and $97.4 \%$ in urban and rural areas, respectively; the average number of men 1549 per household is 1.2 ; men's individual response rate was assumed to be $96 \%$. The MICS 2009-2010 report showed a very high household response rate; $99.9 \%$ and $100 \%$ for the urban and rural areas, respectively. To be precocious, the MDHS assumed a household response rate of $98 \%$ for both urban and rural areas.

| State/region | Expected number of interviews with women age 15-49 |  |  | Expected number of interviews with men age 15-49 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Kachin | 404 | 633 | 1,037 | 169 | 288 | 457 |
| Kayah | 282 | 744 | 1,026 | 119 | 339 | 458 |
| Kayin | 282 | 781 | 1,063 | 119 | 356 | 475 |
| Chin | 241 | 781 | 1,022 | 101 | 356 | 457 |
| Sagaing | 241 | 931 | 1,172 | 101 | 424 | 525 |
| Tanintharyi | 282 | 744 | 1,026 | 119 | 339 | 458 |
| Bago | 322 | 894 | 1,216 | 136 | 407 | 543 |
| Magway | 241 | 931 | 1,172 | 101 | 424 | 525 |
| Mandalay | 404 | 781 | 1,185 | 169 | 356 | 525 |
| Mon | 322 | 744 | 1,066 | 136 | 339 | 475 |
| Rakhine | 202 | 894 | 1,096 | 85 | 407 | 492 |
| Yangon | 847 | 447 | 1,294 | 356 | 203 | 559 |
| Shan | 322 | 856 | 1,178 | 136 | 389 | 525 |
| Ayeyarwady | 241 | 1,005 | 1,246 | 101 | 457 | 558 |
| Nay Pyi Taw | 322 | 708 | 1,030 | 136 | 321 | 457 |
| Myanmar | 4,955 | 11,874 | 16,829 | 2,084 | 5,405 | 7,489 |

* Male survey will be carried out in half of the households selected for the female survey.


## A. 4 Sample Probabilities and Sampling Weights

Due to the nonproportional allocation of the sample to the different states/regions and the possible differences in response rates across states/regions, sampling weights are required for any analysis using 2015-16 MDHS data to ensure the actual representative of the survey results at the national level and state/region level. Since the 2015-16 MDHS sample is a two-stage stratified cluster sample, sampling weights were calculated based on sampling probabilities calculated separately for each sampling stage and for each cluster. The following notations were used where:
$P_{1 h i}$ : first-stage sampling probability of the $i^{\text {th }}$ EA in stratum $h$
$P_{2 h i}$ : second-stage sampling probability within the $i^{\text {th }}$ EA (household selection)

Let $a_{\mathrm{h}}$ be the number of EAs selected in stratum $h, M_{h i}$ the total population according to the sampling frame in the $i^{\text {th }} \mathrm{EA}$, and $\sum M_{h i}$ the total population in the stratum $h$. The probability of selecting the $i^{\text {th }}$ EA in the 2015-16 MDHS sample is calculated as follows:

$$
\frac{a_{h} M_{h i}}{\sum M_{h i}}
$$

Let $b_{h i}$ 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 $b_{h i}=1$. Then the probability of selecting EA $i$ in the sample is:

$$
P_{l h i}=\frac{a_{h} M_{h i}}{\sum M_{h i}} \times b_{h i}
$$

Let $L_{h i}$ be the number of households listed in the census or in the household listing operation in the cluster $i$ in stratum $h$, let $g_{h i}$ 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:

$$
P_{2 h i}=\frac{g_{h i}}{L_{h i}}
$$

The overall selection probability of each household in cluster $i$ of stratum $h$ is therefore the product of the two-stage selection probabilities:

$$
P_{h i}=P_{1 h i} \times P_{2 h i}
$$

The design weight for each household in cluster $i$ of stratum $h$ is the inverse of its overall selection probability:

$$
W_{h i}=1 / P_{h i}
$$

A spreadsheet containing all sampling parameters and selection probabilities was prepared to facilitate the calculation of the design weights. Design weights were adjusted for household nonresponse and also for individual nonresponse to get the sampling weights for female and male surveys, respectively. The differences of the household sampling weights and the individual sampling weights are introduced by individual nonresponse. Sampling weights for the domestic violence survey were calculated based on the number of eligible respondents in the households selected for the domestic violence module. The final sampling weights were normalized to give the total number of unweighted cases equal to the total number of weighted cases at national level, for both household weights and individual weights, respectively. The normalized weights are relative weights, which are valid for estimating means, proportions, and ratios, but not valid for estimating population totals and for pooled data.

There are four sets of weights that were calculated:

- One set for all households selected for the survey
- One set for women's individual survey
- One set for households selected for the men's survey
- One set for the male individual survey
- One set for the domestic violence survey

The number of weighted cases by using the normalized weight has no direct relation to the survey's precision because it is relative; especially for oversampled areas, the number of weighted cases will be much smaller than the number of unweighted cases, which are directly related to survey precision.

Sampling errors were calculated for selected indicators for the national sample, for the urban and rural areas separately, and for each of the 15 states and regions.
Table A. 7 Sample implementation: Men

| Percent distribution of households and eligible men by results of the household and individual interviews, and household, eligible men and overall men response rates, according to urban-rural region (unweighted), Myanmar DHS 2015-16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Residence |  | States/Regions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Result | Urban | Rural | Kachin | Kayah | Kayin | Chin | Sagaing | Tanintharyi | Bago | Magway | Mandalay | Mon | Rakhine | Yangon | Shan | Ayeyarwady | Nay Pyi Taw | Total |
| Selected households |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Completed (C) | 92.2 | 95.0 | 93.8 | 92.1 | 95.0 | 92.9 | 99.4 | 92.3 | 95.6 | 96.1 | 93.5 | 93.3 | 95.4 | 94.3 | 90.7 | 93.5 | 93.8 | 94.2 |
| Household present but no competent respondent at home (HP) | 2.4 | 1.5 | 2.5 | 3.7 | 1.2 | 1.7 | 0.0 | 0.2 | 0.8 | 1.3 | 1.3 | 1.9 | 0.9 | 1.0 | 2.2 | 1.8 | 5.9 | 1.7 |
| Refused (R) | 1.0 | 0.1 | 0.7 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 | 0.0 | 0.9 | 0.0 | 0.0 | 1.0 | 2.2 | 0.0 | 0.0 | 0.4 |
| Dwelling not found (DNF) | 0.3 | 0.2 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.2 | 0.9 | 0.2 | 0.0 | 0.6 | 0.2 | 0.0 | 0.2 | 0.2 |
| Household absent (HA) | 2.1 | 1.0 | 2.7 | 1.2 | 2.4 | 0.5 | 0.4 | 3.5 | 0.6 | 1.3 | 1.9 | 1.7 | 1.1 | 2.0 | 0.4 | 0.6 | 0.0 | 1.3 |
| Dwelling vacant/address not a dwelling (DV) | 1.1 | 0.7 | 0.0 | 0.5 | 0.0 | 2.2 | 0.2 | 1.0 | 0.8 | 0.6 | 0.9 | 0.7 | 1.8 | 0.6 | 1.3 | 1.0 | 0.0 | 0.8 |
| Dwelling destroyed (DD) | 0.8 | 1.4 | 0.0 | 0.5 | 1.2 | 2.4 | 0.0 | 2.7 | 1.9 | 0.4 | 0.6 | 1.9 | 0.7 | 0.4 | 2.9 | 3.0 | 0.0 | 1.3 |
| Other (0) | 0.2 | 0.1 | 0.2 | 1.7 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of sampled households | 1,838 | 4,782 | 401 | 405 | 420 | 411 | 465 | 405 | 481 | 465 | 465 | 420 | 435 | 495 | 450 | 496 | 406 | 6,620 |
| Household response rate (HRR)1 | 96.2 | 98.2 | 96.7 | 95.9 | 98.8 | 97.9 | 100.0 | 99.5 | 98.9 | 98.5 | 96.9 | 97.8 | 99.0 | 97.3 | 95.1 | 98.1 | 93.8 | 97.6 |
| Eligible men |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Completed (EMC) | 87.4 | 92.2 | 87.2 | 90.1 | 95.5 | 94.6 | 96.3 | 87.1 | 92.8 | 96.0 | 91.2 | 88.5 | 88.5 | 94.6 | 78.1 | 90.8 | 89.4 | 90.8 |
| Not at home (EMNH) | 9.2 | 6.2 | 10.6 | 6.5 | 2.5 | 3.2 | 2.7 | 11.2 | 5.9 | 3.3 | 6.4 | 7.6 | 9.8 | 2.6 | 17.5 | 8.0 | 9.4 | 7.1 |
| Refused (EMR) | 1.8 | 0.3 | 0.8 | 0.3 | 0.0 | 0.6 | 0.5 | 0.0 | 0.0 | 0.3 | 1.2 | 2.3 | 0.3 | 1.4 | 1.9 | 0.2 | 0.6 | 0.7 |
| Partly completed (EMPC) | 0.2 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.0 | 0.5 | 0.3 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.1 |
| Incapacitated (EMI) | 1.3 | 1.0 | 1.1 | 2.7 | 1.6 | 1.6 | 0.5 | 0.3 | 1.1 | 0.3 | 0.7 | 1.3 | 1.0 | 1.2 | 1.9 | 0.5 | 0.6 | 1.1 |
| Other (EMO) | 0.2 | 0.2 | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.5 | 0.5 | 0.0 | 0.2 |
| 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 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of men | 1,512 | 3,706 | 376 | 293 | 314 | 313 | 409 | 286 | 373 | 303 | 408 | 304 | 295 | 427 | 366 | 401 | 350 | 5,218 |
| Eligible men response rate (EMRR)2 | 87.4 | 92.2 | 87.2 | 90.1 | 95.5 | 94.6 | 96.3 | 87.1 | 92.8 | 96.0 | 91.2 | 88.5 | 88.5 | 94.6 | 78.1 | 90.8 | 89.4 | 90.8 |
| Overall men response rate (ORR)3 | 84.0 | 90.5 | 84.3 | 86.4 | 94.4 | 92.6 | 96.3 | 86.6 | 91.8 | 94.6 | 88.3 | 86.5 | 87.6 | 92.1 | 74.3 | 89.0 | 83.9 | 88.6 |

[^29]
## ESTIMATES OF SAMPLING ERRORS

TThe estimates from a sample survey are affected by two types of errors: nonsampling errors and 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 2015-16 Myanmar Demographic and Health Survey (2015-16 MDHS) 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 2015-16 MDHS is only one of many samples that could have been selected from the same population, using the same design and expected 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 among all possible samples. Although the degree of variability is not known exactly, it can be estimated from the survey results.

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 $95 \%$ 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 2015-16 MDHS sample is the result of a multi-stage stratified design, and, consequently, it was necessary to use more complex formulas. Sampling errors are computed by SAS programs developed by ICF. These programs use the Taylor linearization method to estimate variances for survey estimates that are means, proportions, or ratios. 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:

$$
S E^{2}(r)=\operatorname{var}(r)=\frac{1-f}{x^{2}} \sum_{h=1}^{H}\left[\frac{m_{h}}{m_{h}-1}\left(\sum_{i=1}^{m_{h}} z_{h i}^{2}-\frac{z_{h}^{2}}{m_{h}}\right)\right]
$$

in which

$$
z_{h i}=y_{h i}-r x_{h i}, \text { and } z_{h}=y_{h}-r x_{h}
$$

where $h$
$m_{h}$
$y_{h i}$
$x_{h i}$
$f_{h}$
represents the stratum, which varies from 1 to $H$, is the total number of clusters selected in the $h^{\text {th }}$ stratum, is the sum of the weighted values of variable $y$ in the $i^{\text {th }}$ cluster in the $h^{\text {th }}$ stratum, is the sum of the weighted number of cases in the $i^{\text {th }}$ cluster in the $h^{\text {th }}$ stratum, and 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 formulas. Each replication considers all but one cluster in the calculation of the estimates. Pseudo-independent replications are thus created. In the 2015-16 MDHS there were 441 non-empty clusters. Hence, 441 replications were created. The variance of a rate $r$ is calculated as follows:

$$
S E^{2}(r)=\operatorname{var}(r)=\frac{1}{k(k-1)} \sum_{i=1}^{k}\left(r_{i}-r\right)^{2}
$$

in which

$$
r_{i}=k r-(k-1) r_{(i)}
$$

where $r$ is the estimate computed from the full sample of 441 clusters,
$r_{(i)} \quad$ is the estimate computed from the reduced sample of 440 clusters ( $i^{\text {th }}$ cluster excluded), and
$k \quad$ is the total number of clusters.

In addition to the standard error, the design effect (DEFT) for each estimate is also calculated. The design effect 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. Relative standard errors and confidence limits for the estimates are also calculated.

Sampling errors for the 2015-16 MDHS are calculated for selected variables considered to be of primary interest for the woman's and the man's surveys. The results are presented in this appendix for the country as a whole, for urban and rural areas, and for each of the 15 states/regions. 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. 19 present the value of the statistic (R), its standard error (SE), the number of unweighted (N-UNWE) and weighted (N-WEIG) cases, the design effect (DEFT), the relative standard error (SE/R), and the 95 percent confidence limits ( $\mathrm{R} \pm 2 \mathrm{SE}$ ), for each variable. The DEFT is considered undefined when the standard error considering 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 child-bearing.

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 3.028 and its standard error is 0.065 . Therefore, to obtain the 95 percent confidence limits, one adds and subtracts twice the standard error to the sample estimate, that is, $3.028 \pm 2 \times 0.065$. There is a high probability ( 95 percent) that the true average number of children ever born to all women over age 40 is between 2.898 and 3.158.

For the total sample, the value of the design effect (DEFT), averaged over all variables for the women's survey, is 1.517 which means that, due to multistage and clustering of the sample, the average standard error is increased by a factor of 1.517 over that in an equivalent simple random sample.

Table B. 1 List of selected variables for sampling errors, Myanmar 2015-16

| Variable | Estimate | Base population |
| :---: | :---: | :---: |
|  | WOMEN |  |
| Urban residence | Proportion | Ever-married women 15-49 |
| Literacy | Proportion | Ever-married women 15-49 |
| No education | Proportion | Ever-married women 15-49 |
| Secondary education or higher | Proportion | Ever-married 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 | All women 20-49 |
| Had sexual intercourse before age 18 | Proportion | All women 20-49 |
| Currently pregnant | Proportion | All women 15-49 |
| Children ever born | Mean | All women 15-49 |
| Children surviving | Mean | All women 15-49 |
| Children ever born to women age 40-49 | Mean | All women 40-49 |
| Know any contraceptive method | Proportion | Currently married women 15-49 |
| Know a modern 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 pill | Proportion | Currently married women 15-49 |
| Currently using IUD | Proportion | Currently married women 15-49 |
| Currently using condoms | Proportion | Currently married women 15-49 |
| Currently using injectables | Proportion | Currently married women 15-49 |
| Currently using implants | Proportion | Currently married women 15-49 |
| Currently using female sterilization | Proportion | Currently married women 15-49 |
| Used public sector source | Proportion | Current users of modern method |
| Want no more children | Proportion | Currently married women 15-49 |
| Want to delay next birth at least 2 years | Proportion | Currently married women 15-49 |
| Ideal number of children | Mean | All women 15-49 |
| Mothers received ANC for last birth from skilled provider | Proportion | Women with a live birth in last five years |
| Mothers protected against tetanus for last birth | Proportion | Women with a live birth in last five years |
| Births with skilled attendant at delivery | Proportion | Births occurring 1-59 months before survey |
| Had diarrhea in the past 2 weeks | Proportion | Children under 5 |
| Treated with ORS | Proportion | Children under 5 with diarrhea in past 2 weeks |
| Sought medical treatment for diarrhea | Proportion | Children under 5 with diarrhea in past 2 weeks |
| Vaccination card seen | Proportion | Children 12-23 months |
| Received BCG vaccination | Proportion | Children 12-23 months |
| Received Penvavalent 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 |
| Received all vaccinations | Proportion | Children 12-23 months |
| Height-for-age (-2SD) | Proportion | Children under 5 who are measured |
| Weight-for-height (-2SD) | Proportion | Children under 5 who are measured |
| Weight-for-age (-2SD) | Proportion | Children under 5 who are measured |
| Body Mass Index (BMI) <18.5 | Proportion | All women 15-49 who were measured |
| Prevalence of anemia (children 6-59 months) | Proportion | All children 6-59 months who were tested |
| Prevalence of anemia (women 15-49) | Proportion | All women 15-49 who were tested |
| Had an HIV test and received results in past 12 months | Proportion | Ever-married women 15-49 |
| Accepting attitudes towards people with HIV | Proportion | All women who have heard of HIV/AIDS |
| Ever experienced any physical violence since age 15 | Proportion | Ever-married women 15-49 |
| Ever experienced any sexual violence | Proportion | Ever-married women 15-49 |
| Ever experienced any physical/sexual violence by husband | Proportion | Ever-married women 15-49 |
| Ever experienced any physica/sexual violence in the past 12 months | Proportion | Ever-married women 15-49 |
| Total fertility rate (3 years) | Rate | Women-years of exposure to childbearing |
| Neonatal mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality |
| Postneonatal mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality |
| Infant mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality |
| Child mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality |
| Under-5 mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality |
| MEN |  |  |
| Urban residence | Proportion | Ever-married men 15-49 |
| Literacy | Proportion | Ever-married men 15-49 |
| No education | Proportion | Ever-married men 15-49 |
| Secondary education or higher | Proportion | Ever-married men 15-49 |
| Never married/never in union | Proportion | All men 15-49 |
| Currently married/in union | Proportion | All men 15-49 |
| Had sexual intercourse before age 18 | Proportion | All men 20-49 |
| Know any contraceptive method | Proportion | Currently married men 15-49 |
| Know a modern method | Proportion | Currently married men 15-49 |
| Want no more children | Proportion | Currently married men 15-49 |
| Want to delay next birth at least 2 years | Proportion | Currently married men 15-49 |
| Ideal number of children | Mean | All men 15-49 |
| Had an HIV test and received results in past 12 months | Proportion | Ever-married men 15-49 |
| Accepting attitudes towards people with HIV | Proportion | All men who have heard of HIV/AIDS |

[^30]Table B. 2 Sampling errors: National sample, Myanmar 2015-16

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | $\begin{gathered} \text { Lower } \\ \text { (R-2SE) } \\ \hline \end{gathered}$ | Upper $(\mathrm{R}+2 \mathrm{SE})$ |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.292 | 0.007 | 12885 | 12885 | 1.707 | 0.023 | 0.279 | 0.306 |
| Literacy | 0.883 | 0.006 | 12885 | 12885 | 1.949 | 0.006 | 0.872 | 0.894 |
| No education | 0.125 | 0.008 | 12885 | 12885 | 2.772 | 0.065 | 0.108 | 0.141 |
| Secondary or higher education | 0.463 | 0.011 | 12885 | 12885 | 2.397 | 0.023 | 0.442 | 0.485 |
| Never married (never in union) | 0.332 | 0.006 | 12885 | 12885 | 1.407 | 0.018 | 0.320 | 0.344 |
| Currently married (in union) | 0.602 | 0.006 | 12885 | 12885 | 1.385 | 0.010 | 0.590 | 0.614 |
| Married before age 20 | 0.343 | 0.008 | 11050 | 11075 | 1.776 | 0.023 | 0.327 | 0.359 |
| Had sexual intercourse before age 18 | 0.165 | 0.006 | 11050 | 11075 | 1.653 | 0.035 | 0.153 | 0.177 |
| Currently pregnant | 0.036 | 0.002 | 12885 | 12885 | 1.205 | 0.055 | 0.032 | 0.040 |
| Children ever born | 1.636 | 0.028 | 12885 | 12885 | 1.623 | 0.017 | 1.581 | 1.692 |
| Children surviving | 1.463 | 0.024 | 12885 | 12885 | 1.580 | 0.016 | 1.416 | 1.510 |
| Children ever born to women age 40-49 | 3.028 | 0.065 | 3388 | 3351 | 1.618 | 0.021 | 2.898 | 3.158 |
| Know any contraceptive method | 0.985 | 0.003 | 7870 | 7759 | 1.914 | 0.003 | 0.980 | 0.990 |
| Know a modern method | 0.984 | 0.003 | 7870 | 7759 | 1.925 | 0.003 | 0.979 | 0.990 |
| Currently using any method | 0.522 | 0.008 | 7870 | 7759 | 1.455 | 0.016 | 0.506 | 0.539 |
| Currently using a modern method | 0.513 | 0.008 | 7870 | 7759 | 1.468 | 0.016 | 0.496 | 0.529 |
| Currently using pill | 0.138 | 0.006 | 7870 | 7759 | 1.425 | 0.040 | 0.127 | 0.149 |
| Currently using IUD | 0.028 | 0.003 | 7870 | 7759 | 1.691 | 0.112 | 0.022 | 0.035 |
| Currently using condoms | 0.010 | 0.002 | 7870 | 7759 | 1.405 | 0.157 | 0.007 | 0.013 |
| Currently using injectables | 0.276 | 0.007 | 7870 | 7759 | 1.364 | 0.025 | 0.262 | 0.290 |
| Currently using implants | 0.009 | 0.001 | 7870 | 7759 | 1.229 | 0.146 | 0.006 | 0.011 |
| Currently using female sterilization | 0.048 | 0.003 | 7870 | 7759 | 1.368 | 0.069 | 0.041 | 0.054 |
| Using public sector source | 0.542 | 0.012 | 3774 | 3996 | 1.524 | 0.023 | 0.517 | 0.566 |
| Want no more children | 0.605 | 0.007 | 7870 | 7759 | 1.233 | 0.011 | 0.592 | 0.619 |
| Want to delay next birth at least 2 years | 0.184 | 0.006 | 7870 | 7759 | 1.345 | 0.032 | 0.173 | 0.196 |
| Ideal number of children | 2.533 | 0.025 | 11723 | 11874 | 1.836 | 0.010 | 2.483 | 2.582 |
| Mothers received antenatal care for last birth | 0.807 | 0.015 | 3867 | 3583 | 2.293 | 0.019 | 0.777 | 0.837 |
| Mothers protected against tetanus for last birth | 0.719 | 0.013 | 3867 | 3583 | 1.760 | 0.018 | 0.693 | 0.745 |
| Births with skilled attendant at delivery | 0.602 | 0.019 | 4815 | 4286 | 2.246 | 0.032 | 0.564 | 0.640 |
| Had diarrhea in the last 2 weeks | 0.104 | 0.006 | 4597 | 4099 | 1.260 | 0.059 | 0.092 | 0.116 |
| Treated with ORS | 0.619 | 0.031 | 550 | 427 | 1.321 | 0.050 | 0.556 | 0.681 |
| Sought medical treatment for diarrhea | 0.537 | 0.030 | 550 | 427 | 1.237 | 0.057 | 0.477 | 0.598 |
| Vaccination card seen | 0.449 | 0.023 | 915 | 852 | 1.321 | 0.050 | 0.404 | 0.495 |
| Received BCG vaccination | 0.878 | 0.018 | 915 | 852 | 1.576 | 0.020 | 0.842 | 0.914 |
| Received Pentavalent vaccination (3 doses) | 0.623 | 0.023 | 915 | 852 | 1.404 | 0.038 | 0.576 | 0.670 |
| Received polio vaccination (3 doses) | 0.670 | 0.023 | 915 | 852 | 1.427 | 0.034 | 0.624 | 0.717 |
| Received measles vaccination | 0.771 | 0.021 | 915 | 852 | 1.456 | 0.027 | 0.729 | 0.813 |
| Received all vaccinations | 0.548 | 0.024 | 915 | 852 | 1.397 | 0.044 | 0.500 | 0.596 |
| Height-for-age (-2SD) | 0.292 | 0.010 | 4640 | 4089 | 1.312 | 0.033 | 0.272 | 0.311 |
| Weight-for-height (-2SD) | 0.070 | 0.005 | 4620 | 4076 | 1.248 | 0.072 | 0.060 | 0.080 |
| Weight-for-age (-2SD) | 0.189 | 0.008 | 4645 | 4100 | 1.272 | 0.043 | 0.173 | 0.206 |
| Prevalence of anemia (children 6-59 months) | 0.578 | 0.010 | 3926 | 3376 | 1.213 | 0.018 | 0.557 | 0.599 |
| Prevalence of anemia (women 15-49) | 0.465 | 0.007 | 12516 | 12489 | 1.642 | 0.016 | 0.451 | 0.480 |
| Body Mass Index (BMI) < 18.5 | 0.155 | 0.005 | 12053 | 12100 | 1.376 | 0.029 | 0.146 | 0.164 |
| Had an HIV test and received results in past 12 months | 0.048 | 0.003 | 12885 | 12885 | 1.414 | 0.055 | 0.043 | 0.054 |
| Accepting attitudes towards people with HIV | 0.200 | 0.007 | 11742 | 11797 | 1.893 | 0.035 | 0.186 | 0.214 |
| Ever experienced any physical violence since age 15 | 0.154 | 0.007 | 4530 | 4530 | 1.369 | 0.048 | 0.139 | 0.168 |
| Ever experienced any sexual violence | 0.027 | 0.003 | 4530 | 4530 | 1.339 | 0.120 | 0.020 | 0.033 |
| Ever experienced any physical/sexual violence by any husband | 0.173 | 0.009 | 3425 | 3059 | 1.388 | 0.052 | 0.155 | 0.191 |
| Physical/sexual violence in the last 12 months by any husband | 0.110 | 0.007 | 3425 | 3059 | 1.345 | 0.065 | 0.096 | 0.125 |
| Total fertility rate (last 3 years) | 2.279 | 0.068 | 37018 | 37015 | 1.469 | 0.030 | 2.143 | 2.415 |
| Neonatal mortality (last 0-4 years) | 24.546 | 2.956 | 4875 | 4340 | 1.081 | 0.120 | 18.633 | 30.459 |
| Post-neonatal mortality (last 0-4 years) | 15.772 | 2.869 | 4876 | 4348 | 1.326 | 0.182 | 10.034 | 21.510 |
| Infant mortality (last 0-4 years) | 40.318 | 4.144 | 4879 | 4344 | 1.191 | 0.103 | 32.030 | 48.605 |
| Child mortality (last 0-4 years) | 10.085 | 1.775 | 4816 | 4325 | 1.183 | 0.176 | 6.535 | 13.635 |
| Under-5 mortality (last 0-4 years) | 49.996 | 4.689 | 4897 | 4360 | 1.238 | 0.094 | 40.619 | 59.373 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.285 | 0.009 | 4737 | 4737 | 1.343 | 0.031 | 0.267 | 0.303 |
| Literacy | 0.905 | 0.009 | 4737 | 4737 | 2.142 | 0.010 | 0.887 | 0.924 |
| No education | 0.121 | 0.009 | 4737 | 4737 | 1.887 | 0.074 | 0.103 | 0.139 |
| Secondary or higher education | 0.523 | 0.013 | 4737 | 4737 | 1.722 | 0.024 | 0.498 | 0.548 |
| Never married (in union) | 0.347 | 0.009 | 4737 | 4737 | 1.280 | 0.025 | 0.330 | 0.365 |
| Currently married (in union) | 0.624 | 0.009 | 4737 | 4737 | 1.271 | 0.014 | 0.606 | 0.642 |
| Had first sexual intercourse before age 18 | 0.074 | 0.005 | 3969 | 4006 | 1.229 | 0.069 | 0.063 | 0.084 |
| Knows any contraceptive method | 0.969 | 0.006 | 2916 | 2957 | 1.768 | 0.006 | 0.958 | 0.981 |
| Knows any modern contraceptive method | 0.966 | 0.006 | 2916 | 2957 | 1.721 | 0.006 | 0.954 | 0.978 |
| Want no more children | 0.456 | 0.011 | 2916 | 2957 | 1.228 | 0.025 | 0.433 | 0.479 |
| Want to delay birth at least 2 years | 0.253 | 0.011 | 2916 | 2957 | 1.305 | 0.042 | 0.232 | 0.274 |
| Ideal family size | 2.808 | 0.046 | 4472 | 4477 | 1.852 | 0.016 | 2.716 | 2.901 |
| Had HIV test and received results in past 12 months | 0.052 | 0.004 | 4737 | 4737 | 1.387 | 0.086 | 0.043 | 0.061 |
| Accepting attitudes towards people with HIV | 0.189 | 0.007 | 4388 | 4358 | 1.243 | 0.039 | 0.174 | 0.204 |

Table B. 3 Sampling errors: Urban sample, Myanmar 2015-16

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | $\begin{aligned} & \text { Lower } \\ & \text { (R-2SE) } \end{aligned}$ | $\begin{gathered} \text { Upper } \\ (\mathrm{R}+2 \mathrm{SE}) \end{gathered}$ |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 1.000 | 0.000 | 3785 | 3768 | na | 0.000 | 1.000 | 1.000 |
| Literacy | 0.955 | 0.004 | 3785 | 3768 | 1.319 | 0.005 | 0.946 | 0.964 |
| No education | 0.051 | 0.010 | 3785 | 3768 | 2.694 | 0.189 | 0.032 | 0.071 |
| Secondary or higher education | 0.721 | 0.018 | 3785 | 3768 | 2.501 | 0.025 | 0.684 | 0.757 |
| Never married (never in union) | 0.393 | 0.012 | 3785 | 3768 | 1.473 | 0.030 | 0.370 | 0.417 |
| Currently married (in union) | 0.537 | 0.011 | 3785 | 3768 | 1.410 | 0.021 | 0.514 | 0.560 |
| Married before age 20 | 0.245 | 0.015 | 3213 | 3178 | 1.975 | 0.061 | 0.215 | 0.275 |
| Had sexual intercourse before age 18 | 0.110 | 0.010 | 3213 | 3178 | 1.725 | 0.087 | 0.091 | 0.129 |
| Currently pregnant | 0.028 | 0.003 | 3785 | 3768 | 1.218 | 0.116 | 0.022 | 0.035 |
| Children ever born | 1.214 | 0.039 | 3785 | 3768 | 1.538 | 0.032 | 1.136 | 1.292 |
| Children surviving | 1.140 | 0.036 | 3785 | 3768 | 1.558 | 0.032 | 1.067 | 1.213 |
| Children ever born to women age 40-49 | 2.321 | 0.095 | 1018 | 988 | 1.596 | 0.041 | 2.132 | 2.510 |
| Know any contraceptive method | 0.998 | 0.001 | 2057 | 2022 | 1.169 | 0.001 | 0.996 | 1.000 |
| Know a modern method | 0.997 | 0.002 | 2057 | 2022 | 1.772 | 0.002 | 0.993 | 1.001 |
| Currently using any method | 0.596 | 0.014 | 2057 | 2022 | 1.295 | 0.024 | 0.568 | 0.624 |
| Currently using a modern method | 0.573 | 0.014 | 2057 | 2022 | 1.286 | 0.024 | 0.545 | 0.601 |
| Currently using pill | 0.181 | 0.011 | 2057 | 2022 | 1.315 | 0.062 | 0.159 | 0.203 |
| Currently using IUD | 0.043 | 0.007 | 2057 | 2022 | 1.520 | 0.159 | 0.029 | 0.056 |
| Currently using condoms | 0.021 | 0.004 | 2057 | 2022 | 1.405 | 0.210 | 0.012 | 0.030 |
| Currently using injectables | 0.214 | 0.014 | 2057 | 2022 | 1.602 | 0.068 | 0.185 | 0.243 |
| Currently using implants | 0.013 | 0.003 | 2057 | 2022 | 1.061 | 0.204 | 0.008 | 0.018 |
| Currently using female sterilization | 0.096 | 0.008 | 2057 | 2022 | 1.305 | 0.088 | 0.079 | 0.113 |
| Using public sector source | 0.344 | 0.020 | 1131 | 1168 | 1.399 | 0.057 | 0.305 | 0.384 |
| Want no more children | 0.640 | 0.015 | 2057 | 2022 | 1.380 | 0.023 | 0.611 | 0.670 |
| Want to delay next birth at least 2 years | 0.171 | 0.014 | 2057 | 2022 | 1.665 | 0.081 | 0.143 | 0.199 |
| Ideal number of children | 2.234 | 0.037 | 3484 | 3462 | 1.724 | 0.016 | 2.161 | 2.308 |
| Mothers received antenatal care for last birth | 0.944 | 0.013 | 881 | 838 | 1.594 | 0.013 | 0.919 | 0.969 |
| Mothers protected against tetanus for last birth | 0.805 | 0.018 | 881 | 838 | 1.359 | 0.023 | 0.768 | 0.842 |
| Births with skilled attendant at delivery | 0.878 | 0.024 | 1012 | 953 | 2.046 | 0.028 | 0.830 | 0.927 |
| Had diarrhea in the last 2 weeks | 0.084 | 0.011 | 980 | 925 | 1.207 | 0.132 | 0.062 | 0.106 |
| Treated with ORS | 0.671 | 0.056 | 91 | 77 | 1.068 | 0.083 | 0.560 | 0.783 |
| Sought medical treatment for diarrhea | 0.487 | 0.058 | 91 | 77 | 1.012 | 0.119 | 0.371 | 0.603 |
| Vaccination card seen | 0.553 | 0.038 | 209 | 220 | 1.134 | 0.069 | 0.477 | 0.628 |
| Received BCG vaccination | 0.918 | 0.027 | 209 | 220 | 1.399 | 0.029 | 0.864 | 0.972 |
| Received DPT vaccination (3 doses) | 0.752 | 0.034 | 209 | 220 | 1.165 | 0.045 | 0.684 | 0.820 |
| Received polio vaccination (3 doses) | 0.760 | 0.036 | 209 | 220 | 1.246 | 0.047 | 0.688 | 0.832 |
| Received measles vaccination | 0.817 | 0.035 | 209 | 220 | 1.320 | 0.043 | 0.747 | 0.887 |
| Received all vaccinations | 0.675 | 0.038 | 209 | 220 | 1.194 | 0.056 | 0.599 | 0.750 |
| Height-for-age (-2SD) | 0.200 | 0.016 | 950 | 876 | 1.141 | 0.078 | 0.169 | 0.231 |
| Weight-for-height (-2SD) | 0.089 | 0.013 | 948 | 874 | 1.303 | 0.142 | 0.064 | 0.114 |
| Weight-for-age (-2SD) | 0.151 | 0.015 | 953 | 881 | 1.253 | 0.101 | 0.120 | 0.181 |
| Prevalence of anemia (children 6-59 months) | 0.587 | 0.022 | 772 | 699 | 1.173 | 0.037 | 0.543 | 0.631 |
| Prevalence of anemia (women 15-49) | 0.465 | 0.016 | 3593 | 3554 | 1.889 | 0.034 | 0.433 | 0.496 |
| Body Mass Index (BMI) < 18.5 | 0.126 | 0.007 | 3543 | 3521 | 1.218 | 0.054 | 0.113 | 0.140 |
| Had an HIV test and received results in past 12 months | 0.076 | 0.005 | 3785 | 3768 | 1.253 | 0.071 | 0.065 | 0.087 |
| Accepting attitudes towards people with HIV | 0.295 | 0.014 | 3702 | 3695 | 1.867 | 0.047 | 0.267 | 0.323 |
| Ever experienced any physical violence since age 15 | 0.129 | 0.013 | 1208 | 1300 | 1.374 | 0.103 | 0.102 | 0.155 |
| Ever experienced any sexual violence | 0.029 | 0.008 | 1208 | 1300 | 1.615 | 0.270 | 0.013 | 0.045 |
| Ever experienced any physical/sexual violence by any husband | 0.152 | 0.018 | 832 | 796 | 1.452 | 0.119 | 0.116 | 0.188 |
| Physical/sexual violence in the last 12 months by any husband | 0.089 | 0.015 | 832 | 796 | 1.477 | 0.164 | 0.060 | 0.118 |
| Total fertility rate (last 3 years) | 1.914 | 0.108 | 10866 | 10808 | 1.486 | 0.056 | 1.698 | 2.130 |
| Neonatal mortality (last 0-9 years) | 17.892 | 3.736 | 2108 | 1951 | 0.986 | 0.209 | 10.419 | 25.364 |
| Post-neonatal mortality (last 0-9 years) | 18.828 | 4.406 | 2111 | 1958 | 1.281 | 0.234 | 10.015 | 27.640 |
| Infant mortality (last 0-9 years) | 36.719 | 5.708 | 2111 | 1956 | 1.183 | 0.155 | 25.303 | 48.136 |
| Child mortality (last 0-9 years) | 5.064 | 1.998 | 2096 | 1915 | 1.213 | 0.395 | 1.068 | 9.060 |
| Under-five mortality (last 0-9 years) | 41.597 | 6.132 | 2114 | 1960 | 1.180 | 0.147 | 29.334 | 53.861 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 1.000 | 0.000 | 1321 | 1350 | na | 0.000 | 1.000 | 1.000 |
| Literacy | 0.961 | 0.011 | 1321 | 1350 | 2.016 | 0.011 | 0.939 | 0.982 |
| No education | 0.045 | 0.011 | 1321 | 1350 | 1.941 | 0.246 | 0.023 | 0.067 |
| Secondary or higher education | 0.754 | 0.021 | 1321 | 1350 | 1.807 | 0.028 | 0.711 | 0.797 |
| Never married (in union) | 0.403 | 0.015 | 1321 | 1350 | 1.117 | 0.037 | 0.373 | 0.433 |
| Currently married (in union) | 0.568 | 0.015 | 1321 | 1350 | 1.104 | 0.027 | 0.538 | 0.598 |
| Had first sexual intercourse before age 18 | 0.065 | 0.009 | 1107 | 1130 | 1.220 | 0.139 | 0.047 | 0.083 |
| Knows any contraceptive method | 0.990 | 0.004 | 749 | 767 | 1.102 | 0.004 | 0.982 | 0.998 |
| Knows any modern contraceptive method | 0.990 | 0.004 | 749 | 767 | 1.102 | 0.004 | 0.982 | 0.998 |
| Want no more children | 0.477 | 0.027 | 749 | 767 | 1.467 | 0.056 | 0.424 | 0.531 |
| Want to delay birth at least 2 years | 0.257 | 0.021 | 749 | 767 | 1.304 | 0.081 | 0.215 | 0.299 |
| Ideal family size | 2.442 | 0.063 | 1259 | 1292 | 1.658 | 0.026 | 2.316 | 2.568 |
| Had HIV test and received results in past 12 months | 0.100 | 0.011 | 1321 | 1350 | 1.356 | 0.112 | 0.078 | 0.123 |
| Accepting attitudes towards people with HIV | 0.269 | 0.013 | 1296 | 1320 | 1.053 | 0.048 | 0.243 | 0.295 |

Table B. 4 Sampling errors: Rural sample, Myanmar 2015-16

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Un- weighted <br> (N) | Weighted (WN) |  |  | $\begin{gathered} \text { Lower } \\ \text { (R-2SE) } \\ \hline \end{gathered}$ | Upper $(\mathrm{R}+2 \mathrm{SE})$ |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.000 | 0.000 | 9100 | 9117 | na | na | 0.000 | 0.000 |
| Literacy | 0.853 | 0.008 | 9100 | 9117 | 2.022 | 0.009 | 0.838 | 0.868 |
| No education | 0.155 | 0.011 | 9100 | 9117 | 2.786 | 0.068 | 0.134 | 0.176 |
| Secondary or higher education | 0.357 | 0.012 | 9100 | 9117 | 2.483 | 0.035 | 0.332 | 0.382 |
| Never married (never in union) | 0.307 | 0.007 | 9100 | 9117 | 1.403 | 0.022 | 0.293 | 0.320 |
| Currently married (in union) | 0.629 | 0.007 | 9100 | 9117 | 1.381 | 0.011 | 0.615 | 0.643 |
| Married before age 20 | 0.383 | 0.009 | 7837 | 7897 | 1.715 | 0.025 | 0.364 | 0.402 |
| Had sexual intercourse before age 18 | 0.187 | 0.007 | 7837 | 7897 | 1.638 | 0.039 | 0.173 | 0.202 |
| Currently pregnant | 0.039 | 0.002 | 9100 | 9117 | 1.198 | 0.062 | 0.034 | 0.044 |
| Children ever born | 1.811 | 0.035 | 9100 | 9117 | 1.647 | 0.020 | 1.740 | 1.882 |
| Children surviving | 1.597 | 0.029 | 9100 | 9117 | 1.587 | 0.018 | 1.538 | 1.656 |
| Children ever born to women age 40-49 | 3.324 | 0.081 | 2370 | 2362 | 1.625 | 0.024 | 3.161 | 3.487 |
| Know any contraceptive method | 0.980 | 0.004 | 5813 | 5737 | 1.934 | 0.004 | 0.973 | 0.987 |
| Know a modern method | 0.980 | 0.004 | 5813 | 5737 | 1.932 | 0.004 | 0.973 | 0.987 |
| Currently using any method | 0.496 | 0.010 | 5813 | 5737 | 1.501 | 0.020 | 0.477 | 0.516 |
| Currently using a modern method | 0.491 | 0.010 | 5813 | 5737 | 1.519 | 0.020 | 0.471 | 0.511 |
| Currently using pill | 0.123 | 0.006 | 5813 | 5737 | 1.456 | 0.051 | 0.111 | 0.136 |
| Currently using IUD | 0.023 | 0.004 | 5813 | 5737 | 1.795 | 0.153 | 0.016 | 0.030 |
| Currently using condoms | 0.006 | 0.001 | 5813 | 5737 | 1.451 | 0.241 | 0.003 | 0.009 |
| Currently using injectables | 0.298 | 0.008 | 5813 | 5737 | 1.295 | 0.026 | 0.283 | 0.314 |
| Currently using implants | 0.007 | 0.001 | 5813 | 5737 | 1.324 | 0.201 | 0.004 | 0.010 |
| Currently using female sterilization | 0.031 | 0.003 | 5813 | 5737 | 1.422 | 0.104 | 0.024 | 0.037 |
| Using public sector source | 0.623 | 0.015 | 2643 | 2828 | 1.563 | 0.024 | 0.594 | 0.653 |
| Want no more children | 0.593 | 0.008 | 5813 | 5737 | 1.191 | 0.013 | 0.577 | 0.608 |
| Want to delay next birth at least 2 years | 0.189 | 0.006 | 5813 | 5737 | 1.230 | 0.033 | 0.176 | 0.202 |
| Ideal number of children | 2.655 | 0.032 | 8239 | 8413 | 1.874 | 0.012 | 2.592 | 2.718 |
| Mothers received antenatal care for last birth | 0.765 | 0.019 | 2986 | 2744 | 2.345 | 0.025 | 0.727 | 0.802 |
| Mothers protected against tetanus for last birth | 0.692 | 0.016 | 2986 | 2744 | 1.837 | 0.023 | 0.660 | 0.724 |
| Births with skilled attendant at delivery | 0.523 | 0.022 | 3803 | 3333 | 2.282 | 0.042 | 0.478 | 0.567 |
| Had diarrhea in the last 2 weeks | 0.110 | 0.007 | 3617 | 3174 | 1.272 | 0.065 | 0.096 | 0.125 |
| Treated with ORS | 0.607 | 0.036 | 459 | 350 | 1.368 | 0.059 | 0.535 | 0.679 |
| Sought medical treatment for diarrhea | 0.548 | 0.035 | 459 | 350 | 1.283 | 0.063 | 0.479 | 0.618 |
| Vaccination card seen | 0.413 | 0.027 | 706 | 631 | 1.368 | 0.065 | 0.360 | 0.467 |
| Received BCG vaccination | 0.864 | 0.022 | 706 | 631 | 1.610 | 0.026 | 0.820 | 0.908 |
| Received DPT vaccination (3 doses) | 0.578 | 0.029 | 706 | 631 | 1.452 | 0.050 | 0.521 | 0.635 |
| Received polio vaccination (3 doses) | 0.639 | 0.028 | 706 | 631 | 1.460 | 0.044 | 0.583 | 0.695 |
| Received measles vaccination | 0.755 | 0.025 | 706 | 631 | 1.489 | 0.034 | 0.704 | 0.806 |
| Received all vaccinations | 0.504 | 0.029 | 706 | 631 | 1.441 | 0.057 | 0.447 | 0.561 |
| Height-for-age (-2SD) | 0.316 | 0.011 | 3690 | 3213 | 1.321 | 0.035 | 0.294 | 0.339 |
| Weight-for-height (-2SD) | 0.065 | 0.006 | 3672 | 3202 | 1.240 | 0.085 | 0.054 | 0.076 |
| Weight-for-age (-2SD) | 0.200 | 0.009 | 3692 | 3219 | 1.277 | 0.047 | 0.181 | 0.219 |
| Prevalence of anemia (children 6-59 months) | 0.575 | 0.012 | 3154 | 2676 | 1.220 | 0.021 | 0.552 | 0.599 |
| Prevalence of anemia (women 15-49) | 0.466 | 0.008 | 8923 | 8935 | 1.533 | 0.017 | 0.449 | 0.482 |
| Body Mass Index (BMI) < 18.5 | 0.167 | 0.006 | 8510 | 8579 | 1.421 | 0.034 | 0.156 | 0.179 |
| Had an HIV test and received results in past 12 months | 0.037 | 0.003 | 9100 | 9117 | 1.522 | 0.081 | 0.031 | 0.043 |
| Accepting attitudes towards people with HIV | 0.158 | 0.008 | 8040 | 8102 | 1.889 | 0.049 | 0.142 | 0.173 |
| Ever experienced any physical violence since age 15 | 0.164 | 0.009 | 3322 | 3230 | 1.378 | 0.054 | 0.146 | 0.182 |
| Ever experienced any sexual violence | 0.026 | 0.003 | 3322 | 3230 | 1.171 | 0.124 | 0.020 | 0.033 |
| Ever experienced any physical/sexual violence by any husband | 0.180 | 0.010 | 2593 | 2262 | 1.374 | 0.058 | 0.159 | 0.201 |
| Physical/sexual violence in the last 12 months by any husband | 0.118 | 0.008 | 2593 | 2262 | 1.311 | 0.070 | 0.101 | 0.135 |
| Total fertility rate (last 3 years) | 2.427 | 0.084 | 26151 | 26207 | 1.467 | 0.035 | 2.259 | 2.595 |
| Neonatal mortality (last 0-9 years) | 35.796 | 2.746 | 7940 | 7083 | 1.093 | 0.077 | 30.304 | 41.288 |
| Post-neonatal mortality (last 0-9 years) | 28.633 | 3.225 | 7964 | 7103 | 1.460 | 0.113 | 22.182 | 35.083 |
| Infant mortality (last 0-9 years) | 64.428 | 4.201 | 7951 | 7090 | 1.257 | 0.065 | 56.027 | 72.830 |
| Child mortality (last 0-9 years) | 16.755 | 2.064 | 7995 | 7178 | 1.266 | 0.123 | 12.628 | 20.883 |
| Under-five mortality (last 0-9 years) | 80.104 | 5.081 | 7999 | 7125 | 1.357 | 0.063 | 69.943 | 90.266 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.000 | 0.000 | 3416 | 3387 | na | na | 0.000 | 0.000 |
| Literacy | 0.883 | 0.012 | 3416 | 3387 | 2.166 | 0.013 | 0.860 | 0.907 |
| No education | 0.152 | 0.012 | 3416 | 3387 | 1.892 | 0.077 | 0.129 | 0.175 |
| Secondary or higher education | 0.431 | 0.015 | 3416 | 3387 | 1.784 | 0.035 | 0.401 | 0.461 |
| Never married (in union) | 0.325 | 0.011 | 3416 | 3387 | 1.361 | 0.034 | 0.303 | 0.347 |
| Currently married (in union) | 0.647 | 0.011 | 3416 | 3387 | 1.351 | 0.017 | 0.624 | 0.669 |
| Had first sexual intercourse before age 18 | 0.077 | 0.006 | 2862 | 2875 | 1.235 | 0.080 | 0.065 | 0.089 |
| Knows any contraceptive method | 0.962 | 0.007 | 2167 | 2190 | 1.818 | 0.008 | 0.947 | 0.977 |
| Knows any modern contraceptive method | 0.957 | 0.008 | 2167 | 2190 | 1.762 | 0.008 | 0.942 | 0.973 |
| Want no more children | 0.449 | 0.012 | 2167 | 2190 | 1.141 | 0.027 | 0.424 | 0.473 |
| Want to delay birth at least 2 years | 0.251 | 0.012 | 2167 | 2190 | 1.303 | 0.048 | 0.227 | 0.276 |
| Ideal family size | 2.957 | 0.059 | 3213 | 3185 | 1.909 | 0.020 | 2.838 | 3.076 |
| Had HIV test and received results in past 12 months | 0.033 | 0.004 | 3416 | 3387 | 1.372 | 0.127 | 0.025 | 0.041 |
| Accepting attitudes towards people with HIV | 0.154 | 0.009 | 3092 | 3039 | 1.374 | 0.058 | 0.136 | 0.172 |
| na=not applicable |  |  |  |  |  |  |  |  |

Table B. 5 Sampling errors: Kachin sample, Myanmar 2015-16

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | $\begin{aligned} & \text { Relative } \\ & \text { error } \\ & \text { (SE/R) } \\ & \hline \end{aligned}$ | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Un- weighted (N) <br> ( N ) | Weighted (WN) |  |  | $\begin{gathered} \text { Lower } \\ \text { (R-2SE) } \end{gathered}$ | Upper (R+2SE) |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.343 | 0.035 | 804 | 374 | 2.063 | 0.101 | 0.274 | 0.412 |
| Literacy | 0.907 | 0.013 | 804 | 374 | 1.226 | 0.014 | 0.882 | 0.932 |
| No education | 0.028 | 0.009 | 804 | 374 | 1.618 | 0.337 | 0.009 | 0.047 |
| Secondary or higher education | 0.585 | 0.033 | 804 | 374 | 1.923 | 0.057 | 0.518 | 0.652 |
| Never married (never in union) | 0.287 | 0.015 | 804 | 374 | 0.967 | 0.054 | 0.256 | 0.318 |
| Currently married (in union) | 0.636 | 0.021 | 804 | 374 | 1.250 | 0.033 | 0.593 | 0.678 |
| Married before age 20 | 0.365 | 0.028 | 679 | 315 | 1.517 | 0.077 | 0.309 | 0.422 |
| Had sexual intercourse before age 18 | 0.179 | 0.023 | 679 | 315 | 1.534 | 0.126 | 0.134 | 0.224 |
| Currently pregnant | 0.059 | 0.010 | 804 | 374 | 1.146 | 0.161 | 0.040 | 0.078 |
| Children ever born | 2.005 | 0.100 | 804 | 374 | 1.364 | 0.050 | 1.804 | 2.205 |
| Children surviving | 1.795 | 0.078 | 804 | 374 | 1.205 | 0.043 | 1.640 | 1.951 |
| Children ever born to women age 40-49 | 3.535 | 0.223 | 224 | 102 | 1.504 | 0.063 | 3.088 | 3.981 |
| Know any contraceptive method | 0.993 | 0.005 | 505 | 238 | 1.325 | 0.005 | 0.983 | 1.003 |
| Know a modern method | 0.993 | 0.005 | 505 | 238 | 1.325 | 0.005 | 0.983 | 1.003 |
| Currently using any method | 0.435 | 0.033 | 505 | 238 | 1.486 | 0.075 | 0.370 | 0.501 |
| Currently using a modern method | 0.416 | 0.035 | 505 | 238 | 1.574 | 0.083 | 0.347 | 0.486 |
| Currently using pill | 0.150 | 0.023 | 505 | 238 | 1.458 | 0.155 | 0.103 | 0.196 |
| Currently using IUD | 0.009 | 0.004 | 505 | 238 | 0.864 | 0.415 | 0.001 | 0.016 |
| Currently using condoms | 0.030 | 0.008 | 505 | 238 | 1.032 | 0.261 | 0.014 | 0.046 |
| Currently using injectables | 0.171 | 0.029 | 505 | 238 | 1.705 | 0.168 | 0.114 | 0.228 |
| Currently using implants | 0.009 | 0.007 | 505 | 238 | 1.687 | 0.779 | 0.000 | 0.024 |
| Currently using female sterilization | 0.040 | 0.010 | 505 | 238 | 1.138 | 0.247 | 0.020 | 0.060 |
| Using public sector source | 0.498 | 0.053 | 194 | 99 | 1.458 | 0.106 | 0.393 | 0.603 |
| Want no more children | 0.578 | 0.022 | 505 | 238 | 0.997 | 0.038 | 0.534 | 0.622 |
| Want to delay next birth at least 2 years | 0.169 | 0.027 | 505 | 238 | 1.641 | 0.162 | 0.114 | 0.224 |
| Ideal number of children | 3.022 | 0.072 | 778 | 362 | 1.267 | 0.024 | 2.877 | 3.167 |
| Mothers received antenatal care for last birth | 0.800 | 0.055 | 277 | 133 | 2.280 | 0.068 | 0.691 | 0.909 |
| Mothers protected against tetanus for last birth | 0.802 | 0.041 | 277 | 133 | 1.703 | 0.051 | 0.720 | 0.883 |
| Births with skilled attendant at delivery | 0.637 | 0.058 | 353 | 168 | 2.028 | 0.092 | 0.520 | 0.754 |
| Had diarrhea in the last 2 weeks | 0.200 | 0.039 | 340 | 162 | 1.662 | 0.197 | 0.121 | 0.278 |
| Treated with ORS | 0.635 | 0.120 | 56 | 32 | 1.958 | 0.189 | 0.395 | 0.874 |
| Sought medical treatment for diarrhea | 0.522 | 0.105 | 56 | 32 | 1.591 | 0.201 | 0.312 | 0.731 |
| Vaccination card seen | 0.553 | 0.097 | 60 | 26 | 1.413 | 0.176 | 0.359 | 0.747 |
| Received BCG vaccination | 0.912 | 0.036 | 60 | 26 | 0.930 | 0.039 | 0.840 | 0.983 |
| Received DPT vaccination (3 doses) | 0.736 | 0.081 | 60 | 26 | 1.294 | 0.110 | 0.575 | 0.898 |
| Received polio vaccination (3 doses) | 0.704 | 0.091 | 60 | 26 | 1.421 | 0.130 | 0.521 | 0.886 |
| Received measles vaccination | 0.819 | 0.046 | 60 | 26 | 0.883 | 0.056 | 0.726 | 0.911 |
| Received all vaccinations | 0.594 | 0.083 | 60 | 26 | 1.223 | 0.140 | 0.428 | 0.761 |
| Height-for-age (-2SD) | 0.361 | 0.041 | 321 | 154 | 1.491 | 0.114 | 0.279 | 0.443 |
| Weight-for-height (-2SD) | 0.040 | 0.022 | 321 | 154 | 1.986 | 0.548 | 0.000 | 0.084 |
| Weight-for-age (-2SD) | 0.173 | 0.048 | 321 | 154 | 2.030 | 0.275 | 0.078 | 0.268 |
| Prevalence of anemia (children 6-59 months) | 0.478 | 0.030 | 296 | 141 | 1.031 | 0.063 | 0.418 | 0.538 |
| Prevalence of anemia (women 15-49) | 0.366 | 0.019 | 780 | 363 | 1.122 | 0.053 | 0.327 | 0.405 |
| Body Mass Index (BMI) < 18.5 | 0.101 | 0.024 | 727 | 339 | 2.135 | 0.236 | 0.053 | 0.149 |
| Had an HIV test and received results in past 12 months | 0.069 | 0.011 | 804 | 374 | 1.276 | 0.165 | 0.046 | 0.092 |
| Accepting attitudes towards people with HIV | 0.259 | 0.021 | 772 | 358 | 1.319 | 0.080 | 0.218 | 0.301 |
| Ever experienced any physical violence since age 15 | 0.239 | 0.034 | 272 | 128 | 1.304 | 0.142 | 0.171 | 0.307 |
| Ever experienced any sexual violence | 0.045 | 0.013 | 272 | 128 | 0.995 | 0.278 | 0.020 | 0.070 |
| Ever experienced any physical/sexual violence by any husband | 0.260 | 0.032 | 212 | 91 | 1.059 | 0.123 | 0.196 | 0.324 |
| Physical/sexual violence in the last 12 months by any husband | 0.225 | 0.038 | 212 | 91 | 1.317 | 0.169 | 0.149 | 0.300 |
| Total fertility rate (last 3 years) | 2.979 | 0.278 | 2293 | 1067 | 1.313 | 0.093 | 2.422 | 3.535 |
| Neonatal mortality (last 0-9 years) | 30.252 | 9.883 | 724 | 344 | 1.404 | 0.327 | 10.485 | 50.018 |
| Post-neonatal mortality (last 0-9 years) | 19.577 | 5.497 | 725 | 346 | 0.957 | 0.281 | 8.583 | 30.572 |
| Infant mortality (last 0-9 years) | 49.829 | 10.662 | 726 | 346 | 1.151 | 0.214 | 28.504 | 71.154 |
| Child mortality (last 0-9 years) | 11.672 | 4.431 | 731 | 349 | 0.970 | 0.380 | 2.811 | 20.534 |
| Under-five mortality (last 0-9 years) | 60.920 | 11.503 | 728 | 347 | 1.121 | 0.189 | 37.914 | 83.926 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.315 | 0.045 | 328 | 161 | 1.733 | 0.142 | 0.226 | 0.405 |
| Literacy | 0.962 | 0.011 | 328 | 161 | 1.064 | 0.012 | 0.939 | 0.984 |
| No education | 0.067 | 0.016 | 328 | 161 | 1.164 | 0.241 | 0.035 | 0.099 |
| Secondary or higher education | 0.579 | 0.045 | 328 | 161 | 1.652 | 0.078 | 0.489 | 0.670 |
| Never married (in union) | 0.388 | 0.031 | 328 | 161 | 1.153 | 0.080 | 0.326 | 0.450 |
| Currently married (in union) | 0.580 | 0.031 | 328 | 161 | 1.131 | 0.053 | 0.518 | 0.641 |
| Had first sexual intercourse before age 18 | 0.077 | 0.019 | 283 | 141 | 1.173 | 0.242 | 0.040 | 0.114 |
| Knows any contraceptive method | 0.977 | 0.010 | 186 | 93 | 0.932 | 0.010 | 0.957 | 0.998 |
| Knows any modern contraceptive method | 0.977 | 0.010 | 186 | 93 | 0.932 | 0.010 | 0.957 | 0.998 |
| Want no more children | 0.449 | 0.038 | 186 | 93 | 1.046 | 0.085 | 0.372 | 0.525 |
| Want to delay birth at least 2 years | 0.214 | 0.025 | 186 | 93 | 0.843 | 0.119 | 0.163 | 0.265 |
| Ideal family size | 3.395 | 0.160 | 312 | 154 | 1.735 | 0.047 | 3.075 | 3.716 |
| Had HIV test and received results in past 12 months | 0.037 | 0.010 | 328 | 161 | 0.941 | 0.266 | 0.017 | 0.056 |
| Accepting attitudes towards people with HIV | 0.279 | 0.025 | 320 | 156 | 1.003 | 0.090 | 0.229 | 0.330 |

Table B. 6 Sampling errors: Kayah sample, Myanmar 2015-16

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | $\begin{aligned} & \text { Relative } \\ & \text { error } \\ & \text { (SE/R) } \\ & \hline \end{aligned}$ | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Un- weighted (N) | Weighted (WN) |  |  | $\begin{aligned} & \text { Lower } \\ & \text { (R-2SE) } \end{aligned}$ | Upper (R+2SE) |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.273 | 0.016 | 757 | 65 | 0.957 | 0.057 | 0.242 | 0.304 |
| Literacy | 0.927 | 0.011 | 757 | 65 | 1.123 | 0.011 | 0.906 | 0.948 |
| No education | 0.147 | 0.029 | 757 | 65 | 2.260 | 0.199 | 0.089 | 0.205 |
| Secondary or higher education | 0.552 | 0.033 | 757 | 65 | 1.821 | 0.060 | 0.486 | 0.618 |
| Never married (never in union) | 0.314 | 0.020 | 757 | 65 | 1.168 | 0.063 | 0.274 | 0.353 |
| Currently married (in union) | 0.618 | 0.023 | 757 | 65 | 1.324 | 0.038 | 0.572 | 0.665 |
| Married before age 20 | 0.324 | 0.026 | 651 | 56 | 1.422 | 0.081 | 0.272 | 0.376 |
| Had sexual intercourse before age 18 | 0.147 | 0.020 | 651 | 56 | 1.435 | 0.136 | 0.107 | 0.187 |
| Currently pregnant | 0.048 | 0.009 | 757 | 65 | 1.188 | 0.192 | 0.030 | 0.067 |
| Children ever born | 2.079 | 0.137 | 757 | 65 | 1.569 | 0.066 | 1.805 | 2.353 |
| Children surviving | 1.911 | 0.117 | 757 | 65 | 1.494 | 0.061 | 1.677 | 2.145 |
| Children ever born to women age 40-49 | 3.878 | 0.339 | 185 | 16 | 1.519 | 0.087 | 3.200 | 4.556 |
| Know any contraceptive method | 0.998 | 0.002 | 468 | 40 | 0.995 | 0.002 | 0.994 | 1.002 |
| Know a modern method | 0.998 | 0.002 | 468 | 40 | 0.995 | 0.002 | 0.994 | 1.002 |
| Currently using any method | 0.545 | 0.041 | 468 | 40 | 1.790 | 0.076 | 0.462 | 0.628 |
| Currently using a modern method | 0.506 | 0.046 | 468 | 40 | 1.981 | 0.091 | 0.414 | 0.598 |
| Currently using pill | 0.102 | 0.022 | 468 | 40 | 1.591 | 0.219 | 0.058 | 0.147 |
| Currently using IUD | 0.040 | 0.010 | 468 | 40 | 1.146 | 0.261 | 0.019 | 0.060 |
| Currently using condoms | 0.011 | 0.004 | 468 | 40 | 0.940 | 0.421 | 0.002 | 0.019 |
| Currently using injectables | 0.221 | 0.027 | 468 | 40 | 1.425 | 0.124 | 0.167 | 0.276 |
| Currently using implants | 0.007 | 0.004 | 468 | 40 | 0.969 | 0.551 | 0.000 | 0.014 |
| Currently using female sterilization | 0.102 | 0.023 | 468 | 40 | 1.633 | 0.224 | 0.056 | 0.148 |
| Using public sector source | 0.724 | 0.033 | 236 | 20 | 1.135 | 0.046 | 0.658 | 0.791 |
| Want no more children | 0.581 | 0.033 | 468 | 40 | 1.447 | 0.057 | 0.515 | 0.647 |
| Want to delay next birth at least 2 years | 0.208 | 0.022 | 468 | 40 | 1.144 | 0.103 | 0.165 | 0.251 |
| Ideal number of children | 3.246 | 0.139 | 609 | 52 | 2.172 | 0.043 | 2.968 | 3.524 |
| Mothers received antenatal care for last birth | 0.933 | 0.021 | 276 | 24 | 1.358 | 0.022 | 0.891 | 0.974 |
| Mothers protected against tetanus for last birth | 0.759 | 0.031 | 276 | 24 | 1.202 | 0.041 | 0.697 | 0.821 |
| Births with skilled attendant at delivery | 0.532 | 0.066 | 379 | 32 | 2.153 | 0.124 | 0.400 | 0.664 |
| Had diarrhea in the last 2 weeks | 0.106 | 0.014 | 369 | 31 | 0.878 | 0.135 | 0.077 | 0.134 |
| Treated with ORS | 0.765 | 0.067 | 39 | 3 | 0.897 | 0.087 | 0.631 | 0.898 |
| Sought medical treatment for diarrhea | 0.591 | 0.086 | 39 | 3 | 1.096 | 0.145 | 0.419 | 0.763 |
| Vaccination card seen | 0.470 | 0.083 | 66 | 6 | 1.340 | 0.176 | 0.305 | 0.636 |
| Received BCG vaccination | 1.000 | 0.000 | 66 | 6 | na | 0.000 | 1.000 | 1.000 |
| Received DPT vaccination (3 doses) | 0.848 | 0.042 | 66 | 6 | 0.937 | 0.049 | 0.765 | 0.931 |
| Received polio vaccination (3 doses) | 0.848 | 0.041 | 66 | 6 | 0.917 | 0.048 | 0.766 | 0.929 |
| Received measles vaccination | 0.956 | 0.030 | 66 | 6 | 1.190 | 0.032 | 0.895 | 1.016 |
| Received all vaccinations | 0.803 | 0.057 | 66 | 6 | 1.155 | 0.071 | 0.690 | 0.917 |
| Height-for-age (-2SD) | 0.397 | 0.031 | 353 | 30 | 1.130 | 0.078 | 0.335 | 0.459 |
| Weight-for-height (-2SD) | 0.026 | 0.008 | 349 | 30 | 0.901 | 0.298 | 0.010 | 0.041 |
| Weight-for-age (-2SD) | 0.179 | 0.022 | 353 | 30 | 1.002 | 0.126 | 0.134 | 0.224 |
| Prevalence of anemia (children 6-59 months) | 0.456 | 0.041 | 296 | 25 | 1.376 | 0.090 | 0.374 | 0.538 |
| Prevalence of anemia (women 15-49) | 0.309 | 0.022 | 738 | 63 | 1.295 | 0.071 | 0.264 | 0.353 |
| Body Mass Index (BMI) < 18.5 | 0.093 | 0.012 | 707 | 60 | 1.063 | 0.125 | 0.070 | 0.116 |
| Had an HIV test and received results in past 12 months | 0.078 | 0.014 | 757 | 65 | 1.413 | 0.177 | 0.050 | 0.105 |
| Accepting attitudes towards people with HIV | 0.267 | 0.020 | 718 | 61 | 1.187 | 0.073 | 0.228 | 0.306 |
| Ever experienced any physical violence since age 15 | 0.124 | 0.019 | 284 | 24 | 0.972 | 0.153 | 0.086 | 0.163 |
| Ever experienced any sexual violence | 0.097 | 0.018 | 284 | 24 | 1.021 | 0.185 | 0.061 | 0.133 |
| Ever experienced any physical/sexual violence by any husband | 0.189 | 0.023 | 215 | 15 | 0.852 | 0.120 | 0.144 | 0.235 |
| Physical/sexual violence in the last 12 months by any husband | 0.122 | 0.021 | 215 | 15 | 0.919 | 0.168 | 0.081 | 0.163 |
| Total fertility rate (last 3 years) | 3.299 | 0.338 | 2175 | 186 | 1.558 | 0.103 | 2.623 | 3.976 |
| Neonatal mortality (last 0-9 years) | 26.423 | 7.410 | 751 | 64 | 1.219 | 0.280 | 11.604 | 41.242 |
| Post-neonatal mortality (last 0-9 years) | 11.612 | 3.928 | 760 | 65 | 0.976 | 0.338 | 3.755 | 19.469 |
| Infant mortality (last 0-9 years) | 38.035 | 7.881 | 751 | 64 | 1.048 | 0.207 | 22.273 | 53.797 |
| Child mortality (last 0-9 years) | 12.674 | 4.174 | 758 | 65 | 0.991 | 0.329 | 4.325 | 21.022 |
| Under-five mortality (last 0-9 years) | 50.226 | 9.943 | 756 | 64 | 1.169 | 0.198 | 30.340 | 70.113 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.234 | 0.033 | 264 | 23 | 1.247 | 0.139 | 0.169 | 0.299 |
| Literacy | 0.878 | 0.029 | 264 | 23 | 1.434 | 0.033 | 0.820 | 0.936 |
| No education | 0.111 | 0.030 | 264 | 23 | 1.552 | 0.271 | 0.051 | 0.171 |
| Secondary or higher education | 0.573 | 0.044 | 264 | 23 | 1.426 | 0.076 | 0.486 | 0.660 |
| Never married (in union) | 0.338 | 0.037 | 264 | 23 | 1.272 | 0.110 | 0.264 | 0.413 |
| Currently married (in union) | 0.658 | 0.037 | 264 | 23 | 1.279 | 0.057 | 0.583 | 0.733 |
| Had first sexual intercourse before age 18 | 0.063 | 0.014 | 223 | 19 | 0.877 | 0.228 | 0.034 | 0.091 |
| Knows any contraceptive method | 0.983 | 0.010 | 173 | 15 | 0.993 | 0.010 | 0.963 | 1.003 |
| Knows any modern contraceptive method | 0.983 | 0.010 | 173 | 15 | 0.993 | 0.010 | 0.963 | 1.003 |
| Want no more children | 0.419 | 0.033 | 173 | 15 | 0.879 | 0.079 | 0.353 | 0.486 |
| Want to delay birth at least 2 years | 0.270 | 0.028 | 173 | 15 | 0.840 | 0.105 | 0.213 | 0.327 |
| Ideal family size | 3.472 | 0.204 | 240 | 21 | 1.996 | 0.059 | 3.063 | 3.881 |
| Had HIV test and received results in past 12 months | 0.053 | 0.018 | 264 | 23 | 1.330 | 0.348 | 0.016 | 0.090 |
| Accepting attitudes towards people with HIV | 0.203 | 0.024 | 247 | 21 | 0.931 | 0.117 | 0.156 | 0.251 |
| na=not applicable |  |  |  |  |  |  |  |  |

Table B. 7 Sampling errors: Kayin sample, Myanmar 2015-16

| Variable | Value (R) | Standarderror(SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted ( N ) | Weighted (WN) |  |  | $\begin{aligned} & \text { Lower } \\ & \text { (R-2SE) } \end{aligned}$ | Upper (R+2SE) |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.236 | 0.026 | 751 | 303 | 1.678 | 0.110 | 0.184 | 0.289 |
| Literacy | 0.935 | 0.009 | 751 | 303 | 1.031 | 0.010 | 0.916 | 0.953 |
| No education | 0.222 | 0.043 | 751 | 303 | 2.793 | 0.192 | 0.137 | 0.307 |
| Secondary or higher education | 0.409 | 0.042 | 751 | 303 | 2.349 | 0.103 | 0.324 | 0.493 |
| Never married (never in union) | 0.264 | 0.020 | 751 | 303 | 1.248 | 0.076 | 0.224 | 0.305 |
| Currently married (in union) | 0.663 | 0.022 | 751 | 303 | 1.258 | 0.033 | 0.620 | 0.706 |
| Married before age 20 | 0.366 | 0.026 | 650 | 262 | 1.371 | 0.071 | 0.314 | 0.417 |
| Had sexual intercourse before age 18 | 0.193 | 0.023 | 650 | 262 | 1.489 | 0.120 | 0.147 | 0.239 |
| Currently pregnant | 0.049 | 0.012 | 751 | 303 | 1.510 | 0.243 | 0.025 | 0.073 |
| Children ever born | 2.197 | 0.116 | 751 | 303 | 1.472 | 0.053 | 1.965 | 2.429 |
| Children surviving | 1.939 | 0.083 | 751 | 303 | 1.234 | 0.043 | 1.772 | 2.105 |
| Children ever born to women age 40-49 | 3.676 | 0.189 | 210 | 85 | 1.210 | 0.051 | 3.298 | 4.054 |
| Know any contraceptive method | 0.980 | 0.008 | 494 | 201 | 1.279 | 0.008 | 0.964 | 0.996 |
| Know a modern method | 0.980 | 0.008 | 494 | 201 | 1.279 | 0.008 | 0.964 | 0.996 |
| Currently using any method | 0.405 | 0.030 | 494 | 201 | 1.370 | 0.075 | 0.344 | 0.465 |
| Currently using a modern method | 0.395 | 0.031 | 494 | 201 | 1.394 | 0.078 | 0.333 | 0.456 |
| Currently using pill | 0.147 | 0.021 | 494 | 201 | 1.322 | 0.144 | 0.104 | 0.189 |
| Currently using IUD | 0.018 | 0.006 | 494 | 201 | 1.044 | 0.344 | 0.006 | 0.031 |
| Currently using condoms | 0.013 | 0.005 | 494 | 201 | 1.022 | 0.404 | 0.002 | 0.023 |
| Currently using injectables | 0.139 | 0.017 | 494 | 201 | 1.083 | 0.122 | 0.105 | 0.172 |
| Currently using implants | 0.008 | 0.005 | 494 | 201 | 1.236 | 0.619 | 0.000 | 0.018 |
| Currently using female sterilization | 0.069 | 0.014 | 494 | 201 | 1.246 | 0.206 | 0.040 | 0.097 |
| Using public sector source | 0.394 | 0.040 | 202 | 81 | 1.154 | 0.101 | 0.314 | 0.473 |
| Want no more children | 0.552 | 0.020 | 494 | 201 | 0.909 | 0.037 | 0.511 | 0.593 |
| Want to delay next birth at least 2 years | 0.202 | 0.021 | 494 | 201 | 1.165 | 0.104 | 0.160 | 0.244 |
| Ideal number of children | 3.235 | 0.125 | 674 | 271 | 1.896 | 0.039 | 2.986 | 3.485 |
| Mothers received antenatal care for last birth | 0.717 | 0.071 | 273 | 113 | 2.615 | 0.099 | 0.575 | 0.859 |
| Mothers protected against tetanus for last birth | 0.673 | 0.062 | 273 | 113 | 2.184 | 0.092 | 0.550 | 0.797 |
| Births with skilled attendant at delivery | 0.496 | 0.076 | 351 | 147 | 2.499 | 0.154 | 0.344 | 0.648 |
| Had diarrhea in the last 2 weeks | 0.165 | 0.022 | 336 | 140 | 1.028 | 0.131 | 0.122 | 0.208 |
| Treated with ORS | 0.509 | 0.059 | 54 | 23 | 0.904 | 0.115 | 0.391 | 0.626 |
| Sought medical treatment for diarrhea | 0.476 | 0.085 | 54 | 23 | 1.256 | 0.178 | 0.306 | 0.646 |
| Vaccination card seen | 0.658 | 0.073 | 66 | 28 | 1.286 | 0.112 | 0.511 | 0.805 |
| Received BCG vaccination | 0.884 | 0.042 | 66 | 28 | 1.099 | 0.048 | 0.799 | 0.968 |
| Received DPT vaccination (3 doses) | 0.709 | 0.067 | 66 | 28 | 1.226 | 0.095 | 0.575 | 0.843 |
| Received polio vaccination (3 doses) | 0.725 | 0.060 | 66 | 28 | 1.124 | 0.083 | 0.604 | 0.846 |
| Received measles vaccination | 0.826 | 0.052 | 66 | 28 | 1.149 | 0.063 | 0.721 | 0.931 |
| Received all vaccinations | 0.650 | 0.070 | 66 | 28 | 1.213 | 0.107 | 0.511 | 0.789 |
| Height-for-age (-2SD) | 0.254 | 0.033 | 410 | 177 | 1.539 | 0.131 | 0.187 | 0.321 |
| Weight-for-height (-2SD) | 0.059 | 0.011 | 411 | 177 | 0.961 | 0.186 | 0.037 | 0.080 |
| Weight-for-age (-2SD) | 0.152 | 0.018 | 413 | 178 | 0.969 | 0.115 | 0.117 | 0.187 |
| Prevalence of anemia (children 6-59 months) | 0.467 | 0.019 | 373 | 162 | 0.743 | 0.041 | 0.429 | 0.504 |
| Prevalence of anemia (women 15-49) | 0.441 | 0.022 | 731 | 295 | 1.221 | 0.051 | 0.396 | 0.486 |
| Body Mass Index (BMI) < 18.5 | 0.135 | 0.013 | 690 | 278 | 0.977 | 0.094 | 0.110 | 0.161 |
| Had an HIV test and received results in past 12 months | 0.075 | 0.011 | 751 | 303 | 1.173 | 0.151 | 0.052 | 0.097 |
| Accepting attitudes towards people with HIV | 0.163 | 0.014 | 665 | 267 | 0.972 | 0.085 | 0.136 | 0.191 |
| Ever experienced any physical violence since age 15 | 0.182 | 0.033 | 297 | 114 | 1.486 | 0.183 | 0.116 | 0.249 |
| Ever experienced any sexual violence | 0.032 | 0.012 | 297 | 114 | 1.189 | 0.381 | 0.008 | 0.056 |
| Ever experienced any physical/sexual violence by any husband | 0.201 | 0.043 | 240 | 88 | 1.638 | 0.212 | 0.116 | 0.286 |
| Physical/sexual violence in the last 12 months by any husband | 0.099 | 0.024 | 240 | 88 | 1.219 | 0.237 | 0.052 | 0.147 |
| Total fertility rate (last 3 years) | 3.914 | 0.366 | 2154 | 868 | 1.445 | 0.094 | 3.182 | 4.646 |
| Neonatal mortality (last 0-9 years) | 33.028 | 9.538 | 734 | 306 | 1.248 | 0.289 | 13.952 | 52.103 |
| Post-neonatal mortality (last 0-9 years) | 32.489 | 14.276 | 738 | 308 | 1.935 | 0.439 | 3.936 | 61.041 |
| Infant mortality (last 0-9 years) | 65.516 | 14.164 | 735 | 307 | 1.371 | 0.216 | 37.189 | 93.844 |
| Child mortality (last 0-9 years) | 19.629 | 10.426 | 711 | 296 | 1.706 | 0.531 | 0.000 | 40.481 |
| Under-five mortality (last 0-9 years) | 83.860 | 22.326 | 741 | 310 | 1.734 | 0.266 | 39.207 | 128.513 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.250 | 0.024 | 300 | 115 | 0.950 | 0.095 | 0.203 | 0.298 |
| Literacy | 0.721 | 0.039 | 300 | 115 | 1.508 | 0.054 | 0.642 | 0.799 |
| No education | 0.317 | 0.045 | 300 | 115 | 1.658 | 0.141 | 0.227 | 0.406 |
| Secondary or higher education | 0.422 | 0.048 | 300 | 115 | 1.675 | 0.114 | 0.326 | 0.518 |
| Never married (in union) | 0.366 | 0.030 | 300 | 115 | 1.064 | 0.081 | 0.307 | 0.426 |
| Currently married (in union) | 0.613 | 0.027 | 300 | 115 | 0.961 | 0.044 | 0.559 | 0.667 |
| Had first sexual intercourse before age 18 | 0.093 | 0.020 | 254 | 97 | 1.070 | 0.210 | 0.054 | 0.132 |
| Knows any contraceptive method | 0.966 | 0.012 | 179 | 70 | 0.877 | 0.012 | 0.942 | 0.990 |
| Knows any modern contraceptive method | 0.966 | 0.012 | 179 | 70 | 0.877 | 0.012 | 0.942 | 0.990 |
| Want no more children | 0.445 | 0.037 | 179 | 70 | 0.998 | 0.084 | 0.371 | 0.519 |
| Want to delay birth at least 2 years | 0.323 | 0.032 | 179 | 70 | 0.907 | 0.098 | 0.260 | 0.387 |
| Ideal family size | 3.029 | 0.108 | 294 | 113 | 0.743 | 0.036 | 2.812 | 3.246 |
| Had HIV test and received results in past 12 months | 0.041 | 0.011 | 300 | 115 | 0.992 | 0.279 | 0.018 | 0.063 |
| Accepting attitudes towards people with HIV | 0.194 | 0.036 | 264 | 101 | 1.480 | 0.187 | 0.121 | 0.266 |

Table B. 8 Sampling errors: Chin sample, Myanmar 2015-16

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | $\begin{aligned} & \text { Lower } \\ & \text { (R-2SE) } \end{aligned}$ | Upper (R+2SE) |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.253 | 0.016 | 750 | 102 | 0.988 | 0.062 | 0.221 | 0.284 |
| Literacy | 0.943 | 0.015 | 750 | 102 | 1.720 | 0.015 | 0.914 | 0.972 |
| No education | 0.139 | 0.028 | 750 | 102 | 2.224 | 0.203 | 0.083 | 0.195 |
| Secondary or higher education | 0.560 | 0.027 | 750 | 102 | 1.484 | 0.048 | 0.506 | 0.614 |
| Never married (never in union) | 0.271 | 0.019 | 750 | 102 | 1.160 | 0.069 | 0.234 | 0.309 |
| Currently married (in union) | 0.645 | 0.022 | 750 | 102 | 1.238 | 0.034 | 0.601 | 0.688 |
| Married before age 20 | 0.363 | 0.027 | 621 | 85 | 1.406 | 0.075 | 0.308 | 0.417 |
| Had sexual intercourse before age 18 | 0.161 | 0.020 | 621 | 85 | 1.352 | 0.124 | 0.121 | 0.201 |
| Currently pregnant | 0.066 | 0.008 | 750 | 102 | 0.930 | 0.128 | 0.049 | 0.083 |
| Children ever born | 2.704 | 0.117 | 750 | 102 | 1.146 | 0.043 | 2.470 | 2.938 |
| Children surviving | 2.337 | 0.097 | 750 | 102 | 1.104 | 0.041 | 2.144 | 2.530 |
| Children ever born to women age 40-49 | 5.188 | 0.217 | 197 | 27 | 1.098 | 0.042 | 4.754 | 5.621 |
| Know any contraceptive method | 0.875 | 0.031 | 481 | 66 | 2.052 | 0.035 | 0.813 | 0.937 |
| Know a modern method | 0.867 | 0.034 | 481 | 66 | 2.167 | 0.039 | 0.799 | 0.934 |
| Currently using any method | 0.254 | 0.033 | 481 | 66 | 1.679 | 0.132 | 0.187 | 0.321 |
| Currently using a modern method | 0.252 | 0.033 | 481 | 66 | 1.677 | 0.132 | 0.185 | 0.318 |
| Currently using pill | 0.057 | 0.013 | 481 | 66 | 1.252 | 0.233 | 0.030 | 0.083 |
| Currently using IUD | 0.040 | 0.017 | 481 | 66 | 1.860 | 0.419 | 0.006 | 0.073 |
| Currently using condoms | 0.000 | 0.000 | 481 | 66 | na | na | 0.000 | 0.000 |
| Currently using injectables | 0.048 | 0.013 | 481 | 66 | 1.339 | 0.273 | 0.022 | 0.074 |
| Currently using implants | 0.056 | 0.019 | 481 | 66 | 1.757 | 0.329 | 0.019 | 0.093 |
| Currently using female sterilization | 0.051 | 0.013 | 481 | 66 | 1.259 | 0.247 | 0.026 | 0.077 |
| Using public sector source | 0.595 | 0.070 | 123 | 17 | 1.570 | 0.118 | 0.454 | 0.735 |
| Want no more children | 0.502 | 0.027 | 481 | 66 | 1.179 | 0.054 | 0.448 | 0.555 |
| Want to delay next birth at least 2 years | 0.225 | 0.020 | 481 | 66 | 1.047 | 0.089 | 0.185 | 0.265 |
| Ideal number of children | 4.085 | 0.149 | 705 | 95 | 2.187 | 0.037 | 3.786 | 4.383 |
| Mothers received antenatal care for last birth | 0.735 | 0.060 | 315 | 43 | 2.395 | 0.081 | 0.615 | 0.855 |
| Mothers protected against tetanus for last birth | 0.691 | 0.065 | 315 | 43 | 2.494 | 0.094 | 0.561 | 0.822 |
| Births with skilled attendant at delivery | 0.356 | 0.041 | 479 | 65 | 1.555 | 0.116 | 0.273 | 0.438 |
| Had diarrhea in the last 2 weeks | 0.244 | 0.025 | 439 | 60 | 1.116 | 0.103 | 0.194 | 0.295 |
| Treated with ORS | 0.620 | 0.067 | 106 | 15 | 1.247 | 0.108 | 0.486 | 0.754 |
| Sought medical treatment for diarrhea | 0.412 | 0.082 | 106 | 15 | 1.545 | 0.200 | 0.247 | 0.576 |
| Vaccination card seen | 0.157 | 0.061 | 83 | 11 | 1.523 | 0.391 | 0.034 | 0.279 |
| Received BCG vaccination | 0.927 | 0.032 | 83 | 11 | 1.114 | 0.034 | 0.863 | 0.991 |
| Received DPT vaccination (3 doses) | 0.647 | 0.073 | 83 | 11 | 1.383 | 0.113 | 0.501 | 0.793 |
| Received polio vaccination (3 doses) | 0.699 | 0.065 | 83 | 11 | 1.287 | 0.093 | 0.569 | 0.830 |
| Received measles vaccination | 0.730 | 0.068 | 83 | 11 | 1.393 | 0.094 | 0.593 | 0.867 |
| Received all vaccinations | 0.530 | 0.084 | 83 | 11 | 1.523 | 0.158 | 0.362 | 0.698 |
| Height-for-age (-2SD) | 0.410 | 0.028 | 435 | 61 | 1.136 | 0.069 | 0.354 | 0.467 |
| Weight-for-height (-2SD) | 0.033 | 0.012 | 425 | 59 | 1.428 | 0.368 | 0.009 | 0.057 |
| Weight-for-age (-2SD) | 0.167 | 0.024 | 431 | 60 | 1.259 | 0.141 | 0.120 | 0.214 |
| Prevalence of anemia (children 6-59 months) | 0.423 | 0.041 | 378 | 53 | 1.619 | 0.097 | 0.340 | 0.505 |
| Prevalence of anemia (women 15-49) | 0.385 | 0.038 | 740 | 100 | 2.123 | 0.099 | 0.309 | 0.461 |
| Body Mass Index (BMI) < 18.5 | 0.094 | 0.012 | 679 | 92 | 1.031 | 0.123 | 0.071 | 0.117 |
| Had an HIV test and received results in past 12 months | 0.053 | 0.013 | 750 | 102 | 1.643 | 0.255 | 0.026 | 0.080 |
| Accepting attitudes towards people with HIV | 0.187 | 0.019 | 566 | 77 | 1.187 | 0.104 | 0.148 | 0.226 |
| Ever experienced any physical violence since age 15 | 0.126 | 0.024 | 264 | 35 | 1.164 | 0.189 | 0.078 | 0.173 |
| Ever experienced any sexual violence | 0.046 | 0.014 | 264 | 35 | 1.094 | 0.306 | 0.018 | 0.075 |
| Ever experienced any physical/sexual violence by any husband | 0.122 | 0.029 | 209 | 25 | 1.257 | 0.234 | 0.065 | 0.180 |
| Physical/sexual violence in the last 12 months by any husband | 0.080 | 0.020 | 209 | 25 | 1.079 | 0.254 | 0.039 | 0.121 |
| Total fertility rate (last 3 years) | 4.572 | 0.442 | 2131 | 289 | 1.372 | 0.097 | 3.688 | 5.456 |
| Neonatal mortality (last 0-9 years) | 44.374 | 6.771 | 969 | 132 | 0.971 | 0.153 | 30.832 | 57.916 |
| Post-neonatal mortality (last 0-9 years) | 30.687 | 7.727 | 966 | 132 | 1.226 | 0.252 | 15.234 | 46.140 |
| Infant mortality (last 0-9 years) | 75.061 | 10.003 | 971 | 133 | 1.031 | 0.133 | 55.055 | 95.066 |
| Child mortality (last 0-9 years) | 31.797 | 7.530 | 958 | 131 | 1.116 | 0.237 | 16.736 | 46.858 |
| Under-five mortality (last 0-9 years) | 104.471 | 13.337 | 980 | 134 | 1.156 | 0.128 | 77.797 | 131.144 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.189 | 0.018 | 296 | 39 | 0.795 | 0.096 | 0.153 | 0.225 |
| Literacy | 0.852 | 0.025 | 296 | 39 | 1.204 | 0.029 | 0.802 | 0.902 |
| No education | 0.035 | 0.011 | 296 | 39 | 1.027 | 0.313 | 0.013 | 0.057 |
| Secondary or higher education | 0.658 | 0.026 | 296 | 39 | 0.954 | 0.040 | 0.605 | 0.711 |
| Never married (in union) | 0.376 | 0.029 | 296 | 39 | 1.042 | 0.078 | 0.317 | 0.434 |
| Currently married (in union) | 0.607 | 0.030 | 296 | 39 | 1.062 | 0.050 | 0.547 | 0.668 |
| Had first sexual intercourse before age 18 | 0.121 | 0.021 | 238 | 31 | 1.015 | 0.178 | 0.078 | 0.164 |
| Knows any contraceptive method | 0.961 | 0.013 | 179 | 24 | 0.869 | 0.013 | 0.936 | 0.986 |
| Knows any modern contraceptive method | 0.950 | 0.016 | 179 | 24 | 0.959 | 0.017 | 0.918 | 0.981 |
| Want no more children | 0.425 | 0.039 | 179 | 24 | 1.060 | 0.092 | 0.346 | 0.503 |
| Want to delay birth at least 2 years | 0.337 | 0.036 | 179 | 24 | 1.009 | 0.106 | 0.265 | 0.408 |
| Ideal family size | 4.383 | 0.120 | 268 | 35 | 1.233 | 0.027 | 4.144 | 4.622 |
| Had HIV test and received results in past 12 months | 0.033 | 0.012 | 296 | 39 | 1.104 | 0.346 | 0.010 | 0.057 |
| Accepting attitudes towards people with HIV | 0.157 | 0.028 | 265 | 35 | 1.264 | 0.181 | 0.100 | 0.213 |
| na=not applicable |  |  |  |  |  |  |  |  |

Table B. 9 Sampling errors: Sagaing sample, Myanmar 2015-16

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | $\begin{aligned} & \text { Relative } \\ & \text { error } \\ & \text { (SE/R) } \\ & \hline \end{aligned}$ | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Un- weighted (N) <br> ( N ) | Weighted (WN) |  |  | $\begin{gathered} \text { Lower } \\ \text { (R-2SE) } \end{gathered}$ | $\begin{gathered} \text { Upper } \\ \text { (R+2SE) } \end{gathered}$ |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.174 | 0.013 | 1039 | 1410 | 1.111 | 0.075 | 0.147 | 0.200 |
| Literacy | 0.857 | 0.017 | 1039 | 1410 | 1.576 | 0.020 | 0.823 | 0.891 |
| No education | 0.096 | 0.020 | 1039 | 1410 | 2.221 | 0.211 | 0.056 | 0.137 |
| Secondary or higher education | 0.431 | 0.027 | 1039 | 1410 | 1.728 | 0.062 | 0.377 | 0.484 |
| Never married (never in union) | 0.349 | 0.018 | 1039 | 1410 | 1.228 | 0.052 | 0.313 | 0.386 |
| Currently married (in union) | 0.587 | 0.018 | 1039 | 1410 | 1.196 | 0.031 | 0.551 | 0.624 |
| Married before age 20 | 0.333 | 0.023 | 915 | 1245 | 1.466 | 0.069 | 0.288 | 0.379 |
| Had sexual intercourse before age 18 | 0.161 | 0.017 | 915 | 1245 | 1.427 | 0.108 | 0.126 | 0.195 |
| Currently pregnant | 0.024 | 0.005 | 1039 | 1410 | 0.995 | 0.197 | 0.015 | 0.034 |
| Children ever born | 1.813 | 0.107 | 1039 | 1410 | 1.687 | 0.059 | 1.599 | 2.027 |
| Children surviving | 1.628 | 0.089 | 1039 | 1410 | 1.590 | 0.055 | 1.450 | 1.805 |
| Children ever born to women age 40-49 | 3.323 | 0.205 | 289 | 394 | 1.494 | 0.062 | 2.913 | 3.733 |
| Know any contraceptive method | 0.986 | 0.008 | 606 | 828 | 1.636 | 0.008 | 0.971 | 1.002 |
| Know a modern method | 0.986 | 0.008 | 606 | 828 | 1.636 | 0.008 | 0.971 | 1.002 |
| Currently using any method | 0.512 | 0.031 | 606 | 828 | 1.542 | 0.061 | 0.449 | 0.575 |
| Currently using a modern method | 0.511 | 0.031 | 606 | 828 | 1.544 | 0.062 | 0.448 | 0.573 |
| Currently using pill | 0.094 | 0.016 | 606 | 828 | 1.389 | 0.176 | 0.061 | 0.127 |
| Currently using IUD | 0.022 | 0.006 | 606 | 828 | 0.968 | 0.261 | 0.011 | 0.034 |
| Currently using condoms | 0.005 | 0.003 | 606 | 828 | 0.994 | 0.562 | 0.000 | 0.011 |
| Currently using injectables | 0.314 | 0.028 | 606 | 828 | 1.467 | 0.088 | 0.258 | 0.369 |
| Currently using implants | 0.010 | 0.005 | 606 | 828 | 1.130 | 0.462 | 0.001 | 0.019 |
| Currently using female sterilization | 0.064 | 0.012 | 606 | 828 | 1.157 | 0.179 | 0.041 | 0.087 |
| Using public sector source | 0.667 | 0.039 | 312 | 424 | 1.468 | 0.059 | 0.588 | 0.745 |
| Want no more children | 0.595 | 0.020 | 606 | 828 | 0.990 | 0.033 | 0.556 | 0.635 |
| Want to delay next birth at least 2 years | 0.181 | 0.016 | 606 | 828 | 1.035 | 0.089 | 0.149 | 0.214 |
| Ideal number of children | 2.791 | 0.096 | 994 | 1348 | 2.036 | 0.034 | 2.599 | 2.983 |
| Mothers received antenatal care for last birth | 0.848 | 0.056 | 292 | 398 | 2.664 | 0.066 | 0.736 | 0.961 |
| Mothers protected against tetanus for last birth | 0.677 | 0.041 | 292 | 398 | 1.507 | 0.061 | 0.595 | 0.760 |
| Births with skilled attendant at delivery | 0.653 | 0.075 | 348 | 474 | 2.660 | 0.115 | 0.504 | 0.803 |
| Had diarrhea in the last 2 weeks | 0.061 | 0.016 | 334 | 456 | 1.160 | 0.260 | 0.029 | 0.093 |
| Treated with ORS | 0.644 | 0.163 | 20 | 28 | 1.496 | 0.253 | 0.318 | 0.970 |
| Sought medical treatment for diarrhea | 0.509 | 0.118 | 20 | 28 | 1.016 | 0.232 | 0.273 | 0.744 |
| Vaccination card seen | 0.589 | 0.073 | 58 | 79 | 1.068 | 0.124 | 0.442 | 0.735 |
| Received BCG vaccination | 0.865 | 0.047 | 58 | 79 | 0.960 | 0.055 | 0.770 | 0.959 |
| Received DPT vaccination (3 doses) | 0.715 | 0.070 | 58 | 79 | 1.083 | 0.098 | 0.576 | 0.855 |
| Received polio vaccination (3 doses) | 0.715 | 0.070 | 58 | 79 | 1.083 | 0.098 | 0.576 | 0.855 |
| Received measles vaccination | 0.769 | 0.074 | 58 | 79 | 1.253 | 0.096 | 0.622 | 0.916 |
| Received all vaccinations | 0.664 | 0.081 | 58 | 79 | 1.211 | 0.121 | 0.503 | 0.825 |
| Height-for-age (-2SD) | 0.267 | 0.026 | 335 | 474 | 1.072 | 0.099 | 0.214 | 0.320 |
| Weight-for-height (-2SD) | 0.060 | 0.017 | 335 | 474 | 1.255 | 0.277 | 0.027 | 0.093 |
| Weight-for-age (-2SD) | 0.134 | 0.015 | 335 | 474 | 0.793 | 0.111 | 0.105 | 0.164 |
| Prevalence of anemia (children 6-59 months) | 0.705 | 0.034 | 220 | 312 | 1.120 | 0.049 | 0.636 | 0.774 |
| Prevalence of anemia (women 15-49) | 0.510 | 0.024 | 1013 | 1376 | 1.531 | 0.047 | 0.462 | 0.558 |
| Body Mass Index (BMI) < 18.5 | 0.134 | 0.011 | 999 | 1355 | 1.067 | 0.086 | 0.111 | 0.157 |
| Had an HIV test and received results in past 12 months | 0.029 | 0.005 | 1039 | 1410 | 1.004 | 0.180 | 0.019 | 0.040 |
| Accepting attitudes towards people with HIV | 0.169 | 0.015 | 1002 | 1358 | 1.305 | 0.091 | 0.138 | 0.200 |
| Ever experienced any physical violence since age 15 | 0.173 | 0.024 | 362 | 527 | 1.207 | 0.139 | 0.125 | 0.222 |
| Ever experienced any sexual violence | 0.025 | 0.007 | 362 | 527 | 0.905 | 0.296 | 0.010 | 0.040 |
| Ever experienced any physical/sexual violence by any husband | 0.205 | 0.030 | 252 | 324 | 1.158 | 0.144 | 0.146 | 0.264 |
| Physical/sexual violence in the last 12 months by any husband | 0.132 | 0.028 | 252 | 324 | 1.321 | 0.215 | 0.075 | 0.188 |
| Total fertility rate (last 3 years) | 2.098 | 0.201 | 3005 | 4081 | 1.418 | 0.096 | 1.697 | 2.500 |
| Neonatal mortality (last 0-9 years) | 35.173 | 6.794 | 737 | 1006 | 0.830 | 0.193 | 21.585 | 48.762 |
| Post-neonatal mortality (last 0-9 years) | 17.304 | 8.110 | 745 | 1017 | 1.421 | 0.469 | 1.084 | 33.525 |
| Infant mortality (last 0-9 years) | 52.478 | 11.723 | 739 | 1009 | 1.257 | 0.223 | 29.032 | 75.924 |
| Child mortality (last 0-9 years) | 16.902 | 5.649 | 747 | 1021 | 1.128 | 0.334 | 5.603 | 28.200 |
| Under-five mortality (last 0-9 years) | 68.492 | 14.989 | 741 | 1012 | 1.452 | 0.219 | 38.514 | 98.471 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.162 | 0.015 | 394 | 514 | 0.824 | 0.094 | 0.132 | 0.193 |
| Literacy | 0.958 | 0.014 | 394 | 514 | 1.384 | 0.015 | 0.930 | 0.986 |
| No education | 0.094 | 0.024 | 394 | 514 | 1.661 | 0.261 | 0.045 | 0.143 |
| Secondary or higher education | 0.540 | 0.035 | 394 | 514 | 1.398 | 0.065 | 0.469 | 0.610 |
| Never married (in union) | 0.357 | 0.029 | 394 | 514 | 1.201 | 0.081 | 0.299 | 0.415 |
| Currently married (in union) | 0.600 | 0.026 | 394 | 514 | 1.070 | 0.044 | 0.547 | 0.653 |
| Had first sexual intercourse before age 18 | 0.066 | 0.016 | 323 | 423 | 1.129 | 0.237 | 0.035 | 0.097 |
| Knows any contraceptive method | 0.974 | 0.010 | 235 | 308 | 0.967 | 0.010 | 0.954 | 0.994 |
| Knows any modern contraceptive method | 0.970 | 0.011 | 235 | 308 | 0.950 | 0.011 | 0.949 | 0.991 |
| Want no more children | 0.482 | 0.028 | 235 | 308 | 0.863 | 0.058 | 0.425 | 0.538 |
| Want to delay birth at least 2 years | 0.254 | 0.027 | 235 | 308 | 0.948 | 0.106 | 0.200 | 0.308 |
| Ideal family size | 3.287 | 0.130 | 388 | 506 | 1.539 | 0.040 | 3.027 | 3.547 |
| Had HIV test and received results in past 12 months | 0.037 | 0.011 | 394 | 514 | 1.165 | 0.300 | 0.015 | 0.059 |
| Accepting attitudes towards people with HIV | 0.186 | 0.021 | 369 | 480 | 1.034 | 0.113 | 0.144 | 0.228 |

Table B. 10 Sampling errors: Tanintharyi sample, Myanmar 2015-16

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Un- weighted $(\mathrm{N})$ <br> (N) | Weighted (WN) |  |  | $\begin{aligned} & \text { Lower } \\ & \text { (R-2SE) } \end{aligned}$ | $\begin{gathered} \text { Upper } \\ (\mathrm{R}+2 \mathrm{SE}) \end{gathered}$ |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.244 | 0.019 | 717 | 283 | 1.156 | 0.076 | 0.207 | 0.281 |
| Literacy | 0.927 | 0.010 | 717 | 283 | 1.018 | 0.011 | 0.907 | 0.947 |
| No education | 0.045 | 0.012 | 717 | 283 | 1.493 | 0.258 | 0.022 | 0.068 |
| Secondary or higher education | 0.512 | 0.031 | 717 | 283 | 1.647 | 0.060 | 0.450 | 0.573 |
| Never married (never in union) | 0.326 | 0.029 | 717 | 283 | 1.672 | 0.090 | 0.267 | 0.385 |
| Currently married (in union) | 0.615 | 0.029 | 717 | 283 | 1.580 | 0.047 | 0.558 | 0.673 |
| Married before age 20 | 0.356 | 0.027 | 611 | 242 | 1.371 | 0.075 | 0.302 | 0.409 |
| Had sexual intercourse before age 18 | 0.158 | 0.019 | 611 | 242 | 1.275 | 0.119 | 0.120 | 0.195 |
| Currently pregnant | 0.039 | 0.007 | 717 | 283 | 0.999 | 0.184 | 0.025 | 0.054 |
| Children ever born | 2.013 | 0.130 | 717 | 283 | 1.511 | 0.064 | 1.754 | 2.273 |
| Children surviving | 1.797 | 0.098 | 717 | 283 | 1.330 | 0.055 | 1.601 | 1.993 |
| Children ever born to women age 40-49 | 3.914 | 0.284 | 183 | 72 | 1.373 | 0.073 | 3.346 | 4.482 |
| Know any contraceptive method | 0.998 | 0.002 | 438 | 174 | 1.034 | 0.002 | 0.993 | 1.002 |
| Know a modern method | 0.998 | 0.002 | 438 | 174 | 1.034 | 0.002 | 0.993 | 1.002 |
| Currently using any method | 0.440 | 0.025 | 438 | 174 | 1.046 | 0.056 | 0.390 | 0.490 |
| Currently using a modern method | 0.433 | 0.025 | 438 | 174 | 1.058 | 0.058 | 0.383 | 0.483 |
| Currently using pill | 0.109 | 0.021 | 438 | 174 | 1.388 | 0.190 | 0.067 | 0.150 |
| Currently using IUD | 0.002 | 0.002 | 438 | 174 | 0.935 | 1.004 | 0.000 | 0.006 |
| Currently using condoms | 0.000 | 0.000 | 438 | 174 | na | na | 0.000 | 0.000 |
| Currently using injectables | 0.208 | 0.021 | 438 | 174 | 1.066 | 0.099 | 0.167 | 0.250 |
| Currently using implants | 0.009 | 0.005 | 438 | 174 | 1.196 | 0.595 | 0.000 | 0.020 |
| Currently using female sterilization | 0.093 | 0.016 | 438 | 174 | 1.165 | 0.174 | 0.061 | 0.126 |
| Using public sector source | 0.555 | 0.052 | 193 | 76 | 1.444 | 0.094 | 0.451 | 0.658 |
| Want no more children | 0.488 | 0.024 | 438 | 174 | 1.016 | 0.050 | 0.440 | 0.537 |
| Want to delay next birth at least 2 years | 0.258 | 0.020 | 438 | 174 | 0.976 | 0.079 | 0.217 | 0.299 |
| Ideal number of children | 2.997 | 0.085 | 681 | 269 | 1.482 | 0.028 | 2.827 | 3.167 |
| Mothers received antenatal care for last birth | 0.806 | 0.062 | 253 | 102 | 2.502 | 0.077 | 0.681 | 0.931 |
| Mothers protected against tetanus for last birth | 0.689 | 0.043 | 253 | 102 | 1.463 | 0.062 | 0.604 | 0.774 |
| Births with skilled attendant at delivery | 0.653 | 0.081 | 329 | 133 | 2.383 | 0.125 | 0.490 | 0.815 |
| Had diarrhea in the last 2 weeks | 0.079 | 0.017 | 310 | 125 | 1.088 | 0.216 | 0.045 | 0.113 |
| Treated with ORS | 0.706 | 0.063 | 24 | 10 | 0.680 | 0.090 | 0.579 | 0.833 |
| Sought medical treatment for diarrhea | 0.619 | 0.125 | 24 | 10 | 1.202 | 0.202 | 0.369 | 0.870 |
| Vaccination card seen | 0.444 | 0.080 | 56 | 22 | 1.200 | 0.180 | 0.284 | 0.603 |
| Received BCG vaccination | 0.981 | 0.019 | 56 | 22 | 1.031 | 0.019 | 0.944 | 1.019 |
| Received DPT vaccination (3 doses) | 0.618 | 0.061 | 56 | 22 | 0.942 | 0.099 | 0.496 | 0.740 |
| Received polio vaccination (3 doses) | 0.673 | 0.061 | 56 | 22 | 0.972 | 0.091 | 0.551 | 0.795 |
| Received measles vaccination | 0.849 | 0.061 | 56 | 22 | 1.274 | 0.072 | 0.728 | 0.971 |
| Received all vaccinations | 0.524 | 0.087 | 56 | 22 | 1.303 | 0.166 | 0.350 | 0.698 |
| Height-for-age (-2SD) | 0.256 | 0.027 | 363 | 148 | 1.138 | 0.105 | 0.202 | 0.309 |
| Weight-for-height (-2SD) | 0.103 | 0.016 | 364 | 148 | 0.956 | 0.153 | 0.072 | 0.135 |
| Weight-for-age (-2SD) | 0.196 | 0.016 | 364 | 148 | 0.705 | 0.083 | 0.163 | 0.228 |
| Prevalence of anemia (children 6-59 months) | 0.616 | 0.031 | 329 | 134 | 1.117 | 0.050 | 0.555 | 0.678 |
| Prevalence of anemia (women 15-49) | 0.545 | 0.025 | 708 | 280 | 1.323 | 0.045 | 0.496 | 0.595 |
| Body Mass Index (BMI) < 18.5 | 0.162 | 0.019 | 674 | 266 | 1.304 | 0.114 | 0.125 | 0.199 |
| Had an HIV test and received results in past 12 months | 0.042 | 0.010 | 717 | 283 | 1.295 | 0.231 | 0.023 | 0.061 |
| Accepting attitudes towards people with HIV | 0.247 | 0.022 | 695 | 275 | 1.318 | 0.087 | 0.204 | 0.290 |
| Ever experienced any physical violence since age 15 | 0.298 | 0.033 | 248 | 95 | 1.129 | 0.110 | 0.232 | 0.364 |
| Ever experienced any sexual violence | 0.076 | 0.016 | 248 | 95 | 0.949 | 0.211 | 0.044 | 0.108 |
| Ever experienced any physical/sexual violence by any husband | 0.370 | 0.036 | 182 | 62 | 1.015 | 0.099 | 0.297 | 0.442 |
| Physical/sexual violence in the last 12 months by any husband | 0.173 | 0.025 | 182 | 62 | 0.893 | 0.145 | 0.123 | 0.224 |
| Total fertility rate (last 3 years) | 3.083 | 0.317 | 2065 | 817 | 1.496 | 0.103 | 2.450 | 3.716 |
| Neonatal mortality (last 0-9 years) | 20.287 | 6.557 | 644 | 259 | 1.047 | 0.323 | 7.172 | 33.401 |
| Post-neonatal mortality (last 0-9 years) | 35.546 | 14.475 | 647 | 261 | 1.752 | 0.407 | 6.597 | 64.496 |
| Infant mortality (last 0-9 years) | 55.833 | 16.830 | 646 | 260 | 1.596 | 0.301 | 22.174 | 89.492 |
| Child mortality (last 0-9 years) | 28.698 | 8.093 | 651 | 262 | 1.029 | 0.282 | 12.513 | 44.883 |
| Under-five mortality (last 0-9 years) | 82.929 | 21.814 | 649 | 261 | 1.645 | 0.263 | 39.301 | 126.557 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.247 | 0.026 | 249 | 103 | 0.939 | 0.104 | 0.195 | 0.298 |
| Literacy | 0.888 | 0.024 | 249 | 103 | 1.221 | 0.028 | 0.839 | 0.937 |
| No education | 0.070 | 0.026 | 249 | 103 | 1.607 | 0.372 | 0.018 | 0.123 |
| Secondary or higher education | 0.548 | 0.045 | 249 | 103 | 1.435 | 0.083 | 0.457 | 0.639 |
| Never married (in union) | 0.407 | 0.033 | 249 | 103 | 1.063 | 0.081 | 0.341 | 0.474 |
| Currently married (in union) | 0.551 | 0.030 | 249 | 103 | 0.941 | 0.054 | 0.492 | 0.611 |
| Had first sexual intercourse before age 18 | 0.036 | 0.014 | 201 | 83 | 1.060 | 0.388 | 0.008 | 0.064 |
| Knows any contraceptive method | 0.988 | 0.013 | 137 | 57 | 1.327 | 0.013 | 0.963 | 1.013 |
| Knows any modern contraceptive method | 0.988 | 0.013 | 137 | 57 | 1.327 | 0.013 | 0.963 | 1.013 |
| Want no more children | 0.348 | 0.042 | 137 | 57 | 1.022 | 0.120 | 0.265 | 0.432 |
| Want to delay birth at least 2 years | 0.343 | 0.045 | 137 | 57 | 1.097 | 0.130 | 0.253 | 0.432 |
| Ideal family size | 3.383 | 0.126 | 235 | 97 | 1.169 | 0.037 | 3.131 | 3.635 |
| Had HIV test and received results in past 12 months | 0.071 | 0.019 | 249 | 103 | 1.141 | 0.263 | 0.034 | 0.108 |
| Accepting attitudes towards people with HIV | 0.267 | 0.035 | 242 | 100 | 1.241 | 0.133 | 0.196 | 0.338 |

[^31]Table B. 11 Sampling errors: Bago sample, Myanmar 2015-16

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted (WN) |  |  | $\begin{aligned} & \text { Lower } \\ & \text { (R-2SE) } \end{aligned}$ | $\begin{gathered} \text { Upper } \\ (\mathrm{R}+2 \mathrm{SE}) \end{gathered}$ |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.200 | 0.015 | 939 | 1244 | 1.173 | 0.077 | 0.170 | 0.231 |
| Literacy | 0.891 | 0.010 | 939 | 1244 | 0.946 | 0.011 | 0.872 | 0.911 |
| No education | 0.060 | 0.008 | 939 | 1244 | 1.092 | 0.141 | 0.043 | 0.077 |
| Secondary or higher education | 0.495 | 0.024 | 939 | 1244 | 1.492 | 0.049 | 0.446 | 0.544 |
| Never married (never in union) | 0.320 | 0.013 | 939 | 1244 | 0.842 | 0.040 | 0.294 | 0.345 |
| Currently married (in union) | 0.627 | 0.015 | 939 | 1244 | 0.939 | 0.024 | 0.597 | 0.657 |
| Married before age 20 | 0.341 | 0.018 | 803 | 1063 | 1.073 | 0.053 | 0.305 | 0.377 |
| Had sexual intercourse before age 18 | 0.175 | 0.009 | 803 | 1063 | 0.658 | 0.050 | 0.157 | 0.192 |
| Currently pregnant | 0.028 | 0.004 | 939 | 1244 | 0.833 | 0.160 | 0.019 | 0.037 |
| Children ever born | 1.497 | 0.106 | 939 | 1244 | 1.740 | 0.071 | 1.285 | 1.708 |
| Children surviving | 1.340 | 0.093 | 939 | 1244 | 1.735 | 0.069 | 1.155 | 1.525 |
| Children ever born to women age 40-49 | 2.843 | 0.258 | 244 | 323 | 1.669 | 0.091 | 2.326 | 3.360 |
| Know any contraceptive method | 0.999 | 0.001 | 588 | 780 | 0.784 | 0.001 | 0.997 | 1.001 |
| Know a modern method | 0.999 | 0.001 | 588 | 780 | 0.784 | 0.001 | 0.997 | 1.001 |
| Currently using any method | 0.607 | 0.018 | 588 | 780 | 0.894 | 0.030 | 0.571 | 0.643 |
| Currently using a modern method | 0.601 | 0.018 | 588 | 780 | 0.869 | 0.029 | 0.566 | 0.636 |
| Currently using pill | 0.158 | 0.015 | 588 | 780 | 0.971 | 0.092 | 0.129 | 0.187 |
| Currently using IUD | 0.022 | 0.007 | 588 | 780 | 1.130 | 0.311 | 0.008 | 0.036 |
| Currently using condoms | 0.004 | 0.003 | 588 | 780 | 0.923 | 0.578 | 0.000 | 0.009 |
| Currently using injectables | 0.367 | 0.018 | 588 | 780 | 0.883 | 0.048 | 0.331 | 0.402 |
| Currently using implants | 0.010 | 0.004 | 588 | 780 | 0.950 | 0.394 | 0.002 | 0.017 |
| Currently using female sterilization | 0.035 | 0.008 | 588 | 780 | 1.009 | 0.220 | 0.019 | 0.050 |
| Using public sector source | 0.543 | 0.036 | 353 | 469 | 1.367 | 0.067 | 0.470 | 0.616 |
| Want no more children | 0.642 | 0.026 | 588 | 780 | 1.301 | 0.040 | 0.591 | 0.694 |
| Want to delay next birth at least 2 years | 0.170 | 0.017 | 588 | 780 | 1.107 | 0.101 | 0.136 | 0.205 |
| Ideal number of children | 2.342 | 0.092 | 854 | 1131 | 1.829 | 0.039 | 2.159 | 2.525 |
| Mothers received antenatal care for last birth | 0.795 | 0.026 | 248 | 329 | 1.027 | 0.033 | 0.742 | 0.848 |
| Mothers protected against tetanus for last birth | 0.726 | 0.031 | 248 | 329 | 1.100 | 0.043 | 0.664 | 0.788 |
| Births with skilled attendant at delivery | 0.629 | 0.054 | 280 | 373 | 1.732 | 0.086 | 0.521 | 0.738 |
| Had diarrhea in the last 2 weeks | 0.070 | 0.017 | 270 | 360 | 1.079 | 0.237 | 0.037 | 0.104 |
| Treated with ORS | 0.748 | 0.084 | 19 | 25 | 0.840 | 0.112 | 0.581 | 0.915 |
| Sought medical treatment for diarrhea | 0.544 | 0.081 | 19 | 25 | 0.706 | 0.148 | 0.383 | 0.705 |
| Vaccination card seen | 0.441 | 0.055 | 57 | 75 | 0.784 | 0.125 | 0.331 | 0.550 |
| Received BCG vaccination | 0.945 | 0.041 | 57 | 75 | 1.041 | 0.043 | 0.863 | 1.027 |
| Received DPT vaccination (3 doses) | 0.563 | 0.067 | 57 | 75 | 0.966 | 0.119 | 0.428 | 0.697 |
| Received polio vaccination (3 doses) | 0.590 | 0.065 | 57 | 75 | 0.943 | 0.110 | 0.460 | 0.720 |
| Received measles vaccination | 0.776 | 0.073 | 57 | 75 | 1.219 | 0.094 | 0.631 | 0.922 |
| Received all vaccinations | 0.467 | 0.063 | 57 | 75 | 0.897 | 0.135 | 0.341 | 0.593 |
| Height-for-age (-2SD) | 0.230 | 0.023 | 296 | 406 | 0.926 | 0.102 | 0.183 | 0.277 |
| Weight-for-height (-2SD) | 0.061 | 0.014 | 297 | 407 | 1.045 | 0.235 | 0.032 | 0.089 |
| Weight-for-age (-2SD) | 0.176 | 0.017 | 297 | 407 | 0.756 | 0.097 | 0.142 | 0.210 |
| Prevalence of anemia (children 6-59 months) | 0.540 | 0.021 | 272 | 374 | 0.702 | 0.040 | 0.497 | 0.583 |
| Prevalence of anemia (women 15-49) | 0.476 | 0.019 | 935 | 1239 | 1.172 | 0.040 | 0.438 | 0.514 |
| Body Mass Index (BMI) < 18.5 | 0.222 | 0.019 | 907 | 1201 | 1.350 | 0.084 | 0.185 | 0.259 |
| Had an HIV test and received results in past 12 months | 0.041 | 0.007 | 939 | 1244 | 1.092 | 0.171 | 0.027 | 0.056 |
| Accepting attitudes towards people with HIV | 0.174 | 0.017 | 892 | 1182 | 1.362 | 0.099 | 0.139 | 0.209 |
| Ever experienced any physical violence since age 15 | 0.147 | 0.024 | 340 | 462 | 1.252 | 0.164 | 0.099 | 0.195 |
| Ever experienced any sexual violence | 0.017 | 0.008 | 340 | 462 | 1.121 | 0.468 | 0.001 | 0.032 |
| Ever experienced any physical/sexual violence by any husband | 0.157 | 0.025 | 264 | 330 | 1.128 | 0.161 | 0.106 | 0.208 |
| Physical/sexual violence in the last 12 months by any husband | 0.112 | 0.022 | 264 | 330 | 1.132 | 0.197 | 0.068 | 0.156 |
| Total fertility rate (last 3 years) | 1.896 | 0.159 | 2674 | 3536 | 1.070 | 0.084 | 1.578 | 2.214 |
| Neonatal mortality (last 0-9 years) | 43.396 | 9.371 | 600 | 800 | 1.023 | 0.216 | 24.654 | 62.138 |
| Post-neonatal mortality (last 0-9 years) | 36.152 | 7.357 | 599 | 799 | 0.929 | 0.203 | 21.438 | 50.865 |
| Infant mortality (last 0-9 years) | 79.547 | 14.362 | 600 | 800 | 1.172 | 0.181 | 50.823 | 108.272 |
| Child mortality (last 0-9 years) | 4.087 | 2.508 | 610 | 814 | 0.995 | 0.614 | 0.000 | 9.102 |
| Under-five mortality (last 0-9 years) | 83.309 | 13.915 | 600 | 800 | 1.134 | 0.167 | 55.479 | 111.140 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.197 | 0.028 | 346 | 454 | 1.288 | 0.140 | 0.142 | 0.253 |
| Literacy | 0.917 | 0.016 | 346 | 454 | 1.087 | 0.018 | 0.885 | 0.949 |
| No education | 0.082 | 0.013 | 346 | 454 | 0.870 | 0.157 | 0.056 | 0.107 |
| Secondary or higher education | 0.524 | 0.042 | 346 | 454 | 1.571 | 0.081 | 0.440 | 0.609 |
| Never married (in union) | 0.291 | 0.027 | 346 | 454 | 1.098 | 0.092 | 0.238 | 0.345 |
| Currently married (in union) | 0.681 | 0.029 | 346 | 454 | 1.140 | 0.042 | 0.624 | 0.738 |
| Had first sexual intercourse before age 18 | 0.089 | 0.016 | 293 | 385 | 0.985 | 0.184 | 0.056 | 0.122 |
| Knows any contraceptive method | 0.997 | 0.003 | 236 | 309 | 0.793 | 0.003 | 0.992 | 1.003 |
| Knows any modern contraceptive method | 0.997 | 0.003 | 236 | 309 | 0.793 | 0.003 | 0.992 | 1.003 |
| Want no more children | 0.395 | 0.029 | 236 | 309 | 0.906 | 0.073 | 0.338 | 0.453 |
| Want to delay birth at least 2 years | 0.232 | 0.030 | 236 | 309 | 1.094 | 0.130 | 0.171 | 0.292 |
| Ideal family size | 2.771 | 0.127 | 323 | 423 | 1.586 | 0.046 | 2.518 | 3.024 |
| Had HIV test and received results in past 12 months | 0.059 | 0.013 | 346 | 454 | 1.032 | 0.221 | 0.033 | 0.086 |
| Accepting attitudes towards people with HIV | 0.163 | 0.024 | 344 | 452 | 1.183 | 0.145 | 0.116 | 0.210 |

Table B. 12 Sampling errors: Magway sample, Myanmar 2015-16

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | $\begin{aligned} & \text { Lower } \\ & \text { (R-2SE) } \end{aligned}$ | Upper (R+2SE) |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.150 | 0.014 | 947 | 1081 | 1.238 | 0.096 | 0.121 | 0.179 |
| Literacy | 0.774 | 0.031 | 947 | 1081 | 2.303 | 0.041 | 0.711 | 0.837 |
| No education | 0.116 | 0.022 | 947 | 1081 | 2.139 | 0.192 | 0.071 | 0.161 |
| Secondary or higher education | 0.426 | 0.034 | 947 | 1081 | 2.129 | 0.080 | 0.358 | 0.495 |
| Never married (never in union) | 0.348 | 0.019 | 947 | 1081 | 1.248 | 0.056 | 0.309 | 0.387 |
| Currently married (in union) | 0.594 | 0.018 | 947 | 1081 | 1.146 | 0.031 | 0.557 | 0.631 |
| Married before age 20 | 0.298 | 0.024 | 831 | 947 | 1.485 | 0.079 | 0.250 | 0.345 |
| Had sexual intercourse before age 18 | 0.137 | 0.015 | 831 | 947 | 1.218 | 0.106 | 0.108 | 0.167 |
| Currently pregnant | 0.029 | 0.006 | 947 | 1081 | 1.042 | 0.195 | 0.018 | 0.041 |
| Children ever born | 1.564 | 0.067 | 947 | 1081 | 1.087 | 0.043 | 1.430 | 1.698 |
| Children surviving | 1.385 | 0.061 | 947 | 1081 | 1.123 | 0.044 | 1.264 | 1.507 |
| Children ever born to women age 40-49 | 2.791 | 0.176 | 276 | 315 | 1.295 | 0.063 | 2.438 | 3.144 |
| Know any contraceptive method | 0.996 | 0.003 | 560 | 642 | 1.024 | 0.003 | 0.991 | 1.002 |
| Know a modern method | 0.994 | 0.004 | 560 | 642 | 1.329 | 0.004 | 0.986 | 1.003 |
| Currently using any method | 0.473 | 0.029 | 560 | 642 | 1.371 | 0.061 | 0.415 | 0.531 |
| Currently using a modern method | 0.454 | 0.030 | 560 | 642 | 1.418 | 0.066 | 0.394 | 0.514 |
| Currently using pill | 0.089 | 0.012 | 560 | 642 | 1.003 | 0.135 | 0.065 | 0.114 |
| Currently using IUD | 0.042 | 0.012 | 560 | 642 | 1.394 | 0.281 | 0.019 | 0.066 |
| Currently using condoms | 0.015 | 0.005 | 560 | 642 | 1.035 | 0.355 | 0.004 | 0.026 |
| Currently using injectables | 0.262 | 0.018 | 560 | 642 | 0.990 | 0.070 | 0.225 | 0.298 |
| Currently using implants | 0.016 | 0.006 | 560 | 642 | 1.129 | 0.369 | 0.004 | 0.029 |
| Currently using female sterilization | 0.026 | 0.008 | 560 | 642 | 1.175 | 0.303 | 0.010 | 0.042 |
| Using public sector source | 0.648 | 0.030 | 255 | 291 | 0.999 | 0.046 | 0.589 | 0.708 |
| Want no more children | 0.600 | 0.018 | 560 | 642 | 0.885 | 0.031 | 0.564 | 0.637 |
| Want to delay next birth at least 2 years | 0.218 | 0.016 | 560 | 642 | 0.941 | 0.075 | 0.185 | 0.251 |
| Ideal number of children | 2.654 | 0.066 | 881 | 1009 | 1.489 | 0.025 | 2.522 | 2.787 |
| Mothers received antenatal care for last birth | 0.825 | 0.038 | 238 | 274 | 1.554 | 0.046 | 0.748 | 0.901 |
| Mothers protected against tetanus for last birth | 0.665 | 0.038 | 238 | 274 | 1.243 | 0.057 | 0.589 | 0.741 |
| Births with skilled attendant at delivery | 0.684 | 0.058 | 270 | 310 | 1.918 | 0.085 | 0.568 | 0.800 |
| Had diarrhea in the last 2 weeks | 0.084 | 0.020 | 261 | 299 | 1.159 | 0.238 | 0.044 | 0.124 |
| Treated with ORS | 0.543 | 0.124 | 22 | 25 | 1.162 | 0.228 | 0.295 | 0.790 |
| Sought medical treatment for diarrhea | 0.688 | 0.110 | 22 | 25 | 1.108 | 0.159 | 0.469 | 0.908 |
| Vaccination card seen | 0.430 | 0.093 | 48 | 55 | 1.298 | 0.215 | 0.245 | 0.616 |
| Received BCG vaccination | 0.978 | 0.022 | 48 | 55 | 1.049 | 0.023 | 0.933 | 1.022 |
| Received DPT vaccination (3 doses) | 0.618 | 0.077 | 48 | 55 | 1.103 | 0.125 | 0.463 | 0.772 |
| Received polio vaccination (3 doses) | 0.682 | 0.085 | 48 | 55 | 1.265 | 0.125 | 0.512 | 0.852 |
| Received measles vaccination | 0.910 | 0.039 | 48 | 55 | 0.943 | 0.043 | 0.832 | 0.988 |
| Received all vaccinations | 0.582 | 0.087 | 48 | 55 | 1.222 | 0.149 | 0.408 | 0.756 |
| Height-for-age (-2SD) | 0.259 | 0.031 | 252 | 299 | 1.091 | 0.118 | 0.198 | 0.321 |
| Weight-for-height (-2SD) | 0.062 | 0.013 | 249 | 295 | 0.842 | 0.204 | 0.037 | 0.087 |
| Weight-for-age (-2SD) | 0.218 | 0.025 | 252 | 299 | 0.946 | 0.115 | 0.168 | 0.268 |
| Prevalence of anemia (children 6-59 months) | 0.595 | 0.041 | 214 | 254 | 1.205 | 0.068 | 0.513 | 0.676 |
| Prevalence of anemia (women 15-49) | 0.522 | 0.026 | 929 | 1062 | 1.571 | 0.049 | 0.471 | 0.574 |
| Body Mass Index (BMI) < 18.5 | 0.185 | 0.018 | 909 | 1037 | 1.380 | 0.096 | 0.149 | 0.220 |
| Had an HIV test and received results in past 12 months | 0.041 | 0.008 | 947 | 1081 | 1.302 | 0.205 | 0.024 | 0.058 |
| Accepting attitudes towards people with HIV | 0.136 | 0.014 | 927 | 1056 | 1.251 | 0.104 | 0.108 | 0.164 |
| Ever experienced any physical violence since age 15 | 0.180 | 0.026 | 328 | 380 | 1.231 | 0.145 | 0.128 | 0.233 |
| Ever experienced any sexual violence | 0.017 | 0.012 | 328 | 380 | 1.690 | 0.723 | 0.000 | 0.040 |
| Ever experienced any physical/sexual violence by any husband | 0.212 | 0.036 | 238 | 252 | 1.370 | 0.172 | 0.139 | 0.285 |
| Physical/sexual violence in the last 12 months by any husband | 0.147 | 0.027 | 238 | 252 | 1.178 | 0.184 | 0.093 | 0.201 |
| Total fertility rate (last 3 years) | 1.814 | 0.127 | 2748 | 3135 | 0.939 | 0.070 | 1.560 | 2.068 |
| Neonatal mortality (last 0-9 years) | 27.661 | 5.690 | 582 | 672 | 0.823 | 0.206 | 16.281 | 39.040 |
| Post-neonatal mortality (last 0-9 years) | 20.769 | 7.417 | 585 | 674 | 1.031 | 0.357 | 5.936 | 35.602 |
| Infant mortality (last 0-9 years) | 48.430 | 8.490 | 582 | 672 | 0.872 | 0.175 | 31.450 | 65.410 |
| Child mortality (last 0-9 years) | 7.413 | 3.388 | 588 | 678 | 0.934 | 0.457 | 0.637 | 14.188 |
| Under-five mortality (last 0-9 years) | 55.484 | 9.153 | 583 | 673 | 0.895 | 0.165 | 37.178 | 73.789 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.145 | 0.016 | 291 | 320 | 0.755 | 0.108 | 0.113 | 0.176 |
| Literacy | 0.956 | 0.011 | 291 | 320 | 0.951 | 0.012 | 0.933 | 0.979 |
| No education | 0.102 | 0.026 | 291 | 320 | 1.448 | 0.253 | 0.050 | 0.154 |
| Secondary or higher education | 0.481 | 0.049 | 291 | 320 | 1.670 | 0.102 | 0.383 | 0.579 |
| Never married (in union) | 0.303 | 0.029 | 291 | 320 | 1.081 | 0.096 | 0.245 | 0.362 |
| Currently married (in union) | 0.674 | 0.029 | 291 | 320 | 1.066 | 0.044 | 0.615 | 0.733 |
| Had first sexual intercourse before age 18 | 0.088 | 0.021 | 257 | 282 | 1.189 | 0.239 | 0.046 | 0.130 |
| Knows any contraceptive method | 0.961 | 0.018 | 195 | 215 | 1.309 | 0.019 | 0.925 | 0.998 |
| Knows any modern contraceptive method | 0.961 | 0.018 | 195 | 215 | 1.309 | 0.019 | 0.925 | 0.998 |
| Want no more children | 0.515 | 0.031 | 195 | 215 | 0.873 | 0.061 | 0.453 | 0.578 |
| Want to delay birth at least 2 years | 0.210 | 0.022 | 195 | 215 | 0.754 | 0.105 | 0.166 | 0.254 |
| Ideal family size | 2.752 | 0.103 | 261 | 286 | 1.225 | 0.038 | 2.546 | 2.959 |
| Had HIV test and received results in past 12 months | 0.046 | 0.012 | 291 | 320 | 0.985 | 0.262 | 0.022 | 0.071 |
| Accepting attitudes towards people with HIV | 0.169 | 0.024 | 282 | 309 | 1.094 | 0.145 | 0.120 | 0.218 |

Table B. 13 Sampling errors: Mandalay sample, Myanmar 2015-16

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted ( N ) | Weighted (WN) |  |  | $\begin{gathered} \text { Lower } \\ \text { (R-2SE) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Upper } \\ (\mathrm{R}+2 \mathrm{SE}) \\ \hline \end{gathered}$ |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.292 | 0.020 | 963 | 1541 | 1.368 | 0.069 | 0.252 | 0.332 |
| Literacy | 0.872 | 0.018 | 963 | 1541 | 1.706 | 0.021 | 0.836 | 0.909 |
| No education | 0.107 | 0.020 | 963 | 1541 | 1.976 | 0.184 | 0.068 | 0.147 |
| Secondary or higher education | 0.459 | 0.037 | 963 | 1541 | 2.317 | 0.081 | 0.385 | 0.534 |
| Never married (never in union) | 0.394 | 0.019 | 963 | 1541 | 1.175 | 0.047 | 0.357 | 0.431 |
| Currently married (in union) | 0.544 | 0.017 | 963 | 1541 | 1.073 | 0.032 | 0.509 | 0.578 |
| Married before age 20 | 0.258 | 0.022 | 845 | 1353 | 1.430 | 0.083 | 0.215 | 0.301 |
| Had sexual intercourse before age 18 | 0.108 | 0.016 | 845 | 1353 | 1.516 | 0.150 | 0.075 | 0.140 |
| Currently pregnant | 0.029 | 0.007 | 963 | 1541 | 1.206 | 0.224 | 0.016 | 0.042 |
| Children ever born | 1.351 | 0.072 | 963 | 1541 | 1.263 | 0.053 | 1.207 | 1.494 |
| Children surviving | 1.211 | 0.060 | 963 | 1541 | 1.229 | 0.050 | 1.091 | 1.331 |
| Children ever born to women age 40-49 | 2.651 | 0.200 | 249 | 399 | 1.364 | 0.076 | 2.251 | 3.052 |
| Know any contraceptive method | 0.996 | 0.003 | 525 | 838 | 0.983 | 0.003 | 0.991 | 1.001 |
| Know a modern method | 0.996 | 0.003 | 525 | 838 | 0.983 | 0.003 | 0.991 | 1.001 |
| Currently using any method | 0.557 | 0.025 | 525 | 838 | 1.166 | 0.045 | 0.506 | 0.608 |
| Currently using a modern method | 0.553 | 0.025 | 525 | 838 | 1.151 | 0.045 | 0.503 | 0.603 |
| Currently using pill | 0.118 | 0.014 | 525 | 838 | 0.973 | 0.116 | 0.091 | 0.146 |
| Currently using IUD | 0.040 | 0.009 | 525 | 838 | 1.070 | 0.229 | 0.022 | 0.058 |
| Currently using condoms | 0.011 | 0.006 | 525 | 838 | 1.334 | 0.554 | 0.000 | 0.023 |
| Currently using injectables | 0.321 | 0.020 | 525 | 838 | 1.003 | 0.064 | 0.280 | 0.362 |
| Currently using implants | 0.010 | 0.005 | 525 | 838 | 1.194 | 0.520 | 0.000 | 0.020 |
| Currently using female sterilization | 0.047 | 0.010 | 525 | 838 | 1.104 | 0.218 | 0.026 | 0.067 |
| Using public sector source | 0.585 | 0.041 | 292 | 466 | 1.420 | 0.070 | 0.503 | 0.667 |
| Want no more children | 0.566 | 0.022 | 525 | 838 | 1.021 | 0.039 | 0.522 | 0.610 |
| Want to delay next birth at least 2 years | 0.199 | 0.016 | 525 | 838 | 0.938 | 0.082 | 0.167 | 0.232 |
| Ideal number of children | 2.242 | 0.063 | 940 | 1508 | 1.366 | 0.028 | 2.116 | 2.367 |
| Mothers received antenatal care for last birth | 0.854 | 0.045 | 239 | 383 | 1.961 | 0.052 | 0.765 | 0.944 |
| Mothers protected against tetanus for last birth | 0.786 | 0.033 | 239 | 383 | 1.237 | 0.042 | 0.721 | 0.852 |
| Births with skilled attendant at delivery | 0.787 | 0.045 | 268 | 431 | 1.665 | 0.058 | 0.696 | 0.877 |
| Had diarrhea in the last 2 weeks | 0.087 | 0.017 | 255 | 411 | 0.976 | 0.198 | 0.052 | 0.121 |
| Treated with ORS | 0.591 | 0.103 | 24 | 36 | 0.988 | 0.174 | 0.385 | 0.797 |
| Sought medical treatment for diarrhea | 0.539 | 0.099 | 24 | 36 | 0.939 | 0.184 | 0.340 | 0.738 |
| Vaccination card seen | 0.599 | 0.064 | 56 | 89 | 0.969 | 0.107 | 0.471 | 0.727 |
| Received BCG vaccination | 0.934 | 0.043 | 56 | 89 | 1.300 | 0.046 | 0.847 | 1.021 |
| Received DPT vaccination (3 doses) | 0.882 | 0.048 | 56 | 89 | 1.114 | 0.055 | 0.786 | 0.979 |
| Received polio vaccination (3 doses) | 0.901 | 0.048 | 56 | 89 | 1.194 | 0.053 | 0.806 | 0.997 |
| Received measles vaccination | 0.865 | 0.056 | 56 | 89 | 1.209 | 0.064 | 0.754 | 0.976 |
| Received all vaccinations | 0.813 | 0.057 | 56 | 89 | 1.090 | 0.070 | 0.699 | 0.927 |
| Height-for-age (-2SD) | 0.261 | 0.034 | 254 | 424 | 1.236 | 0.129 | 0.194 | 0.328 |
| Weight-for-height (-2SD) | 0.071 | 0.020 | 252 | 420 | 1.237 | 0.282 | 0.031 | 0.111 |
| Weight-for-age (-2SD) | 0.180 | 0.026 | 254 | 424 | 1.088 | 0.147 | 0.127 | 0.233 |
| Prevalence of anemia (children 6-59 months) | 0.578 | 0.026 | 192 | 327 | 0.736 | 0.045 | 0.526 | 0.631 |
| Prevalence of anemia (women 15-49) | 0.436 | 0.023 | 931 | 1496 | 1.403 | 0.052 | 0.390 | 0.481 |
| Body Mass Index (BMI) < 18.5 | 0.177 | 0.014 | 913 | 1469 | 1.102 | 0.078 | 0.149 | 0.205 |
| Had an HIV test and received results in past 12 months | 0.062 | 0.008 | 963 | 1541 | 0.983 | 0.123 | 0.047 | 0.077 |
| Accepting attitudes towards people with HIV | 0.143 | 0.014 | 912 | 1454 | 1.214 | 0.099 | 0.115 | 0.171 |
| Ever experienced any physical violence since age 15 | 0.091 | 0.016 | 331 | 550 | 1.041 | 0.181 | 0.058 | 0.124 |
| Ever experienced any sexual violence | 0.010 | 0.004 | 331 | 550 | 0.765 | 0.412 | 0.002 | 0.019 |
| Ever experienced any physical/sexual violence by any husband | 0.082 | 0.019 | 235 | 339 | 1.073 | 0.235 | 0.043 | 0.120 |
| Physical/sexual violence in the last 12 months by any husband | 0.032 | 0.011 | 235 | 339 | 0.986 | 0.354 | 0.009 | 0.055 |
| Total fertility rate (last 3 years) | 2.009 | 0.162 | 2804 | 4486 | 1.139 | 0.080 | 1.685 | 2.332 |
| Neonatal mortality (last 0-9 years) | 32.180 | 8.670 | 559 | 905 | 0.929 | 0.269 | 14.840 | 49.519 |
| Post-neonatal mortality (last 0-9 years) | 26.503 | 6.294 | 552 | 894 | 0.841 | 0.237 | 13.914 | 39.091 |
| Infant mortality (last 0-9 years) | 58.683 | 10.557 | 559 | 905 | 0.791 | 0.180 | 37.568 | 79.798 |
| Child mortality (last 0-9 years) | 7.151 | 3.396 | 543 | 878 | 0.960 | 0.475 | 0.360 | 13.943 |
| Under-five mortality (last 0-9 years) | 65.414 | 11.653 | 561 | 908 | 0.768 | 0.178 | 42.108 | 88.721 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.308 | 0.027 | 372 | 601 | 1.124 | 0.087 | 0.254 | 0.362 |
| Literacy | 0.969 | 0.007 | 372 | 601 | 0.796 | 0.007 | 0.955 | 0.984 |
| No education | 0.082 | 0.018 | 372 | 601 | 1.263 | 0.219 | 0.046 | 0.118 |
| Secondary or higher education | 0.563 | 0.045 | 372 | 601 | 1.737 | 0.080 | 0.473 | 0.652 |
| Never married (in union) | 0.377 | 0.028 | 372 | 601 | 1.124 | 0.075 | 0.320 | 0.433 |
| Currently married (in union) | 0.596 | 0.032 | 372 | 601 | 1.269 | 0.054 | 0.532 | 0.661 |
| Had first sexual intercourse before age 18 | 0.057 | 0.013 | 309 | 499 | 1.011 | 0.235 | 0.030 | 0.084 |
| Knows any contraceptive method | 0.983 | 0.008 | 221 | 358 | 0.934 | 0.008 | 0.967 | 0.999 |
| Knows any modern contraceptive method | 0.974 | 0.012 | 221 | 358 | 1.110 | 0.012 | 0.950 | 0.998 |
| Want no more children | 0.421 | 0.031 | 221 | 358 | 0.935 | 0.074 | 0.359 | 0.484 |
| Want to delay birth at least 2 years | 0.233 | 0.029 | 221 | 358 | 1.034 | 0.127 | 0.174 | 0.291 |
| Ideal family size | 2.862 | 0.092 | 363 | 587 | 1.243 | 0.032 | 2.679 | 3.045 |
| Had HIV test and received results in past 12 months | 0.060 | 0.018 | 372 | 601 | 1.455 | 0.299 | 0.024 | 0.096 |
| Accepting attitudes towards people with HIV | 0.187 | 0.026 | 358 | 578 | 1.252 | 0.138 | 0.135 | 0.238 |

Table B. 14 Sampling errors: Mon sample, Myanmar 2015-16

| Variable | Value (R) | Standarderror(SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | $\begin{aligned} & \text { Lower } \\ & \text { (R-2SE) } \end{aligned}$ | $\begin{gathered} \text { Upper } \\ (\mathrm{R}+2 \mathrm{SE}) \end{gathered}$ |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.308 | 0.019 | 789 | 463 | 1.157 | 0.062 | 0.270 | 0.346 |
| Literacy | 0.872 | 0.015 | 789 | 463 | 1.290 | 0.018 | 0.841 | 0.903 |
| No education | 0.092 | 0.016 | 789 | 463 | 1.543 | 0.173 | 0.060 | 0.124 |
| Secondary or higher education | 0.509 | 0.033 | 789 | 463 | 1.874 | 0.066 | 0.442 | 0.576 |
| Never married (never in union) | 0.350 | 0.025 | 789 | 463 | 1.443 | 0.070 | 0.301 | 0.399 |
| Currently married (in union) | 0.601 | 0.026 | 789 | 463 | 1.486 | 0.043 | 0.549 | 0.653 |
| Married before age 20 | 0.325 | 0.033 | 675 | 397 | 1.831 | 0.102 | 0.258 | 0.391 |
| Had sexual intercourse before age 18 | 0.133 | 0.024 | 675 | 397 | 1.859 | 0.184 | 0.084 | 0.181 |
| Currently pregnant | 0.037 | 0.007 | 789 | 463 | 1.051 | 0.190 | 0.023 | 0.052 |
| Children ever born | 1.791 | 0.107 | 789 | 463 | 1.450 | 0.060 | 1.577 | 2.005 |
| Children surviving | 1.630 | 0.090 | 789 | 463 | 1.372 | 0.055 | 1.450 | 1.811 |
| Children ever born to women age 40-49 | 3.256 | 0.236 | 257 | 151 | 1.614 | 0.072 | 2.784 | 3.728 |
| Know any contraceptive method | 0.996 | 0.003 | 474 | 278 | 0.947 | 0.003 | 0.991 | 1.002 |
| Know a modern method | 0.996 | 0.003 | 474 | 278 | 0.947 | 0.003 | 0.991 | 1.002 |
| Currently using any method | 0.450 | 0.028 | 474 | 278 | 1.205 | 0.061 | 0.395 | 0.505 |
| Currently using a modern method | 0.446 | 0.027 | 474 | 278 | 1.169 | 0.060 | 0.393 | 0.500 |
| Currently using pill | 0.143 | 0.018 | 474 | 278 | 1.144 | 0.129 | 0.106 | 0.179 |
| Currently using IUD | 0.013 | 0.005 | 474 | 278 | 0.939 | 0.381 | 0.003 | 0.022 |
| Currently using condoms | 0.005 | 0.003 | 474 | 278 | 0.966 | 0.653 | 0.000 | 0.011 |
| Currently using injectables | 0.218 | 0.023 | 474 | 278 | 1.230 | 0.107 | 0.171 | 0.264 |
| Currently using implants | 0.011 | 0.004 | 474 | 278 | 0.921 | 0.410 | 0.002 | 0.019 |
| Currently using female sterilization | 0.058 | 0.011 | 474 | 278 | 1.002 | 0.185 | 0.037 | 0.080 |
| Using public sector source | 0.537 | 0.033 | 212 | 125 | 0.971 | 0.062 | 0.470 | 0.604 |
| Want no more children | 0.589 | 0.029 | 474 | 278 | 1.283 | 0.049 | 0.531 | 0.647 |
| Want to delay next birth at least 2 years | 0.162 | 0.017 | 474 | 278 | 1.025 | 0.107 | 0.127 | 0.197 |
| Ideal number of children | 2.707 | 0.098 | 617 | 363 | 1.637 | 0.036 | 2.510 | 2.904 |
| Mothers received antenatal care for last birth | 0.932 | 0.021 | 207 | 121 | 1.199 | 0.023 | 0.889 | 0.974 |
| Mothers protected against tetanus for last birth | 0.835 | 0.026 | 207 | 121 | 0.992 | 0.031 | 0.784 | 0.886 |
| Births with skilled attendant at delivery | 0.668 | 0.066 | 247 | 144 | 1.909 | 0.098 | 0.537 | 0.800 |
| Had diarrhea in the last 2 weeks | 0.075 | 0.016 | 239 | 140 | 0.962 | 0.215 | 0.043 | 0.107 |
| Treated with ORS | 0.655 | 0.130 | 18 | 10 | 1.156 | 0.199 | 0.395 | 0.916 |
| Sought medical treatment for diarrhea | 0.615 | 0.131 | 18 | 10 | 1.132 | 0.212 | 0.354 | 0.877 |
| Vaccination card seen | 0.461 | 0.103 | 44 | 26 | 1.369 | 0.223 | 0.255 | 0.666 |
| Received BCG vaccination | 0.954 | 0.032 | 44 | 26 | 0.999 | 0.033 | 0.891 | 1.017 |
| Received DPT vaccination (3 doses) | 0.687 | 0.091 | 44 | 26 | 1.298 | 0.132 | 0.505 | 0.868 |
| Received polio vaccination (3 doses) | 0.753 | 0.065 | 44 | 26 | 1.008 | 0.087 | 0.622 | 0.884 |
| Received measles vaccination | 0.844 | 0.055 | 44 | 26 | 1.002 | 0.065 | 0.734 | 0.953 |
| Received all vaccinations | 0.644 | 0.090 | 44 | 26 | 1.249 | 0.140 | 0.464 | 0.824 |
| Height-for-age (-2SD) | 0.281 | 0.042 | 285 | 168 | 1.436 | 0.148 | 0.198 | 0.364 |
| Weight-for-height (-2SD) | 0.068 | 0.016 | 286 | 168 | 1.066 | 0.229 | 0.037 | 0.099 |
| Weight-for-age (-2SD) | 0.188 | 0.032 | 286 | 168 | 1.307 | 0.170 | 0.124 | 0.252 |
| Prevalence of anemia (children 6-59 months) | 0.548 | 0.040 | 241 | 142 | 1.256 | 0.074 | 0.467 | 0.629 |
| Prevalence of anemia (women 15-49) | 0.390 | 0.026 | 767 | 449 | 1.467 | 0.066 | 0.339 | 0.442 |
| Body Mass Index (BMI) < 18.5 | 0.147 | 0.015 | 743 | 436 | 1.167 | 0.103 | 0.116 | 0.177 |
| Had an HIV test and received results in past 12 months | 0.065 | 0.009 | 789 | 463 | 1.053 | 0.142 | 0.047 | 0.084 |
| Accepting attitudes towards people with HIV | 0.291 | 0.031 | 764 | 448 | 1.886 | 0.107 | 0.229 | 0.354 |
| Ever experienced any physical violence since age 15 | 0.161 | 0.019 | 263 | 159 | 0.851 | 0.120 | 0.123 | 0.200 |
| Ever experienced any sexual violence | 0.026 | 0.010 | 263 | 159 | 0.993 | 0.375 | 0.006 | 0.046 |
| Ever experienced any physical/sexual violence by any husband | 0.155 | 0.025 | 190 | 104 | 0.967 | 0.164 | 0.104 | 0.206 |
| Physical/sexual violence in the last 12 months by any husband | 0.093 | 0.022 | 190 | 104 | 1.064 | 0.242 | 0.048 | 0.137 |
| Total fertility rate (last 3 years) | 2.333 | 0.273 | 2271 | 1333 | 1.484 | 0.117 | 1.788 | 2.878 |
| Neonatal mortality (last 0-9 years) | 26.179 | 7.762 | 529 | 309 | 0.842 | 0.297 | 10.654 | 41.703 |
| Post-neonatal mortality (last 0-9 years) | 11.213 | 3.820 | 528 | 308 | 0.797 | 0.341 | 3.573 | 18.853 |
| Infant mortality (last 0-9 years) | 37.392 | 9.295 | 530 | 309 | 0.892 | 0.249 | 18.802 | 55.982 |
| Child mortality (last 0-9 years) | 6.633 | 3.225 | 523 | 305 | 0.916 | 0.486 | 0.183 | 13.084 |
| Under-five mortality (last 0-9 years) | 43.777 | 11.622 | 530 | 309 | 1.026 | 0.265 | 20.532 | 67.022 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.329 | 0.040 | 269 | 162 | 1.379 | 0.121 | 0.250 | 0.408 |
| Literacy | 0.903 | 0.021 | 269 | 162 | 1.162 | 0.023 | 0.861 | 0.945 |
| No education | 0.136 | 0.031 | 269 | 162 | 1.468 | 0.226 | 0.074 | 0.198 |
| Secondary or higher education | 0.528 | 0.044 | 269 | 162 | 1.448 | 0.084 | 0.440 | 0.617 |
| Never married (in union) | 0.484 | 0.035 | 269 | 162 | 1.146 | 0.072 | 0.414 | 0.554 |
| Currently married (in union) | 0.509 | 0.035 | 269 | 162 | 1.157 | 0.070 | 0.438 | 0.579 |
| Had first sexual intercourse before age 18 | 0.071 | 0.021 | 209 | 126 | 1.201 | 0.302 | 0.028 | 0.114 |
| Knows any contraceptive method | 0.958 | 0.016 | 139 | 82 | 0.962 | 0.017 | 0.926 | 0.991 |
| Knows any modern contraceptive method | 0.951 | 0.018 | 139 | 82 | 0.963 | 0.019 | 0.916 | 0.987 |
| Want no more children | 0.354 | 0.037 | 139 | 82 | 0.909 | 0.105 | 0.280 | 0.428 |
| Want to delay birth at least 2 years | 0.304 | 0.042 | 139 | 82 | 1.081 | 0.139 | 0.220 | 0.389 |
| Ideal family size | 3.259 | 0.159 | 261 | 157 | 1.512 | 0.049 | 2.942 | 3.576 |
| Had HIV test and received results in past 12 months | 0.056 | 0.015 | 269 | 162 | 1.090 | 0.273 | 0.025 | 0.087 |
| Accepting attitudes towards people with HIV | 0.200 | 0.030 | 261 | 157 | 1.191 | 0.148 | 0.141 | 0.259 |

Table B. 15 Sampling errors: Rakhine sample, Myanmar 2015-16

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | $\begin{aligned} & \text { Relative } \\ & \text { error } \\ & \text { (SE/R) } \\ & \hline \end{aligned}$ | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | $\begin{aligned} & \text { Lower } \\ & \text { (R-2SE) } \end{aligned}$ | $\begin{gathered} \text { Upper } \\ (\mathrm{R}+2 \mathrm{SE}) \end{gathered}$ |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.136 | 0.018 | 911 | 777 | 1.581 | 0.132 | 0.100 | 0.172 |
| Literacy | 0.921 | 0.014 | 911 | 777 | 1.565 | 0.015 | 0.893 | 0.949 |
| No education | 0.259 | 0.045 | 911 | 777 | 3.117 | 0.176 | 0.168 | 0.350 |
| Secondary or higher education | 0.308 | 0.039 | 911 | 777 | 2.563 | 0.128 | 0.229 | 0.387 |
| Never married (never in union) | 0.311 | 0.023 | 911 | 777 | 1.489 | 0.073 | 0.266 | 0.357 |
| Currently married (in union) | 0.585 | 0.025 | 911 | 777 | 1.546 | 0.043 | 0.534 | 0.635 |
| Married before age 20 | 0.460 | 0.034 | 762 | 649 | 1.851 | 0.073 | 0.393 | 0.527 |
| Had sexual intercourse before age 18 | 0.251 | 0.029 | 762 | 649 | 1.871 | 0.117 | 0.192 | 0.310 |
| Currently pregnant | 0.049 | 0.009 | 911 | 777 | 1.185 | 0.172 | 0.032 | 0.066 |
| Children ever born | 1.858 | 0.129 | 911 | 777 | 1.693 | 0.070 | 1.600 | 2.116 |
| Children surviving | 1.680 | 0.118 | 911 | 777 | 1.732 | 0.070 | 1.445 | 1.916 |
| Children ever born to women age 40-49 | 3.823 | 0.303 | 197 | 168 | 1.497 | 0.079 | 3.218 | 4.429 |
| Know any contraceptive method | 0.937 | 0.022 | 535 | 454 | 2.090 | 0.023 | 0.893 | 0.981 |
| Know a modern method | 0.937 | 0.022 | 535 | 454 | 2.090 | 0.023 | 0.893 | 0.981 |
| Currently using any method | 0.371 | 0.034 | 535 | 454 | 1.619 | 0.091 | 0.303 | 0.439 |
| Currently using a modern method | 0.369 | 0.034 | 535 | 454 | 1.645 | 0.093 | 0.300 | 0.438 |
| Currently using pill | 0.132 | 0.025 | 535 | 454 | 1.706 | 0.190 | 0.082 | 0.182 |
| Currently using IUD | 0.000 | 0.000 | 535 | 454 | na | na | 0.000 | 0.000 |
| Currently using condoms | 0.000 | 0.000 | 535 | 454 | na | na | 0.000 | 0.000 |
| Currently using injectables | 0.229 | 0.027 | 535 | 454 | 1.483 | 0.118 | 0.175 | 0.283 |
| Currently using implants | 0.000 | 0.000 | 535 | 454 | na | na | 0.000 | 0.000 |
| Currently using female sterilization | 0.008 | 0.005 | 535 | 454 | 1.134 | 0.531 | 0.000 | 0.017 |
| Using public sector source | 0.474 | 0.060 | 201 | 170 | 1.698 | 0.127 | 0.354 | 0.595 |
| Want no more children | 0.471 | 0.023 | 535 | 454 | 1.049 | 0.048 | 0.425 | 0.516 |
| Want to delay next birth at least 2 years | 0.261 | 0.018 | 535 | 454 | 0.970 | 0.071 | 0.224 | 0.298 |
| Ideal number of children | 3.086 | 0.115 | 741 | 633 | 1.732 | 0.037 | 2.856 | 3.317 |
| Mothers received antenatal care for last birth | 0.711 | 0.070 | 281 | 238 | 2.573 | 0.099 | 0.570 | 0.852 |
| Mothers protected against tetanus for last birth | 0.741 | 0.032 | 281 | 238 | 1.224 | 0.044 | 0.677 | 0.806 |
| Births with skilled attendant at delivery | 0.297 | 0.057 | 357 | 303 | 2.057 | 0.191 | 0.184 | 0.411 |
| Had diarrhea in the last 2 weeks | 0.139 | 0.021 | 346 | 294 | 1.072 | 0.153 | 0.096 | 0.181 |
| Treated with ORS | 0.619 | 0.092 | 50 | 41 | 1.264 | 0.149 | 0.434 | 0.804 |
| Sought medical treatment for diarrhea | 0.453 | 0.086 | 50 | 41 | 1.104 | 0.189 | 0.282 | 0.624 |
| Vaccination card seen | 0.133 | 0.045 | 79 | 66 | 1.161 | 0.337 | 0.043 | 0.223 |
| Received BCG vaccination | 0.881 | 0.031 | 79 | 66 | 0.853 | 0.036 | 0.819 | 0.944 |
| Received DPT vaccination (3 doses) | 0.483 | 0.063 | 79 | 66 | 1.101 | 0.129 | 0.358 | 0.609 |
| Received polio vaccination (3 doses) | 0.722 | 0.065 | 79 | 66 | 1.284 | 0.091 | 0.592 | 0.853 |
| Received measles vaccination | 0.734 | 0.055 | 79 | 66 | 1.090 | 0.075 | 0.624 | 0.843 |
| Received all vaccinations | 0.410 | 0.066 | 79 | 66 | 1.172 | 0.160 | 0.278 | 0.541 |
| Height-for-age (-2SD) | 0.375 | 0.038 | 318 | 269 | 1.339 | 0.102 | 0.299 | 0.452 |
| Weight-for-height (-2SD) | 0.139 | 0.028 | 317 | 269 | 1.314 | 0.202 | 0.083 | 0.195 |
| Weight-for-age (-2SD) | 0.343 | 0.057 | 317 | 269 | 1.985 | 0.167 | 0.229 | 0.458 |
| Prevalence of anemia (children 6-59 months) | 0.615 | 0.042 | 278 | 236 | 1.409 | 0.068 | 0.531 | 0.699 |
| Prevalence of anemia (women 15-49) | 0.554 | 0.029 | 866 | 740 | 1.687 | 0.051 | 0.497 | 0.611 |
| Body Mass Index (BMI) < 18.5 | 0.200 | 0.017 | 821 | 702 | 1.207 | 0.084 | 0.167 | 0.234 |
| Had an HIV test and received results in past 12 months | 0.026 | 0.005 | 911 | 777 | 0.867 | 0.177 | 0.017 | 0.035 |
| Accepting attitudes towards people with HIV | 0.114 | 0.020 | 664 | 563 | 1.613 | 0.175 | 0.074 | 0.154 |
| Ever experienced any physical violence since age 15 | 0.268 | 0.026 | 300 | 267 | 1.023 | 0.098 | 0.216 | 0.320 |
| Ever experienced any sexual violence | 0.086 | 0.016 | 300 | 267 | 1.002 | 0.189 | 0.054 | 0.119 |
| Ever experienced any physical/sexual violence by any husband | 0.372 | 0.033 | 235 | 191 | 1.049 | 0.089 | 0.306 | 0.438 |
| Physical/sexual violence in the last 12 months by any husband | 0.265 | 0.028 | 235 | 191 | 0.974 | 0.106 | 0.209 | 0.321 |
| Total fertility rate (last 3 years) | 2.674 | 0.270 | 2607 | 2223 | 1.528 | 0.101 | 2.133 | 3.215 |
| Neonatal mortality (last 0-9 years) | 31.916 | 6.945 | 758 | 643 | 0.917 | 0.218 | 18.026 | 45.807 |
| Post-neonatal mortality (last 0-9 years) | 14.755 | 4.055 | 751 | 638 | 0.834 | 0.275 | 6.646 | 22.865 |
| Infant mortality (last 0-9 years) | 46.672 | 9.121 | 758 | 643 | 1.032 | 0.195 | 28.429 | 64.915 |
| Child mortality (last 0-9 years) | 12.050 | 3.898 | 770 | 656 | 0.920 | 0.323 | 4.254 | 19.846 |
| Under-five mortality (last 0-9 years) | 58.159 | 10.540 | 761 | 646 | 1.054 | 0.181 | 37.079 | 79.240 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.126 | 0.028 | 261 | 222 | 1.372 | 0.225 | 0.069 | 0.182 |
| Literacy | 0.782 | 0.067 | 261 | 222 | 2.570 | 0.085 | 0.649 | 0.915 |
| No education | 0.151 | 0.046 | 261 | 222 | 2.076 | 0.307 | 0.058 | 0.244 |
| Secondary or higher education | 0.478 | 0.049 | 261 | 222 | 1.570 | 0.102 | 0.380 | 0.575 |
| Never married (in union) | 0.340 | 0.036 | 261 | 222 | 1.213 | 0.105 | 0.268 | 0.411 |
| Currently married (in union) | 0.626 | 0.032 | 261 | 222 | 1.058 | 0.051 | 0.563 | 0.690 |
| Had first sexual intercourse before age 18 | 0.069 | 0.016 | 210 | 178 | 0.924 | 0.235 | 0.036 | 0.101 |
| Knows any contraceptive method | 0.945 | 0.021 | 163 | 139 | 1.182 | 0.023 | 0.902 | 0.987 |
| Knows any modern contraceptive method | 0.945 | 0.021 | 163 | 139 | 1.182 | 0.023 | 0.902 | 0.987 |
| Want no more children | 0.336 | 0.041 | 163 | 139 | 1.107 | 0.122 | 0.254 | 0.418 |
| Want to delay birth at least 2 years | 0.395 | 0.036 | 163 | 139 | 0.946 | 0.092 | 0.322 | 0.467 |
| Ideal family size | 3.879 | 0.342 | 256 | 218 | 2.254 | 0.088 | 3.195 | 4.563 |
| Had HIV test and received results in past 12 months | 0.025 | 0.010 | 261 | 222 | 1.082 | 0.419 | 0.004 | 0.046 |
| Accepting attitudes towards people with HIV | 0.199 | 0.025 | 212 | 180 | 0.915 | 0.126 | 0.149 | 0.250 |
| na=not applicable |  |  |  |  |  |  |  |  |

Table B. 16 Sampling errors: Yangon sample, Myanmar 2015-16

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | $\begin{aligned} & \text { Lower } \\ & \text { (R-2SE) } \end{aligned}$ | Upper (R+2SE) |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.713 | 0.016 | 1065 | 1927 | 1.185 | 0.023 | 0.681 | 0.746 |
| Literacy | 0.960 | 0.010 | 1065 | 1927 | 1.716 | 0.011 | 0.939 | 0.981 |
| No education | 0.047 | 0.011 | 1065 | 1927 | 1.746 | 0.241 | 0.024 | 0.070 |
| Secondary or higher education | 0.650 | 0.029 | 1065 | 1927 | 1.983 | 0.045 | 0.591 | 0.708 |
| Never married (never in union) | 0.398 | 0.017 | 1065 | 1927 | 1.139 | 0.043 | 0.364 | 0.432 |
| Currently married (in union) | 0.541 | 0.017 | 1065 | 1927 | 1.117 | 0.032 | 0.507 | 0.575 |
| Married before age 20 | 0.261 | 0.025 | 892 | 1611 | 1.679 | 0.095 | 0.212 | 0.311 |
| Had sexual intercourse before age 18 | 0.129 | 0.013 | 892 | 1611 | 1.123 | 0.098 | 0.104 | 0.154 |
| Currently pregnant | 0.026 | 0.005 | 1065 | 1927 | 1.004 | 0.190 | 0.016 | 0.035 |
| Children ever born | 1.205 | 0.064 | 1065 | 1927 | 1.334 | 0.053 | 1.077 | 1.332 |
| Children surviving | 1.122 | 0.057 | 1065 | 1927 | 1.304 | 0.051 | 1.007 | 1.237 |
| Children ever born to women age 40-49 | 2.376 | 0.166 | 282 | 513 | 1.481 | 0.070 | 2.044 | 2.707 |
| Know any contraceptive method | 1.000 | 0.000 | 584 | 1042 | na | 0.000 | 1.000 | 1.000 |
| Know a modern method | 1.000 | 0.000 | 584 | 1042 | na | 0.000 | 1.000 | 1.000 |
| Currently using any method | 0.627 | 0.022 | 584 | 1042 | 1.098 | 0.035 | 0.583 | 0.671 |
| Currently using a modern method | 0.602 | 0.022 | 584 | 1042 | 1.077 | 0.036 | 0.558 | 0.646 |
| Currently using pill | 0.213 | 0.019 | 584 | 1042 | 1.144 | 0.091 | 0.174 | 0.252 |
| Currently using IUD | 0.031 | 0.009 | 584 | 1042 | 1.176 | 0.270 | 0.014 | 0.048 |
| Currently using condoms | 0.012 | 0.004 | 584 | 1042 | 0.935 | 0.356 | 0.003 | 0.020 |
| Currently using injectables | 0.260 | 0.019 | 584 | 1042 | 1.056 | 0.074 | 0.222 | 0.299 |
| Currently using implants | 0.011 | 0.005 | 584 | 1042 | 1.041 | 0.402 | 0.002 | 0.021 |
| Currently using female sterilization | 0.074 | 0.011 | 584 | 1042 | 1.047 | 0.153 | 0.052 | 0.097 |
| Using public sector source | 0.356 | 0.033 | 357 | 629 | 1.318 | 0.094 | 0.289 | 0.423 |
| Want no more children | 0.649 | 0.022 | 584 | 1042 | 1.129 | 0.034 | 0.604 | 0.693 |
| Want to delay next birth at least 2 years | 0.163 | 0.024 | 584 | 1042 | 1.597 | 0.150 | 0.114 | 0.211 |
| Ideal number of children | 2.051 | 0.046 | 945 | 1709 | 1.208 | 0.022 | 1.960 | 2.142 |
| Mothers received antenatal care for last birth | 0.946 | 0.019 | 219 | 387 | 1.239 | 0.020 | 0.908 | 0.984 |
| Mothers protected against tetanus for last birth | 0.846 | 0.029 | 219 | 387 | 1.170 | 0.034 | 0.789 | 0.904 |
| Births with skilled attendant at delivery | 0.825 | 0.050 | 248 | 435 | 1.758 | 0.060 | 0.726 | 0.924 |
| Had diarrhea in the last 2 weeks | 0.048 | 0.015 | 240 | 423 | 1.063 | 0.303 | 0.019 | 0.078 |
| Treated with ORS | 0.671 | 0.114 | 12 | 20 | 0.820 | 0.170 | 0.443 | 0.898 |
| Sought medical treatment for diarrhea | 0.818 | 0.114 | 12 | 20 | 0.997 | 0.139 | 0.591 | 1.045 |
| Vaccination card seen | 0.668 | 0.074 | 55 | 99 | 1.171 | 0.111 | 0.519 | 0.816 |
| Received BCG vaccination | 0.964 | 0.024 | 55 | 99 | 0.960 | 0.025 | 0.916 | 1.012 |
| Received DPT vaccination (3 doses) | 0.760 | 0.090 | 55 | 99 | 1.564 | 0.118 | 0.580 | 0.940 |
| Received polio vaccination (3 doses) | 0.780 | 0.089 | 55 | 99 | 1.596 | 0.114 | 0.601 | 0.958 |
| Received measles vaccination | 0.797 | 0.063 | 55 | 99 | 1.170 | 0.079 | 0.670 | 0.923 |
| Received all vaccinations | 0.674 | 0.088 | 55 | 99 | 1.401 | 0.131 | 0.497 | 0.850 |
| Height-for-age (-2SD) | 0.203 | 0.028 | 240 | 433 | 1.068 | 0.139 | 0.147 | 0.260 |
| Weight-for-height (-2SD) | 0.126 | 0.022 | 239 | 430 | 0.994 | 0.171 | 0.083 | 0.169 |
| Weight-for-age (-2SD) | 0.153 | 0.024 | 242 | 436 | 1.015 | 0.158 | 0.105 | 0.201 |
| Prevalence of anemia (children 6-59 months) | 0.663 | 0.029 | 213 | 384 | 0.894 | 0.043 | 0.606 | 0.721 |
| Prevalence of anemia (women 15-49) | 0.535 | 0.024 | 1031 | 1861 | 1.530 | 0.045 | 0.487 | 0.583 |
| Body Mass Index (BMI) < 18.5 | 0.119 | 0.011 | 1013 | 1830 | 1.112 | 0.095 | 0.097 | 0.142 |
| Had an HIV test and received results in past 12 months | 0.061 | 0.007 | 1065 | 1927 | 0.949 | 0.114 | 0.048 | 0.075 |
| Accepting attitudes towards people with HIV | 0.315 | 0.025 | 1048 | 1897 | 1.711 | 0.078 | 0.266 | 0.365 |
| Ever experienced any physical violence since age 15 | 0.084 | 0.016 | 343 | 664 | 1.091 | 0.195 | 0.051 | 0.117 |
| Ever experienced any sexual violence | 0.006 | 0.003 | 343 | 664 | 0.781 | 0.557 | 0.000 | 0.012 |
| Ever experienced any physical/sexual violence by any husband | 0.100 | 0.020 | 241 | 414 | 1.009 | 0.196 | 0.061 | 0.139 |
| Physical/sexual violence in the last 12 months by any husband | 0.050 | 0.016 | 241 | 414 | 1.128 | 0.319 | 0.018 | 0.081 |
| Total fertility rate (last 3 years) | 1.768 | 0.173 | 3055 | 5522 | 1.280 | 0.098 | 1.423 | 2.113 |
| Neonatal mortality (last 0-9 years) | 20.791 | 8.974 | 521 | 907 | 1.222 | 0.432 | 2.844 | 38.738 |
| Post-neonatal mortality (last 0-9 years) | 18.372 | 7.679 | 524 | 912 | 1.244 | 0.418 | 3.014 | 33.730 |
| Infant mortality (last 0-9 years) | 39.163 | 10.449 | 523 | 911 | 1.125 | 0.267 | 18.265 | 60.061 |
| Child mortality (last 0-9 years) | 6.990 | 3.666 | 510 | 890 | 0.999 | 0.524 | 0.000 | 14.321 |
| Under-five mortality (last 0-9 years) | 45.879 | 10.302 | 523 | 911 | 1.045 | 0.225 | 25.275 | 66.483 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.668 | 0.025 | 404 | 703 | 1.081 | 0.038 | 0.617 | 0.719 |
| Literacy | 0.981 | 0.006 | 404 | 703 | 0.895 | 0.006 | 0.969 | 0.993 |
| No education | 0.038 | 0.011 | 404 | 703 | 1.167 | 0.292 | 0.016 | 0.061 |
| Secondary or higher education | 0.713 | 0.026 | 404 | 703 | 1.153 | 0.036 | 0.661 | 0.765 |
| Never married (in union) | 0.388 | 0.023 | 404 | 703 | 0.942 | 0.059 | 0.342 | 0.434 |
| Currently married (in union) | 0.587 | 0.022 | 404 | 703 | 0.891 | 0.037 | 0.544 | 0.631 |
| Had first sexual intercourse before age 18 | 0.067 | 0.012 | 343 | 597 | 0.880 | 0.177 | 0.044 | 0.091 |
| Knows any contraceptive method | 0.996 | 0.004 | 240 | 413 | 1.037 | 0.004 | 0.987 | 1.004 |
| Knows any modern contraceptive method | 0.996 | 0.004 | 240 | 413 | 1.037 | 0.004 | 0.987 | 1.004 |
| Want no more children | 0.494 | 0.043 | 240 | 413 | 1.333 | 0.087 | 0.407 | 0.580 |
| Want to delay birth at least 2 years | 0.310 | 0.033 | 240 | 413 | 1.088 | 0.105 | 0.245 | 0.375 |
| Ideal family size | 2.408 | 0.084 | 399 | 694 | 1.348 | 0.035 | 2.239 | 2.577 |
| Had HIV test and received results in past 12 months | 0.076 | 0.012 | 404 | 703 | 0.889 | 0.154 | 0.053 | 0.100 |
| Accepting attitudes towards people with HIV | 0.278 | 0.022 | 399 | 695 | 0.987 | 0.080 | 0.234 | 0.322 |
| na=not applicable |  |  |  |  |  |  |  |  |

Table B. 17 Sampling errors: Shan sample, Myanmar 2015-16

| Variable | Value (R) | Standarderror(SE) | Number of cases |  | Design effect (DEFT) | $\begin{gathered} \text { Relative } \\ \text { error } \\ \text { (SE/R) } \\ \hline \end{gathered}$ | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted ( N ) | Weighted (WN) |  |  | $\begin{gathered} \text { Lower } \\ \text { (R-2SE) } \end{gathered}$ | $\begin{gathered} \text { Upper } \\ (\mathrm{R}+2 \mathrm{SE}) \end{gathered}$ |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.268 | 0.027 | 778 | 1368 | 1.715 | 0.102 | 0.213 | 0.322 |
| Literacy | 0.923 | 0.019 | 778 | 1368 | 1.994 | 0.021 | 0.885 | 0.962 |
| No education | 0.353 | 0.058 | 778 | 1368 | 3.345 | 0.163 | 0.238 | 0.469 |
| Secondary or higher education | 0.342 | 0.045 | 778 | 1368 | 2.647 | 0.132 | 0.251 | 0.432 |
| Never married (never in union) | 0.266 | 0.024 | 778 | 1368 | 1.515 | 0.090 | 0.218 | 0.314 |
| Currently married (in union) | 0.659 | 0.024 | 778 | 1368 | 1.393 | 0.036 | 0.611 | 0.706 |
| Married before age 20 | 0.454 | 0.034 | 645 | 1134 | 1.751 | 0.076 | 0.385 | 0.523 |
| Had sexual intercourse before age 18 | 0.230 | 0.033 | 645 | 1134 | 2.006 | 0.145 | 0.163 | 0.296 |
| Currently pregnant | 0.044 | 0.006 | 778 | 1368 | 0.868 | 0.145 | 0.031 | 0.057 |
| Children ever born | 1.877 | 0.115 | 778 | 1368 | 1.632 | 0.061 | 1.647 | 2.106 |
| Children surviving | 1.649 | 0.088 | 778 | 1368 | 1.516 | 0.054 | 1.472 | 1.826 |
| Children ever born to women age 40-49 | 3.495 | 0.229 | 164 | 287 | 1.378 | 0.065 | 3.038 | 3.952 |
| Know any contraceptive method | 0.940 | 0.018 | 521 | 901 | 1.713 | 0.019 | 0.904 | 0.976 |
| Know a modern method | 0.938 | 0.018 | 521 | 901 | 1.732 | 0.020 | 0.901 | 0.974 |
| Currently using any method | 0.470 | 0.030 | 521 | 901 | 1.362 | 0.063 | 0.410 | 0.530 |
| Currently using a modern method | 0.461 | 0.032 | 521 | 901 | 1.440 | 0.068 | 0.398 | 0.524 |
| Currently using pill | 0.095 | 0.015 | 521 | 901 | 1.200 | 0.162 | 0.064 | 0.126 |
| Currently using IUD | 0.049 | 0.017 | 521 | 901 | 1.841 | 0.358 | 0.014 | 0.084 |
| Currently using condoms | 0.025 | 0.009 | 521 | 901 | 1.380 | 0.378 | 0.006 | 0.044 |
| Currently using injectables | 0.222 | 0.025 | 521 | 901 | 1.393 | 0.115 | 0.171 | 0.272 |
| Currently using implants | 0.004 | 0.002 | 521 | 901 | 0.934 | 0.674 | 0.000 | 0.009 |
| Currently using female sterilization | 0.065 | 0.015 | 521 | 901 | 1.354 | 0.225 | 0.036 | 0.095 |
| Using public sector source | 0.570 | 0.044 | 240 | 418 | 1.376 | 0.078 | 0.481 | 0.658 |
| Want no more children | 0.660 | 0.020 | 521 | 901 | 0.964 | 0.030 | 0.620 | 0.700 |
| Want to delay next birth at least 2 years | 0.147 | 0.014 | 521 | 901 | 0.891 | 0.094 | 0.120 | 0.175 |
| Ideal number of children | 2.622 | 0.106 | 698 | 1229 | 2.062 | 0.040 | 2.410 | 2.834 |
| Mothers received antenatal care for last birth | 0.681 | 0.068 | 266 | 459 | 2.361 | 0.100 | 0.545 | 0.818 |
| Mothers protected against tetanus for last birth | 0.579 | 0.063 | 266 | 459 | 2.079 | 0.110 | 0.452 | 0.706 |
| Births with skilled attendant at delivery | 0.467 | 0.070 | 351 | 607 | 2.176 | 0.149 | 0.328 | 0.607 |
| Had diarrhea in the last 2 weeks | 0.102 | 0.020 | 326 | 564 | 1.188 | 0.201 | 0.061 | 0.143 |
| Treated with ORS | 0.395 | 0.094 | 34 | 57 | 1.053 | 0.237 | 0.208 | 0.582 |
| Sought medical treatment for diarrhea | 0.343 | 0.091 | 34 | 57 | 1.081 | 0.265 | 0.162 | 0.525 |
| Vaccination card seen | 0.364 | 0.066 | 72 | 127 | 1.162 | 0.180 | 0.233 | 0.496 |
| Received BCG vaccination | 0.761 | 0.071 | 72 | 127 | 1.427 | 0.094 | 0.618 | 0.904 |
| Received DPT vaccination (3 doses) | 0.539 | 0.080 | 72 | 127 | 1.364 | 0.148 | 0.379 | 0.698 |
| Received polio vaccination (3 doses) | 0.527 | 0.079 | 72 | 127 | 1.342 | 0.149 | 0.370 | 0.685 |
| Received measles vaccination | 0.637 | 0.083 | 72 | 127 | 1.468 | 0.130 | 0.471 | 0.803 |
| Received all vaccinations | 0.457 | 0.073 | 72 | 127 | 1.248 | 0.159 | 0.312 | 0.603 |
| Height-for-age (-2SD) | 0.365 | 0.033 | 262 | 433 | 1.065 | 0.091 | 0.298 | 0.431 |
| Weight-for-height (-2SD) | 0.047 | 0.011 | 263 | 435 | 0.853 | 0.232 | 0.025 | 0.069 |
| Weight-for-age (-2SD) | 0.155 | 0.022 | 265 | 438 | 0.903 | 0.143 | 0.111 | 0.199 |
| Prevalence of anemia (children 6-59 months) | 0.403 | 0.039 | 166 | 275 | 1.042 | 0.097 | 0.325 | 0.481 |
| Prevalence of anemia (women 15-49) | 0.349 | 0.021 | 727 | 1275 | 1.163 | 0.059 | 0.308 | 0.390 |
| Body Mass Index (BMI) < 18.5 | 0.081 | 0.014 | 701 | 1229 | 1.349 | 0.171 | 0.054 | 0.109 |
| Had an HIV test and received results in past 12 months | 0.047 | 0.014 | 778 | 1368 | 1.879 | 0.304 | 0.018 | 0.076 |
| Accepting attitudes towards people with HIV | 0.200 | 0.029 | 535 | 961 | 1.655 | 0.143 | 0.143 | 0.257 |
| Ever experienced any physical violence since age 15 | 0.100 | 0.023 | 270 | 444 | 1.238 | 0.227 | 0.054 | 0.145 |
| Ever experienced any sexual violence | 0.035 | 0.018 | 270 | 444 | 1.589 | 0.512 | 0.000 | 0.070 |
| Ever experienced any physical/sexual violence by any husband | 0.104 | 0.034 | 216 | 325 | 1.634 | 0.328 | 0.036 | 0.172 |
| Physical/sexual violence in the last 12 months by any husband | 0.074 | 0.022 | 216 | 325 | 1.235 | 0.298 | 0.030 | 0.118 |
| Total fertility rate (last 3 years) | 2.976 | 0.279 | 2195 | 3857 | 1.263 | 0.094 | 2.418 | 3.534 |
| Neonatal mortality (last 0-9 years) | 31.104 | 7.529 | 692 | 1204 | 0.812 | 0.242 | 16.047 | 46.161 |
| Post-neonatal mortality (last 0-9 years) | 42.520 | 13.184 | 698 | 1214 | 1.386 | 0.310 | 16.152 | 68.888 |
| Infant mortality (last 0-9 years) | 73.624 | 14.558 | 693 | 1205 | 1.095 | 0.198 | 44.507 | 102.740 |
| Child mortality (last 0-9 years) | 26.910 | 8.163 | 703 | 1219 | 1.176 | 0.303 | 10.584 | 43.236 |
| Under-five mortality (last 0-9 years) | 98.553 | 19.048 | 699 | 1216 | 1.251 | 0.193 | 60.456 | 136.649 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.251 | 0.034 | 286 | 542 | 1.316 | 0.135 | 0.183 | 0.318 |
| Literacy | 0.668 | 0.068 | 286 | 542 | 2.415 | 0.102 | 0.532 | 0.804 |
| No education | 0.354 | 0.061 | 286 | 542 | 2.144 | 0.173 | 0.232 | 0.476 |
| Secondary or higher education | 0.301 | 0.045 | 286 | 542 | 1.666 | 0.151 | 0.210 | 0.392 |
| Never married (in union) | 0.284 | 0.028 | 286 | 542 | 1.060 | 0.100 | 0.227 | 0.340 |
| Currently married (in union) | 0.685 | 0.031 | 286 | 542 | 1.111 | 0.045 | 0.624 | 0.746 |
| Had first sexual intercourse before age 18 | 0.111 | 0.023 | 248 | 471 | 1.150 | 0.207 | 0.065 | 0.157 |
| Knows any contraceptive method | 0.889 | 0.039 | 198 | 371 | 1.745 | 0.044 | 0.810 | 0.968 |
| Knows any modern contraceptive method | 0.878 | 0.039 | 198 | 371 | 1.677 | 0.045 | 0.800 | 0.957 |
| Want no more children | 0.501 | 0.037 | 198 | 371 | 1.028 | 0.073 | 0.428 | 0.574 |
| Want to delay birth at least 2 years | 0.177 | 0.030 | 198 | 371 | 1.109 | 0.170 | 0.117 | 0.238 |
| Ideal family size | 2.779 | 0.144 | 243 | 463 | 1.426 | 0.052 | 2.491 | 3.066 |
| Had HIV test and received results in past 12 months | 0.050 | 0.018 | 286 | 542 | 1.408 | 0.366 | 0.013 | 0.086 |
| Accepting attitudes towards people with HIV | 0.144 | 0.023 | 191 | 367 | 0.921 | 0.163 | 0.097 | 0.190 |

Table B. 18 Sampling errors: Ayeyarwady sample, Myanmar 2015-16

| Variable | Value (R) | Standarderror(SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | Lower (R-2SE) | $\begin{gathered} \text { Upper } \\ (R+2 S E) \end{gathered}$ |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.161 | 0.010 | 919 | 1650 | 0.838 | 0.063 | 0.141 | 0.182 |
| Literacy | 0.816 | 0.020 | 919 | 1650 | 1.546 | 0.024 | 0.777 | 0.856 |
| No education | 0.087 | 0.016 | 919 | 1650 | 1.686 | 0.181 | 0.055 | 0.118 |
| Secondary or higher education | 0.408 | 0.035 | 919 | 1650 | 2.168 | 0.086 | 0.338 | 0.479 |
| Never married (never in union) | 0.279 | 0.018 | 919 | 1650 | 1.223 | 0.065 | 0.242 | 0.315 |
| Currently married (in union) | 0.656 | 0.020 | 919 | 1650 | 1.245 | 0.030 | 0.617 | 0.695 |
| Married before age 20 | 0.398 | 0.026 | 810 | 1455 | 1.486 | 0.064 | 0.346 | 0.449 |
| Had sexual intercourse before age 18 | 0.178 | 0.016 | 810 | 1455 | 1.182 | 0.089 | 0.146 | 0.209 |
| Currently pregnant | 0.054 | 0.008 | 919 | 1650 | 1.038 | 0.143 | 0.039 | 0.070 |
| Children ever born | 1.724 | 0.070 | 919 | 1650 | 1.123 | 0.041 | 1.583 | 1.864 |
| Children surviving | 1.505 | 0.061 | 919 | 1650 | 1.151 | 0.040 | 1.383 | 1.627 |
| Children ever born to women age 40-49 | 2.923 | 0.169 | 234 | 423 | 1.118 | 0.058 | 2.586 | 3.260 |
| Know any contraceptive method | 1.000 | 0.000 | 601 | 1083 | na | 0.000 | 1.000 | 1.000 |
| Know a modern method | 1.000 | 0.000 | 601 | 1083 | na | 0.000 | 1.000 | 1.000 |
| Currently using any method | 0.556 | 0.024 | 601 | 1083 | 1.162 | 0.042 | 0.508 | 0.603 |
| Currently using a modern method | 0.554 | 0.023 | 601 | 1083 | 1.149 | 0.042 | 0.507 | 0.600 |
| Currently using pill | 0.179 | 0.020 | 601 | 1083 | 1.257 | 0.110 | 0.140 | 0.218 |
| Currently using IUD | 0.027 | 0.009 | 601 | 1083 | 1.400 | 0.342 | 0.009 | 0.046 |
| Currently using condoms | 0.003 | 0.002 | 601 | 1083 | 0.964 | 0.714 | 0.000 | 0.007 |
| Currently using injectables | 0.310 | 0.019 | 601 | 1083 | 0.986 | 0.060 | 0.273 | 0.347 |
| Currently using implants | 0.006 | 0.003 | 601 | 1083 | 0.908 | 0.481 | 0.000 | 0.012 |
| Currently using female sterilization | 0.026 | 0.007 | 601 | 1083 | 1.149 | 0.288 | 0.011 | 0.041 |
| Using public sector source | 0.581 | 0.027 | 336 | 605 | 1.004 | 0.047 | 0.527 | 0.635 |
| Want no more children | 0.640 | 0.019 | 601 | 1083 | 0.973 | 0.030 | 0.602 | 0.679 |
| Want to delay next birth at least 2 years | 0.178 | 0.019 | 601 | 1083 | 1.233 | 0.108 | 0.140 | 0.217 |
| Ideal number of children | 2.412 | 0.073 | 901 | 1615 | 1.543 | 0.030 | 2.267 | 2.557 |
| Mothers received antenatal care for last birth | 0.783 | 0.034 | 275 | 497 | 1.378 | 0.044 | 0.715 | 0.852 |
| Mothers protected against tetanus for last birth | 0.710 | 0.036 | 275 | 497 | 1.303 | 0.050 | 0.639 | 0.782 |
| Births with skilled attendant at delivery | 0.500 | 0.042 | 314 | 567 | 1.368 | 0.083 | 0.417 | 0.584 |
| Had diarrhea in the last 2 weeks | 0.172 | 0.024 | 300 | 542 | 1.096 | 0.141 | 0.123 | 0.220 |
| Treated with ORS | 0.730 | 0.063 | 52 | 93 | 1.022 | 0.086 | 0.604 | 0.855 |
| Sought medical treatment for diarrhea | 0.612 | 0.071 | 52 | 93 | 1.031 | 0.117 | 0.469 | 0.755 |
| Vaccination card seen | 0.336 | 0.069 | 69 | 125 | 1.202 | 0.205 | 0.198 | 0.474 |
| Received BCG vaccination | 0.745 | 0.069 | 69 | 125 | 1.314 | 0.093 | 0.606 | 0.884 |
| Received DPT vaccination (3 doses) | 0.408 | 0.062 | 69 | 125 | 1.043 | 0.153 | 0.283 | 0.532 |
| Received polio vaccination (3 doses) | 0.516 | 0.059 | 69 | 125 | 0.969 | 0.115 | 0.398 | 0.635 |
| Received measles vaccination | 0.706 | 0.056 | 69 | 125 | 1.007 | 0.079 | 0.594 | 0.817 |
| Received all vaccinations | 0.338 | 0.061 | 69 | 125 | 1.055 | 0.179 | 0.217 | 0.459 |
| Height-for-age (-2SD) | 0.372 | 0.034 | 283 | 522 | 1.176 | 0.091 | 0.305 | 0.440 |
| Weight-for-height (-2SD) | 0.039 | 0.012 | 280 | 516 | 1.076 | 0.319 | 0.014 | 0.064 |
| Weight-for-age (-2SD) | 0.246 | 0.027 | 283 | 521 | 1.057 | 0.109 | 0.192 | 0.299 |
| Prevalence of anemia (children 6-59 months) | 0.619 | 0.038 | 255 | 474 | 1.226 | 0.062 | 0.543 | 0.696 |
| Prevalence of anemia (women 15-49) | 0.430 | 0.020 | 888 | 1598 | 1.198 | 0.046 | 0.390 | 0.470 |
| Body Mass Index (BMI) < 18.5 | 0.184 | 0.013 | 848 | 1520 | 0.976 | 0.071 | 0.158 | 0.210 |
| Had an HIV test and received results in past 12 months | 0.047 | 0.008 | 919 | 1650 | 1.202 | 0.178 | 0.030 | 0.064 |
| Accepting attitudes towards people with HIV | 0.204 | 0.025 | 869 | 1556 | 1.857 | 0.125 | 0.153 | 0.255 |
| Ever experienced any physical violence since age 15 | 0.195 | 0.030 | 340 | 574 | 1.414 | 0.156 | 0.134 | 0.256 |
| Ever experienced any sexual violence | 0.033 | 0.013 | 340 | 574 | 1.381 | 0.405 | 0.006 | 0.060 |
| Ever experienced any physical/sexual violence by any husband | 0.189 | 0.032 | 269 | 416 | 1.325 | 0.168 | 0.126 | 0.253 |
| Physical/sexual violence in the last 12 months by any husband | 0.119 | 0.026 | 269 | 416 | 1.331 | 0.221 | 0.066 | 0.172 |
| Total fertility rate (last 3 years) | 2.340 | 0.214 | 2644 | 4744 | 1.362 | 0.092 | 1.911 | 2.768 |
| Neonatal mortality (last 0-9 years) | 36.185 | 6.858 | 705 | 1270 | 0.930 | 0.190 | 22.470 | 49.900 |
| Post-neonatal mortality (last 0-9 years) | 29.410 | 7.141 | 710 | 1277 | 1.080 | 0.243 | 15.128 | 43.692 |
| Infant mortality (last 0-9 years) | 65.595 | 9.047 | 705 | 1270 | 0.960 | 0.138 | 47.501 | 83.689 |
| Child mortality (last 0-9 years) | 17.822 | 5.359 | 722 | 1304 | 1.057 | 0.301 | 7.105 | 28.540 |
| Under-five mortality (last 0-9 years) | 82.248 | 10.993 | 710 | 1279 | 0.995 | 0.134 | 60.263 | 104.234 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.161 | 0.010 | 364 | 653 | 0.533 | 0.064 | 0.141 | 0.182 |
| Literacy | 0.944 | 0.021 | 364 | 653 | 1.721 | 0.022 | 0.902 | 0.985 |
| No education | 0.101 | 0.023 | 364 | 653 | 1.430 | 0.225 | 0.055 | 0.146 |
| Secondary or higher education | 0.470 | 0.039 | 364 | 653 | 1.494 | 0.083 | 0.392 | 0.548 |
| Never married (in union) | 0.332 | 0.030 | 364 | 653 | 1.226 | 0.091 | 0.271 | 0.393 |
| Currently married (in union) | 0.642 | 0.029 | 364 | 653 | 1.155 | 0.045 | 0.584 | 0.700 |
| Had first sexual intercourse before age 18 | 0.056 | 0.013 | 316 | 567 | 1.042 | 0.242 | 0.029 | 0.083 |
| Knows any contraceptive method | 0.991 | 0.006 | 234 | 419 | 1.027 | 0.007 | 0.978 | 1.004 |
| Knows any modern contraceptive method | 0.991 | 0.006 | 234 | 419 | 1.027 | 0.007 | 0.978 | 1.004 |
| Want no more children | 0.492 | 0.035 | 234 | 419 | 1.076 | 0.072 | 0.422 | 0.563 |
| Want to delay birth at least 2 years | 0.236 | 0.039 | 234 | 419 | 1.398 | 0.165 | 0.158 | 0.313 |
| Ideal family size | 1.961 | 0.208 | 339 | 607 | 2.281 | 0.106 | 1.544 | 2.378 |
| Had HIV test and received results in past 12 months | 0.041 | 0.012 | 364 | 653 | 1.120 | 0.283 | 0.018 | 0.065 |
| Accepting attitudes towards people with HIV | 0.116 | 0.018 | 340 | 609 | 1.053 | 0.158 | 0.080 | 0.153 |

Table B. 19 Sampling errors: Nay Pyi Taw sample, Myanmar 2015-16

| Variable | Value (R) | Standarderror(SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | $\begin{gathered} \text { Lower } \\ \text { (R-2SE) } \\ \hline \end{gathered}$ | Upper <br> (R+2SE) |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.315 | 0.049 | 756 | 300 | 2.898 | 0.156 | 0.217 | 0.414 |
| Literacy | 0.868 | 0.014 | 756 | 300 | 1.136 | 0.016 | 0.840 | 0.896 |
| No education | 0.098 | 0.015 | 756 | 300 | 1.372 | 0.152 | 0.068 | 0.127 |
| Secondary or higher education | 0.444 | 0.029 | 756 | 300 | 1.620 | 0.066 | 0.385 | 0.502 |
| Never married (never in union) | 0.279 | 0.017 | 756 | 300 | 1.031 | 0.060 | 0.246 | 0.313 |
| Currently married (in union) | 0.649 | 0.018 | 756 | 300 | 1.046 | 0.028 | 0.613 | 0.685 |
| Married before age 20 | 0.404 | 0.026 | 660 | 261 | 1.361 | 0.064 | 0.352 | 0.456 |
| Had sexual intercourse before age 18 | 0.217 | 0.022 | 660 | 261 | 1.394 | 0.103 | 0.172 | 0.262 |
| Currently pregnant | 0.026 | 0.006 | 756 | 300 | 1.059 | 0.238 | 0.013 | 0.038 |
| Children ever born | 1.650 | 0.093 | 756 | 300 | 1.332 | 0.056 | 1.464 | 1.835 |
| Children surviving | 1.460 | 0.077 | 756 | 300 | 1.274 | 0.053 | 1.306 | 1.615 |
| Children ever born to women age 40-49 | 3.093 | 0.161 | 197 | 76 | 0.947 | 0.052 | 2.772 | 3.414 |
| Know any contraceptive method | 0.992 | 0.004 | 490 | 195 | 0.909 | 0.004 | 0.984 | 0.999 |
| Know a mordern method | 0.992 | 0.004 | 490 | 195 | 0.909 | 0.004 | 0.984 | 0.999 |
| Currently using any method | 0.586 | 0.031 | 490 | 195 | 1.370 | 0.052 | 0.525 | 0.647 |
| Currently using a modern method | 0.547 | 0.030 | 490 | 195 | 1.317 | 0.054 | 0.488 | 0.606 |
| Currently using pill | 0.110 | 0.020 | 490 | 195 | 1.439 | 0.185 | 0.069 | 0.151 |
| Currently using IUD | 0.018 | 0.005 | 490 | 195 | 0.769 | 0.259 | 0.009 | 0.027 |
| Currently using condoms | 0.014 | 0.006 | 490 | 195 | 1.031 | 0.388 | 0.003 | 0.025 |
| Currently using injectables | 0.377 | 0.028 | 490 | 195 | 1.274 | 0.074 | 0.321 | 0.433 |
| Currently using implants | 0.002 | 0.002 | 490 | 195 | 0.904 | 1.005 | 0.000 | 0.005 |
| Currently using female sterilization | 0.020 | 0.006 | 490 | 195 | 0.969 | 0.303 | 0.008 | 0.033 |
| Using public sector source | 0.529 | 0.068 | 268 | 107 | 2.195 | 0.128 | 0.394 | 0.664 |
| Want no more children | 0.571 | 0.034 | 490 | 195 | 1.504 | 0.059 | 0.504 | 0.639 |
| Want to delay next birth at least 2 years | 0.171 | 0.021 | 490 | 195 | 1.209 | 0.121 | 0.129 | 0.212 |
| Ideal number of children | 2.530 | 0.061 | 705 | 281 | 1.158 | 0.024 | 2.409 | 2.651 |
| Mothers received antenatal care for last birth | 0.789 | 0.038 | 208 | 83 | 1.342 | 0.048 | 0.713 | 0.864 |
| Mothers protected against tetanus for last birth | 0.722 | 0.048 | 208 | 83 | 1.547 | 0.066 | 0.626 | 0.817 |
| Births with skilled attendant at delivery | 0.665 | 0.050 | 241 | 96 | 1.509 | 0.076 | 0.564 | 0.765 |
| Had diarrhea in the last 2 weeks | 0.086 | 0.021 | 232 | 92 | 1.183 | 0.250 | 0.043 | 0.129 |
| Treated with ORS | 0.692 | 0.098 | 20 | 8 | 0.950 | 0.141 | 0.496 | 0.887 |
| Sought medical treatment for diarrhea | 0.611 | 0.068 | 20 | 8 | 0.629 | 0.112 | 0.474 | 0.747 |
| Vaccination card seen | 0.251 | 0.077 | 46 | 18 | 1.207 | 0.308 | 0.097 | 0.406 |
| Received BCG vaccination | 0.977 | 0.019 | 46 | 18 | 0.866 | 0.020 | 0.939 | 1.015 |
| Received DPT vaccination (3 doses) | 0.599 | 0.073 | 46 | 18 | 1.008 | 0.122 | 0.453 | 0.745 |
| Received polio vaccination (3 doses) | 0.596 | 0.094 | 46 | 18 | 1.302 | 0.159 | 0.407 | 0.785 |
| Received measles vaccination | 0.858 | 0.045 | 46 | 18 | 0.873 | 0.052 | 0.768 | 0.948 |
| Received all vaccinations | 0.494 | 0.080 | 46 | 18 | 1.077 | 0.161 | 0.334 | 0.653 |
| Height-for-age (-2SD) | 0.220 | 0.030 | 233 | 93 | 1.081 | 0.135 | 0.161 | 0.280 |
| Weight-for-height (-2SD) | 0.066 | 0.015 | 232 | 92 | 0.911 | 0.227 | 0.036 | 0.096 |
| Weight-for-age (-2SD) | 0.163 | 0.020 | 232 | 92 | 0.824 | 0.125 | 0.122 | 0.203 |
| Prevalence of anemia (children 6-59 months) | 0.577 | 0.043 | 203 | 81 | 1.226 | 0.074 | 0.492 | 0.662 |
| Prevalence of anemia (women 15-49) | 0.431 | 0.026 | 732 | 290 | 1.436 | 0.061 | 0.378 | 0.483 |
| Body Mass Index (BMI) < 18.5 | 0.162 | 0.021 | 722 | 286 | 1.505 | 0.128 | 0.120 | 0.203 |
| Had an HIV test and received results in past 12 months | 0.026 | 0.007 | 756 | 300 | 1.190 | 0.265 | 0.012 | 0.040 |
| Accepting attitudes towards people with HIV | 0.142 | 0.020 | 713 | 283 | 1.546 | 0.142 | 0.102 | 0.183 |
| Ever experienced any physical violence since age 15 | 0.207 | 0.029 | 288 | 108 | 1.227 | 0.142 | 0.148 | 0.265 |
| Ever experienced any sexual violence | 0.026 | 0.008 | 288 | 108 | 0.892 | 0.321 | 0.009 | 0.043 |
| Ever experienced any physical/sexual violence by any husband | 0.218 | 0.036 | 227 | 79 | 1.304 | 0.164 | 0.147 | 0.290 |
| Physical/sexual violence in the last 12 months by any husband | 0.148 | 0.031 | 227 | 79 | 1.295 | 0.207 | 0.086 | 0.209 |
| Total fertility rate (last 3 years) | 2.022 | 0.290 | 2197 | 872 | 1.379 | 0.143 | 1.442 | 2.602 |
| Neonatal mortality (last 0-9 years) | 30.362 | 9.324 | 543 | 214 | 1.254 | 0.307 | 11.715 | 49.009 |
| Post-neonatal mortality (last 0-9 years) | 30.076 | 7.298 | 547 | 216 | 0.951 | 0.243 | 15.480 | 44.672 |
| Infant mortality (last 0-9 years) | 60.438 | 11.901 | 544 | 214 | 1.149 | 0.197 | 36.637 | 84.240 |
| Child mortality (last 0-9 years) | 19.796 | 5.306 | 566 | 224 | 0.828 | 0.268 | 9.185 | 30.407 |
| Under-five mortality (last 0-9 years) | 79.038 | 11.074 | 551 | 217 | 1.006 | 0.140 | 56.890 | 101.186 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.288 | 0.040 | 313 | 126 | 1.551 | 0.138 | 0.208 | 0.368 |
| Literacy | 0.973 | 0.008 | 313 | 126 | 0.878 | 0.008 | 0.956 | 0.989 |
| No education | 0.074 | 0.021 | 313 | 126 | 1.433 | 0.287 | 0.032 | 0.117 |
| Secondary or higher education | 0.565 | 0.049 | 313 | 126 | 1.743 | 0.087 | 0.467 | 0.663 |
| Never married (in union) | 0.325 | 0.031 | 313 | 126 | 1.158 | 0.095 | 0.263 | 0.386 |
| Currently married (in union) | 0.645 | 0.032 | 313 | 126 | 1.176 | 0.049 | 0.581 | 0.709 |
| Had first sexual intercourse before age 18 | 0.062 | 0.014 | 262 | 106 | 0.927 | 0.223 | 0.034 | 0.089 |
| Knows any contraceptive method | 0.963 | 0.013 | 201 | 81 | 1.014 | 0.014 | 0.936 | 0.990 |
| Knows any modern contraceptive method | 0.958 | 0.017 | 201 | 81 | 1.206 | 0.018 | 0.924 | 0.992 |
| Want no more children | 0.416 | 0.040 | 201 | 81 | 1.156 | 0.097 | 0.335 | 0.497 |
| Want to delay birth at least 2 years | 0.274 | 0.033 | 201 | 81 | 1.058 | 0.122 | 0.207 | 0.341 |
| Ideal family size | 2.981 | 0.106 | 290 | 116 | 1.192 | 0.036 | 2.768 | 3.194 |
| Had HIV test and received results in past 12 months | 0.063 | 0.021 | 313 | 126 | 1.511 | 0.330 | 0.022 | 0.105 |
| Accepting attitudes towards people with HIV | 0.144 | 0.025 | 294 | 118 | 1.202 | 0.171 | 0.095 | 0.194 |

Table B. 20 Sampling errors for adult and maternal mortality rates, Myanmar 2015-16

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design Effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | $\begin{aligned} & \text { Lower } \\ & \text { (R-2SE) } \end{aligned}$ | $\begin{gathered} \text { Upper } \\ (\mathrm{R}+2 \mathrm{SE}) \end{gathered}$ |
| WOMEN |  |  |  |  |  |  |  |  |
| Adult mortality rates |  |  |  |  |  |  |  |  |
| 15-19 | 0.774 | 0.268 | 17557 | 16600 | 1.24 | 0.346 | 0.239 | 1.309 |
| 20-24 | 1.642 | 0.331 | 22606 | 21850 | 1.208 | 0.202 | 0.98 | 2.304 |
| 25-29 | 1.811 | 0.387 | 24592 | 24241 | 1.407 | 0.214 | 1.037 | 2.585 |
| 30-34 | 2.304 | 0.442 | 24359 | 24064 | 1.352 | 0.192 | 1.42 | 3.187 |
| 35-39 | 1.728 | 0.334 | 21883 | 21357 | 1.174 | 0.193 | 1.061 | 2.395 |
| 40-44 | 3.654 | 0.569 | 16444 | 15948 | 1.19 | 0.156 | 2.517 | 4.791 |
| 45-49 | 3.037 | 0.667 | 11647 | 11534 | 1.154 | 0.22 | 1.704 | 4.37 |
| 15-49 (age-adjusted) | 2.108 | 0.167 | 139088 | 135595 | 1.228 | 0.079 | 1.774 | 2.442 |
| Adult mortality probabilities |  |  |  |  |  |  |  |  |
| ${ }_{35} \mathrm{q}_{15}$ | 72 | 5.555 | 139088 | 135595 | 1.546 | 0.077 | 61 | 83 |
| Maternal mortality rates |  |  |  |  |  |  |  |  |
| 15-19 | 0.02 | 0.02 | 17557 | 16600 | 0.579 | 1.001 | 0 | 0.06 |
| 20-24 | 0.127 | 0.06 | 22606 | 21850 | 0.795 | 0.478 | 0.006 | 0.248 |
| 25-29 | 0.148 | 0.073 | 24592 | 24241 | 0.933 | 0.491 | 0.003 | 0.294 |
| 30-34 | 0.327 | 0.123 | 24359 | 24064 | 1.052 | 0.375 | 0.082 | 0.572 |
| 35-39 | 0.18 | 0.098 | 21883 | 21357 | 1.071 | 0.546 | 0 | 0.376 |
| 40-44 | 0.255 | 0.119 | 16444 | 15948 | 0.94 | 0.466 | 0.017 | 0.493 |
| 45-49 | 0 | 0 | 11647 | 11534 |  |  | 0 | 0 |
| 15-49 (age-adjusted) | 0.156 | 0.033 | 139088 | 135595 | 0.979 | 0.214 | 0.089 | 0.223 |
| Maternal mortality ratio (MMR) | 227 | 47.923 | 139088 | 135595 | 0.979 | 0.211 | 131 | 323 |
| MEN |  |  |  |  |  |  |  |  |
| Adult mortality rates |  |  |  |  |  |  |  |  |
| 15-19 | 1.239 | 0.315 | 18109 | 17063 | 1.108 | 0.254 | 0.609 | 1.87 |
| 20-24 | 1.487 | 0.306 | 22698 | 21617 | 1.17 | 0.206 | 0.875 | 2.099 |
| 25-29 | 3.067 | 0.427 | 24679 | 23812 | 1.179 | 0.139 | 2.213 | 3.921 |
| 30-34 | 5.197 | 0.565 | 24364 | 23741 | 1.172 | 0.109 | 4.068 | 6.327 |
| 35-39 | 7.061 | 0.751 | 20808 | 20676 | 1.241 | 0.106 | 5.558 | 8.563 |
| 40-44 | 8.811 | 1.033 | 15032 | 14773 | 1.308 | 0.117 | 6.746 | 10.877 |
| 45-49 | 8.656 | 1.279 | 10373 | 10224 | 1.339 | 0.148 | 6.097 | 11.214 |
| 15-49 (age-adjusted) | 4.998 | 0.308 | 136063 | 131907 | 1.271 | 0.062 | 4.382 | 5.614 |
| Adult mortality probabilities 35915 | 163 | 9.407 | 136063 | 131907 | 1.474 | 0.058 | 144 | 182 |

* All rates are calculated for last 0-6 years before the survey.


## Table C. 1 Household age distribution

Single-year age distribution of the de facto household population by sex (weighted), Myanmar DHS 2015-16

| Age | Women |  | Men |  | Age | Women |  | Men |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Number | Percent |  | Number | Percent | Number | Percent |
| 0 | 444 | 1.6 | 462 | 2.0 | 37 | 417 | 1.5 | 305 | 1.3 |
| 1 | 395 | 1.4 | 507 | 2.2 | 38 | 427 | 1.5 | 339 | 1.4 |
| 2 | 441 | 1.6 | 418 | 1.8 | 39 | 360 | 1.3 | 294 | 1.2 |
| 3 | 463 | 1.7 | 533 | 2.3 | 40 | 447 | 1.6 | 341 | 1.4 |
| 4 | 466 | 1.7 | 495 | 2.1 | 41 | 319 | 1.2 | 242 | 1.0 |
| 5 | 474 | 1.7 | 483 | 2.1 | 42 | 359 | 1.3 | 318 | 1.3 |
| 6 | 523 | 1.9 | 462 | 2.0 | 43 | 352 | 1.3 | 271 | 1.2 |
| 7 | 505 | 1.8 | 574 | 2.4 | 44 | 343 | 1.2 | 250 | 1.1 |
| 8 | 544 | 2.0 | 496 | 2.1 | 45 | 449 | 1.6 | 389 | 1.7 |
| 9 | 502 | 1.8 | 517 | 2.2 | 46 | 311 | 1.1 | 246 | 1.0 |
| 10 | 496 | 1.8 | 497 | 2.1 | 47 | 351 | 1.3 | 296 | 1.3 |
| 11 | 465 | 1.7 | 546 | 2.3 | 48 | 328 | 1.2 | 264 | 1.1 |
| 12 | 583 | 2.1 | 573 | 2.4 | 49 | 259 | 0.9 | 230 | 1.0 |
| 13 | 606 | 2.2 | 558 | 2.4 | 50 | 389 | 1.4 | 292 | 1.2 |
| 14 | 520 | 1.9 | 489 | 2.1 | 51 | 338 | 1.2 | 227 | 1.0 |
| 15 | 355 | 1.3 | 352 | 1.5 | 52 | 397 | 1.4 | 310 | 1.3 |
| 16 | 410 | 1.5 | 393 | 1.7 | 53 | 387 | 1.4 | 304 | 1.3 |
| 17 | 371 | 1.3 | 390 | 1.7 | 54 | 295 | 1.1 | 229 | 1.0 |
| 18 | 413 | 1.5 | 343 | 1.5 | 55 | 369 | 1.3 | 258 | 1.1 |
| 19 | 379 | 1.4 | 300 | 1.3 | 56 | 305 | 1.1 | 254 | 1.1 |
| 20 | 453 | 1.6 | 403 | 1.7 | 57 | 279 | 1.0 | 221 | 0.9 |
| 21 | 339 | 1.2 | 275 | 1.2 | 58 | 278 | 1.0 | 211 | 0.9 |
| 22 | 443 | 1.6 | 335 | 1.4 | 59 | 214 | 0.8 | 131 | 0.6 |
| 23 | 375 | 1.4 | 330 | 1.4 | 60 | 355 | 1.3 | 259 | 1.1 |
| 24 | 384 | 1.4 | 277 | 1.2 | 61 | 164 | 0.6 | 146 | 0.6 |
| 25 | 415 | 1.5 | 372 | 1.6 | 62 | 209 | 0.8 | 159 | 0.7 |
| 26 | 399 | 1.4 | 296 | 1.3 | 63 | 216 | 0.8 | 158 | 0.7 |
| 27 | 392 | 1.4 | 361 | 1.5 | 64 | 170 | 0.6 | 132 | 0.6 |
| 28 | 458 | 1.7 | 316 | 1.3 | 65 | 222 | 0.8 | 147 | 0.6 |
| 29 | 366 | 1.3 | 305 | 1.3 | 66 | 140 | 0.5 | 125 | 0.5 |
| 30 | 499 | 1.8 | 387 | 1.6 | 67 | 203 | 0.7 | 153 | 0.6 |
| 31 | 354 | 1.3 | 248 | 1.1 | 68 | 146 | 0.5 | 103 | 0.4 |
| 32 | 441 | 1.6 | 354 | 1.5 | 69 | 90 | 0.3 | 78 | 0.3 |
| 33 | 442 | 1.6 | 359 | 1.5 | 70+ | 1,357 | 4.9 | 945 | 4.0 |
| 34 | 391 | 1.4 | 255 | 1.1 | Don't know | 4 | 0.0 | 2 | 0.0 |
| 35 | 460 | 1.7 | 389 | 1.7 |  |  |  |  |  |
| 36 | 368 | 1.3 | 270 | 1.1 | Total | 27,583 | 100.0 | 23,547 | 100.0 |

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview

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 5 -year age groups, Myanmar DHS 201516

|  | Household <br> population of <br> women age | Interviewed women age <br> 15-49 |  | Percentage <br> of eligible <br> women |
| :--- | :---: | ---: | :---: | ---: |
| Age group | $10-54$ | Number | Percentage | wnterviewed |
| $10-14$ | 2,670 | na | na | na |
| $15-19$ | 1,928 | 1,822 | 13.9 | 94.5 |
| $20-24$ | 1,994 | 1,904 | 14.6 | 95.5 |
| $25-29$ | 2,031 | 1,911 | 14.6 | 94.1 |
| $30-34$ | 2,127 | 2,056 | 15.7 | 96.7 |
| $35-39$ | 2,031 | 1,971 | 15.1 | 97.0 |
| $40-44$ | 1,820 | 1,750 | 13.4 | 96.2 |
| $45-49$ | 1,698 | 1,652 | 12.6 | 97.3 |
| $50-54$ | 1,806 | na | na | na |
| $15-49$ | 13,629 | 13,066 | 100.0 | 95.9 |

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 1549 and percent of eligible men who were interviewed (weighted), by 5-year age groups, Myanmar DHS 2015-16

|  | Household <br> population of <br> men age <br> $10-54$ | Interviewed men age <br> 15-49 |  | Percentage <br> of eligible <br> men |
| :--- | ---: | ---: | ---: | ---: |
| Age group | 1,321 | Number | Percentage | interviewed |

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), Myanmar DHS 2015-16

| Subject | Reference group | Percentage with information missing | Number of cases |
| :---: | :---: | :---: | :---: |
| Birth date | Births in the 15 years preceding the survey |  |  |
| Month Only |  | 0.20 | 13,620 |
| Month and Year |  | 0.00 | 13,620 |
| Age at Death | Deceased children born in the 15 years preceding the survey | 0.00 | 1,105 |
| Age/date at first union ${ }^{1}$ | Ever married women age 15-49 Ever married men age 15-49 | $\begin{aligned} & 0.00 \\ & 0.06 \end{aligned}$ | $\begin{aligned} & 8,607 \\ & 3,091 \end{aligned}$ |
| Respondent's education | All women age 15-49 All married age 15-49 | $\begin{aligned} & 0.02 \\ & 0.00 \end{aligned}$ | $\begin{array}{r} 12,885 \\ 4,737 \end{array}$ |
| Diarrhea in last 2 weeks | Living children 0-59 months | 0.30 | 4,099 |
| Anthropometry of children | Living children age 0-59 months (from the Household Questionnaire) |  |  |
| Height |  | 10.23 | 4,594 |
| Weight |  | 8.31 | 4,594 |
| Height or weight |  | 10.27 | 4,594 |
| Anthropometry of women | Women age 15-49 (from the Household Questionnaire) |  |  |
| Height |  | 5.44 | 13,629 |
| Weight |  | 5.42 | 13,629 |
| Height or weight |  | 5.44 | 13,629 |
| Anemia | Living children age 6-59 months (from the Household Questionnaire) |  |  |
| Children |  | 18.80 | 4,157 |
| Women |  | 6.59 | 13,629 |
| ${ }^{1}$ 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 (L), dead (D), and total (T) Children (weighted), Myanmar DHS 2015-16

| Calendar year | Number of births |  |  | Percentage with complete birth date ${ }^{1}$ |  |  | Sex ratio at birth ${ }^{2}$ |  |  | Calendar year ratio ${ }^{3}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | D | T | L | D | T | L | D | T | L | D | T |
| 2016 | 110 | 3 | 113 | 100.0 | 100.0 | 100.0 | 71.3 | 16.3 | 69.0 | na | na | na |
| 2015 | 873 | 38 | 911 | 100.0 | 100.0 | 100.0 | 113.1 | 170.7 | 115.0 | na | na | na |
| 2014 | 834 | 29 | 863 | 100.0 | 100.0 | 100.0 | 129.7 | 213.0 | 131.8 | 100.9 | 78.6 | 99.9 |
| 2013 | 781 | 35 | 816 | 100.0 | 100.0 | 100.0 | 96.4 | 120.6 | 97.4 | 91.8 | 97.4 | 92.0 |
| 2012 | 866 | 43 | 910 | 100.0 | 100.0 | 100.0 | 109.8 | 198.0 | 112.8 | 111.0 | 106.3 | 110.7 |
| 2011 | 781 | 46 | 827 | 100.0 | 100.0 | 100.0 | 99.4 | 81.5 | 98.3 | 93.6 | 100.2 | 94.0 |
| 2010 | 802 | 49 | 852 | 100.0 | 100.0 | 100.0 | 99.1 | 108.8 | 99.6 | 95.0 | 72.4 | 93.3 |
| 2009 | 908 | 89 | 997 | 100.0 | 98.2 | 99.8 | 94.3 | 96.9 | 94.5 | 107.3 | 125.6 | 108.7 |
| 2008 | 890 | 93 | 983 | 100.0 | 100.0 | 100.0 | 97.1 | 160.6 | 101.8 | 104.4 | 102.1 | 104.2 |
| 2007 | 798 | 93 | 891 | 99.5 | 94.7 | 99.0 | 116.0 | 128.3 | 117.3 | 88.5 | 98.7 | 89.5 |
| 2012-2016 | 3,464 | 148 | 3,612 | 100.0 | 100.0 | 100.0 | 110.3 | 162.9 | 112.0 | na | na | na |
| 2007-2011 | 4,179 | 372 | 4,551 | 99.9 | 98.2 | 99.8 | 100.6 | 117.1 | 101.9 | na | na | na |
| 2002-2010 | 4,249 | 500 | 4,749 | 99.9 | 98.1 | 99.7 | 108.5 | 121.6 | 109.8 | na | na | na |
| 1997-2001 | 3,415 | 523 | 3,938 | 99.9 | 97.0 | 99.5 | 106.2 | 133.6 | 109.4 | na | na | na |
| <1997 | 3,545 | 688 | 4,233 | 99.9 | 97.5 | 99.5 | 102.7 | 122.5 | 105.7 | na | na | na |
| All | 18,852 | 2,230 | 21,082 | 99.9 | 97.8 | 99.7 | 105.5 | 126.2 | 107.5 | na | na | na |

[^32]Table C. 5 Reporting of age at death in days
Distribution of reported deaths under one month of age by age at death in days and the percentage of neonatal deaths reported to occur at ages 0-6 days, for 5 -year periods of birth preceding the survey (weighted), Myanmar DHS 2015-16

| Age at death (days) | Number of years preceding the survey |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-4 | 5-9 | 10-14 | 15-19 | 0-19 |
| $<1$ | 39 | 69 | 40 | 68 | 216 |
| 1 | 19 | 34 | 29 | 28 | 110 |
| 2 | 12 | 13 | 12 | 6 | 43 |
| 3 | 4 | 22 | 32 | 18 | 77 |
| 4 | 2 | 8 | 3 | 4 | 18 |
| 5 | 3 | 6 | 9 | 10 | 27 |
| 6 | 3 | 4 | 3 | 3 | 12 |
| 7 | 2 | 5 | 16 | 11 | 34 |
| 8 | 2 | 1 | 2 | 3 | 8 |
| 9 | 1 | 1 | 2 | 3 | 7 |
| 10 | 6 | 5 | 5 | 6 | 21 |
| 11 | 0 | 1 | 1 | 3 | 5 |
| 12 | 1 | 0 | 1 | 0 | 2 |
| 14 | 2 | 2 | 4 | 2 | 10 |
| 15 | 2 | 1 | 3 | 0 | 6 |
| 16 | 0 | 0 | 0 | 2 | 2 |
| 17 | 1 | 0 | 3 | 1 | 5 |
| 18 | 2 | 2 | 2 | 0 | 6 |
| 19 | 0 | 0 | 2 | 2 | 3 |
| 20 | 1 | 2 | 6 | 2 | 11 |
| 21 | 0 | 1 | 0 | 1 | 2 |
| 22 | 0 | 2 | 0 | 2 | 4 |
| 23 | 0 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 1 | 1 |
| 25 | 1 | 0 | 2 | 1 | 5 |
| 26 | 0 | 0 | 0 | 0 | 0 |
| 27 | 0 | 1 | 1 | 1 | 3 |
| 28 | 2 | 0 | 0 | 2 | 4 |
| 30 | 0 | 0 | 0 | 0 | 0 |
| Total 0-30 | 104 | 181 | 177 | 181 | 643 |
| Percentage early neonatal ${ }^{1}$ | 78.2 | 86.5 | 71.9 | 76.1 | 78.2 |

${ }^{1} 0-6$ days / 0-30 days

Table C. 6 Reporting of age at death in months
Distribution of reported deaths under two years of age by age at death in months and the percentage of infant deaths reported to occur at age under one month, for 5 -year periods of birth preceding the survey, Myanmar DHS 2015-16

| Age at death <br> (months) | Number of years preceding the survey |  |  | Total |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
|  | $0-4$ | $5-9$ | $10-14$ | $15-19$ | $0-19$ |
|  | 104 | 181 | 177 | 181 | 643 |
| 1 | 18 | 60 | 54 | 44 | 176 |
| 2 | 13 | 35 | 43 | 39 | 130 |
| 3 | 9 | 22 | 37 | 28 | 96 |
| 4 | 3 | 7 | 18 | 20 | 47 |
| 5 | 1 | 3 | 10 | 13 | 28 |
| 6 | 3 | 3 | 7 | 17 | 30 |
| 7 | 6 | 6 | 3 | 11 | 26 |
| 8 | 2 | 13 | 12 | 7 | 34 |
| 9 | 3 | 7 | 8 | 4 | 22 |
| 10 | 2 | 3 | 3 | 2 | 10 |
| 11 | 4 | 3 | 8 | 3 | 17 |
| 12 | 3 | 10 | 14 | 13 | 39 |
| 13 | 0 | 2 | 5 | 2 | 9 |
| 14 | 0 | 3 | 2 | 3 | 7 |
| 15 | 0 | 2 | 2 | 0 | 5 |
| 16 | 0 | 0 | 0 | 1 | 1 |
| 17 | 2 | 1 | 2 | 1 | 6 |
| 18 | 1 | 2 | 4 | 9 | 16 |
| 19 | 0 | 0 | 0 | 2 | 3 |
| 20 | 0 | 2 | 2 | 0 | 4 |
| 21 | 0 | 2 | 0 | 2 | 4 |
| 22 | 0 | 0 | 1 | 0 | 1 |
| 1 Year | 0 | 3 | 2 | 2 | 8 |
| Total 0-11 | 170 | 342 | 381 | 367 | 1,260 |
| Percentage |  |  |  |  |  |
| neonatal |  |  | 3 | 52.9 | 46.5 |

a Includes deaths under 1 month reported in days
${ }^{1}$ Under 1 month / under 1 year

## Table C. 7 Sibship size and sex ratio of siblings

Mean sibship size and sex ratio of siblings at birth, Myanmar DHS 2015-16

| Age of <br> respondents | Mean sibship <br> size $^{1}$ | Sex ratio of <br> siblings at $^{\text {birth }^{2}}$ |
| :--- | :---: | :---: |
| $15-19$ | 4.7 | 97.8 |
| $20-24$ | 5.0 | 103.9 |
| $25-29$ | 5.3 | 102.6 |
| $30-34$ | 5.6 | 101.9 |
| $35-39$ | 5.8 | 99.2 |
| $40-44$ | 6.1 | 108.1 |
| $45-49$ | 6.1 | 104.3 |
| Total | 5.5 | 102.6 |

${ }^{1}$ Includes the respondent
${ }^{2}$ Excludes the respondent

MINISTRY OF HEALTH AND SPORTS




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Mingalabar. My name is $\qquad$ . I am working with Ministry of Health and Sports. We are conducting a survey about health all over Myanmar. 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. We will then interview women and men age 15-49 with individual questionnaires and also measure height and weight of women 15-49 and children age 5 years. Further, we will conduct anemia test among women 15-49 and children 6 months to age 5 . The household questions usually take about 20 to 30 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: $\qquad$

HOUSEHOLD SCHEDULE

|  |  |  |  |  |  |  | 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 | 11A |
|  | 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. <br> AFTER LISTING THE NAMES AND RECORDING THE RELATIONSHIP AND SEX FOR EACH PERSON, ASK <br> QUESTIONS 2A-2C TO BE SURE THAT THE LISTING IS COMPLETE. <br> THEN ASK APPROPRIATE QUESTIONS IN COLUMNS 5-20 FOR EACH PERSON. | SEE CODES BELOW. | Is (NAME) male or female? | Does (NAME) usually live here? | Did <br> (NAME) <br> stay here last night? | How old is (NAME)? <br> IF 95 <br> OR MORE, <br> RECORD '95'. | What is (NAME)'s current marital status? <br> $1=$ MARRIED <br> OR LIVING <br> TOGETHER <br> 2 = DIVORCED/ <br> SEPARATED <br> 3 = WIDOWED <br> 4 = NEVER- <br> MARRIED <br> AND <br> NEVER <br> LIVED <br> TOGETHER | CIRCLE <br> LINE <br> NUMBER <br> OF ALL <br> WOMEN <br> AGE <br> 15-49 | CIRCLE <br> LINE <br> NUMBER <br> OF ALL <br> MEN <br> AGE <br> 15-49 | CIRCLE <br> LINE <br> NUMBER <br> OF ALL <br> CHILDREN <br> AGE 0-5 | CIRCLE <br> LINE <br> NUMBER <br> OF ALL <br> CHILDREN <br> AGE 2-14 |
| 01 |  |  |  |  | $\begin{array}{ll} \mathrm{Y} & \mathrm{~N} \\ 1 & 2 \end{array}$ | IN YEARS |  | 01 | 01 | 01 | 01 |
| 02 |  |  | 12 | 12 | 12 |  | $\square$ | 02 | 02 | 02 | 02 |
| 03 |  |  | 12 | 12 | 12 |  |  | 03 | 03 | 03 | 03 |
| 04 |  |  | 12 | 12 | 12 |  |  | 04 | 04 | 04 | 04 |
| 05 |  |  | 12 | 12 | 12 |  |  | 05 | 05 | 05 | 05 |
| 06 |  |  | 12 | 12 | 12 |  |  | 06 | 06 | 06 | 06 |
| 07 |  |  | 12 | 12 | 12 |  |  | 07 | 07 | 07 | 07 |
| 08 |  |  | 12 | 12 | 12 |  |  | 08 | 08 | 08 | 08 |
| 09 |  |  | 12 | 12 | 12 |  |  | 09 | 09 | 09 | 09 |
| 10 |  |  | 12 | 12 | 12 |  |  | 10 | 10 | 10 | 10 |

CODES FOR Q. 3: RELATIONSHIP TO HEAD OF HOUSEHOLD
$01=$ HEAD
$02=$ WIFE OR HUSBAND
03 = SON OR DAUBAND
$04=$ SON OR DAUGHT
$10=$ ADOPTED/FOS
STEPCHILD
DAUGHTER-IN-LAW 11 = NOT RELATED
$05=$ GRANDCHILD
$06=$ PARENT
$07=$ PARENT-IN-LAW



|  | IF AGE 0-17 YEARS |  |  |  | IF AGE 2-14 YEARS | ${ }^{\text {IF AG }}$ | $\begin{aligned} & \text { E } 5 \text { YEARS } \\ & \text { R OLDER } \end{aligned}$ | IF AG | E 5-24 YEARS | $\begin{aligned} & \text { IF AGE } \\ & 0-4 \text { YEARS } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{\|l\|l\|} \hline \text { LINE } \\ \text { NO. } \end{array}$ | SURVIVORSHIP AND RESIDENCE OF BIOLOGICAL PARENTS |  |  |  | PRIMARY CARETAKER | EVER ATTENDEDSCHOOL |  | CURRENT/RECENT SCHOOL ATTENDANCE |  | BIRTH REGISTRATION |
|  | 12 | 13 | 14 | 15 | 15A | 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> IF YES: <br> What is her name? <br> RECORD <br> MOTHER'S <br> LINE <br> NUMBER. <br> IF NO, <br> 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> IF YES: <br> What is his name? <br> RECORD <br> FATHER'S <br> LINE <br> NUMBER. <br> IF NO, <br> RECORD <br> '00'. | Who is the primary caretaker of (NAME)? <br> RECORD PRIMARY CARETAKER'S LINE NUMBER <br> IF NOT IN HOUSEHOLD RECORD '00' | Has <br> (NAME) <br> ever <br> attended <br> school? | What is the highest grade (NAME) completed at school? <br> SEE CODES BELOW. | Did (NAME) attend school at any time during the (2015/201 6) school year? | During this/that school year, what grade [is/was] (NAME) attending? <br> SEE CODES BELOW. | Does (NAME) have a birth certificate? <br> IF NO, PROBE: Has (NAME)'s birth ever been registered with the civil authority? $\begin{aligned} & 1=\text { HAS } \\ & \quad \text { CERTIFICATE } \\ & 2=\text { REGISTERED } \\ & 3=\text { NEITHER } \\ & 8=\text { DON'T } \\ & \text { KNOW } \end{aligned}$ |
| 11 | $\begin{array}{llr} Y & \text { N } & \text { DK } \\ 1 & 2 & 8 \\ & & { }^{2} \\ & \text { GO TO } 14 \end{array}$ |  |  |  |  |  | GRADE |  |  |  |
| 12 | $\begin{array}{ll} 1 & 2 \mp^{\square} \\ & \text { GO TO } \\ 14 \end{array}$ |  | 1 $\begin{gathered} 2 \overbrace{\square}^{\square} \\ \text { GO TO 15A } \end{gathered}$ |  |  |  |  |  |  |  |
| 13 | $\begin{array}{lll} 1 & 2 \prod^{\circ} 8 \\ & \text { GO TO } 14 \end{array}$ | $\square$ | $\begin{array}{lll} 1 & 2 \mp^{\square} \\ & 80 \\ \text { GO 15A } \end{array}$ |  |  |  |  |  | I | $\square$ |
| 14 | $\begin{array}{lll} 1 & 2 \prod^{8} \\ & \text { GO TO } 14 \end{array}$ |  | $\begin{array}{lll} 1 & 2 \prod^{2} & 8 \\ \text { GO TO 15A } \end{array}$ |  |  |  |  |  |  | , |
| 15 | $\begin{array}{lll} 1 & 2 \prod^{1} & 8 \\ & \text { GO TO } 14 \end{array}$ |  | $\begin{array}{lll} 1 & 2 \prod^{2} & 8 \\ & \text { GO TO }_{2} \\ \hline \end{array}$ |  |  |  | $\square$ |  |  | ] |
| 16 | $\begin{array}{lll} 1 & 2 \prod^{\circ} 8 \\ & \text { GO TO } 14 \end{array}$ |  | $\begin{array}{lll} 1 & 2 \prod^{2} & 8 \\ & \text { GO TO 15A } \end{array}$ |  |  |  | $\square$ |  |  | $\square$ |
| 17 | $\begin{array}{lll} 1 & 2 \prod^{\square} \\ & \text { GO TO } 14 \end{array}$ | $\square$ | $\begin{array}{lll} 1 & 2 \prod_{\text {GO TO 15A }} \\ & 8 \\ \hline \end{array}$ |  |  |  |  |  |  | $\square$ |
| 18 | $\begin{array}{lll} 1 & 2 \text { TO }^{2} & 8 \\ & \text { GO TO } & 14 \end{array}$ |  | $\begin{array}{lll} 1 & 2 \prod^{2} & 8 \\ \text { GO TO 15A } \end{array}$ |  |  |  |  |  | I | $\square$ |
| 19 | $\begin{array}{lll} 1 & 2 \prod^{\circ} \\ & \text { GO TO } 14 \end{array}$ |  | $\begin{array}{lll} 1 & 2 \prod^{2} & 8 \\ \text { GO TO 15A } \end{array}$ |  |  |  | $\square$ |  | $1$ | $\square$ |
| 20 | 1 2 П GO TO 14 |  | 1 |  |  |  |  |  |  |  |

CODES FOR Qs. 17 AND 19: EDUCATION

## GRADE

$00=$ LESS THAN GRADE 1 COMPLETED
01-11 = GRADE 1 - GRADE 11
12 = BACHELOR'S AND ABOVE
$13=$ VOCATIONAL EDUCATION
98 = DON'T KNOW

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 <br> WEEKLY <br> MONTHLY <br> LESS THAN MONTHLY <br> NEVER | $\begin{array}{r} 1 \\ . \quad 2 \\ . \quad 3 \\ . \quad 4 \\ . \quad 5 \end{array}$ |  |
| 102 | What is the main source of drinking water for members of your household? | PIPED WATER <br> PIPED INTO DWELLING <br> PIPED TO YARD/PLOT <br> PUBLIC TAP/STANDPIPE <br> TUBE WELL OR BOREHOLE <br> DUG WELL <br> PROTECTED WELL <br> UNPROTECTED WELL <br> WATER FROM SPRING <br> PROTECTED SPRING <br> UNPROTECTED SPRING <br> RAINWATER <br> TANKER TRUCK <br> CART WITH SMALL TANK/DRUM <br> SURFACE WATER (RIVER/DAM/ <br> LAKE/POND/STREAM/CANAL/ <br> IRRIGATION CHANNEL) <br> BOTTLED WATER <br> OTHER | .11 <br> . 12 <br> .13 <br> . 21 <br> . 31 <br> .32 <br> .41 <br> .42 <br> . 51 <br> . 61 <br> 71 <br> .81 <br> . 91 <br> 96 |  |
| 103 | Where is that water source located? | IN OWN DWELLING <br> IN OWN YARD/PLOT ELSEWHERE | $\begin{aligned} & 1 \\ & 2 \\ & 3 \end{aligned}$ | $\xrightarrow{\longrightarrow} 105$ |
| 104 | How long does it take to go there, get water, and come back? | MINUTES <br> DON'T KNOW | $\begin{gathered} \\ \hline \\ \hline \end{gathered}$ |  |
| 105 | Do you do anything to the water to make it safer to drink? | YES <br> NO <br> DON'T KNOW | $\begin{array}{r} 1 \\ . \quad 2 \\ . \quad 8 \end{array}$ | $\xrightarrow{\longrightarrow} 107$ |
| 106 | What do you usually do to make the water safer to drink? <br> Anything else? <br> RECORD ALL MENTIONED. | BOIL <br> ADD BLEACH/CHLORINE <br> STRAIN THROUGH A CLOTH <br> USE WATER FILTER (CERAMIC/ <br> SAND/COMPOSITE/ETC.) <br> SOLAR DISINFECTION <br> LET IT STAND AND SETTLE <br> OTHER $\qquad$ |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 107 | What kind of toilet facility do members of your household usually use? |  | $\rightarrow 110$ |
| 108 | Do you share this toilet facility with other households? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | $\rightarrow 110$ |
| 109 | How many households in total use this toilet facility? |  |  |
| 110 | Does your household have: <br> Electricity? <br> A radio? <br> A television? <br> A mobile telephone? <br> A landline telephone? <br> A refrigerator? <br> A table? <br> A chair? <br> A sofa? <br> A bed? <br> A cupboard? <br> An electric fan? <br> Air conditioner? <br> A sewing machine? <br> A computer? |    YES NO |  |
| 111 | What type of fuel does your household mainly use for cooking? |  | $\longrightarrow 114$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 112 | Is the cooking usually done in the house, in a separate building, or outdoors? |  | $\rightarrow 114$ |
| 113 | Do you have a separate room which is used as a kitchen? |  |  |
| 114 | MAIN MATERIAL OF THE FLOOR. RECORD OBSERVATION. |  |  |
| 115 | MAIN MATERIAL OF THE ROOF. RECORD OBSERVATION. |  |  |


| NO. | QUESTIONS AND FILTERS | COding Categories | SKIP |
| :---: | :---: | :---: | :---: |
| 116 | MAIN MATERIAL OF THE EXTERIOR WALLS. <br> RECORD OBSERVATION. |  |  |
| 117 | How many rooms in this household are used for sleeping? | ROOMS |  |
| 118 | Does any member of this household own: <br> A watch? <br> A bicycle? <br> A motorcycle or motor scooter? <br> An animal-drawn cart? <br> A car or truck? <br> A tuk tuk/htawlargyi? <br> A boat with a motor? <br> A boat without a motor? |  |  |
| 119 | Does any member of this household own any agricultural land? |  | $\longrightarrow 121$ |
| 120 | How many acres of agricultural land do members of this household own? <br> IF 95 OR MORE, CIRCLE '950'. |  |  |
| 121 | Does this household own any livestock, herds, other farm animals, or poultry? |  | $\rightarrow 123$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 122 | How many of the following animals does this household own? <br> IF NONE, ENTER '00'. <br> IF 95 OR MORE, ENTER ' 95 '. <br> IF UNKNOWN, ENTER '98'. <br> Cattle? <br> Milk cows or bulls? <br> Horses, donkeys, or mules? <br> Goats? <br> Sheep? <br> Pigs? <br> Chickens? <br> Ducks? | CATTLE COWS/BULLS HORSES/DONKEYS/MULES GOATS SHEEP <br> PIGS <br> CHICKENS <br> DUCKS |  |
| 123 | Does any member of this household have a bank account? |  |  |
| 126 | Does your household have any mosquito nets that can be used while sleeping? |  | $\longrightarrow 137$ |
| 127 | How many mosquito nets does your household have? <br> IF 8 OR MORE NETS, RECORD ' 8 '. | NUMBER OF NETS . ............... |  |


|  |  | NET \#1 | NET \#2 | NET \#3 |
| :---: | :---: | :---: | :---: | :---: |
| 128 | ASK THE RESPONDENT TO SHOW YOU ALL THE NETS IN THE HOUSEHOLD <br> IF MORE THAN 3 NETS, USE ADDITIONAL QUESTIONNAIRE(S) | $\begin{array}{lll}\text { OBSERVED ..... } & 1 \\ \text { NOT OBSERVED ... } & 2\end{array}$ | $\begin{array}{lll}\text { OBSERVED } \ldots . . & 1 \\ \text { NOT OBSERVED ... } & 2\end{array}$ | $\begin{array}{lll}\text { OBSERVED } \ldots . . & 1 \\ \text { NOT OBSERVED... } & 2\end{array}$ |
| 129 | How many months ago did your household get the mosquito net? <br> IF LESS THAN ONE MONTH AGO, RECORD '00'. | MONTHS AGO $\square$ <br> MORE THAN 36 <br> MONTHS AGO . . . 95 <br> NOT SURE <br> ....... 98 | MONTHS AGO $\square$ <br> MORE THAN 36 <br> MONTHS AGO <br> ... 95 <br> NOT SURE <br> ....... . 98 | MONTHS AGO $\square$ <br> MORE THAN 36 <br> MONTHS AGO $\qquad$ <br> NOT SURE $\qquad$ 98 |
| 129A | How did you get this mosquito net? | GOVT/NGODISTRIBUTION ... 1  <br> ANC VISIT $\ldots . .$. 2 <br> PURCHASED $\ldots .$. 3 <br> OTHER $\ldots .$. 6 <br> NOT SURE $\ldots . .$. 8 | GOVT/NGO  <br> DISTRIBUTION ... 1  <br> ANC VISIT $\ldots . .$. 2 <br> PURCHASED $\ldots .$. 3 <br> OTHER $\ldots .$. 6 <br> NOT SURE $\ldots . .$. 8  | GOVT/NGO  <br> DISTRIBUTION ... 1  <br> ANC VISIT $\ldots . .$. 2 <br> PURCHASED $\ldots .$. 3 <br> OTHER $\ldots .$. 6 <br> NOT SURE $\ldots . .$. 8$~$  |
| 130 | OBSERVE OR ASK THE BRAND/ TYPE OF MOSQUITO NET. <br> IF BRAND IS UNKNOWN AND YOU CANNOT OBSERVE THE NET, SHOW PICTURES OF TYPICAL NET TYPES/BRANDS TO RESPONDENT. | LONG-LASTING INSECTICIDE- <br> TREATED NET (LLIN) <br>  | LONG-LASTING INSECTICIDE- <br> TREATED NET (LLIN) <br>  | LONG-LASTING INSECTICIDE- <br> TREATED NET (LLIN) <br> 'PRETREATED' NET SUPANET ... 21_ <br> OTHER/ <br> DK BRAND ... $26-$ <br> (SKIP TO 132) <br> NO BRAND . ...... 95 <br> OTHER BRAND ... 96 <br> DK BRAND ........ 98 |
| 131 | When you got the net, was it already treated with an insecticide to kill or repel mosquitoes? | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2  <br> NOT SURE $\ldots \ldots .$. 8  | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2  <br> NOT SURE $\ldots \ldots .$. 8  | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2  <br> NOT SURE $\ldots \ldots .$. 8  |
| 132 | Since you got the net, was it ever soaked or dipped in a liquid (insecticide) to kill or repel mosquitoes? | $\begin{array}{llll}\text { YES } \quad \ldots \ldots \ldots \ldots & 1 \\ \text { NO } \ldots \ldots \ldots \ldots & 2 \\ \text { (SKIP TO } 134) & 4 \\ \text { NOT SURE } \ldots . . . & 8\end{array}$ | $\begin{aligned} & \text { YES } \quad \ldots \ldots \ldots \ldots \\ & \text { NO } \ldots \ldots \ldots \ldots \\ & \begin{array}{c} 1 \\ \text { (SKIP TO 134) } \end{array} \underbrace{}_{1} \\ & \text { NOT SURE } \ldots \ldots \ldots \end{aligned}$ | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2  <br> (SKIP TO 134)   <br> NOT SURE $\ldots \ldots$. 8  |
| 133 | How many months ago was the net last soaked or dipped? <br> IF LESS THAN ONE MONTH AGO, RECORD ' 00 '. | MONTHS AGO $\square$ <br> MORE THAN 24 <br> MONTHS AGO . . . 95 <br> NOT SURE . ....... 98 | MONTHS AGO $\square$ <br> MORE THAN 24 <br> MONTHS AGO <br> .. 95 <br> NOT SURE $\qquad$ | MONTHS AGO $\square$ <br> MORE THAN 24 <br> MONTHS AGO ... 95 <br> NOT SURE $\qquad$ |


|  |  | NET \#1 | NET \#2 | NET \#3 |
| :---: | :---: | :---: | :---: | :---: |
| 134 | Did anyone sleep under this mosquito net last night? |  | $\begin{aligned} & \text { YES } \quad \ldots \ldots \ldots \ldots \\ & \text { NO } \ldots \ldots \ldots \ldots \\ & \begin{array}{c} 1 \\ \text { (SKIP TO } 136) \end{array} \underbrace{}_{1} \\ & \text { NOT SURE } \ldots \ldots . \end{aligned}$ | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> (SKIP TO 136)  <br> NOT SURE $\ldots . .$. 8 |
| 135 | Who slept under this mosquito net last night? <br> RECORD THE PERSON'S NAME AND LINE NUMBER FROM THE HOUSEHOLD SCHEDULE. | NAME $\qquad$ <br> LINE <br> NO. | NAME $\qquad$ <br> LINE <br> NO. $\qquad$ | NAME $\qquad$ <br> LINE <br> NO. |
|  |  | NAME $\qquad$ <br> LINE <br> NO. | LINE <br> NO. | NAME $\qquad$ <br> LINE <br> NO. |
|  |  | NAME $\qquad$ <br> LINE <br> NO. | NAME $\qquad$ <br> LINE <br> NO. $\qquad$ $\square$ | NAME $\qquad$ <br> LINE <br> NO. $\qquad$ |
|  |  | NAME $\qquad$ <br> LINE <br> NO. | NAME $\qquad$ <br> LINE <br> NO. | NAME $\qquad$ <br> LINE <br> NO. |
| 136 |  | GO BACK TO 128 FOR NEXT NET; OR, IF NO MORE NETS, GO TO 137. | GO BACK TO 128 FOR NEXT NET; OR, IF NO MORE NETS, GO TO 137. | GO TO 128 IN FIRST COLUMN OF A NEW QUESTIONNAIRE; OR, IF NO MORE NETS, GO TO 137. |
| 137 | Please show me where members of your household most often wash their hands. |  | OBSERVED <br> NOT OBSERVED, <br> NOT IN DWELLING/YARD/PLOT <br> NOT OBSERVED, <br> NO PERMISSION TO SEE <br> NOT OBSERVED, OTHER REASON <br> (SKIP TO 140) |  |
| 138 | OBSERVATION ONLY: <br> OBSERVE PRESENCE OF WATER AT THE PLACE FOR HANDWASHING. |  |  |  |
| 139 | OBSERVATION ONLY: <br> OBSERVE PRESENCE OF SOAP, DETERGENT, OR OTHER CLEANSING AGENT. |  |  |  |
| 140 | ASK RESPONDENT FOR A TEASPOONFUL OF COOKING SALT. <br> TEST SALT FOR IODINE. |  |  |  |


|  | NET \#4 | NET \#5 | NET \#6 | NET \#7 | NET \#8 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 128 | $\begin{array}{lll}\text { OBSERVED ..... } & 1 \\ \text { NOT OBSERVED... } & 2\end{array}$ | $\begin{array}{lll}\text { OBSERVED ..... } & 1 \\ \text { NOT OBSERVED... } & 2\end{array}$ | OBSERVED ..... NOT OBSERVED ... N | OBSERVED ..... 1 NOT OBSERVED ... | OBSERVED ..... 1 NOT OBSERVED ... |
| 129 | MONTHS AGO $\square$ <br> MORE THAN 36 <br> MONTHS AGO . . . 95 <br> NOT SURE $\qquad$ | MONTHS AGO $\square$ <br> MORE THAN 36 <br> MONTHS AGO ... 95 <br> NOT SURE $\qquad$ | MONTHS AGO $\square$ <br> MORE THAN 36 <br> MONTHS AGO ... 95 <br> NOT SURE $\qquad$ | MONTHS AGO $\square$ <br> MORE THAN 36 <br> MONTHS AGO ... 95 <br> NOT SURE $\qquad$ | MONTHS AGO $\square$ <br> MORE THAN 36 <br> MONTHS AGO ... 95 <br> NOT SURE $\qquad$ |
| 129A | GOVT/NGO    <br> DISTRIBUTION .... 1   <br> ANC VISIT $\ldots .$. 2  <br> PURCHASED $\ldots$. 3  <br> OTHER $\ldots$. 6  <br> NOT SURE $\ldots .$. 8  |    <br> GOVT/NGO   <br> DISTRIBUTION .... 1  <br> ANC VISIT $\ldots .$. 2 <br> PURCHASED $\ldots$. 3 <br> OTHER $\ldots$. 6 <br> NOT SURE $\ldots .$. 6 | GOVT/NGO   <br> DISTRIBUTION... 1  <br> ANC VISIT $\ldots .$. 2 <br> PURCHASED $\ldots$. 3 <br> OTHER $\ldots .$. 6 <br> NOT SURE $\ldots .$. 8 | GOVT/NGO   <br> DISTRIBUTION .... 1  <br> ANC VISIT $\ldots .$. 2 <br> PURCHASED $\ldots$. 3 <br> OTHER $\ldots .$. 6 <br> NOT SURE $\ldots .$. 8 | GOVTINGO   <br> $\left.\begin{array}{llll}\text { DISTRIBUTION } & \ldots & 1 \\ \text { ANC VISIT } & \ldots . . & 2 \\ \text { PURCHASED } & \ldots . & 3 \\ \text { OTHER } & \ldots . . & 6 \\ \text { NOT SURE } & \ldots . . & 8\end{array}\right)$   |
| 130 |  |  |  | LONG-LASTING INSECTICIDETREATED NET (LLIN) PERMANET ..... 11bestnet $\qquad$ OLYSET $\qquad$ <br> SIAM $\qquad$ <br> OTHER/ <br> DK BRAND ... 16 (SKIP TO 134) <br> 'PRETREATED' NET $\begin{array}{llll}\text { SUPANET } & \ldots & 21 \\ \text { OTHER/ } & & - \\ \text { DK BRAND } & \ldots & 26 \\ \\ \\ \\ \text { (SKIP TO } & 132)\end{array}$ <br> NO BRAND $\qquad$ 95 <br> OTHER BRAND ... 96 <br> DK BRAND ........ 98 | LONG-LASTING INSECTICIDETREATED NET (LLIN) PERMANET ..... 11bESTNET ..... 12 OLYSET ..... $13^{-}$ <br> SIAM ..... 14 $\qquad$ <br> 'PRETREATED' NET SUPANET ... ${ }^{21}$ <br> OTHER/ DK BRAND ... $26-$ (SKIP TO 132) <br> NO BRAND $\qquad$ 95 <br> OTHER BRAND ... 96 <br> DK BRAND ........ 98 |
| 131 | YES $\quad \ldots \ldots \ldots \ldots$ <br> NO $\ldots \ldots \ldots \ldots \ldots$ <br> NOT SURE $\ldots \ldots \ldots$ | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots \ldots$ 2 <br> NOT SURE $\ldots \ldots .$. 8 | $\begin{array}{llll}\text { YES } & \ldots \ldots \ldots \ldots & \ldots \\ \text { NO } \ldots \ldots \ldots \ldots \ldots & 2 \\ \text { NOT SURE } \ldots \ldots \ldots . & 8\end{array}$ | YES NO NO. $\ldots \ldots \ldots \ldots \ldots$ NOT SURE $\ldots \ldots \ldots$ |    <br> YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> NOT SURE $\ldots \ldots .$. 8  |
| 132 |  | $\begin{array}{ll} \text { YES } \quad \ldots \ldots \ldots \ldots & 1 \\ \text { NO } \ldots \ldots \ldots \ldots & 2 \\ \text { NOT SURE TO } 134) & 4 \end{array}$ |  | $\begin{aligned} & \text { YES } \quad \ldots \ldots \ldots \ldots \\ & \text { NO } \ldots \ldots \ldots \ldots \ldots \\ & \begin{array}{c} 1 \\ \text { (SKIP TO 134) } \\ \text { NOT SURE } \ldots \ldots \end{array} \\ & \hline 1 \end{aligned}$ | $\begin{aligned} & \text { YES } \quad \ldots \ldots \ldots \ldots \ldots \\ & \text { NO } \ldots \ldots \ldots \ldots \ldots \\ & \begin{array}{c} 1 \\ \text { (SKIP TO } 134) \end{array} \\ & \text { NOT SURE } \ldots \ldots \ldots \\ & 8 \end{aligned}$ |
| 133 | MONTHS AGO $\square$ <br> MORE THAN 24 <br> MONTHS AGO . . . 95 <br> NOT SURE $\qquad$ | MONTHS AGO $\square$ <br> MORE THAN 24 <br> MONTHS AGO <br> . . 95 <br> NOT SURE $\qquad$ | MONTHS AGO $\square$ <br> MORE THAN 24 <br> MONTHS AGO ... 95 <br> NOT SURE $\qquad$ 98 | MONTHS AGO $\square$ <br> MORE THAN 24 <br> MONTHS AGO <br> ... 95 <br> NOT SURE $\qquad$ 98 | MONTHS AGO $\square$ <br> MORE THAN 24 <br> MONTHS AGO ... 95 <br> NOT SURE $\qquad$ 98 |


|  | NET \#4 | NET \#5 | NET \#6 | NET \#7 | NET \#8 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 134 | YES $\ldots \ldots \ldots .$. 1 <br> NO $\ldots \ldots \ldots \ldots$ 2  <br> (SKIP TO 136)   <br> NOT SURE ....... 8  |  | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2  <br> (SKIP TO 136)   <br> NOT SURE ........ 8  | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2  <br> (SKIP TO 136)  1 <br> NOT SURE ........ 8  |  |
|  |  |  |  |  |  |
|  | NAME $\qquad$ <br> LINE <br> NO. | NAME $\qquad$ <br> LINE <br> NO. $\qquad$ | NAME $\qquad$ <br> LINE <br> NO. $\qquad$ | NAME $\qquad$ <br> LINE <br> NO. | NAME $\qquad$ <br> LINE <br> NO. |
|  | NAME $\qquad$ <br> LINE <br> NO. | NAME $\qquad$ <br> LINE <br> NO. $\qquad$ | NAME $\qquad$ <br> LINE <br> NO. $\qquad$ $\square$ | NAME $\qquad$ <br> LINE <br> NO. | NAME $\qquad$ <br> LINE <br> NO. |
|  | NAME $\qquad$ <br> LINE <br> NO. | NAME $\qquad$ <br> LINE <br> NO. $\qquad$ | NAME $\qquad$ <br> LINE <br> NO. | NAME $\qquad$ <br> LINE <br> NO. | NAME $\qquad$ <br> LINE <br> NO. |
| 136 | GO BACK TO 128 FOR NEXT NET; OR, IF NO MORE NETS, GO TO 137. | GO BACK TO 128 FOR <br> NEXT NET; OR, IF NO MORE NETS, GO TO 137. | GO TO 128 IN FIRST COLUMN OF A NEW QUESTIONNAIRE; OR, IF NO MORE NETS, GO TO 137. | GO TO 128 IN FIRST COLUMN OF A NEW QUESTIONNAIRE; OR, IF NO MORE NETS, GO TO 137. | GO TO 128 IN FIRST COLUMN OF A NEW QUESTIONNAIRE; OR, IF NO MORE NETS, GO TO 137. |


| 141 | CHECK HOUSEHOLD SCHEDULE, COLUMN 11A: |  |  |
| :--- | :--- | :--- | :--- |
|  | AT LEAST ONE CHILD AGE 2-14 | $\square$ | NO CHILDREN |
|  | AGE 2-14 $\square$ | $\rightarrow 162$ |  |

LIST EACH OF THE CHILDREN AGED 2-14 YEARS BELOW IN THE ORDER THEY APPEAR IN THE HOUSEHOLD SCHEDULE. DO NOT INCLUDE OTHER HOUSEHOLD MEMBERS OUTSIDE OF THE AGE RANGE 2-14 YEARS.


- LOOK AT THE LAST DIGIT OF THE HOUSEHOLD NUMBER ON THE COVER PAGE. THIS IS THE ROW NUMBER YOU SHOULD CIRCLE.
- LOOK AT COLUMN 145 AND RECORD THE TOTAL NUMBER OF ELIGIBLE CHILDREN AGE 2-14 $\qquad$ THIS IS THE COLUMN NUMBER YOU SHOULD CIRCLE.
- IF THERE ARE MORE THAN 8 ELIGIBLE CHILDREN IN THE HOUSEHOLD, CIRCLE '8' IN THE ROW AT THE TOP OF THE TABLE. - FIND THE BOX WHERE THE CIRCLED ROW AND THE CIRCLED COLUMN MEET AND CIRCLE THE NUMBER THAT APPEARS IN THE BOX. THIS IS THE RANK NUMBER OF THE ELIGIBLE CHILD WHOSE PARENT OR CARETAKER WILL BE ASKED THE QUESTIONS ON CHILD DISCIPLINE.
- THEN, GO TO COLUMN 143 AND PUT A * NEXT TO THE HOUSEHOLD LINE NUMBER OF THE SELECTED CHILD AND RECORD CHILD'S HOUSEHOLD LINE NUMBER AND NAME IN Q. 148 AND RECORD CHILD'S PARENT OR OTHER MOST KNOWLEDGEABLE ADULT'S NAME AND LINE NUMBER IN Q. 149.

FOR EXAMPLE, IF THE HOUSEHOLD NUMBER IS '716', GO TO ROW 6 AND CIRCLE THE ROW NUMBER ('6'). - IF THERE ARE THREE ELIGIBLE CHILDREN IN THE HOUSEHOLD, GO TO COLUMN 3 AND CIRCLE THE COLUMN NUMBER ('3'). - DRAW LINES FROM ROW 6 AND COLUMN 3 AND FIND THE BOX WHERE THE TWO MEET, AND CIRCLE THE NUMBER IN IT (' 2 '). THIS MEANS YOU HAVE TO SELECT THE SECOND ELIGIBLE CHILD.

- SUPPOSE THE HOUSEHOLD LINE NUMBERS OF THE THREE ELIGIBLE CHILDREN ARE ‘02', ‘03', AND ‘07’; THEN THE ELIGIBLE CHILD FOR THE QUESTIONS ON CHILD DISCIPLINE IS THE SECOND ELIGIBLE CHILD, I.E., THE CHILD WITH HOUSEHOLD LINE NUMBER '03'.
-PUT A * NEXT TO THIS CHILD'S LINE NUMBER IN COLUMN 143 AND ALSO ENTER THE TWO DIGIT LINE NUMBER AND CHILD'S NAME IN Q. 148.
- THEN, RECORD THE LINE NUMBER AND A NAME OF CHILD'S PARENT OR OTHER MOST KNOWLEDGEABLE ADULT IN Q. 149

| LAST DIGIT OF THE HOUSEHOLD NUMBER | TOTAL NUMBER OF CHILDREN AGE 2-14 IN THE HOUSEHOLD |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |
| :---: | :---: | :---: |
| 148 | LINE NUMBER AND NAME OF THE SELECTED CHILD AGE 2-14 YEARS FROM COLUMNS 143 AND 144 | LINE <br> NUMBER $\qquad$ <br> NAME $\qquad$ |
| 149 | LINE NUMBER AND NAME OF CHILD'S MOTHER, FATHER OR OTHER PRIMARY CARETAKER FROM COLUMN 146 | MOTHER/CARETAKER NOT <br> AVAILABLE $00$ <br> LINE <br> NUMBER $\qquad$ <br> NAME $\qquad$ |


|  | THE FOLOWING QUESTIONS 150-161 ON CHILD DISCIPLINE ARE TO BE ADMINISTERED ONLY TO THE MOST KNOWLEDGEABLE ADULT (MOTHER, FATHER, OTHER PRIMARY CARETAKER OR A GUARDIAN OF A CHILD). |  |
| :---: | :---: | :---: |
| 150 | All adults use certain ways to teach or to address a behavior $p$ I will read various methods that are used. I want you to tell me anyone else in the household has used this method with (NAM <br> Took away privileges, forbade something (NAME) liked or did not allow him/her to leave the house (in the past month)? | or <br> he past month. |
| 151 | Explained why some behavior was wrong (in the past month)? |  |
| 152 | Shook him/her (in the past month)? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |
| 153 | Shouted, yelled or screamed at (NAME) in the past month? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 NO . . . . . . . . . . . . . . |
| 154 | Gave him/her something else to do (in the past month)? |  |
| 155 | Spanked, hit or slapped him/her on the bottom with bare hand (in the past month)? | $\begin{aligned} & \text { YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . } \end{aligned}$ |
| 156 | Hit him/her on the bottom or elsewhere on the body with something like a belt, hairbrush, stick or other (in the past month) ? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |
| 157 | Called him/her dumb, lazy, or a similar name (in the past month)? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |
| 158 | Hit or slapped him/her on the face, head or ears (in the past month)? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |
| 159 | Hit or slapped him/her on the hand, arm or leg (in the past month)? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |
| 160 | Beat her/him up with an implement (hit over and over as hard as one could) (in the past month)? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |
| 161 | Do you believe that in order to bring up (raise, educate) (NAME) properly, you need to physically punish him/her? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 NO . . . . . . . . . . . . . . . . . . . . 8 DON'T KNOW . . . . . . . . . . . |

## TABLE FOR SELECTION OF WOMEN FOR THE DOMESTIC VIOLENCE QUESTIONS

LOOK AT THE LAST DIGIT OF THE HOUSEHOLD 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 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 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 HOUSEHOLD 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 |  |  |  |  |  |  |  |  |

WEIGHT, HEIGHT, MUAC, AND HEMOGLOBIN MEASUREMENT FOR CHILDREN AGE 0-5

| 201 | 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). |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | CHILD 1 | CHILD 2 | CHILD 3 |  |
| 202 | LINE NUMBER FROM COLUMN 11 <br> NAME FROM COLUMN 2 | LINE <br> NUMBER . . <br> NAME $\qquad$ | LINE <br> NUMBER . . . <br> NAME $\qquad$ | LINE NUMBER . <br> NAME $\qquad$ |  |
| 203 | IF MOTHER INTERVIEWED, COPY MONTH AND YEAR OF BIRTH FROM BIRTH HISTORY AND ASK DAY; IF MOTHER NOT INTERVIEWED, ASK: What is (NAME)'s birth date? | DAY <br> MONTH <br> YEAR $\square$ | DAY <br> MONTH <br> YEAR $\square$ | DAY MONTH <br> YEAR $\square$ |  |
| 204 | CHECK 203: <br> CHILD BORN IN JANUARY 2010 OR LATER? | $\begin{aligned} & \text { YES } \ldots \ldots \ldots \\ & \text { NO } \ldots \ldots \ldots \\ & \text { (GO TO } 203 \text { FO } \\ & \text { CHILD OR, IF } \\ & \text { CHILDREN, GO } \end{aligned}$ |  |  | $\begin{aligned} & 1 \\ & 2 \\ & 1 \end{aligned}$ |
| 205 | WEIGHT IN KILOGRAMS | KG. $\square$ <br> NOT PRESENT REFUSED OTHER | KG. $\square$ <br> NOT PRESENT REFUSED OTHER | KG. $\square$ <br> NOT PRESENT REFUSED OTHER | 9994 <br> 9995 <br> 9996 |
| 206 | HEIGHT IN CENTIMETERS | CM. $\square$ <br> NOT PRESENT REFUSED OTHER | CM. $\square$ <br> NOT PRESENT REFUSED OTHER | CM. $\square$ <br> NOT PRESENT REFUSED OTHER | $\begin{aligned} & \hline \hline \\ & \hline 9994 \\ & 9995 \\ & 9996 \end{aligned}$ |
| 207 | MEASURED LYING DOWN OR STANDING UP? | LYING DOWN STANDING UP NOT MEASURED | LYING DOWN STANDING UP NOT MEASURED | LYING DOWN STANDING UP NOT MEASURED | $\begin{array}{r} \hline 1 \\ . \quad 1 \\ . \quad 2 \\ . \quad 3 \end{array}$ |
| 207A | MUAC IN CENTIMETERS | CM. $\square$ <br> NOT PRESENT REFUSED OTHER | CM. $\square$ <br> NOT PRESENT REFUSED OTHER | CM. $\square$ <br> NOT PRESENT REFUSED OTHER | $\begin{aligned} & \hline \hline \\ & \hline 994 \\ & \hline 995 \\ & 996 \end{aligned}$ |
| 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 (GO TO 203 FOR CHILD OR, IF N CHILDREN, GO OLDER | 0-5 MONTHS (GO TO 203 FOR CHILD OR, IF NO CHILDREN, GO older | 0-5 MONTHS (GO TO 203 FOR CHILD OR, IF NO CHILDREN, GO OLDER | $\underbrace{1}_{2}$ |
| 209 | LINE NO. OF PARENT/OTHER ADULT RESPONSIBLE FOR THE CHILD (FROM COL. 1 OF HOUSEHOLD SCHEDULE). RECORD '00' IF NOT LISTED. | LINE <br> NUMBER | LINE <br> NUMBER . . . . | LINE <br> NUMBER . . . |  |
| 210 | ASK CONSENT FOR ANEMIA TEST FROM PARENT/OTHER ADULT IDENTIFIED IN 209 AS RESPONSIBLE FOR CHILD. | 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. <br> We ask that all children born in 2010 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. <br> 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. <br> 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. Will you allow (NAME OF CHILD) to participate in the anemia test? |  |  |  |
| 211 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME. |  |  |  |  |
| 212 | RECORD HEMOGLOBIN LEVEL HERE AND IN THE ANEMIA PAMPHLET. | G/DL $\square$ <br> NOT PRESENT REFUSED OTHER | G/DL $\square$ <br> NOT PRESENT REFUSED OTHER | G/DL $\square$ <br> NOT PRESENT REFUSED OTHER | $\begin{aligned} & \hline \hline \\ & \hline .994 \\ & \hline 995 \\ & .996 \end{aligned}$ |
| 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, MUAC, AND HEMOGLOBIN MEASUREMENT FOR CHILDREN AGE 0-5

|  |  | CHILD 4 | CHILD 5 | CHILD 6 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 202 | LINE NUMBER FROM COLUMN 11 <br> NAME FROM COLUMN 2 | LINE NUMBER . . . <br> NAME $\qquad$ | LINE <br> NUMBER . . . . . <br> NAME $\qquad$ | LINE <br> NUMBER <br> NAME $\qquad$ |  |
| 203 | IF MOTHER INTERVIEWED, COPY MONTH AND YEAR OF BIRTH FROM BIRTH HISTORY AND ASK DAY; IF MOTHER NOT INTERVIEWED, ASK: What is (NAME)'s birth date? | DAY <br> MONTH <br> YEAR | DAY MONTH YEAR $\square$ | DAY MONTH <br> YEAR |  |
| 204 | CHECK 203: <br> CHILD BORN IN JANUARY 2010 OR LATER? | YES <br> NO <br> (GO TO 203 FOR CHILD OR, IF N CHILDREN, GO | YES <br> NO <br> (GO TO 203 FOR CHILD OR, IF NO CHILDREN, GO | YES <br> NO <br> (GO TO 203 FOR <br> CHILD OR, IF NO <br> CHILDREN, GO | $\begin{aligned} & 1 \\ & \cdot \quad 2 \\ & \cdot \quad 1 \end{aligned}$ |
| 205 | WEIGHT IN KILOGRAMS | KG. $\square$ <br> NOT PRESENT REFUSED OTHER | KG. $\square$ <br> NOT PRESENT REFUSED OTHER | KG. $\square$ <br> NOT PRESENT REFUSED OTHER | $\begin{array}{\|l\|} \hline \\ \hline \\ \hline 9994 \\ 9995 \\ 9996 \end{array}$ |
| 206 | HEIGHT IN CENTIMETERS | CM. $\square$ <br> NOT PRESENT REFUSED OTHER | CM. $\square$ <br> NOT PRESENT REFUSED OTHER | CM. $\square$ <br> NOT PRESENT REFUSED OTHER |  <br> 9994 <br> 9995 <br> 9996 |
| 207 | MEASURED LYING DOWN OR STANDING UP? | LYING DOWN STANDING UP NOT MEASURED | LYING DOWN STANDING UP NOT MEASURED | LYING DOWN STANDING UP NOT MEASURED | $\begin{array}{ll} . . & 1 \\ . . & 2 \\ . . & 3 \end{array}$ |
| 207A | MUAC IN CENTIMETERS | CM. $\square$ <br> NOT PRESENT REFUSED OTHER | CM. $\square$ <br> NOT PRESENT REFUSED OTHER | CM. $\square$ <br> NOT PRESENT REFUSED OTHER |  <br> 994 <br> 995 <br> 996 |
| 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 <br> (GO TO 203 FOR <br> CHILD OR, IF N <br> CHILDREN, GO <br> older | 0-5 MONTHS <br> (GO TO 203 FOR <br> CHILD OR, IF NO <br> CHILDREN, GO OLDER | 0-5 MONTHS <br> (GO TO 203 FOR <br> CHILD OR, IF NO <br> CHILDREN, GO <br> OLDER | $\begin{array}{ll} \cdots & 1 \\ \mathrm{~T} & \\ \mathrm{Ra} & \\ \hline \end{array}$ <br> 4) $\ldots 2$ |
| 209 | LINE NO. OF PARENT/OTHER ADULT RESPONSIBLE FOR THE CHILD (FROM COL. 1 OF HOUSEHOLD SCHEDULE). RECORD '00' IF NOT LISTED. | LINE <br> NUMBER . | LINE <br> NUMBER | LINE <br> NUMBER |  |
| 210 | ASK CONSENT FOR ANEMIA TEST FROM PARENT/OTHER ADULT IDENTIFIED IN 209 AS RESPONSIBLE FOR CHILD. | 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. <br> We ask that all children born in 2010 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. <br> 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. <br> 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) to participate in the anemia test? |  |  |  |
| 211 | CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME. |  |  |  | $\left.\right\|_{2} ^{1}$ |
| 212 | RECORD HEMOGLOBIN LEVEL HERE AND IN THE ANEMIA PAMPHLET. | G/DL $\square$ <br> NOT PRESENT REFUSED OTHER | G/DL $\square$ <br> NOT PRESENT REFUSED OTHER | G/DL $\square$ <br> NOT PRESENT REFUSED OTHER | $\square$ <br> .994 <br> .995 <br> .996 |
| 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 WOMEN AGE 15-49


|  |  | WOMAN 1 | WOMAN 2 | WOMAN 3 |
| :---: | :---: | :---: | :---: | :---: |
|  | NAME FROM COLUMN 2 | NAME | NAME | NAME |
| 223 | ASK CONSENT <br> FOR <br> ANEMIA TEST <br> FROM <br> RESPONDENT. | 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. <br> 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. <br> 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? |  |  |
| 224 | CIRCLE THE <br> APPROPRIATE <br> CODE AND <br> SIGN <br> YOUR NAME. | (IF REFUSED, GO TO 242) |  |  |
| 225 | PREGNANCY <br> STATUS: CHECK <br> 226 IN WOMAN'S <br> QUESTIONNAIRE <br> OR ASK: <br> Are you pregnant? |  |  |  |
| 239 | PREPARE EQUIPMENT AND SUPPLIES FOR THE TEST AND PROCEED WITH THE TEST. |  |  |  |
| 240 | RECORD HEMO- <br> GLOBIN LEVEL <br> HERE AND IN <br> ANEMIA PAMPHLET |  |  |  |
| 242 | GO BACK TO 216 IN NEXT COLUMN OF THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF AN ADDITIONAL QUESTIONNAIRE; IF NO MORE WOMEN, END THE QUESTIONNAIRE. |  |  |  |

MINISTRY OF HEALTH AND SPORTS


| INTERVIEWER VISITS |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DATE <br> INTERVIEWER'S NAME <br> RESULT* | 1 |  | 2 | 3 | FINAL VISIT |  |  |
|  |  |  |  |  | DAY <br> MONTH <br> YEAR <br> INT. NO. <br> RESULT |  |  |
| NEXT VISIT: DATE <br> TIME |  |  |  |  | TOTAL NUMBER OF VISITS |  |  |
| *RESULT CODES:    <br> 1 COMPLETED 4 REFUSED <br> 2 NOT AT HOME 5 PARTLY COMPLETED <br> 3 POSTPONED 6 INCAPACITATED |  |  |  | 7 OTHER | (SPEC |  |  |
| LANGUAGE OF INTE <br> NATIVE LANGUAGE | IEW <br> RESPONDENT | MYANMAR <br> 1 <br> 1 | $\begin{gathered} \text { ENGLISH } \\ 2 \\ 2 \end{gathered}$ | OTHER <br> 6 $\qquad$ <br> 6 | TRANSLA USED? | YES $1$ | O 2 |
| SUPER <br> NAME | OR |  | NAME | FIELD EDI |  | KEYE |  |

INTRODUCTION AND CONSENT

INFORMED CONSENT
Mingalabar. My name is $\qquad$ . I am working with the Ministry of Health and Sports. We are conducting a survey about health all over Myanmar. 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: $\qquad$ DATE: $\qquad$
RESPONDENT AGREES TO BE INTERVIEWED $\square$ RESPONDENT DOES NOT AGREE TO BE INTERVIEWED $2 \rightarrow$ END
$\downarrow$

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 101 | RECORD THE TIME. | HOUR <br> MINUTES |   <br>   |  |
| 102 | In what month and year were you born? | MONTH <br> DON'T KNOW MONTH <br> YEAR $\square$ <br> DON'T KNOW YEAR |   <br> $\ldots . .98$ <br>  |  |
| 103 | How old were you at your last birthday? <br> COMPARE AND CORRECT 102 AND/OR 103 IF INCONSISTENT. | AGE IN COMPLETED YEARS |  |  |
| 104 | Have you ever attended school? | YES NO | $\begin{array}{ll} \ldots . & 1 \\ \ldots . & 2 \end{array}$ | $\rightarrow 108$ |
| 106 | What is the highest grade you completed? <br> IF COMPLETED LESS THAN GRADE ONE, RECORD '00'. | GRADE |  |  |
| 107 | CHECK 106: <br> GRADE 5 GRADE 6 OR LOWER OR HIGHER |  |  | $\rightarrow 110$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 108 | Now I would like you to read this sentence to me. <br> SHOW CARD TO RESPONDENT. <br> IF RESPONDENT CANNOT READ WHOLE SENTENCE, PROBE: <br> Can you read any part of the sentence to me? |  |  |
| 109 | CHECK 108: |  | $\rightarrow 111$ |
| 110 | Do you read a newspaper or magazine at least once a week, less than once a week or not at all? |  |  |
| 111 | Do you listen to the radio at least once a week, less than once a week or not at all? |  |  |
| 112 | Do you watch television at least once a week, less than once a week or not at all? |  |  |
| 115A | Have you changed your usual place of residence compared with this time last year? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\rightarrow$ 115D |
| 115B | Please tell me where you were living one year ago (state/region)? | STATE/REGION $\qquad$ <br> OTHER COUNTRY $\qquad$ 00 | $\rightarrow 201$ |
| 115C | Was it an urban or rural area? |  |  |
| 115D | How many times have you moved residence in the past 5 years? | NUMBER OF TIMES <br> NOT MOVED IN 5 YEARS | $\rightarrow 201$ |
| 115E | Can you tell me the other locations (state/region) you have lived in the past 5 years? <br> PLEASE PROVIDE THE 3 MOST RECENT LOCATIONS. | STATE/REGION <br> a. LOCATION $\qquad$ <br> b. LOCATION $\qquad$ <br> c. LOCATION $\qquad$ |  |

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 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\longrightarrow 206$ |
| 202 | Do you have any sons or daughters to whom you have given birth who are now living with you? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\longrightarrow 204$ |
| 203 | How many sons live with you? <br> And how many daughters live with you? <br> IF NONE, RECORD '00'. | SONS AT HOME DAUGHTERS AT HOME $\square$ |  |
| 204 | Do you have any sons or daughters to whom you have given birth who are alive but do not live with you? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 NO . . . . . . . . . . . . | $\longrightarrow 206$ |
| 205 | How many sons are alive but do not live with you? <br> And how many daughters are alive but do not live with you? <br> IF NONE, RECORD '00'. | SONS ELSEWHERE <br> DAUGHTERS ELSEWHERE |  |
| 206 | Have you ever given birth to a boy or girl who was born alive but later died? <br> IF NO, PROBE: Any baby who cried or showed signs of life but did not survive? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\longrightarrow 208$ |
| 207 | How many boys have died? <br> And how many girls have died? <br> IF NONE, RECORD '00'. | BOYS DEAD <br> GIRLS DEAD |  |
| 208 | SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL. IF NONE, RECORD '00'. | TOTAL BIRTHS ............ |  |
| 209 | CHECK 208: <br> Just to make sure that I have this right: you have had in TOTAL $\qquad$ births during your life. Is that correct? <br> PROBE AND <br> YES CORRECT <br> 201-208 AS NECESSARY. |  |  |
| 210 | CHECK 208: <br> ONE OR MORE <br> NO BIRTHS BIRTHS |  | $\longrightarrow 226$ |





| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 238 | When did your last menstrual period start? <br> (DATE, IF GIVEN) |  |  |
| 239 | From one menstrual period to the next, are there certain days when a woman is more likely to become pregnant? | YES $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ NO $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ DON'T KNOW $\ldots \ldots \ldots \ldots \ldots$ | $\xrightarrow{\longrightarrow} 301$ |
| 240 | Is this time just before her period begins, during her period, right after her period has ended, or halfway between two periods? |  |  |

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. Have you ever heard of (METHOD)? |  |  |
| :---: | :---: | :---: | :---: |
| 01 | Female Sterilization. PROBE: Women can have an operation to avoid having any more children. |  |  |
| 02 | Male Sterilization. PROBE: Men can have an operation to avoid having any more children. |  |  |
| 03 | IUD. PROBE: Women can have a loop or coil placed inside them by a doctor or a nurse. |  |  |
| 04 | Injectables. PROBE: Women can have an injection by a health provider that stops them from becoming pregnant for one or more months. |  |  |
| 05 | Implants. PROBE: Women can have one or more small rods placed in their upper arm by a doctor or nurse which can prevent pregnancy for one or more years. |  |  |
| 06 | Pill. PROBE: Women can take a pill every day to avoid becoming pregnant. |  |  |
| 07 | Condom. PROBE: Men can put a rubber sheath on their penis before sexual intercourse. |  |  |
| 08 | Female Condom. PROBE: Women can place a sheath in their vagina before sexual intercourse. |  |  |
| 09 | Lactational Amenorrhea Method (LAM). |  |  |
| 10 | Rhythm Method. PROBE: To avoid pregnancy, women do not have sexual intercourse on the days of the month they think they can get pregnant. |  |  |
| 11 | Withdrawal. PROBE: Men can be careful and pull out before climax. | YES $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ NO $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ |  |
| 12 | Emergency Contraception. PROBE: As an emergency measure, within three/five days after they have unprotected sexual intercourse, women can take special pills to prevent pregnancy. |  |  |
| 13 | Have you heard of any other ways or methods that women or men can use to avoid pregnancy? |  |  |
| 302 | CHECK 226: <br> NOT PREGNANT PREGNANT OR UNSURE $\square$ |  | $\longrightarrow 311$ |
| 303 | Are you currently doing something or using any method to delay or avoid getting pregnant? |  | $\rightarrow 311$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 304 | Which method are you using? <br> CIRCLE ALL MENTIONED. <br> IF MORE THAN ONE METHOD MENTIONED, FOLLOW SKIP INSTRUCTION FOR HIGHEST METHOD IN LIST. |  |  |
| 305 | What is the brand name of the pills you are using? <br> IF DON'T KNOW THE BRAND, ASK TO SEE THE PACKAGE. |  |  |
| 306 | What is the brand name of the condoms you are using? <br> IF DON'T KNOW THE BRAND, ASK TO SEE THE PACKAGE. |  |  |
| 307 | In what facility did the sterilization take place? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. <br> (NAME OF PLACE) |  |  |
| 307A | CHECK 304: <br> CODE 'A' <br> CIRCLED <br> Before your sterilization the sterilization $\begin{aligned} & \text { Before theration, was your } \\ & \text { operation }\end{aligned}$ operation, were you told that you would not be able to have any (more) children because of the operation? <br> CODE 'A' NOT CIRCLED husband/partner told that he would not be able to have any (more) children because of the operation? |  |  |




| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 316 | CHECK 304: <br> CIRCLE METHOD CODE: <br> IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST. |  |  |
| 317 $317 A$ | At that time, were you told about side effects or problems you might have with the method? <br> When you got sterilized, were you told about side effects or problems you might have with the method? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\longrightarrow 319$ |
| 318 | Were you ever told by a health or family planning worker about side effects or problems you might have with the method? |  | $\rightarrow 320$ |
| 319 | Were you told what to do if you experienced side effects or problems? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |  |
| 320 | CHECK 317: | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 NO . . . . . . . . . . . . . | $\longrightarrow 322$ |
| 321 | Were you ever told by a health or family planning worker about other methods of family planning that you could use? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |  |
| 322 | CHECK 304: <br> CIRCLE METHOD CODE: <br> IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST. |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 323 | Where did you obtain (CURRENT METHOD) the last time? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. | PUBLIC SECTOR <br> GOVT. HOSPITAL ................ 11 <br> GOVT. HEALTH CENTER (RHC) . . 12 <br> GOVT. HEALTH POST <br> (SUB-CENTER) ............... 13 <br> VILLAGE HEALTH WORKER ..... 14 <br> MOBILE CLINIC .................. 15 <br> UHC/MCH CENTER ................. 16 <br> OTHER PUBLIC <br> SECTOR $\qquad$ <br> NON-GOVERNMENT SECTOR <br> MARIE STOPES . .................. <br> MYANMAR RED CROSS SOCIETY . <br> PSI/M (SUN) $\qquad$ 23 <br> MMA <br> OTHER NGO SECTOR $\qquad$ <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL/CLINIC <br> PHARMACY $\qquad$ <br> PRIVATE DOCTOR $\qquad$ 33 <br> MOBILE CLINIC <br> FIELDWORKER $\qquad$ MEDICAL 34 35 SECTOR $\qquad$ <br> OTHER SOURCE <br> SHOP . <br> FRIEND/RELATIV $\qquad$ 42 <br> OTHER $\qquad$ | 326 |
| 324 | Do you know of a place where you can obtain a method of family planning? |  | $\rightarrow 326$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 325 | Where is that? <br> Any other place? <br> PROBE TO IDENTIFY EACH TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. | PUBLIC SECTOR <br> GOVT. HOSPITAL ............... A <br> GOVT. HEALTH CENTER (RHC) ... B <br> GOVT. HEALTH POST <br> (SUB-CENTER) ............... C <br> VILLAGE HEALTH WORKER ..... D <br> MOBILE CLINIC <br> UHC/MCH CENTER $\qquad$ <br> OTHER PUBLIC <br> SECTOR $\qquad$ <br> NON-GOVERNMENT SECTOR MARIE STOPES <br> MYANMAR RED CROSS SOCIETY PSI/M (SUN) <br> MMA <br> OTHER NGO SECTOR <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL/CLINIC PHARMACY <br> PRIVATE DOCTOR $\qquad$ <br> MOBILE CLINIC <br> FIELDWORKER <br> OTHER PRIVATE MEDICAL SECTOR $\qquad$ R <br> (SPECIFY) <br> OTHER SOURCE <br> SHOP $\qquad$ <br> FRIEND/RELATIVE $\qquad$ <br> OTHER $\qquad$ x (SPECIFY) |  |
| 326 | In the last 12 months, were you visited by AMW, CHW, or CSG who talked to you about family planning? |  |  |
| 327 | In the last 12 months, have you visited a health facility for care for yourself (or your children)? |  | $\rightarrow 401$ |
| 328 | Did any staff member at the health facility speak to you about family planning methods? |  |  |

SECTION 4. PREGNANCY AND POSTNATAL CARE


| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME | NEXT-TO-LAST BIRTH <br> NAME | SECOND-FROM-LAST BIRTH <br> NAME |
| :---: | :---: | :---: | :---: | :---: |
| 410 | Where did you receive antenatal care for this pregnancy? | HOME YOUR HOME ... A OTHER HOME . . . B |  |  |
|  | PROBE TO IDENTIFY EACH TYPE of source. | PUBLIC SECTOR <br> GOVT. HOSPITAL C GOVT. HEALTH CENTER (RHC. D |  |  |
|  | IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. | GOVT. HEALTH POST SUBCENTER ..... E MOBILE CLINIC . F UHC/MCH CENTER G OTHER PUBLIC SECTOR |  |  |
|  | (NAME OF PLACE(S)) | (SPECIFY) |  |  |
|  |  | NGO <br> MARIE STOPES . I <br> MYANMAR <br> RED CROSS J <br> PSI/M (SUN) ... K <br> MMA <br> ... L <br> OTHER NGO <br> SECTOR |  |  |
|  |  | (SPECIFY) |  |  |
|  |  | PRIVATE MED. SECTOR PVT. HOSPITAL/ CLINIC. $\qquad$ OTHER PRIVATE MED. SECTOR $\qquad$ 0 (SPECIFY) |  |  |
|  |  |  |  |  |
| 411 | How many months pregnant were you when you first received antenatal care for this pregnancy? | MONTHS $\square$ |  |  |
|  |  | DON'T KNOW ..... 98 |  |  |
| 412 | How many times did you receive antenatal care during this pregnancy? | NUMBER OF TIMES |  |  |
|  |  | DON'T KNOW ..... 98 |  |  |
| 413 | As part of your antenatal care during this pregnancy, were any of the following done at least once: | YES NO |  |  |
|  | Was your blood pressure measured? | BP ....... 1 2 |  |  |
|  | Did you give a urine sample? <br> Did you give a blood sample? | URINE $\ldots .$. 1 2  <br> BLOOD  1 2 |  |  |
| 414 | During (any of) your antenatal care visit(s), were you told about things to look out for that might suggest problems with the pregnancy? | YES $\ldots \ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> DON'T KNOW . .... 8 |  |  |


| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME $\qquad$ | NEXT-TO-LAST BIRTH <br> NAME $\qquad$ | SECOND-FROM-LAST BIRTH <br> NAME $\qquad$ |
| :---: | :---: | :---: | :---: | :---: |
| 415 | During this pregnancy, were you given an injection in the arm to prevent the baby from getting tetanus, that is, convulsions after birth? | $\begin{array}{lll} \text { YES . . . . . . . . . . . } & 1 \\ \text { NO . . . . . . . . . } & 2 \\ \begin{array}{lll}  \\ \text { (SKIP TO 418) } & \\ \text { DON'T KNOW . . . . } & 8 \end{array} \end{array}$ |  |  |
| 416 | During this pregnancy, how many times did you get a tetanus injection? | TIMES $\square$ <br> DON'T KNOW $8$ |  |  |
| 417 | CHECK 416: |  |  |  |
| 418 | At any time before this pregnancy, did you receive any tetanus injections? |  |  |  |
| 419 | Before this pregnancy, how many times did you receive a tetanus injection? <br> IF 7 OR MORE TIMES, RECORD '7'. | TIMES $\square$ <br> DON'T KNOW $8$ |  |  |
| 420 | How many years ago did you receive the last tetanus injection before this pregnancy? | YEARS AGO |  |  |
| 421 | During this pregnancy, were you given or did you buy any iron tablets or iron syrup? <br> SHOW TABLETS/SYRUP. | $\begin{aligned} & \text { YES . . . . . . . . . . . } \\ & \text { NO . . . . . . . . } \end{aligned}$ |  |  |
| 422 | During the whole pregnancy, for how many days did you take the tablets or syrup? <br> IF ANSWER IS NOT NUMERIC, PROBE FOR APPROXIMATE NUMBER OF DAYS. | DAYS $\square$ <br> DON'T KNOW <br> 998 |  |  |
| 423 | During this pregnancy, did you take any drug for intestinal worms? | YES $\ldots \ldots . . . .$. 1 <br> NO . . . . . . . . . . . 2 <br> DON'T KNOW . . . . 8 |  |  |
| 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   <br> AVERAGE .... 2  <br> AVERAGE ...... 3  <br> SMALLER THAN   <br> AVERAGE .... 4  <br> VERY SMALL $\ldots .$. 5 <br> DON'T KNOW ..... 8  | VERY LARGE $\ldots . .$. 1  <br> LARGER THAN   <br> AVERAGE ..... 2  <br> AVERAGE ...... 3  <br> SMALLER THAN   <br> AVERAGE $\ldots$. 4 <br> VERY SMALL $\ldots .$. 5 <br> DON'T KNOW $\ldots .$. 8 | VERY LARGE ..... 1  <br> LARGER THAN   <br> AVERAGE ..... 2  <br> AVERAGE ...... 3  <br> SMALLER THAN   <br> AVERAGE .... 4  <br> VERY SMALL $\ldots .$. 5 <br> DON'T KNOW ..... 8  |


| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME | NEXT-TO-LAST BIRTH <br> NAME $\qquad$ | SECOND-FROM-LAST BIRTH <br> NAME $\qquad$ |
| :---: | :---: | :---: | :---: | :---: |
| 431 | Was (NAME) weighed at birth? |  |  |  |
| 432 | How much did (NAME) weigh? <br> RECORD WEIGHT IN KILOGRAMS FROM HEALTH CARD, IF AVAILABLE. | KG FROM CARD <br> 1 <br> KG FROM RECALL <br> 2 $\square$ $\square$ <br> DON'T KNOW <br> 99998 | KG FROM CARD <br> 1 <br> KG FROM RECALL | KG FROM CARD <br> 1 <br> KG FROM RECALL <br> 2 $\square$ $\square$ <br> DON'T KNOW <br> 99998 |
| 433 | Who assisted with the delivery of (NAME)? <br> Anyone else? <br> PROBE FOR THE TYPE(S) OF PERSON(S) AND RECORD ALL MENTIONED. <br> IF RESPONDENT SAYS NO ONE ASSISTED, PROBE TO DETERMINE WHETHER ANY ADULTS WERE PRESENT AT THE DELIVERY. |  |  |  |





| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME $\qquad$ | NEXT-TO-LAST BIRTH <br> NAME $\qquad$ | SECOND-FROM-LAST BIRTH <br> NAME $\qquad$ |
| :---: | :---: | :---: | :---: | :---: |
| 447 | Has your menstrual period returned since the birth of (NAME)? |  |  |  |
| 448 | Did your period return between the birth of (NAME) and your next pregnancy? |  |  |  |
| 449 | For how many months after the birth of (NAME) did you not have a period? | MONTHS <br> DON'T KNOW | MONTHS <br> DON'T KNOW | MONTHS ... <br> DON'T KNOW |
| 450 | CHECK 226: <br> IS RESPONDENT PREGNANT? |  |  |  |
| 451 | Have you had sexual intercourse since the birth of (NAME)? |  |  |  |
| 452 | For how many months after the birth of (NAME) did you not have sexual intercourse? | MONTHS $\square$ <br> DON'T KNOW | MONTHS <br> DON'T KNOW | MONTHS <br> DON'T KNOW |
| 453 | Did you ever breastfeed (NAME)? |  |  |  |
| 454 | CHECK 404: <br> IS CHILD LIVING? |  |  |  |


| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME $\qquad$ | NEXT-TO-LAST BIRTH <br> NAME | SECOND-FROM-LAST BIRTH <br> NAME $\qquad$ |
| :---: | :---: | :---: | :---: | :---: |
| 455 | How long after birth did you first put (NAME) to the breast? <br> IF LESS THAN 1 HOUR, RECORD '00' HOURS. IF LESS THAN 24 HOURS, RECORD HOURS. OTHERWISE, RECORD DAYS. | IMMEDIATELY $\qquad$ <br> HOURS 1 <br> DAYS |  |  |
| 456 | In the first three days after delivery, was (NAME) given anything to drink other than breast milk? |  |  |  |
| 457 | What was (NAME) given to drink? <br> Anything else? <br> RECORD ALL LIQUIDS MENTIONED. |  |  |  |
| 458 | CHECK 404: IS CHILD LIVING? |  |  |  |
| 459 | Are you still breastfeeding (NAME)? | $\begin{array}{ll} \text { YES } \ldots \ldots \ldots & \ldots \\ \text { NO } \ldots \ldots \ldots & 1 \\ \ldots & \ldots \\ \hline \end{array}$ |  |  |
| 460 | Did (NAME) drink anything from a bottle with a nipple yesterday or last night? | YES $\ldots \ldots \ldots \ldots \ldots$ 1 <br> NO .............................. 2 <br> DON'T KNOW .... 8 | YES $\ldots \ldots \ldots \ldots \ldots$ 1 <br> NO ......................... 2 <br> DON'T KNOW ..... 8 | YES $\ldots \ldots \ldots \ldots \ldots$ 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. |



| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME $\qquad$ | NEXT-TO-LAST BIRTH <br> NAME $\qquad$ | SECOND-FROM-LAST BIRTH <br> NAME $\qquad$ |
| :---: | :---: | :---: | :---: | :---: |
| 508 | Has (NAME) had any vaccinations that are not recorded on this card, including vaccinations given in a national immunization day campaign? <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 $\qquad$ 1 <br> (PROBE FOR VACCINATIONS AND WRITE '66' IN THE CORRESPONDING DAY COLUMN IN 506) (SKIP TO 511) <br> NO <br>  | YES . . . . . . . . . . . . . 1 <br> (PROBE FOR <br> VACCINATIONS AND <br> WRITE '66' IN THE <br> CORRESPONDING <br> DAY COLUMN IN 506) <br> (SKIP TO 511) <br> NO ............... 2 <br> (SKIP TO 511) <br> DON'T KNOW <br> 8 |
| 509 | Did (NAME) ever have any vaccinations to prevent him/her from getting diseases, including vaccinations received in a national immunization day campaign? |  |  |  |
| 510 $510 A$ | Please tell me if (NAME) had any of the following vaccinations: <br> A BCG vaccination against tuberculosis, that is, an injection in the arm or shoulder that usually causes a scar? | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO . . . . . . . . . . . . 2 <br> DON'T KNOW . . . . 8 | YES $\ldots \ldots \ldots \ldots .$. 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> DON'T KNOW $\ldots \ldots$ 8 | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO . . . . . . . . . . . . 2 <br> DON'T KNOW . . . . 8 |
| 510B | Within 24 hours after birth, did (NAME) receive a Hepatitis B vaccination, that is an injection in the thigh to prevent Hepatitis B ? |  |  |  |
| 510C | Polio vaccine, that is, drops in the mouth? | YES $\ldots \ldots \ldots \ldots \ldots$ <br> NO $\ldots \ldots \ldots \ldots$ <br> (SKIP TO 510E) <br> DON'T KNOW . . . . . | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots$ $\ldots \ldots$ <br> (SKIP TO 510E) 2 <br> DON'T KNOW . . . . . 8 | $\begin{array}{cc} \text { YES } \ldots \ldots \ldots \ldots \ldots & 1 \\ \text { NO } \ldots \ldots \ldots \ldots \ldots & 2 \\ \begin{array}{c} \text { (SKIP TO } 510 E) \longleftarrow \\ \text { DON'T KNOW . . . . } \end{array} & 8 \end{array}$ |
| 510D | How many times was the polio vaccine given? | NUMBER <br> OF TIMES ..... | NUMBER OF TIMES | NUMBER OF TIMES |
| 510E | A DPT/PENTAVALENT vaccination, that is, an injection given in the thigh, sometimes at the same time as polio drops? | $\begin{gathered} \text { YES } \ldots \ldots \ldots \ldots \ldots \\ \text { NO . . . . . . . . . . . } \\ \begin{array}{c} 1 \\ \text { (SKIP TO } 510 G) ~ \\ \text { DON'T KNOW . . . . } \end{array} \\ 8 \end{gathered}$ |  |  |
| 510F | How many times was the DPT/PENTAVALENT vaccination | NUMBER <br> OF TIMES | NUMBER OF TIMES $\square$ | NUMBER <br> OF TIMES |
| 510G | A HEP B vaccination, that is, an injection given in the thigh, to prevent him/her from getting hepatitis? |  | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> (SKIP TO 510I)  <br> DON'T KNOW ..... 8 |  |
| 510 H | How many times was the HEP B vaccination given? | NUMBER <br> OF TIMES | NUMBER <br> OF TIMES | NUMBER <br> OF TIMES |
| 5101 | A measles injection or an MMR/MR injection- that is, a shot in the arm at the age of 9 months or older - to prevent him/her from getting measles? |  | $\begin{aligned} & \text { YES } \ldots \ldots \ldots \ldots . . \\ & \text { NO } \ldots \ldots \ldots \ldots \\ & \text { (SKIP TO 511) } \\ & \text { DON'T KNOW } \ldots \ldots \\ & \hline \end{aligned}$ | $\begin{array}{l\|l\|l} \text { YES } \ldots \ldots \ldots \ldots \ldots & 1 \\ \text { NO } \ldots \ldots \ldots \ldots \ldots & 2 \\ \text { (SKIP TO 511) } \\ \text { DON'T KNOW } \ldots \ldots & 8 \end{array}$ |
| 510J | How many times did (NAME) receive the measles vaccine? | NUMBER <br> OF TIMES | NUMBER OF TIMES $\square$ | NUMBER OF TIMES $\square$ |


| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME $\qquad$ | NEXT-TO-LAST BIRTH <br> NAME | SECOND-FROM-LAST BIRTH <br> NAME $\qquad$ |
| :---: | :---: | :---: | :---: | :---: |
| 511 | Within the last six months, was (NAME) given a vitamin A dose like (this/any of these)? <br> SHOW COMMON TYPES OF CAPSULES. | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> DON'T KNOW . . . . . . . 8 | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots . .$. 2 <br> DON'T KNOW .................... 8 | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> DON'T KNOW $\ldots \ldots$ 8 |
| 512 | In the last seven days, was (NAME) given sprinkles with iron or any micronutrient powder like (this/any of these)? <br> SHOW COMMON TYPES OF SPRINKLES/SACHETS. | YES $\ldots \ldots . . . . .$. 1 <br> NO $\ldots \ldots . . . .$. 2 <br> DON'T KNOW . . . . . 8 | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots . . .$. 2 <br> DON'T KNOW . . . . . . 8 | YES $\ldots \ldots \ldots \ldots .$. 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> DON'T KNOW $\ldots \ldots$ 8 |
| 512A | In the last seven days, was (NAME) given multi vitamin syrups? | YES $\ldots \ldots \ldots \ldots$ $\ldots$ <br> NO $\ldots \ldots \ldots$ 1 <br> DON'T KNOW . . . . . . . 2 <br> 8  | YES $\ldots \ldots \ldots$ $\ldots$ 1 <br> NO $\ldots \ldots \ldots .$. 2  <br> DON'T KNOW $\ldots .$. 8  | YES $\ldots \ldots \ldots \ldots$ $\ldots$ <br> NO $\ldots \ldots \ldots$ $\ldots$ <br> DON'T KNOW . . . . . . 2 <br> 8  |
| 513 | Was (NAME) given any drug for intestinal worms in the last six months? |  | YES $\ldots \ldots \ldots . .$. 1 <br> NO $\ldots \ldots \ldots . .$. 2 <br> DON'T KNOW ...... 8 | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> DON'T KNOW . . . . . . 8 |
| 514 | Has (NAME) had diarrhea in the last 2 weeks? |  |  |  |
| 515 | Was there any blood in the stools? | YES $\ldots \ldots \ldots \ldots$ $\ldots$ <br> NO $\ldots \ldots \ldots$ 1 <br> DON'T KNOW . . . . . . 2 <br> 8  | YES $\ldots \ldots \ldots . . .$. 1 <br> NO $\ldots \ldots . . . .$. 2 <br> DON'T KNOW ...... 8 | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> DON'T KNOW . . . . . . 8 |
| 516 | Now I would like to know how much (NAME) was given to drink during the diarrhea (including breastmilk). <br> Was he/she given less than usual to drink, about the same amount, or more than usual to drink? <br> IF LESS, PROBE: Was he/she given much less than usual to drink or somewhat less? | $\begin{array}{lll}\text { MUCH LESS ..... } & 1 \\ \text { SOMEWHAT LESS } & 2 \\ \text { ABOUT THE SAME } & 3 \\ \text { MORE ........... } & 4 \\ \text { NOTHING TO DRINK } & 5 \\ \text { DON'T KNOW ..... } & 8\end{array}$ | $\begin{array}{lll}\text { MUCH LESS ..... } & 1 \\ \text { SOMEWHAT LESS } & 2 \\ \text { ABOUT THE SAME } & 3 \\ \text { MORE ........... } & 4 \\ \text { NOTHING TO DRINK } & 5 \\ \text { DON'T KNOW ..... } & 8\end{array}$ | 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 |
| 517 | When (NAME) had diarrhea, was he/she given less than usual to eat, about the same amount, more than usual, or nothing to eat? <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 $\ldots .$. 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 $\ldots . .$. 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 |
| 518 | Did you seek advice or treatment for the diarrhea from any source? | YES $\ldots \ldots \ldots \ldots \ldots$ NO $\ldots \ldots \ldots \ldots$ $($ SKIP TO 522$) \longleftarrow$ | YES $\ldots \ldots \ldots \ldots$NO $\ldots \ldots \ldots \ldots$1 <br> $($ SKIP TO 522). | YES $\ldots \ldots \ldots \ldots \ldots$ NO $\ldots \ldots \ldots \ldots$ $($ SKIP TO 522$) \ldots$ |



| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME $\qquad$ | NEXT-TO-LAST BIRTH <br> NAME $\qquad$ | SECOND-FROM-LAST BIRTH <br> NAME $\qquad$ |
| :---: | :---: | :---: | :---: | :---: |
| 522 | Was he/she given any of the following to drink at any time since he/she started having the diarrhea: <br> a) A fluid made from a special packet called ORS (ORASEL, MFP) ? <br> c) A government-recommended homemade fluid? |  YES NO DK <br>     <br> FLUID FROM    <br> ORS PKT 1 2 8  <br> HOMEMADE    <br> FLUID $\ldots$ 1 2 8 |  YES NO DK <br>     <br> FLUID FROM    <br> ORS PKT 1 2 8  <br> HOMEMADE    <br> FLUID $\ldots$ 1 2 8 |  YES NO DK <br>     <br> FLUID FROM    <br> ORS PKT 1 2 8  <br> HOMEMADE    <br> FLUID $\ldots$ 1 2 8 |
| 523 | Was anything (else) given to treat the diarrhea? |  | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots$ $\ldots$ <br> (SKIP TO 525$) \longleftarrow$ 2 <br> DON'T KNOW . . . . . 8 |  |
| 524 | What (else) was given to treat the diarrhea? <br> Anything else? <br> RECORD ALL TREATMENTS GIVEN. |  |  |  |
| 525 | Has (NAME) been ill with a fever at any time in the last 2 weeks? | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> (SKIP TO 527)  <br> DON'T KNOW $\ldots \ldots$ 8 | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> (SKIP TO 527$) \longleftarrow$ 1 <br> DON'T KNOW . . . . . 8 | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> (SKIP TO 527) . <br> DON'T KNOW $\ldots \ldots$ 8 |
| 526 | At any time during the illness, did (NAME) have blood taken from his/her finger or heel for testing? |  | YES $\ldots \ldots . . . . .$. 1 <br> NO . . . . . . . . . . 2 <br> DON'T KNOW . . . . 8 | YES $\ldots \ldots . . . . . .$. 1 <br> NO $\ldots . . . . . . .$. 2 <br> DON'T KNOW . . . . . 8 |
| 527 | Has (NAME) had an illness with a cough at any time in the last 2 weeks? | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> (SKIP TO 530) . <br> DON'T KNOW $\ldots .$. 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 $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> (SKIP TO 531)  <br> DON'T KNOW $\ldots \ldots$ 8 | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> (SKIP TO 531)  <br> DON'T KNOW $\ldots \ldots$ 8 |  |


| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME $\qquad$ | NEXT-TO-LAST BIRTH <br> NAME $\qquad$ | SECOND-FROM-LAST BIRTH <br> NAME |
| :---: | :---: | :---: | :---: | :---: |
| 529 | Was the fast or difficult breathing due to a problem (tightness) in the chest or to a blocked or runny nose? |  |  |  |
| 530 | CHECK 525: <br> HAD FEVER? | NO OR DK <br> (GO BACK TO 503 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 553) | NO OR DK <br> (GO BACK TO 503 IN NEXT COLUMN; 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> 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> 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 $\ldots .$. 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 $\ldots \ldots \ldots \ldots \ldots$ NO $\ldots \ldots \ldots \ldots$ $($ SKIP TO 537$) \longleftarrow$ | YES $\ldots \ldots \ldots \ldots$ NO . . . . . . . . . . . (SKIP TO 537) | YES $\ldots \ldots \ldots \ldots$ NO . . . . . . . . . . . (SKIP TO 537) $\left.\begin{array}{c}1 \\ ( \end{array}\right)$ |



| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME $\qquad$ | NEXT-TO-LAST BIRTH NAME $\qquad$ | SECOND-FROM-LAST BIRTH <br> NAME $\qquad$ |
| :---: | :---: | :---: | :---: | :---: |
| 537 | At any time during the illness, did (NAME) take any drugs for the illness? | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO . . . . . . . . . . . 2 <br> (GO BACK TO 503  <br> IN NEXT COLUMN;  <br> OR, IF NO MORE  <br> BIRTHS, GO TO 553)  <br> DON'T KNOW . . . . 8 | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> (GO BACK TO 503  <br> IN NEXT COLUMN;  <br> OR, IF NO MORE  <br> BIRTHS, GO TO 553)  <br> DON'T KNOW ..... 8 | YES $\ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots$ 2 <br> (GO TO 503 IN  <br> NEXT-TO-LAST  <br> COLUMN OF NEW  <br> QUESTIONNAIRE;  <br> OR, IF NO MORE  <br> BIRTHS, GO TO 553)  <br> DON'T KNOW $\ldots .$. 8 |


| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME $\qquad$ | NEXT-TO-LAST BIRTH <br> NAME $\qquad$ | SECOND-FROM-LAST BIRTH <br> NAME $\qquad$ |
| :---: | :---: | :---: | :---: | :---: |
| 538 | What drugs did (NAME) take? <br> Any other drugs? <br> RECORD ALL MENTIONED. | ANTIMALARIAL DRUGS   <br> SP/FANSIDAR ... A  <br> CHLOROQUINE B  <br> AMODIAQUINE C  <br> QUININE   <br> PILLS $\ldots . . . .$. D  <br> INJECTION/IV E  <br> ARTEMISININ   <br> COMBINATION   <br> THERAPY $\ldots$ F <br> ARTESUNATE   <br> MONOTHERAPY   <br> PILLS ....... G  <br> INJECTION $\ldots$ H <br> OTHER ANTI-   <br> MALARIAL   <br> (SPECIFY)   <br> ANTIBIOTIC DRUGS   <br> PILL/SYRUP $\ldots$ J <br> INJECTION $\ldots$ K <br> OTHER DRUGS   <br> BUSPRO ....... L   <br> PARA-   <br> CETAMOL $\ldots$ M <br> IBUPROFEN $\ldots$ N <br> OTHER  X <br> DON'T KNOW $\ldots .$. Z |  |  |
| 539 | CHECK 538: <br> ANY CODE A-I CIRCLED? |  |  |  |
| 540 | CHECK 538: <br> SP/FANSIDAR ('A') GIVEN |  |  |  |
| 541 | How long after the fever started did (NAME) first take (SP/Fansidar)? | SAME DAY $\ldots \ldots \ldots$ NEXT DAY $\ldots \ldots \ldots$ TWO DAYS AFTER FEVER $\ldots \ldots \ldots$ THREE OR MORE DAYS AFTER FEVER $\ldots \ldots .$. DON'T KNOW | SAME DAY $\ldots \ldots \ldots$ 0  <br> NEXT DAY $\ldots \ldots \ldots$ 1  <br> TWO DAYS AFTER   <br> FEVER $\ldots \ldots$.   <br> THREE OR MORE   <br> DAYS AFTER   <br> FEVER $\ldots \ldots .$.   <br> DON'T KNOW $\ldots$ 8 | SAME DAY $\ldots \ldots \ldots$ 0  <br> NEXT DAY $\ldots \ldots \ldots$ 1  <br> TWO DAYS AFTER   <br> FEVER $\ldots \ldots \ldots$   <br> THREE OR MORE   <br> DAYS AFTER   <br> FEVER $\ldots \ldots .$.   <br> DON'T KNOW $\ldots$. 8 |


| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME $\qquad$ | NEXT-TO-LAST BIRTH NAME $\qquad$ | SECOND-FROM-LAST BIRTH <br> NAME $\qquad$ |
| :---: | :---: | :---: | :---: | :---: |
| 542 | CHECK 538: <br> CHLOROQUINE ('B') GIVEN |  |  |  |
| 543 | How long after the fever started did (NAME) first take chloroquine? | SAME DAY $\ldots \ldots \ldots$ 0  <br> NEXT DAY $\ldots \ldots \ldots$ 1  <br> TWO DAYS AFTER   <br> FEVER $\ldots \ldots$.   <br> THREE OR MORE   <br> DAYS AFTER   <br> FEVER $\ldots \ldots .$.   <br> DON'T KNOW $\ldots$ 8 | SAME DAY $\ldots \ldots \ldots$ 0  <br> NEXT DAY $\ldots \ldots \ldots$ 1  <br> TWO DAYS AFTER   <br> FEVER $\ldots \ldots \ldots$   <br> THREE OR MORE   <br> DAYS AFTER   <br> FEVER $\ldots \ldots \ldots$   <br> DON'T KNOW $\ldots$. 8 | SAME DAY $\ldots \ldots \ldots$ 0  <br> NEXT DAY $\ldots \ldots \ldots$ 1  <br> TWO DAYS AFTER   <br> FEVER $\ldots \ldots \ldots$   <br> THREE OR MORE   <br> DAYS AFTER   <br> FEVER $\ldots \ldots .$.   <br> DON'T KNOW $\ldots$. 8 |
| 544 | CHECK 538: <br> AMODIAQUINE ('C') GIVEN |  |  |  |
| 545 | How long after the fever started did (NAME) first take amodiaquine? | SAME DAY $\ldots \ldots .$. 0  <br> NEXT DAY $\ldots \ldots \ldots$ 1  <br> TWO DAYS AFTER   <br> FEVER $\ldots \ldots .$.   <br> THREE OR MORE   <br> DAYS AFTER   <br> FEVER $\ldots . . \ldots$   <br> DON'T KNOW $\ldots$. 8 | SAME DAY $\ldots \ldots \ldots$ NEXT DAY $\ldots \ldots \ldots$ TWO DAYS AFTER FEVER $\ldots \ldots .$. THREE OR MORE DAYS AFTER FEVER $\ldots . . \ldots$ DON'T KNOW | SAME DAY $\ldots \ldots \ldots$ 0  <br> NEXT DAY $\ldots \ldots \ldots$ 1  <br> TWO DAYS AFTER   <br> FEVER $\ldots \ldots \ldots$   <br> THREE OR MORE   <br> DAYS AFTER   <br> FEVER $\ldots . . .$. 3  <br> DON'T KNOW $\ldots$. 8 |
| 546 | CHECK 538: <br> QUININE ('D' or `E') GIVEN \end{tabular} &  &  &  \\ \hline 547 & How long after the fever started did (NAME) first take quinine? & \begin{tabular}{llll}  SAME DAY \(\ldots \ldots \ldots\) & 0 \\ NEXT DAY \(\ldots \ldots \ldots\) & 1 \\ TWO DAYS AFTER \\ FEVER \(\ldots \ldots\). & \\ THREE OR MORE \\ DAYS AFTER \\ FEVER ....... & 3 \\ DON'T KNOW & \(\ldots\) & 8 \end{tabular} & \begin{tabular}{llll}  SAME DAY \(\ldots \ldots \ldots\) & 0 \\ NEXT DAY \(\ldots \ldots \ldots\) & 1 \\ TWO DAYS AFTER \\ FEVER \(\ldots \ldots \ldots\) & \\ THREE OR MORE \\ DAYS AFTER \\ FEVER \(\ldots \ldots .\). & \\ DON'T KNOW & \(\ldots\) & 8 \end{tabular} & SAME DAY \(\ldots \ldots \ldots\) NEXT DAY \(\ldots \ldots \ldots\) TWO DAYS AFTER FEVER \(\ldots \ldots \ldots\) THREE OR MORE DAYS AFTER FEVER \(\ldots . \ldots\). DON'T KNOW \\ \hline 548 & \begin{tabular}{l} CHECK 538: \\ COMBINATION WITH ARTEMISININ ('F') GIVEN \end{tabular} &  &  &  \\ \hline \end{tabular} \begin{tabular}{\|c|c|c|c|c|} \hline NO. & QUESTIONS AND FILTERS & \begin{tabular}{l} LAST BIRTH \\ NAME \(\qquad\) \end{tabular} & \begin{tabular}{l} NEXT-TO-LAST BIRTH \\ NAME \(\qquad\) \end{tabular} & \begin{tabular}{l} SECOND-FROM-LAST BIRTH \\ NAME \(\qquad\) \end{tabular} \\ \hline 549 & How long after the fever started did (NAME) first take (COMBINATION WITH ARTEMISININ)? & \begin{tabular}{lll}  SAME DAY \(\ldots \ldots \ldots\) & 0 \\ NEXT DAY ........ & 1 \\ TWO DAYS AFTER \\ FEVER ....... & 2 \\ THREE OR MORE \\ DAYS AFTER \\ FEVER ....... & \\ DON'T KNOW & \(\ldots\). & 8 \end{tabular} & \begin{tabular}{lll}  SAME DAY \(\ldots \ldots \ldots\) & 0 \\ NEXT DAY \(\ldots \ldots \ldots\) & 1 \\ TWO DAYS AFTER \\ FEVER \(\ldots \ldots \ldots\) & \\ THREE OR MORE \\ DAYS AFTER \\ FEVER \(\ldots \ldots .\). & \\ DON'T KNOW & \(\ldots\). & 8 \end{tabular} & \begin{tabular}{lll}  SAME DAY \(\ldots \ldots \ldots\) & 0 \\ NEXT DAY \(\ldots \ldots \ldots\) & 1 \\ TWO DAYS AFTER \\ FEVER \(\ldots \ldots \ldots\) & \\ THREE OR MORE \\ DAYS AFTER \\ FEVER \(\ldots \ldots .\). & \\ DON'T KNOW & \(\ldots\). & 8 \end{tabular} \\ \hline 549A & \begin{tabular}{l} CHECK 538: \\ ARTESUNATE MONOTHERAPY ('G' or `H') GIVEN |  |  |  |
| 549B | How long after the fever started did (NAME) first take (ARTESUNATE MONOTHERAPY)? | SAME DAY $\ldots \ldots .$. 0  <br> NEXT DAY $\ldots \ldots$. 1  <br> TWO DAYS AFTER   <br> FEVER $\ldots \ldots \ldots$ 2  <br> THREE OR MORE   <br> DAYS AFTER   <br> FEVER $\ldots . . .$. 3  <br> DON'T KNOW $\ldots$. 8 | SAME DAY $\ldots \ldots \ldots$ 0  <br> NEXT DAY $\ldots \ldots \ldots$ 1  <br> TWO DAYS AFTER   <br> FEVER $\ldots \ldots \ldots$   <br> THREE OR MORE   <br> DAYS AFTER   <br> FEVER $\ldots . . .$. 3  <br> DON'T KNOW $\ldots$. 8 | SAME DAY $\ldots \ldots .$. 0  <br> NEXT DAY $\ldots \ldots \ldots$ 1 <br> TWO DAYS AFTER   <br> FEVER $\ldots \ldots \ldots$ 2  <br> THREE OR MORE   <br> DAYS AFTER   <br> FEVER $\ldots . . .$. 3  <br> DON'T KNOW $\ldots$. 8 |
| 550 | CHECK 538: <br> OTHER ANTIMALARIAL ('I') GIVEN |  |  |  |
| 551 | How long after the fever started did (NAME) first take (OTHER ANTIMALARIAL)? | SAME DAY $\ldots \ldots .$. 0  <br> NEXT DAY $\ldots \ldots \ldots$ 1  <br> TWO DAYS AFTER   <br> FEVER $\ldots \ldots \ldots$ 2  <br> THREE OR MORE   <br> DAYS AFTER   <br> FEVER $\ldots . . .$. 3  <br> DON'T KNOW $\ldots$. 8 | SAME DAY $\ldots \ldots \ldots$ NEXT DAY $\ldots \ldots \ldots$ TWO DAYS AFTER FEVER $\ldots \ldots \ldots$ THREE OR MORE DAYS AFTER FEVER $\ldots \ldots .$. DON'T KNOW | SAME DAY $\ldots \ldots \ldots$ 0  <br> NEXT DAY $\ldots \ldots \ldots$ 1  <br> TWO DAYS AFTER   <br> FEVER $\ldots \ldots \ldots$   <br> THREE OR MORE   <br> DAYS AFTER   <br> FEVER $\ldots . . .$. 3  <br> DON'T KNOW $\ldots$. 8 |
| 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 | CHECK 215 AND 218, ALL ROWS: <br> NUMBER OF CHILDREN BORN IN 2010 OR LATER LIVING WITH <br> ONE OR MORE <br> RECORD NAME OF YOUNGEST CHILD LIVING <br> WITH HER AND CONTINUE WITH 554 <br> (NAME) | RESPONDENT | $\rightarrow 556$ |
| 554 | The last time (NAME FROM 553) passed stools, what was done to dispose of the stools? |  |  |
| 555 | CHECK 522(a), ALL COLUMNS: <br> NO CHILD <br> ANY CHI <br> RECEIVED FLUID RECEIVED <br> FROM ORS PACKET FROM O | FLUID $\square$ PACKET | $\rightarrow$ 556A |
| 556 | Have you ever heard of a special product called ORS (ORASEL, MFP) you can get for the treatment of diarrhea? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |  |
| 556A | Sometimes children have severe illness and should be taken immediately to a health facility. What types of symptoms would cause you to take your child to a health facility right away? <br> Any other symptoms? | CHILD NOT ABLE TO DRINK OR <br> BREASTFEED . . . . . . . . . . . . . . . . . . A <br> CHILD BECOMES SICKER .......... B <br> CHILD DEVELOPS A FEVER ........ C <br> CHILD HAS FAST BREATHING ..... D <br> CHILD HAS DIFFICULT BREATHING . E <br> CHILD HAS BLOOD IN STOOL ..... F <br> CHILD IS DRINKING POORLY ....... G <br> CHILD DEVELOPS RASHES ........ H <br> CHILD HAS DIARRHOEA ........ I <br> OTHER $\qquad$ x <br> (SPECIFY) |  |
| 557 | CHECK 215 AND 218, ALL ROWS: <br> NUMBER OF CHILDREN BORN IN 2013 OR LATER LIVING WITH <br> ONE OR MORE <br> RECORD NAME OF YOUNGEST CHILD LIVING WITH HER AND CONTINUE WITH 558 <br> (NAME) | E RESPONDENT | $\rightarrow 562$ |



| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |
| :--- | :--- | :--- | :--- | :--- |


| NO. | QUESTIONS AND FILTERS | CODING CATEG | ORIES | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 562 | CHECK 217 AND 218: <br> ANY CHILD 0-4 YEARS OLD LIVING WITH HIS/HER MOTHER? <br> YES <br> NO |  |  | $\rightarrow 601$ |
| 563 | CHECK 217 AND 219: <br> SELECT THE OLDEST CHILD AGED 0-4 LIVING WITH HIS/HER MOTHER AND RECORD NAME AND LINE NUMBER <br> NAME OF THE OLDEST <br> LINE NUMBER OF THE <br> CHILD FROM Q. 212 <br> OLDEST CHILD FROM Q. 219 |  |  |  |
| 564 | READ TO THE RESPONDENT <br> Now I would like to ask you some questions about (NAME OF THE CHILD FROM 563), your oldest child living with you who is 0-4 years old. |  |  |  |
| 565 | How many children's books or picture books do you have for (NAME) ? | NONE <br> NUMBER OF BOOKS FOR CHILDF <br> TEN BOOKS OR MORE | 0  |  |
| 566 | Does he/she plays 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> IF THE RESPONDENT SAYS "YES" TO THE CATEGORIES ABOVE, THEN PROBE TO LEARN SPECIFICALLY WHAT THE CHILD PLAYS WITH TO ASCERTAIN THE RESPONSE |    YES <br> HOMEMADE TOYS $\ldots . .$. 1  <br> TOYS FROM A SHOP $\ldots$ 1  <br> HOUSEHOLD OBJECTS    <br> OR OUTSIDE OBJECTS  1  | NO DK <br> 2 8 <br> 2 8 <br>  8 |  |
| 567 | 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> IF 'NONE', WRITE '0'. IF 'DON'T KNOW' WRITE ‘8’ | NUMBER OF DAYS LEFT ALONE FOR MORE THAN ANE HOUR <br> NUMBER OF DAYS LEFT <br> TO ANOTHER CHILD FOR <br> MORE THAN AN HOUR |  |  |
| 568 | VERIFY 217 : AGE OF THE CHILD <br> CHILD 0, 1, OR 2 <br> CHILD 3 OR 4 <br> YEARS OLD |  |  | $\rightarrow 601$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  |  |  |  | SKIP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 569 | 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 <br> NO <br> DON'T KNOW |  |  |  | $\begin{array}{r} 1 \\ . \quad 2 \\ . \quad 8 \end{array}$ | $\xrightarrow{\rightarrow} 571$ |
| 570 | Within the last seven days, about how many hours did (NAME) attend? | NUMER OF HOURS |  |  |  |  |  |
| 571 | In the past 3 days, did you or any household member over 15 years of age engage in any of the following activities with (NAME) <br> IF YES, ASK : Who engaged in this activity with (NAME) ? <br> CIRCLE ALL THAT APPLY <br> a) Read books to or look at picture books with (NAME) ? <br> b) Told stories to (NAME) ? <br> c) Sang songs to (NAME) or with (NAME), including lullabies? <br> d) Took (NAME) outside of the home, compound, yard or enclosure? <br> e) Played with (NAME) ? <br> f) Named, counted, or drew things to or with (NAME)? | READ BOOKS <br> TOLD STORIES . . . <br> SANG SONGS <br> TOOK OUTSIDE <br> PLAYED WITH <br> NAMED/COUNTED | MOT HER <br> A <br> A <br> A <br> A <br> A <br> A | FATH <br> ER <br> B <br> B <br> B <br> B <br> B <br> B | OTH <br> ER <br> X <br> X <br> X <br> X <br> X <br> X | NO <br> ONE <br> Y <br> Y <br> Y <br> Y <br> Y <br> Y |  |

SECTION 6. MARRIAGE AND SEXUAL ACTIVITY

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 601 | Are you currently married? | YES, CURRENTLY MARRIED . . . . . . . . NO, NOT IN UNION . . . . . . . . . . . . . 2 | $\longrightarrow 604$ |
| 602 | Have you ever been married? | $\begin{aligned} & \text { YES, FORMERLY MARRIED } \ldots \ldots . . . \text {. . . } 1 \\ & \text { NO . . . . . . . . . . . . . . . . . . . . . . . . } 2 \end{aligned}$ | $\longrightarrow 612$ |
| 603 | What is your marital status now: are you widowed, divorced, or separated? | WIDOWED . . . . . . . . . . . . . . . . . . . . . . . 1 DIVORCED . . . . . . . . . . . . . . . . . 3 |  |
| 604 | Is your husband living with you now or is he staying elsewhere? | LIVING WITH HER . . . . . . . . . . . . . . . . 1 STAYING ELSEWHERE . . . . . . . . |  |
| 605 | RECORD THE HUSBAND'S LINE NUMBER <br> FROM THE HOUSEHOLD QUESTIONNAIRE. <br> IF HE IS NOT LISTED IN THE HOUSEHOLD, RECORD '00'. | LINE NO. . . . . . . . . . . . . . . . . $\square$ |  |
| 606 | Does your husband have other wives or does he live with other women as if married? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 8 | $\xrightarrow{\longrightarrow} 609$ |
| 607 | Including yourself, in total, how many wives or live-in partners does he have? | TOTAL NUMBER OF WIVES AND LIVE-IN PARTNERS DON'T KNOW 98 |  |
| 608 | Are you the first, second, ... wife? | RANK . . . . . . . . . . . . . . . $\quad \square$ |  |
| 609 | Have you been married only once or more than once? | ONLY ONCE . . . . . . . . . . . . . . . . . . . . . . . 1 MORE THAN ONCE . . . . . . . . . . 2 |  |
| 610 | CHECK 609: | MONTH <br> DON'T KNOW MONTH $\qquad$ <br> YEAR <br> DON'T KNOW YEAR <br> 9998 | $\longrightarrow 612$ |
| 611 | How old were you when you first started living with him? | AGE . . . . . . . . . . . . . $\square$ |  |
| 612 | CHECK FOR THE PRESENCE OF OTHERS. BEFORE CONTINUIN | MAKE EVERY EFFORT TO ENSURE PRIVA |  |
| 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> How old were you when you had sexual intercourse for the very first time? | NEVER HAD SEXUAL <br> INTERCOURSE ..................... 00 <br> AGE IN YEARS $\qquad$ $\square$ <br> FIRST TIME WHEN STARTED LIVING WITH (FIRST) HUSBAND | $\longrightarrow 628$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGOR | RIES | 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 last time you had sexual intercourse? <br> IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. <br> IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS. | DAYS AGO $\ldots \ldots . \ldots$ 1  <br> WEEKS AGO $\ldots \ldots .$. 2 <br> MONTHS AGO $\ldots \ldots$. 3 <br> YEARS AGO $\ldots . \ldots .$. 4 |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 628 | PRESENCE OF OTHERS DURING THIS SECTION |   YES NO <br> CHILDREN $<10$ $\ldots \ldots \ldots \ldots$ 1 2 <br> MALE ADULTS $\ldots \ldots \ldots \ldots$ 1 2 <br> FEMALE ADULTS $\ldots \ldots .$. 1 2  |  |
| 629 | Do you know of a place where a person can get male condoms? | $\begin{array}{ll} \text { YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . } \\ \text { NO . . . . . } \end{array}$ | $\rightarrow 632$ |
| 630 | Where is that? <br> Any other place? <br> PROBE TO IDENTIFY EACH TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. |  |  |
| 631 | If you wanted to, could you yourself get a condom? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 <br> NO . . . . . . . . . . . . 8 |  |
| 632 | Do you know of a place where a person can get female condoms? | YES $\ldots \ldots$  <br> NO . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> 2  | $\longrightarrow 701$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 633 | Where is that? <br> Any other place? <br> PROBE TO IDENTIFY EACH TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. |  |  |
| 634 | If you wanted to, could you yourself get a female condom? |  |  |

SECTION 7. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 701 | CHECK 304: <br> NEITHER <br> HE OR SHE <br> STERILIZED STERILIZED |  | $\rightarrow 712$ |
| 702 | CHECK 226: <br> NOT PREGNANT <br> PREGNANT OR UNSURE |  | $\rightarrow 704$ |
| 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 |  |
| 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 | $\begin{array}{\|l} \longrightarrow \\ \\ \hline \end{array} 712$ |
| 705 | CHECK 226: <br> NOT PREGNANT <br> PREGNANT OR UNSURE <br> How long would you like to After the birth of the child you are wait from now before the expecting now, how long would birth of (a/another) child? you like to wait before the birth of another child? |  |  |
| 706 | CHECK 226: <br> NOT PREGNANT <br> PREGNANT OR UNSURE |  | $\rightarrow 711$ |
| 707 | CHECK 303: USING A CONTRACEPTIVE METHOD? <br> NOT <br> CURRENTLY <br> CURRENTLY <br> USING $\square$ |  | $\rightarrow 712$ |
| 708 | CHECK 705: <br> NOT <br> 24 OR MORE MONTHS <br> ASKED OR 02 OR MORE YEARS | -23 MONTHS 00-01 YEAR | $\rightarrow 711$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 709 | CHECK 704: |  |  |
| 710 | CHECK 303: USING A CONTRACEPTIVE METHOD? <br> NOT <br> ASKED <br> NOT CURRENTLY USING <br> CUR | YES, NTLY USING | $\rightarrow 712$ |
| 711 | Do you think you will use a contraceptive method to delay or avoid pregnancy at any time in the future? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 8 |  |
| 712 | CHECK 216: <br> HAS LIVING CHILDREN <br> NO LIVING CHILDREN <br> If you could go back to the If you could choose exactly the time you did not have any number of children to have in children and could choose your whole life, how many would exactly the number of children that be? to have in your whole life, how many would that be? <br> PROBE FOR A NUMERIC RESPONSE. |  | $\longrightarrow 714$ $\longrightarrow 714$ |


| 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? | NUMBER <br> OTHER | BOYS | GIRLS <br> ECIFY) | EITHER $\qquad$ 96 |  |
| 714 | In the last few months have you: <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> Seen or read about family planning in internet? <br> Read about family planning in billboard? | RADIO . TELEVISI NEWSPA INTERNE BILLBOAR |  | GAZINE | $\begin{array}{lcc}  & \text { YES } & \text { NO } \\ \ldots & 1 & 2 \\ \ldots & 1 & 2 \\ \ldots & 1 & 2 \\ \ldots & 1 & 2 \\ \ldots & 1 & 2 \end{array}$ |  |
| 716 | CHECK 601: |  |  |  |  | $\rightarrow 801$ |
| 717 | CHECK 303: USING A CONTRACEPTIVE METHOD? NOT   <br> CURRENTLY    <br> USING $\square$ $\square$ CURRENTLY  <br> USING   $\quad \square$ |  |  |  |  | $\rightarrow 720$ |
| 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 R MAINLY JOINT DE OTHER | SPONDE SBAND/ SION | RTNER <br> ECIFY) | $\begin{array}{cc} \ldots & 1 \\ \ldots . & 2 \\ \ldots \ldots & 3 \\ & 6 \\ \hline \end{array}$ |  |
| 719 | CHECK 304: <br> NEITHER <br> HE OR SHE <br> STERILIZED STERILIZED |  |  |  |  | $\rightarrow 801$ |
| 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 NU <br> MORE CH <br> FEWER <br> DON'T KN | BER <br> DREN <br> LDREN <br> W .... |  | $\begin{array}{ll} \ldots & \ldots \\ \ldots & 1 \\ \ldots & 2 \\ \ldots & \\ \ldots & 3 \\ \ldots & 8 \end{array}$ |  |

SECTION 8. HUSBAND'S BACKGROUND AND WOMAN'S WORK

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIE |
| :---: | :---: | :---: |
| 801 | CHECK 601 AND 602: <br> CURRENTLY MARRIED <br> FORMERLY MARRIED | NEVER MARRIED |
| 802 | How old was your husband on his last birthday? | AGE IN COMPLETED YEARS |
| 803 | Did your (last) husband ever attend school? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |
| 805 | What was the highest grade he completed? <br> IF COMPLETED LESS THAN GRADE ONE, RECORD '00'. | GRADE <br> DON'T KNOW |
| 806 | CHECK 801: |  |
| 807 | Aside from your own housework, have you done any work in the last seven days? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |
| 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 <br> NO |
| 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 <br> NO |
| 810 | Have you done any work in the last 12 months? | YES NO |
| 811 | What is your occupation, that is, what kind of work do you mainly do? |  |
| 812 | Do you do this work for a member of your family, for someone else, or are you self-employed? | FOR FAMILY MEMBER FOR SOMEONE ELSE SELF-EMPLOYED |


| 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 $\ldots . . . . . . . . . . . . . . ~$ 3 |  |
| 814 | Are you paid in cash or kind for this work or are you not paid at all? |  |  |
| 815 | CHECK 601: <br> CURRENTLY <br> MARRIED <br> NOT IN UNION |  | $\rightarrow 823$ |
| 816 | CHECK 814: <br> CODE 1 OR 2 <br> CIRCLED <br> OTHER |  | $\rightarrow 819$ |
| 817 | Who usually decides how the money you earn will be used: you, your husband, or you and your husband jointly? |  |  |
| 818 | Would you say that the money that you earn is more than what your husband earns, less than what he earns, or about the same? |  | $\longrightarrow 820$ |
| 819 | Who usually decides how your husband's earnings will be used: you, your husband, or you and your husband jointly? |  |  |
| 820 | Who usually makes decisions about health care for yourself: you, your husband, you and your husband jointly, or someone else? |  |  |
| 821 | Who usually makes decisions about making major household purchases? |  |  |
| 822 | Who usually makes decisions about visits to your family or relatives? |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 822A | Who usually makes decisions regarding the wellbeing of children? |  |  |
| 823 | Do you own this or any other house either alone or jointly with someone else? |  |  |
| 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 2  <br> DOES NOT OWN $\ldots$ 3 |  |
| 825 | PRESENCE OF OTHERS AT THIS POINT (PRESENT AND LISTENING, PRESENT BUT NOT LISTENING, OR NOT PRESENT) |   PRES./ PRES./ NOT <br>   LISTEN. NOT PRES. <br> LISTEN.     |  |
| 826 | In your opinion, is a husband justified in hitting or beating his wife in the following situations: <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 refuses to use contrception? <br> If she is involved in too much social activities? |  YES NO DK  <br> GOES OUT . . . . . . . . 1 2 8  <br> NEGL. CHILDREN $\ldots$ 1 2 8 <br> ARGUES . . . . . . . . . 1 2 8  <br> REFUSES SEX $\ldots \ldots$ 1 2 8  <br> BURNS FOOD . . . . . 1 2 8  <br> REFUSES CONTRA. . . 1 2 8  <br> SOCIAL ACTS. . . . . . . 1 2 8  |  |


| SECTION 9. HIVIAIDS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| NO. | QUESTIONS AND FILTERS | CODING CATEGOR | IES | SKIP |
| 901 | Now I would like to talk about something else. Have you ever heard of an illness called AIDS? | YES <br> NO | $\begin{array}{ll} \ldots . & 1 \\ \ldots . . & 2 \end{array}$ | $\rightarrow 937$ |
| 902 | Can people reduce their chance of getting HIV by having just one uninfected sex partner who has no other sex partners? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \ldots \ldots & 1 \\ \ldots . & 2 \\ \ldots \ldots & 8 \end{array}$ |  |
| 903 | Can people get HIV from mosquito bites? | YES <br> NO <br> DON'T KNOW | $\begin{array}{cc} \ldots \ldots & 1 \\ \ldots \ldots & 2 \\ \ldots \ldots & 8 \end{array}$ |  |
| 904 | Can people reduce their chance of getting HIV by using a condom every time they have sex? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \ldots \ldots & 1 \\ \ldots \ldots & 2 \\ \ldots \ldots & 8 \end{array}$ |  |
| 905 | Can people get HIV by sharing food with a person who has AIDS? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \ldots \ldots & 1 \\ \ldots \ldots & 2 \\ \ldots \ldots & 8 \end{array}$ |  |
| 906 | Can people get HIV because of witchcraft or other supernatural means? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \ldots & \ldots \\ \ldots . & 1 \\ \ldots . & 2 \\ \ldots . & 8 \end{array}$ |  |
| 907 | Is it possible for a healthy-looking person to have HIV? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \ldots \ldots & 1 \\ \ldots \ldots & 2 \\ \ldots \ldots & 8 \end{array}$ |  |
| 908 | Can HIV be transmitted from a mother to her baby: <br> During pregnancy? <br> During delivery? <br> By breastfeeding? |   YES <br>    <br> DURING PREG. ..... 1  <br> DURING DELIVERY ... 1  <br> BREASTFEEDING $\ldots$ 1 | NO DK <br> 2 8 <br> 2 8 <br> 2 8 |  |
| 909 | CHECK 908: <br> AT LEAST ONE 'YES' | ER  |  | $\rightarrow 911$ |
| 910 | Are there any special drugs that a doctor or a nurse can give to a woman infected with HIV to reduce the risk of transmission to the baby? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \ldots \ldots & 1 \\ \ldots \ldots & 2 \\ \ldots \ldots & 8 \end{array}$ |  |
| 911 | CHECK 208 AND 215: <br> NO BIR <br> LAST BIRTH SINCE <br> LAST BIRTH BEF <br> JANUARY 2013. JANUARY 2 | HS <br> E <br> 13. |  | $\begin{aligned} & \longrightarrow 926 \\ & \longrightarrow 926 \end{aligned}$ |
| 912 | CHECK 408 FOR LAST BIRTH: <br> HAD <br> ANTENATAL <br> ANTENA <br> CARE | $\begin{array}{ll} \mathrm{NO} & \\ \mathrm{AL} & \square \\ \text { RE } & \square \end{array}$ |  | $\rightarrow 920$ |
| 913 | CHECK FOR PRESENCE OF OTHERS. BEFORE CONTINUING, M | EE EVERY EFFORT TO ENSUR | E PRIVACY. |  |
| 914 | During any of the antenatal visits for your last birth were you given any information about: <br> Babies getting HIV from their mother? <br> Things that you can do to prevent getting HIV? <br> Getting tested for HIV? |  YES <br> AIDS FROM MOTHER 1 <br> THINGS TO DO 1 <br> TESTED FOR HIV 1 | NO DK <br> 2 8 <br> 2 8 <br> 2 8 |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 915 | Were you offered a test for HIV as part of your antenatal care? | YES ........................................................ 2 |  |
| 916 | I don't want to know the results, but were you tested for HIV as part of your antenatal care? | $\begin{aligned} & \text { YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . } 1 \\ & \text { NO . . . . . . . . . . . . . . . . . . } \end{aligned}$ | $\rightarrow 920$ |
| 917 | Where was the test done? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. |  |  |
| 918 | I don't want to know the results, but did you get the results of the test? |  | $\longrightarrow 924$ |
| 919 | All women are supposed to receive counseling after being tested. After you were tested, did you receive counseling? |  | 924 |
| 920 | CHECK 434 FOR LAST BIRTH:  <br> ANY CODE  <br> $21-36$ CIRCLED $\square \quad$ OTHER $\quad \square$ |  | $\rightarrow 926$ |
| 921 | Between the time you went for delivery but before the baby was born, were you offered a test for HIV? |  |  |
| 922 | I don't want to know the results, but were you tested for HIV at that time? |  | $\rightarrow 926$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 923 | I don't want to know the results, but did you get the results of the test? |  |  |
| 924 | Have you been tested for HIV since that time you were tested during your pregnancy? |  | $\longrightarrow 927$ |
| 925 | How many months ago was your most recent HIV test? | MONTHS AGO $\square$ <br> TWO OR MORE YEARS | $\rightarrow 932$ |
| 926 | I don't want to know the results, but have you ever been tested to see if you have HIV? |  | $\rightarrow 930$ |
| 927 | How many months ago was your most recent HIV test? | MONTHS AGO $\square$ <br> TWO OR MORE YEARS $\qquad$ |  |
| 928 | I don't want to know the results, but did you get the results of the test? |  |  |
| 929 | Where was the test done? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 930 | Do you know of a place where people can go to get tested for HIV? |  | $\rightarrow 932$ |
| 931 | Where is that? <br> Any other place? <br> PROBE TO IDENTIFY EACH TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. | ```PUBLIC SECTOR GOVERNMENT HOSPITAL ........ A GOVT. HEALTH CENTER (RHC) . . . B GOVT. HEALTH POST (SUB-CENTER) ................. C STAND-ALONE VCT CENTER . ..... D FAMILY PLANNING CLINIC ........ E MOBILE CLINIC ................... F FIELDWORKER ..................... G OTHER PUBLIC SECTOR H (SPECIFY) NGO MARIE STOPES .................... I MYANMAR RED CROSS SOCIETY.......... . J PSI/M (SUN) ...................... K MMA ............................. L OTHER NGO SECTOR \(\quad \begin{aligned} & \\ & \text { (SPECIFY) }\end{aligned}\) PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/CLINIC/ PRIVATE DOCTOR .............. . N STAND-ALONE VCT CENTER . . . . . O PHARMACY........................ P MOBILE CLINIC .................. Q DIAGNOSTIC LABORATORY ...... R OTHER PRIVATE MEDICAL SECTOR``` $\qquad$ ```S \\ (SPECIFY) \\ OTHER``` $\qquad$ ```None ``` |  |
| 932 | Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had HIV? |  |  |
| 933 | If a member of your family got infected with HIV, would you want it to remain a secret or not? |  |  |
| 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? |  |  |
| 935 | In your opinion, if a female teacher has HIV 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 |  |
| 936 | Should children age 12-14 be taught about using a condom to avoid getting AIDS? | YES $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ <br> NO $\ldots \ldots \ldots \ldots \ldots$ <br> DK/NOT SURE/DEPENDS $\ldots \ldots \ldots$ |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 937 |  |  |  |
| 938 | CHECK 613: <br> HAS HAD SEXUAL <br> NEVER HAD SEXUAL INTERCOURSE INTERCOURSE |  | $\rightarrow 946$ |
| 939 | CHECK 937: HEARD ABOUT OTHER SEXUALLY TRANSMITTED | FECTIONS? <br> NO $\square$ | $\longrightarrow 941$ |
| 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? |  |  |
| 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? |  |  |
| 942 | Sometimes women have a genital sore or ulcer. During the last 12 months, have you had a genital sore or ulcer? |  |  |
| 943 | CHECK 940, 941, AND 942: <br> HAS HAD AN INFECTION (ANY 'YES') $\quad \begin{array}{r}\text { HAS NOT HAD AN } \\ \text { INFECTION OR }\end{array}$ |  | $\rightarrow 946$ |
| 944 | The last time you had (PROBLEM FROM 940/941/942), did you seek any kind of advice or treatment? |  | $\longrightarrow 946$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 945 | Where did you go? <br> Any other place? <br> PROBE TO IDENTIFY EACH TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. <br> (NAME OF PLACE(S)) |  |  |
| 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 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 8 |  |
| 947 | Is a wife justified in refusing to have sex with her husband when she knows he has sex with other women? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |  |
| 948 | CHECK 601: <br> CURRENTLY MARRIED <br> NOT IN UNION |  | 1001 |
| 949 | Can you say no to your (husband/partner) if you do not want to have sexual intercourse? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 8 |  |
| 950 | Could you ask your (husband/partner) to use a condom if you wanted him to? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 8 |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1001 | 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? <br> IF YES: How many injections have you had? <br> IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD ' 90 '. <br> IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. | NUMBER OF INJECTIONS <br> NONE | $\longrightarrow 1004$ |
| 1002 | Among these injections, how many were administered by a doctor, a nurse, a pharmacist, a dentist, or any other health worker? <br> IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD ' 90 '. <br> IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. | NUMBER OF INJECTIONS <br> NONE | $\longrightarrow 1004$ |
| 1003 | The last time you got an injection from a health provider, did he/she take the syringe and needle from a new, unopened package? | YES <br> NO <br> DON'T KNOW |  |
| 1003A | CHECK 210: <br> ONE OR MORE <br> NONE BIRTHS |  | $\rightarrow 1004$ |
| 1003B | Have you ever experienced signs of uterine prolapse? | YES <br> NO | $\longrightarrow 1004$ |
| 1003C | How did you manage your condition of prolapse? | USED PASSERY RING HAD AN OPERATION CONSULTED HEALTH WORKER TRIED TRADITIONAL METHODS . INSERTED OBJECTS TO HOLD KEPT QUIET/DID NOTHING . . . . . OTHER |  |
| 1004 | Do you currently smoke cigarettes? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\longrightarrow 1006$ |
| 1005 | In the last 24 hours, how many cigarettes did you smoke? | NUMBER OF CIGARETTES |  |
| 1006 | Do you currently smoke or use any (other) type of tobacco? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\longrightarrow$ 1007A |
| 1007 | What (other) type of tobacco do you currently smoke or use? RECORD ALL MENTIONED. | PIPE/CIGAR/CHEROOT CHEWING TOBACCO SNUFF OTHER $\qquad$ (SPECIFY) |  |
| 1007A | Do you currently chew betel nuts? | YES NO | $\longrightarrow$ 1007C |
| 1007B | In the last 24 hours, how many pieces did you chew? | NUMBER OF PIECES |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1007C | Have you ever heard of an illness called tuberculosis or TB? |  | $\longrightarrow 1008$ |
| 1007D | How does tuberculosis spread from one person to another? <br> PROBE: <br> Any other ways? <br> [CIRCLE ALL MENTIONED] | THROUGH THE AIR WHEN COUGHING OR SNEEZING ................... A <br> BY SHARING UTENSILS .............. B <br> BY TOUCHING A PERSON WITH TB . C <br> THROUGH SHARING FOOD ........ D <br> THROUGH SEXUAL CONTACT ...... E <br> THROUGH MOSQUITO BITES ........ F <br> OTHER $\qquad$ <br> SPECIFY <br> DON'T KNOW ......................... z |  |
| 1007E | Can tuberculosis be cured? |  | $\rightarrow 1007 \mathrm{G}$ |
| 1007F | What is the duration of treatment of TB now a days? <br> [IF MORE THAN 7 MONTHS, RECORD 7] | MONTHS DON'T KNOW |  |
| 1007G | Have you ever been told by a doctor/nurse or other health workers that you have/ had tuberculosis? |  |  |
| 1008 | 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? <br> Getting permission to go to the doctor? <br> Getting money needed for advice or treatment? <br> The distance to the health facility? <br> Not wanting to go alone? |  |  |
| 1009 | Are you covered by any health insurance? |  | $\rightarrow 1101$ |
| 1010 | What type of health insurance are you covered by? <br> RECORD ALL MENTIONED. | MUTUAL HEALTH ORGANIZATION/ COMMUNITY-BASED HEALTH INSURANCE HEALTH INSURANCE THROUGH EMPLOYER ........................ B SOCIAL SECURITY ................... C OTHER PRIVATELY PURCHASED COMMERCIAL HEALTH INSURANCE D OTHER $\qquad$ X (SPECIFY) |  |



| 1104 | What was the name given to your oldest (next oldest) brother or sister? | (7) |  | (8) |  | (9) | (10) | (11) | (12) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1105 | Is (NAME) male or female? | MALE <br> FEMALE | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | MALE FEMALE | $\begin{array}{r} 1 \\ =\quad 2 \end{array}$ | $\begin{array}{ll} \text { MALE } & 1 \\ \text { FEMALE } & 2 \end{array}$ | $\begin{array}{ll} \text { MALE } & 1 \\ \text { FEMALE } & 2 \end{array}$ | $\begin{array}{ll} \text { MALE } & 1 \\ \text { FEMALE } & 2 \end{array}$ | MALE 1 FEMALE 2 |
| 1106 | Is (NAME) still alive? | $\begin{aligned} & \text { YES } \ldots \\ & \text { NO } \\ & \text { GO TO } \\ & \text { DK } \quad \ldots \\ & \text { GO T } \end{aligned}$ | $\left.\begin{array}{c} 1 \\ -2 \\ 1108 \\ -8 \\ 0(8)^{4} \end{array}\right]$ | YES . <br> NO <br> GO TO <br> DK <br> GO TO |  | $\left.\begin{array}{ccc} \text { YES } \ldots c_{1} \\ \text { NO } & \ldots & 2 \\ \text { GO TO } & 1108 \\ \text { DK } & \ldots & 8 \\ \text { GO TO } & (10) \end{array}\right]$ | $\left.\begin{array}{c} \text { YES } \ldots c_{1} \\ \text { NO } \ldots . \\ \text { GO TO } 1108 \\ \text { DK } \ldots . \\ \text { GO TO } \\ (11) \end{array}\right]$ | $\left.\begin{array}{lll} \text { YES } & \ldots & 1 \\ \text { NO } & \ldots & 2 \\ \text { GO TO } & 1108 \\ \text { DK } & \ldots & 8 \\ \text { GO TO } & (12) \end{array}\right]$ | $\left.\begin{array}{l} \text { YES ... } \\ \text { NO } \ldots . \\ \text { GO TO } 1108 \\ \text { DK } \ldots . \\ \text { GO TO } \\ (13) \end{array}\right]$ |
| 1107 | How old is (NAME)? |  |  |  |  |  |  |  |  |
| 1108 | How many years ago did (NAME) die? |  |  |  |  |  | $\square$ | $\qquad$ |  |
| 1109 | How old was (NAME) when he/she died? | IF MALE DIED BEF 12 YEARS OF AGE GO TO (8) |  | IF MALE DIED BE 12 YEAR OF AGE GO TO |  <br> OR <br> (9) <br> ORE | IF MALE OR DIED BEFORE 12 YEARS OF AGE GO TO (10) | IF MALE OR DIED BEFORE 12 YEARS OF AGE GO TO (11) | DIED BEFORE 12 YEARS OF AGE GO TO (12) | IF MALE OR DIED BEFORE 12 YEARS OF AGE GO TO (13) |
| 1110 | Was (NAME) pregnant when she died? | $\begin{aligned} & \text { YES ... } \\ & \text { GO TO } \\ & \text { NO } \quad \ldots \end{aligned}$ | $\left.\begin{array}{c} 1 \\ 13 \\ 2 \end{array}\right]$ | $\begin{aligned} & \text { YES . . } \\ & \text { GO TO } 1 \end{aligned}$ NO | $\begin{gathered} 1 \\ 1113 \\ .2 \end{gathered}$ | $\begin{aligned} & \text { YES . . . } \\ & \text { GO TO } 1113 \\ & \text { NO } \ldots . \\ & \hline \end{aligned}$ | $\begin{array}{lll} \text { YES } \ldots & 1 \\ \text { GO TO } & 11134 \\ \text { NO } & \ldots & 2 \end{array}$ | $\begin{aligned} & \text { YES . . . } 1 \\ & \text { GO TO } 1113 \text { - } \\ & \text { NO } \ldots .2 \end{aligned}$ | $\begin{array}{ccc} \text { YES . . } & 1 \\ \text { GO TO } 1113 \measuredangle \\ \text { NO } \ldots . & 2 \end{array}$ |
| 1111 | Did (NAME) die during childbirth? | $\begin{aligned} & \text { YES ... } \\ & \text { GO TO } \\ & \text { NO } \quad \ldots \end{aligned}$ | $\left.\begin{array}{c} 1 \\ 113 \\ 2 \end{array}\right]$ | $\begin{aligned} & \text { YES . . } \\ & \text { GO TO } 1 \end{aligned}$ NO | $\begin{gathered} 1 \\ 1113 \\ .2 \end{gathered}$ | $\begin{aligned} & \text { YES . . . } 1 \\ & \text { GO TO } 1113 \\ & \text { NO } \ldots . \quad 2 \end{aligned}$ | $\begin{array}{lll} \text { YES } \ldots & 1 \\ \text { GO TO } 11134 \\ \text { NO } \ldots . & 2 \end{array}$ | $\begin{aligned} & \text { YES . . . } 1 \\ & \text { GO TO } 11134 \\ & \text { NO } \ldots .2 \end{aligned}$ | $\left.\begin{array}{c} \text { YES . . } \\ \text { GO TO } \\ \text { 1113 } \end{array}\right]$ |
| 1112 | Did (NAME) die within two months after the end of a pregnancy or childbirth? | $\begin{array}{ll} \text { YES } . . \\ \text { NO } & . . \end{array}$ | $\begin{array}{r} 1 \\ .2 \end{array}$ | $\begin{aligned} & \text { YES } \ldots \\ & \text { NO } \ldots \end{aligned}$ | $\begin{array}{r} 1 \\ 2 \end{array}$ | $\begin{array}{lll} \text { YES } \ldots & 1 \\ \text { NO } \ldots . & 2 \end{array}$ | $\begin{array}{lll} \text { YES } \ldots & 1 \\ \text { NO } \ldots . & 2 \end{array}$ | $\begin{array}{llll} \text { YES } & \ldots & 1 \\ \text { NO } & \ldots & 2 \end{array}$ | $\begin{array}{lll} \text { YES } \ldots & 1 \\ \text { NO } & \ldots & 2 \end{array}$ |
| 1113 | How many live born children did (NAME) give birth to during her lifetime? | - |  | $\square$ | $\square$ | $\square$ |  |  |  |
| IF NO MORE BROTHERS OR SISTERS, GO TO NEXT SECTION. |  |  |  |  |  |  |  |  |  |




| NO. | QUESTIONS AND FILTERS |  | CODING CATEGORIES |  |  | SKIP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1209 | Have you ever hit, slapped, kicked, or done anything else to physically hurt your (last) husband at times when he was not already beating or physically hurting you? |  | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |  |  | $\longrightarrow 1211$ |
| 1210 | In the last 12 months, how often have you done this husband: often, only sometimes, or not at all? | your (last) | OFTEN SOMETIMES NOT AT ALL |  | $\begin{array}{ll} \ldots \ldots . & 1 \\ \ldots \ldots . & 2 \\ \ldots \ldots . . & 3 \end{array}$ |  |
| 1211 | Does (did) your (last) husband drink alcohol? |  | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\begin{array}{ll} \ldots \ldots & 1 \\ \ldots \ldots & 2 \end{array}$ | $\longrightarrow 1213$ |
| 1212 | How often does (did) he get drunk: often, only sometim | s, or never? | OFTEN SOMETIMES NEVER |  | $\begin{aligned} & 1 \\ & 2 \\ & 3 \end{aligned}$ |  |
| 1213 | Are (Were) you afraid of your (last) husband: most o sometimes, or never? | e time, | MOST OF THE SOMETIMES A NEVER AFRAI | ME AFRAID AID | $\begin{array}{cc} \ldots & \ldots \\ \ldots & 1 \\ \ldots \ldots & 2 \\ \ldots \ldots & 3 \end{array}$ |  |
| 1214 | CHECK 609: <br> MARRIED MORE <br> MARRIED ONLY THAN ONCE ONCE $\square$ |  |  |  |  | $\rightarrow \quad 1216$ |
| 1215 | A So far we have been talking about the behavior (current/last) husband. Now I want to ask you a behavior of any previous husband. <br> a) Did any previous husband ever hit, slap, kick, or do anything else to hurt you physically? <br> b) Did any previous husband physically force you to have intercourse or perform any other sexual acts against your will? | your <br> ut the | BHow long <br> 0-11 <br> MONTHS <br> AGO <br> 1 <br> 1$~$ | did this last 12+ MONTHS AGO 2 2 | ppen? <br> DON'T REMEMBER <br> 3 <br> 3 |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1216 | CHECK 601 AND 602: <br> EVER MARRIED <br> From the time you were 15 years old has anyone other than (your/any) husband hit you, slapped you, kicked you, or done anything else to hurt you <br> NEVER MARRIED <br> From the time you were 15 years old has anyone hit you, slapped you, kicked you, or done anything else to hurt you physically? physically? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . NO . . . . . . REFUSED TO ANSWER/ NO ANSWER . . . . . . . . . . . . . . . . . . . . | $\xrightarrow{ } \quad 1219$ |
| 1217 | Who has hurt you in this way? <br> Anyone else? <br> RECORD ALL MENTIONED. | $\qquad$ |  |
| 1218 | In the last 12 months, how often has (this person/have these persons) physically hurt you: often, only sometimes, or not at all? |  |  |
| 1219 | CHECK 201, 226, AND 230: |  | $\rightarrow \quad 1222$ |
| 1220 | Has any one ever hit, slapped, kicked, or done anything else to hurt you physically while you were pregnant? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | $\rightarrow 1222$ |
| 1221 | Who has done any of these things to physically hurt you while you were pregnant? <br> Anyone else? <br> RECORD ALL MENTIONED. |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1222 | CHECK 601 AND 602: <br> EVER MARRIED <br> NEVER MARRIED |  | $\rightarrow$ 1222B |
| 1222A | Now I want to ask you about things that may have been done to you by someone other than (your/any) husband. <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 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 <br> REFUSED TO ANSWER/ <br> NO ANSWER |  |
| 1222B | 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? |  | $\xrightarrow{\longrightarrow} 1226$ |
| 1223 | Who was the person who was forcing you the very first time this happened? |  |  |
| 1224 | CHECK 601 AND 602: <br> EVER MARRIED <br> In the last 12 months, has anyone other than (your/any) husband physically forced you to have sexual intercourse when you did not want to? <br> NEVER MARRIED $\square$ <br> In the last 12 months has anyone physically forced you to have sexual intercourse when you did not want to? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\xrightarrow{\longrightarrow} 1225$ |
| 1224A | CHECK 1205A (h-j) and 1215A(b) <br> AT LEAST ONE NOT A 'YES' SINGLE 'YES' $\square$ |  | $\rightarrow 1226$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1225 | CHECK 601 AND 602: <br> EVER MARRIED <br> How old were you the first time you were forced to have sexual intercourse or perform any other sexual acts by anyone, including <br> NEVER MARRIED <br> How old were you the first first time you were forced to have sexual intercourse or perform any other sexual acts? (your/any) husband/partner? | AGE IN COMPLETED YEARS <br> DON'T KNOW $\qquad$ |  |
| $1226$ | CHECK 1205A (a-j), 1215A (a,b), 1216, 1220, 1222A, AND 1222B: <br> AT LEAST ONE NOT A SINGLE 'YES' 'YES' $\square$ |  | $\rightarrow 1230$ |
| 1227 | Thinking about what you yourself have experienced among the different things we have been talking about, have you ever tried to seek help? | $\begin{array}{ll} \text { YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . } \\ \text { NO . . . . . } \end{array}$ | $\rightarrow 1229$ |
| 1228 | From whom have you sought help? <br> Anyone else? <br> RECORD ALL MENTIONED. |  | $\longrightarrow \quad 1230$ |
| 1229 | Have you ever told any one about this? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |  |
| 1230 | As far as you know, did your father ever beat your mother? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |  |

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.



COMMENTS ABOUT RESPONDENT:

COMMENTS ON SPECIFIC QUESTIONS:

ANY OTHER COMMENTS:

SUPERVISOR'S OBSERVATIONS

NAME OF SUPERVISOR:
DATE:

EDITOR'S OBSERVATIONS

NAME OF EDITOR:
DATE:

Appendix D

NSTRUCTIONS:
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 CONDOM
8 FEMALE CONDOM
9 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 $\qquad$
z DON'T KNOW

|  |  |  |  | 1 | 2 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 12 | DEC | 01 |  |  |
|  | 11 | NOV | 02 |  |  |
|  | 10 | OCT | 03 |  |  |
|  | 09 | SEP | 04 |  |  |
| 2 | 08 | AUG | 05 |  |  |
| 0 | 07 | JUL | 06 |  |  |
| 1 | 06 | JUN | 07 |  |  |
| 6 | 05 | MAY | 08 |  |  |
|  | 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 |  |  |
| 0 | 07 | JUL | 18 |  |  |
| 1 | 06 | JUN | 19 |  |  |
| 5 | 05 | MAY | 20 |  |  |
|  | 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 |  |  |
| 0 | 07 | JUL | 30 |  |  |
| 1 | 06 | JUN | 31 |  |  |
| 4 | 05 | MAY | 32 |  |  |
|  | 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 |  |  |
| 0 | 07 | JUL | 42 |  |  |
| 1 | 06 | JUN | 43 |  |  |
| 3 | 05 | MAY | 44 |  |  |
|  | 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 |  |  |
| 0 | 07 | JUL | 54 |  |  |
| 1 | 06 | JUN | 55 |  |  |
| 2 | 05 | MAY | 56 |  |  |
|  | 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 |  |  |
| 0 | 07 | JUL | 66 |  |  |
| 1 | 06 | JUN | 67 |  |  |
| 1 | 05 | MAY | 68 |  |  |
|  | 04 | APR | 69 |  |  |
|  | 03 | MAR | 70 |  |  |
|  | 02 | FEB | 71 |  |  |
|  | 01 | JAN | 72 |  |  |
|  |  |  |  |  |  |
|  | 12 | DEC | 73 |  |  |
|  | 11 | NOV | 74 |  |  |
|  | 10 | OCT | 75 |  |  |
|  | 09 | SEP | 76 |  |  |
| 2 | 08 | AUG | 77 |  |  |
| 0 | 07 | JUL | 78 |  |  |
| 1 | 06 | JUN | 79 |  |  |
| 0 | 05 | MAY | 80 |  |  |
|  | 04 | APR | 81 |  |  |
|  | 03 | MAR | 82 |  |  |
|  | 02 | FEB | 83 |  |  |
|  | 01 | JAN | 84 |  |  |



## INTERVIEWER VISITS



## INFORMED CONSENT

Mingalabar. My name is $\qquad$ . I am working with the Ministry of Health and Sports. We are conducting a survey about health all over Myanmar. 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: $\qquad$ DATE: $\qquad$
RESPONDENT AGREES TO BE INTERVIEWED
1 RESPONDENT DOES NOT AGREE TO BE INTERVIEWED $2 \rightarrow$ END

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 101 | RECORD THE TIME. | HOUR <br> MINUTES |  |
| 102 | In what month and year were you born? | MONTH $\square$ <br> DON'T KNOW MONTHYEAR    |  |
| 103 | How old were you at your last birthday? <br> COMPARE AND CORRECT 102 AND/OR 103 IF INCONSISTENT. | AGE IN COMPLETED YEARS\begin{tabular}{\|l|l|}
\hline
\end{tabular} |  |
| 104 | Have you ever attended school? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 NO . . . . . . . . . . . | $\longrightarrow 108$ |
| 106 | What is the highest grade you completed? <br> IF COMPLETED LESS THAN GRADE ONE, RECORD '00'. | GRADE |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 107 | CHECK 106: <br> GRADE 5 <br> GRADE 6 OR LOWER OR HIGHER |  | $\longrightarrow 110$ |
| 108 | Now I would like you to read this sentence to me. <br> SHOW CARD TO RESPONDENT. <br> IF RESPONDENT CANNOT READ WHOLE SENTENCE, PROBE: <br> Can you read any part of the sentence to me? |  |  |
| 109 | CHECK 108: |  | $\rightarrow 111$ |
| 110 | Do you read a newspaper or magazine, at least once a week, less than once a week or not at all? |  |  |
| 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 $\ldots . .$. 2 <br> NOT AT ALL $\quad . . . . . . . . . . . . . . . . . . . .$. 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 $\ldots .$. 2 <br> NOT AT ALL $\quad . . . . . . . . . . . . . . . . . . .$. 3  |  |
| 115A | Have you changed your usual place of residence compared with this time last year? | $\begin{aligned} & \text { YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . } \end{aligned}$ | $\rightarrow$ 115D |
| 115B | Please tell me where you were living one year ago (state/region)? | STATE/REGION $\qquad$ $\square$ <br> OTHER COUNTRY $\qquad$ | $\longrightarrow 201$ |
| 115C | Was it an urban or rural area? |  |  |
| 115D | How many times have you moved residence in the past 5 years? | NUMBER OF TIMES $\square$ <br> NOT MOVED IN 5 YEARS | $\longrightarrow 201$ |
| 115E | Can you tell me the other locations (state/region) you have lived in the past 5 years? <br> PLEASE PROVIDE THE 3 MOST RECENT LOCATIONS. | STATE/REGION <br> a. LOCATION $\qquad$ <br> b. LOCATION $\qquad$ <br> c. LOCATION $\qquad$ |  |

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> Have you ever fathered any children with any woman? | YES <br> NO <br> DON'T KNOW |  | $\xrightarrow{\longrightarrow} 206$ |
| 202 | Do you have any sons or daughters that you have fathered who are now living with you? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\rightarrow 204$ |
| 203 | How many sons live with you? <br> And how many daughters live with you? <br> IF NONE, RECORD '00'. | SONS AT HOME <br> DAUGHTERS AT HOME |  |  |
| 204 | Do you have any sons or daughters that you have fathered who are alive but do not live with you? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\longrightarrow 206$ |
| 205 | How many sons are alive but do not live with you? <br> And how many daughters are alive but do not live with you? <br> IF NONE, RECORD '00'. | SONS ELSEWHERE <br> DAUGHTERS ELSEWHERE... |  |  |
| 206 | Have you ever fathered a son or a daughter who was born alive but later died? <br> IF NO, PROBE: Any baby who cried or showed signs of life but did not survive? | YES <br> NO <br> DON'T KNOW | 8 | $\xrightarrow{\longrightarrow} 208$ |
| 207 | How many boys have died? <br> And how many girls have died? <br> IF NONE, RECORD ‘00'. | BOYS DEAD <br> GIRLS DEAD |  |  |
| 208 | SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL. <br> IF NONE, RECORD '00'. | TOTAL CHILDREN . |  |  |
| 209 | CHECK 208: | AD REN $\square$ |  | $\begin{aligned} & \longrightarrow 212 \\ & \longrightarrow 301 \end{aligned}$ |
| 210 | Did all of the children you have fathered have the same biological mother? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\longrightarrow 212$ |
| 211 | In all, how many women have you fathered children with? | NUMBER OF WOMEN |  |  |
| 212 | How old were you when your (first) child was born? | AGE IN YEARS |  |  |
| 213 | CHECK 203 AND 205: <br> AT LEAST ONE <br> LIVING CHILD | NG $\square$ EN |  | $\longrightarrow 301$ |
| 214 | How old is your (youngest) child? | AGE IN YEARS |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 215 | CHECK 214: <br> (YOUNGEST) CHILD <br> OTHER $\square$ IS AGE 0-2 YEARS |  | $\rightarrow 301$ |
| 216 | What is the name of your (youngest) child? WRITE NAME OF (YOUNGEST) CHILD <br> (NAME OF (YOUNGEST) CHILD) |  |  |
| 217 | When (NAME)'s mother was pregnant with (NAME), did she have any antenatal check-ups? |  | $\xrightarrow{\longrightarrow} 219$ |
| 218 | Were you ever present during any of those antenatal check-ups? | PRESENT ......................................... 2 |  |
| 219 | Was (NAME) born in a hospital or health facility? |  |  |
| 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? |  |  |

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 Have you ever heard of (METHOD)? |  |  |
| :---: | :---: | :---: | :---: |
| 01 | Female Sterilization. PROBE: Women can have an operation to avoid having any more children. |  |  |
| 02 | Male Sterilization. PROBE: Men can have an operation to avoid having any more children. |  |  |
| 03 | IUD. PROBE: Women can have a loop or coil placed inside them by a doctor or a nurse. |  |  |
| 04 | Injectables. PROBE: Women can have an injection by a health provider that stops them from becoming pregnant for one or more months. |  |  |
| 05 | Implants. PROBE: Women can have one or more small rods placed in their upper arm by a doctor or nurse which can prevent pregnancy for one or more years. |  |  |
| 06 | Pill. PROBE: Women can take a pill every day to avoid becoming pregnant. |  |  |
| 07 | Condom. PROBE: Men can put a rubber sheath on their penis before sexual intercourse. | YES ....................................................... 2 |  |
| 08 | Female Condom. PROBE: Women can place a sheath in their vagina before sexual intercourse. |  |  |
| 09 | Lactational Amenorrhea Method (LAM). |  |  |
| 10 | Rhythm Method. PROBE: To avoid pregnancy, women do not have sexual intercourse on the days of the month they think they can get pregnant. |  |  |
| 11 | Withdrawal. PROBE: Men can be careful and pull out before climax. |  |  |
| 12 | Emergency Contraception. PROBE: As an emergency measure, within three/five days after they have unprotected sexual intercourse, women can take special pills to prevent pregnancy. |  |  |
| 13 | Have you heard of any other ways or methods that women or men can use to avoid pregnancy? |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 302 | In the last few months have you: <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> Seen or read about family planning in internet? <br> Read about family planning in billboard? |    YES <br>  NO   <br> RADIO $\ldots \ldots \ldots \ldots \ldots \ldots$ 1 2  <br> TELEVISION $\ldots \ldots \ldots \ldots$. 1 2  <br> NEWSPAPER OR MAGAZINE 1 2  <br> INTERNET $\ldots \ldots \ldots \ldots \ldots$ 1 2 <br> BILLBOARD $\ldots \ldots \ldots \ldots \ldots$ 1 2 |  |
| 303 | In the last few months, have you discussed family planning with a health worker or health professional? | $\begin{array}{ll} \text { YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . } \\ \text { NO . . . . . . } \end{array}$ |  |
| 304 | Now I would like to ask you about a woman's risk of pregnancy. From one menstrual period to the next, are there certain days when a woman is more likely to become pregnant when she has sexual relations? |  | $\xrightarrow{\longrightarrow} 306$ |
| 305 | Is this time just before her period begins, during her period, right after her period has ended, or halfway between two periods? |  |  |
| 306 | I will now read you some statements about contraception. Please tell me if you agree or disagree with each one. <br> a) Contraception is a woman's business and a man should not have to worry about it. <br> b) Women who use contraception may become promiscuous. |  |  |
| 307 | CHECK 301 (07): KNOWS MALE CONDOM <br> YES NO  |  | $\rightarrow 311$ |
| 308 | Do you know of a place where a person can get male condoms? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\longrightarrow 311$ |



| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 311 | CHECK 301 (08): KNOWS FEMALE CONDOM <br> YES $\square$ NO |  | $\rightarrow 401$ |
| 312 | Do you know of a place where a person can get female condoms? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\rightarrow 401$ |
| 313 | Where is that? <br> Any other place? <br> PROBE TO IDENTIFY EACH TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. |  |  |
| 314 | If you wanted to, could you yourself get a female condom? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 401 | Are you currently married? | YES, CURRENTLY MARRIED <br> NO, NOT IN UNION | $\begin{array}{ll} \ldots . . & 1 \\ \ldots . . & 2 \end{array}$ | $\rightarrow 404$ |
| 402 | Have you ever been married? | YES, FORMERLY MARRIED <br> NO | $\begin{array}{ll} \ldots . . & 1 \\ \ldots . & 2 \end{array}$ | $\rightarrow 413$ |
| 403 | What is your marital status now: are you widowed, divorced, or separated? | WIDOWED DIVORCED SEPARATED | $\begin{array}{cc} \ldots . & 1 \\ \ldots . . & 2 \\ \ldots . . & 3 \end{array}$ | $410$ |
| 404 | Is your wife living with you now or is she staying elsewhere? | LIVING WITH HIM STAYING ELSEWHERE | $\begin{array}{ll} \ldots & 1 \\ \ldots . & . \end{array}$ |  |
| 405 | Do you have other wives? | YES (MORE THAN ONE) NO (ONLY ONE) | $\begin{array}{ll} \ldots & 1 \\ \ldots & 2 \end{array}$ | $\longrightarrow 407$ |
| 406 | Altogether, how many wives do you have? | TOTAL NUMBER OF WIVES |  |  |
| 407 | CHECK 405: <br> ONE WIFE <br> Please tell me the name of your wife. <br> MORE THAN ONE WIFE <br> Please tell me the name of each of your wives. <br> RECORD THE LINE NUMBER FROM <br> THE HOUSEHOLD QUESTIONNAIRE FOR EACH WIFE. <br> IF A WOMAN IS NOT LISTED IN THE HOUSEHOLD, RECORD '00'. <br> ASK 408 FOR EACH PERSON. | LINE <br> NUMBER | 408 <br> How old was (NAME) on her last birthday? <br> AGE |  |
| 409 | CHECK 407: <br> MORE THAN <br> ONE WIFE <br> ONE WIFE |  |  | $\rightarrow 411 \mathrm{~A}$ |
| 410 | Have you been married only once or more than once? | ONLY ONCE MORE THAN ONCE | $\begin{array}{cc} \ldots & 1 \\ \ldots . . . . & 2 \end{array}$ | $\longrightarrow 411 \mathrm{~A}$ |



| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 430 | In the last 12 months, did you pay anyone in exchange for having sexual intercourse? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | $\longrightarrow 432$ |
| 431 | Have you ever paid anyone in exchange for having sexual intercourse? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\xrightarrow[\longrightarrow]{\longrightarrow} 433 \mathrm{~A}$ |
| 432 | The last time you paid someone in exchange for having sexual intercourse, was a condom (male or female) used? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\rightarrow 433 \mathrm{~A}$ |
| 433 | Was a condom used during sexual intercourse every time you paid someone in exchange for having sexual intercourse in the last 12 months? |  |  |
| 433A | Have you ever had sex with another men? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\rightarrow 434$ |
| 433B | Have you had sex with another men in the past 6 months? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\longrightarrow 434$ |
| 433C | The last time that you had sex with another men, did you use a condom? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |  |
| 434 | In total, with how many different people have you had sexual intercourse in your lifetime? <br> IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. <br> IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95'. | NUMBER OF PARTNERS IN LIFETIME $\qquad$ $\square$ DON'T KNOW |  |
| 435 | CHECK 418: |  | $\begin{array}{r} \longrightarrow 438 \\ \rightarrow 438 \end{array}$ |
| 436 | You told me that a condom was used the last time you had sex. What is the brand name of the condom (male or female) used at that time? <br> IF BRAND NOT KNOWN, ASK TO SEE THE PACKAGE. |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 437 | From where did you obtain the condom (male or female) the last time? <br> PROBE TO IDENTIFY TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. |  |  |
| 438 | The last time you had sex did you or your partner use any method (other than a condom) to avoid or prevent a pregnancy? |  | $\xrightarrow{\rightarrow} 501$ |
| 439 | What method did you or your partner use? <br> PROBE: <br> Did you or your partner use any other method to prevent pregnancy? <br> RECORD ALL MENTIONED. |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 501 | CHECK 401: <br> CURRENTLY MARRIED <br> NOT CURRENTLY | RIED | $\rightarrow 509$ |
| 502 | CHECK 439: <br> MAN NOT STERILIZED MAN STERILIIED $\square$ |  | $\rightarrow 509$ |
| 503 | Is your wife (Are any of your wives) currently pregnant? | YES <br> NO <br> DON'T KNOW | $\xrightarrow{\longrightarrow} 505$ |
| 504 | Now I have some questions about the future. After the (child/children) you and your (wife/wives) are expecting now, would you like to have another child, or would you prefer not have any more children? | HAVE ANOTHER CHILD <br> NO MORE <br> UNDECIDED/DON'T KNOW |  |
| 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 <br> NO MORE/NONE <br> SAYS COUPLE <br> CAN'T GET PREGNANT <br> WIFE (WIVES) <br> STERILIZEC. . . . . . . . . . . . . . <br> UNDECIDED/DON'T KNOW |  |
| 506 | CHECK 407: <br> ONE WIFE <br> MORE THA ONE WIF |  | $\rightarrow 508$ |
| 507 | CHECK 503:WIFENOT PREGNANTOR DON'T KNOW $\quad$WIFE <br> How long would you like to <br> wait from now before the <br> birth of (a/another) child? <br> After the birth of the child you are <br> expecting now, how long would <br> you like to wait before the birth of <br> another child? |  | $\rightarrow 509$ |
| 508 | How long would you like to wait from now before the birth of (a/another) child? | MONTHS <br> YEARS <br> SOON/NOW <br> HE/ALL HIS WIVES <br> ARE INFECUND <br> OTHER $\qquad$ |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  |  |  | SKIP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 509 | CHECK 203 AND 205: <br> HAS LIVING CHILDREN NO LIVING CHILDREN <br> If you could go back to the <br> If you could choose exactly the time you did not have any number of children to have in children and could choose your whole life, how many would exactly the number of children that be? to have in your whole life, how many would that be? <br> PROBE FOR A NUMERIC RESPONSE. | NONE <br> NUMBER <br> OTHER |  | ECIFY) | 96 | $\begin{aligned} & \longrightarrow 601 \\ & \longrightarrow 601 \end{aligned}$ |
| 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? | NUMBER <br> OTHER | BOYS | GIRLS $\qquad$ <br> CIFY) | $$ |  |

SECTION 6. EMPLOYMENT AND GENDER ROLES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 601 | Have you done any work in the last seven days? |  | $\longrightarrow 604$ |
| 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 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . $\quad 1$ NO . . . . . . . . 2 | $\longrightarrow 604$ |
| 603 | Have you done any work in the last 12 months? |  | $\longrightarrow 607$ |
| 604 | What is your occupation, that is, what kind of work do you mainly do? |     |  |
| 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 $\ldots . . . . . . . . . .$. 3 |  |
| 606 | Are you paid in cash or kind for this work or are you not paid at all? |  |  |
| 607 | CHECK 401: <br> CURRENTLY MARRIED <br> NOT CURRENTLY | RRIED | $\rightarrow 612$ |
| 608 | CHECK 606: <br> CODE 1 OR 2 <br> OTHER <br> CIRCLED $\square$ |  | $\longrightarrow 610$ |
| 609 | Who usually decides how the money you earn will be used: you, your wife, or you and your wife jointly? |  |  |
| 610 | Who usually makes decisions about health care for yourself: you, your wife, you and your wife jointly, or someone else? |  |  |
| 611 | Who usually makes decisions about making major household purchases? |  |  |


| No. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 611A | Who usually makes decisions regarding the wellbeing of children? |  |  |
| 612 | Do you own this or any other house either alone or jointly with someone else? |  |  |
| 613 | Do you own any land either alone or jointly with someone else? |  |  |
| 614 | In your opinion, is a husband justified in hitting or beating his wife in the following situations: <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 refuses to use contrception? <br> If she is involved in too much social activities? |  YES NO DK <br> 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> REFUSES CONTRA. . 1 2 8 <br> SOCIAL ACTS........ 1 2 8 |  |

SECTION 7. HIVIAIDS

| 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 ......................................................... 2 | $\rightarrow 723$ |
| 702 | Can people reduce their chance of getting HIV by having just one uninfected sex partner who has no other sex partners? |  |  |
| 703 | Can people get HIV from mosquito bites? |  |  |
| 704 | Can people reduce their chance of getting HIV by using a condom every time they have sex? |  |  |
| 705 | Can people get HIV by sharing food with a person who has AIDS? |  |  |
| 706 | Can people get HIV because of witchcraft or other supernatural means? |  |  |
| 707 | Is it possible for a healthy-looking person to have HIV? |  |  |
| 708 | Can HIV be transmitted from a mother to her baby: <br> During pregnancy? <br> During delivery? <br> By breastfeeding? |   YES NO DK <br> DURING PREG. $\ldots \ldots$ 1 2 8  <br> DURING DELIVERY ... 1 2 8  <br> BREASTFEEDING $\ldots$. 1 2 8  |  |
| 709 |  |  | $\rightarrow 711$ |
| 710 | Are there any special drugs that a doctor or a nurse can give to a woman infected with HIV to reduce the risk of transmission to the baby? |  |  |
| 711 | CHECK FOR PRESENCE OF OTHERS. BEFORE CONTINUING, M | KE 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 HIV? | YES ........................................................ 2 | $\rightarrow 716$ |
| 713 | How many months ago was your most recent HIV test? | MONTHS AGO $\square$ <br> TWO OR MORE YEARS |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 714 | I don't want to know the results, but did you get the results of the test? |  |  |
| 715 | Where was the test done? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. |  | 718 |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 716 | Do you know of a place where people can go to get tested for HIV? |  | $\rightarrow 718$ |
| 717 | Where is that? <br> Any other place? <br> PROBE TO IDENTIFY EACH TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. |  |  |
| 718 | Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had the AIDS virus? |  |  |


| 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? |  |  |
| 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? |  |  |
| 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 | Should children age 12-14 be taught about using a condom to avoid getting AIDS? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 <br> NO . . . . . .  <br> DK/NOT SURE/DEPENDS . . . . . . . 8 |  |
| 723 |  | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |  |
| 724 | CHECK 414: <br> HAS HAD SEXUAL <br> HAS NOT HAD SEXUAL INTERCOURSE INTERCOURSE |  | $\rightarrow 732$ |
| 725 | CHECK 723: HEARD ABOUT OTHER SEXUALLY TRANSMITTED | EECTIONS? NO | $\rightarrow 727$ |
| 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 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 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 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 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? |  |  |
| 729 | CHECK 726, 727, AND 728: <br> HAS HAD AN <br> HAS NOT HAD AN <br> INFECTION INFECTION OR <br> (ANY 'YES') DOES NOT KNOW |  | $\rightarrow 732$ |
| 730 | The last time you had (PROBLEM FROM 726/727/728), did you seek any kind of advice or treatment? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 NO . . . . . . . . . . . . . . . . . . 2 | $\longrightarrow 732$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 731 | Where did you go? <br> Any other place? <br> PROBE TO IDENTIFY EACH TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. |  |  |
| 732 | 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? |  |  |
| 733 | Is a wife justified in refusing to have sex with her husband when she knows her husband has sex with other women? |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 801 | Some men are circumcised, that is, the foreskin is completely removed from the penis. Are you circumcised? |  | $\xrightarrow{\longrightarrow} 805$ |
| 802 | How old were you when you got circumcised? | AGE IN COMPLETED YEARS $\square$ <br> $\begin{array}{ll}\text { DURING CHILDHOOD (<5 YEARS) } & 95 \\ \text { DON'T KNOW } & 98\end{array}$ $\qquad$ |  |
| 803 | Who did the circumcision? |  |  |
| 804 | Where was it done? |  |  |
| 805 | 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? <br> IF YES: How many injections have you had? <br> IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD ' 90 '. <br> IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. | NUMBER OF INJECTIONS $\square$ <br> NONE | $\longrightarrow 808$ |
| 806 | Among these injections, how many were administered by a doctor, a nurse, a pharmacist, a dentist, or any other health worker? <br> IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD ' 90 '. <br> IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. | NUMBER OF INJECTIONS $\square$ <br> NONE | $\rightarrow 808$ |
| 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? |  |  |
| 808 | Do you currently smoke cigarettes? |  | $\longrightarrow 810$ |
| 809 | In the last 24 hours, how many cigarettes did you smoke? | NUMBER OF CIGARETTES |  |
| 810 | Do you currently smoke or use any (other) type of tobacco? |  | $\longrightarrow 811 \mathrm{~A}$ |
| 811 | What (other) type of tobacco do you currently smoke or use? <br> RECORD ALL MENTIONED. |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 811A | Do you currently chew betel nuts? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\longrightarrow 811 \mathrm{C}$ |
| 811B | In the last 24 hours, how many pieces did you chew? | NUMBER OF <br> PIECES |  |
| 811C | Have you ever heard of an illness called tuberculosis or TB? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> NO 2  | $\rightarrow 812$ |
| 811D | How does tuberculosis spread from one person to another? <br> PROBE: <br> Any other ways? <br> [CIRCLE ALL MENTIONED] |  |  |
| 811E | Can tuberculosis be cured? |  |  |
| 811F | What is the duration of treatment of TB now a days? <br> [IF MORE THAN 7 MONTHS, RECORD 7] | MONTHS <br> DON'T KNOW |  |
| 811G | Have you ever been told by a doctor or nurse or LHV that you have/ had tuberculosis? |  |  |
| 812 | Are you covered by any health insurance? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\longrightarrow 814$ |
| 813 | What type of health insurance are you covered by? <br> RECORD ALL MENTIONED. | MUTUAL HEALTH ORGANIZATION/ COMMUNITY-BASED HEALTH INSURANCE .................... A HEALTH INSURANCE THROUGH EMPLOYER ........................ . B SOCIAL SECURITY ................... C OTHER PRIVATELY PURCHASED COMMERCIAL HEALTH INSURANCE D OTHER $\qquad$ X |  |
| 814 | RECORD THE TIME. | HOUR <br> MINUTES |  |

## TO BE FILLED IN AFTER COMPLETING INTERVIEW

## COMMENTS ABOUT RESPONDENT:

COMMENTS ON SPECIFIC QUESTIONS

ANY OTHER COMMENTS:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

SUPERVISOR'S OBSERVATIONS
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

NAME OF SUPERVISOR
DATE: $\qquad$

EDITOR'S OBSERVATIONS

NAME OF EDITOR: $\qquad$ DATE: $\qquad$


[^0]:    ${ }^{1}$ Respondents may report multiple treatment methods, so the sum of treatment may exceed 100 percent.
    ${ }^{2}$ Appropriate water treatment methods include boiling, bleaching, filtering, and solar disinfecting. As only four

[^1]:    ${ }^{1}$ Completed grade 5 at the primary leve
    ${ }^{2}$ Completed grade 11 at the secondary level
    ${ }^{3}$ Total includes two cases with missing information on age, not shown separately.

[^2]:    ${ }^{1}$ Completed grade 5 at the primary level
    ${ }^{2}$ Completed grade 11 at the secondary level

[^3]:    ${ }^{1}$ Completed grade 5 at the primary level
    ${ }^{2}$ Completed grade 11 at the secondary leve

[^4]:    ${ }^{1}$ Total includes three women with missing information on education.

[^5]:    Note: Figures in parentheses are based on 25-49 unweighted cases
    ${ }^{1}$ Total includes three women with missing information on education.

[^6]:    ${ }^{1}$ Excludes women who had sexual intercourse within the last 4 weeks
    ${ }^{2}$ Excludes women who are not currently married
    ${ }^{3}$ Total includes three women with missing information on education

[^7]:    ${ }^{1}$ Excludes men who had sexual intercourse within the last 4 weeks

[^8]:    The number of living children includes the current pregnancy
    ${ }^{2}$ Wants next birth within 2 years
    ${ }^{3}$ Wants to delay next birth for 2 or more years
    ${ }^{4}$ Includes both female and male sterilization
    ${ }^{5}$ The number of living children includes one additional child if respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

[^9]:    ${ }^{1}$ As very few women ( $1 \%$ ) reported using the male condom, and disaggregated data are not presented.

[^10]:    Note: If more than one method is used, only the most effective method is considered in this tabulation.
    ${ }^{1}$ Includes lactational amenorrhea method (LAM)

[^11]:    ${ }^{1}$ Implants, rhythm, and withdrawal are included in the discontinuation rate for other methods.

[^12]:    ${ }^{1}$ None of radio, television, or newspaper/magazine
    ${ }^{2}$ Includes those with no exposure to any source: radio, television, newspaper/magazine, Internet, or billboard.
    ${ }^{3}$ Total includes three women with missing information on education.

[^13]:    ${ }^{1}$ Includes women who received a checkup after 41 days

[^14]:    ${ }^{1}$ Includes newborns who received a checkup after the first week

[^15]:    ${ }^{1}$ See Table 2.1 for definition of categories.
    ${ }^{2}$ See Table 2.2 for definition of categories.
    ${ }^{3}$ Facilities that would be considered improved if they were not shared by two or more households

[^16]:    Excludes pharmacy, shop, market, and traditional practitioner
    ${ }^{2}$ Total includes one child with missing information on type of diarrhea.

[^17]:    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. Data by states and regions are not shown due to very few cases. ${ }^{1}$ Continued feeding includes children who were given more, the same as usual, or somewhat less food during the diarrhea episode
    ${ }^{2}$ Total includes one child with missing information on type of diarrhea.

[^18]:     adopted in 2006. Table is based on children with valid dates of birth (month and year) and valid measurement of both height and weight. Figures in parentheses are based on $25-49$ unweighted cases. Recumbent length is measured for children under age 2; standing height is measured for all other children.
    ${ }^{3}$ Excludes children whose mothers were not interviewed
     nutritional status in terms of BMI (body mass index) is presented in Table 11.11.
    

[^19]:    ${ }^{1}$ De facto household members ) (1) a factory-treated net that does not require any further treatment (LLIN) or (2) a pretreated net obtained within the past 12 months or (3) a net that has been soaked ${ }^{2}$ An insecticide-treated net (ITN) is (1) a fact

[^20]:    ${ }^{1}$ Using condoms every time they have sexual intercourse
    ${ }^{2}$ Partner who has no other partners
    ${ }^{3}$ Total includes three women with missing information on education

[^21]:    ${ }^{1}$ Total includes two men with missing information on marital status.

[^22]:    ${ }^{1}$ Includes "don't know/missing"
    ${ }^{2}$ Total includes two men with missing information on marital status.

[^23]:    ${ }^{1}$ The imputation procedure was based on the assumption that the reported birth ordering of siblings in the history was correct. The first step was to calculate birth dates for each living sibling with a reported age and each dead sibling with complete information on both age at death and years since death. For a sibling missing these data, a birth date was imputed within the range defined by the birth dates of the bracketing siblings. In the case of living siblings, an age was then calculated from the imputed birth date. In the case of dead siblings, if either age at death or years since death were reported, that information was combined with the birth date to produce the missing information. If both pieces of information were missing, the distribution of the ages at death for siblings for whom years since death were not reported but age at death was reported was used as a basis for imputing age at death.

[^24]:    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.

[^25]:    ${ }^{1}$ Total includes one woman with missing information on employment status in the last 12 months.
    ${ }^{2}$ Total includes three women with missing information on education.

[^26]:    1 "Skilled provider" includes doctor, nurse, midwife, or lady health visitor.
    ${ }^{2}$ Includes women who received a postnatal checkup from a doctor, nurse, midwife, lady health visitor, community health worker, or traditional birth attendant in the first 2 days after the birth. Includes women who gave birth in a health facility and those who did not give birth in a health facility.
    ${ }^{3}$ Restricted to currently married women. See Table 15.6.1 for the list of decisions. Excludes decision on well-being of children.
    ${ }^{4}$ See Table 15.7.1 for the list of reasons. Excludes the reasons refusal of contraception and involvement in social activities

[^27]:    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.
    ${ }^{1}$ Total includes two women with missing information on education.

[^28]:    na $=$ Not applicable

[^29]:    ${ }^{1}$ Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

[^30]:    ${ }^{1}$ The mortality rates are calculated for 5 years and 10 years before the survey for the national sample and regional samples, respectively

[^31]:    na=not applicable

[^32]:    NA = Not applicable
    ${ }^{1}$ Both year and month of birth given
    ${ }^{2}$ ( $\mathrm{Bm} / \mathrm{Bf}$ ) $\times 100$, where Bm and Bf are the numbers of male and female births, respectively
    ${ }^{3}[2 B x /(B x-1+B x+1)] \times 100$, where $B x$ is the number of births in calendar year $x$

