

SMI-Honduras

Household Census and Survey Data Quality Report

Second Follow-up Measurement

May 2018



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This report of the Salud Mesoamérica Initiative (SMI) Honduras household survey was produced in agreement with the Inter-American Development Bank (IDB). All analyses and writing were conducted by the Institute for Health Metrics and Evaluation (IHME) at the University of Washington.

About IHME

IHME monitors global health conditions and health systems and evaluates interventions, initiatives, and reforms. Our vision is that better health information will lead to better-informed decision-making and higher achievement in health. To that end, we strive to build the objective evidence about what does and does not improve health conditions and health system performance. IHME provides high-quality and timely information on health, enabling policymakers, researchers, donors, practitioners, local decision-makers, and others to better allocate limited resources to achieve optimal results.

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1 CHAPTER 1: INTRODUCTION

The Salud Mesoamérica Initiative (SMI) is a regional public-private partnership that brings together Mesoamerican governments, private foundations and bilateral and multilateral donors with the purpose of reducing health inequalities affecting the poorest 20% of the population in the region. Funding focuses on supply- and demand-side interventions, including evidence-based interventions, the expansion of proven and cost-effective healthcare packages, and the delivery of incentives for effective health services. One of its defining features is the application of a results-based aid (RBA) model that relies on performance measurement and enhanced transparency and accountability. The initiative focuses its resources on integrating key interventions aimed at reducing health inequalities that stem from the lack of access to quality reproductive, maternal, neonatal and child health services (including immunization and nutrition services) for the poorest quintile of the population.

1.1 Objectives

The objectives of the SMI evaluation are to assess whether countries are reaching the indicator targets set by the Initiative and to evaluate the results of specific interventions. In Honduras, baseline data were collected at households and health facilities in intervention and comparison areas (2013). The first follow-up data collection took place at health facilities in intervention areas only (2014), and this second follow-up measurement was performed at households and health facilities in intervention and comparison areas (2017). The use of health facility and household data collection methods permits the measurement of supply- and demand-side information on the Initiative. The pairing of the two types of surveys is a defining feature, designed to capture key indicators in a robust and multidimensional way. The timeline of data collection, evaluation, and interventions is shown in Figure 1.1.



Figure 1.1: SMI-Honduras timeline

The objectives of the SMI-Honduras second follow-up household survey are to capture household characteristics, reported maternal and child health data for women 15-49 years of age and for children 0-59 months of age, and anthropometric measurements including height, weight, and hemoglobin concentration for children. Community data collection permits the measurement of changes in health status, access to health care, and satisfaction with health care, as well as an array of data points which give context to these factors.



Chapter 1 provides a general overview of the design and implementation of the SMI-Honduras second follow-up household census and SMI-Honduras second follow-up household survey and discusses the design and coverage of the study in both intervention and comparison areas. The subsequent chapters present results of the SMI-Honduras second follow-up household survey from intervention areas only. Appendix D presents results from comparison areas only, and Appendix E presents results pooled from intervention and comparison areas.

1.2 SMI household census and survey

The SMI household census is used to capture the age and sex distribution of all of the usual members of all households in selected segments. Basic information including relationship to the head of the household and marital status is also collected. Children aged 0-59 months who have one or more parent residing in the same household are linked to their mother and/or father by way of unique household member identification codes.

Data from the SMI household census are used to identify and select eligible households for the detailed interviews and the physical measurements module (Figure 1.2). The household survey is typically conducted within one month of the household census. The SMI household survey includes three components: the Household Characteristics Questionnaire, the Maternal and Child Health Questionnaire, and the Physical Measurements Module.

The household questionnaire collects information on the source of water, type of toilet facilities, exposure to secondhand smoke, ownership of various assets including durable goods, agricultural land, and livestock, and household expenses and sources of health care financing.

The Maternal and Child Health Questionnaire covers eligible women's background characteristics (including education, occupation, and exposure to media), access to health care, current health status, recent history of illness and associated medical expenses, fertility preferences, knowledge and use of family planning methods (including barriers to use), exposure to health system interventions, and satisfaction with community health workers. Women who have been pregnant in the last five years answer questions about birth history; antenatal, delivery, and postpartum care; birth spacing; breastfeeding; and infant feeding practices.

Caretakers of children aged 0-5 years are asked detailed questions for each child under age 5 on topics such as child's current health status, recent history of illness including diarrhea, fever, and acute upper respiratory infection and associated medical expenses, child's exposure to health system interventions, immunization, and supplementation history.

The Physical Measurements Module captures weight, height/length, and hemoglobin concentrations of children aged 0-59 months. Portable scales and height rods were used for the anthropometric measurements and hemoglobin levels were assessed in the field using a portable HemoCue[™] machine. Medically trained personnel (i.e., anthropometrists or professional nurses) performed all assessments.

1.3 Methodology

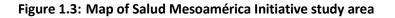
The study design for the SMI-Honduras second follow-up household survey provides representative estimates of the coverage of key health interventions and indicators for a geographic area that

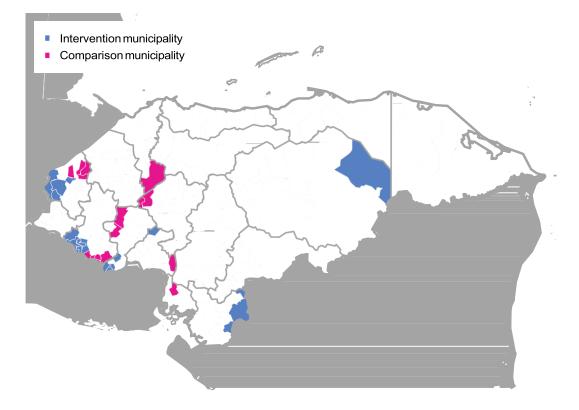


approximates the lowest wealth quintile of the population of Honduras.

1.3.1 Study area

The primary administrative unit in Honduras is the department. Honduras has 18 departments, and nine were purposefully selected for SMI-Honduras– Comayagua, Copán, Cortés, Choluteca, Intibucá, La Paz, Lempira, Olancho, Valle. From those nine departments, IDB identified 18 intervention municipalities in which to conduct the baseline SMI household survey for the Initiative on the basis of their high concentration of residents in the country's lowest wealth quintile, and 16 comparison municipalities with similar socioeconomic characteristics and ethnic composition (Figure 1.3). From these 33 municipalities, a two-stage clustered random sample of eligible households was selected to reach the sample sizes shown in Table 1.1.





1.3.2 First-stage sample selection: census segments

The household survey uses a two-stage random sampling design in order to balance survey administration costs with the ability to make estimates representative of the population in the study area. For the SMI-Honduras household census, the primary sampling unit (PSU) is the aldea (village) from the 2013 Honduras Population Census. A representative sample of these clusters ("segments") was randomly selected from a sampling frame of all segments in SMI municipalities with probability proportional to size,



where size is measured by the number of occupied households. Samples for intervention and comparison strata, and for baseline and follow-up rounds, were selected independently.

A set of alternate segments was selected using identical methodology, to be surveyed in the event that any of the selected segments could not be surveyed and needed to be replaced due to security concerns, community rejection of the study, or a high proportion of absent households. In Honduras in the 2017 follow-up survey, four segments in intervention areas were replaced due to security concerns. Of the two segments requiring replacement in Dulce Nombre de Culmí, Olancho, one was replaced with an alternate segment from the same municipality, and the second was replaced with a randomly selected alternate from intervention areas outside Dulce Nombre de Culmí due to widespread security concerns in Olancho. The two segments requiring replacement in Cabañas, Copán were substituted with randomly selected alternates from other intervention municipalities within Copán department after it was determined that surveying in the alternate segments of Cabañas municipality posed excessive risk. Counts by municipality of segments where data collection was completed successfully are shown in Figure 1.4.

| | Intervention | | | | Comparison | | |
|------------|-----------------------|------|------|------------|--------------------------|------|------|
| Department | Municipality | 2013 | 2017 | Department | Municipality | 2013 | 2017 |
| Choluteca | Concepción de Maria | 6 | 6 | Comayagua | San José de Comayagua | 2 | 1 |
| Choluteca | Duyure | 1 | 1 | Comayagua | Taulabé | 5 | 3 |
| Choluteca | San Marcos de Colon | 5 | 6 | Copán | La Jigua | 1 | 0 |
| Copán | Cabañas | 3 | 1 | Copán | Nueva Arcadia | 7 | 5 |
| Copán | Copán Ruinas | 8 | 10 | Copán | San Antonio | 3 | 0 |
| Copán | San Jerónimo | 1 | 1 | Copán | San Nicolás | 1 | 1 |
| Copán | Santa Rita | 6 | 8 | Cortés | Santa Cruz de Yojoa | 15 | 9 |
| Intibucá | Concepción | 2 | 2 | Intibucá | San Francisco de Opalaca | 2 | 1 |
| Intibucá | Magdalena | 1 | 1 | Intibucá | San Miguelito | 1 | 0 |
| Intibucá | San Antonio | 2 | 1 | La Paz | Aguanqueterique | 1 | 1 |
| Intibucá | Santa Lucía | 1 | 1 | Lempira | Candelaria | 1 | 0 |
| La Paz | Santiago de Puringla | 3 | 5 | Lempira | La Virtud | 1 | 1 |
| Lempira | Cololaca | 2 | 2 | Lempira | Mapulaca | 1 | 0 |
| Lempira | Guarita | 2 | 2 | Lempira | Piraera | 3 | 1 |
| Lempira | San Juan Guarita | 1 | 1 | Lempira | Virginia | 0 | 1 |
| Lempira | Tomalá | 1 | 2 | Valle | Langue | 4 | 1 |
| Lempira | Valladolid | 1 | 1 | | | | |
| Olancho | Dulce Nombre de Culmí | 5 | 5 | | | | |

Table 1.1: Number of segments per municipality in SMI area

1.3.3 Second-stage sample selection: households

The SMI-Honduras second follow-up household census is conducted in each of the randomly selected segments prior to the SMI-Honduras second follow-up household survey in order to identify all eligible



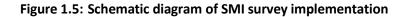
women and children for second-stage sampling. Interviewers visit every household in the segment and create a household roster capturing the age and sex distribution of household members.

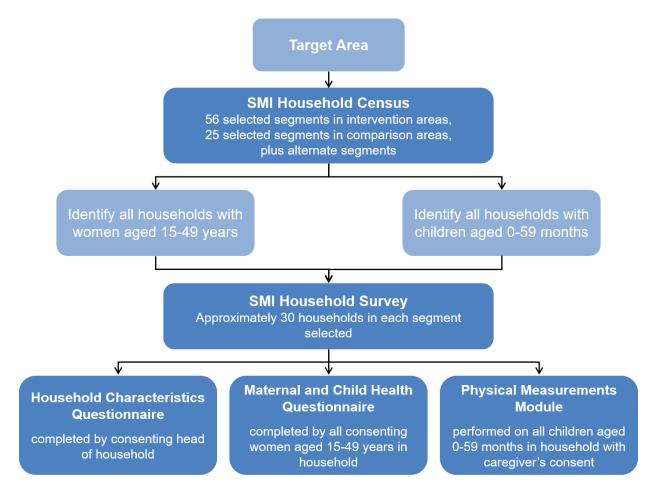
Eligible households are systematically selected from the complete census listing for participation in the SMI-Honduras Household Survey. Thirty households are selected for participation, 25 households with at least one eligible child and five households with only eligible women. In order to ensure at least 30 complete interviews per segment, 10 backup households, eight with at least one eligible child and two with only eligible women, are selected at random in case of refusals or absent households.

All women aged 15-49 years who are members of the selected household are eligible to be interviewed, and all children aged 0-59 months who are members of the selected household are eligible for the physical measurement module. Any household head or other individual knowledgeable about household characteristics and expenditures is permitted to respond to the household characteristics module, while any primary caregiver of a child 0-59 months is eligible to inform for the child health interview module, regardless of sex or age.

A schematic diagram of the survey implementation is shown in Figure 1.5. Appendix A provides a detailed description of sampling methods.







1.4 Survey implementation

1.4.1 Data collection instruments

Questionnaires were initially developed in English, and then translated to Spanish during the baseline measurement. To best reflect the issues most relevant to the region under study and the local language, the Spanish-language questionnaires were revised following input from key stakeholders and at the conclusion of the baseline and first follow-up pilot studies (described below). Study areas included a substantial proportion of indigenous populations, many of them also Spanish speakers.

All surveys were conducted using a computer-assisted personal interview (CAPI). The CAPI was programmed using DatStat Illume and installed onto computer netbooks. CAPI supports skip patterns, inter-question answer consistency, and data entry ranges. The aim of introducing CAPI to the field was to reduce survey time by prompting only relevant questions, maintain a logical answering pattern across different questions, decrease data entry errors, and permit rapid data verification.



1.4.2 Training and supervision of data collectors

At the baseline, a total of 43 people were trained in December 2012 to serve as supervisors and interviewers. Training sessions for the second follow-up survey were conducted in Honduras in May 2017. For household and census data collection, 28 surveyors and eight anthropometrists were trained. All surveyors underwent a week-long training, which included three days of in-classroom instruction and practice of interview application. Teams were split into their respective groups and given in-depth training and practice for each relevant component of data collection. The training included content of each survey, proper conduct of the survey, in-depth review of the instrument, and hands-on training on the CAPI software. Surveyors participated in a two-day pilot data collection exercise in communities that were not selected to be part of the SMI sample, where they applied the census and household survey. IHME held debriefing and re-training sessions with surveyors post-pilot and provided continued training during the first week of data collection in sampled communities.

1.4.3 Data collection, management, and analysis

The SMI-Honduras second follow-up household census, which captures basic demographic characteristics of all usual household occupants, was carried out between January 17, 2013 and May 2, 2013, at the baseline, and between May 29 and October 6, 2017 in in the second follow-up.

Data collection for the SMI-Honduras second follow-up household survey at the baseline began on February 10, 2013, and was completed on June 1, 2013. At the follow-up, data collection began June 27, 2017, and was completed on October 25, 2017. To assure completeness of the sample, field staff were instructed to return to selected households up to three times (on different days, and at least once on a weekend) in an attempt to complete the Household Characteristics Questionnaire, the Maternal and Child Health Questionnaire, and the Physical Measurements Module. Households that refused to participate or were absent at all three visits were substituted with randomly selected alternates.

Data collection teams, consisting of one supervisor and three to five interviewers were deployed to conduct the SMI household census and the SMI household survey. Supervisors were responsible for reviewing questionnaires for quality and consistency prior to departing to each segment. There were eight supervisors overseeing the SMI household census and SMI household survey at baseline, and six supervisors overseeing the follow-up survey.

Data were collected using computer netbooks equipped with CAPI software. Field team leaders monitored the implementation of the survey and report feedback. Data collection using CAPI allowed data to be transferred instantaneously once a survey was completed via a secure connection to IHME. IHME monitored collected data on a continuous basis and provided feedback. Suggestions, surveyor feedback, and any modifications were incorporated into the instruments and readily transmitted to the field.

Data analysis was conducted at IHME using STATA version 14 and R version 3. Performance and monitoring indicators were calculated at IHME following indicator definitions provided by IDB.

The total number of completed interviews with heads of households in the census is shown in Table 1.2, and the total number of completed interviews with heads of households in the household survey is shown in Table 1.3. The total number women of reproductive age who participated in the household survey for



each department in Honduras is shown in Table 1.4, and the total number of physical measurements of children aged 0-59 months performed, with corresponding response rates by department, is shown in Table 1.5. Response rates were calculated using the following formula: ([# surveyed] ÷ [# selected participants]). High non-response may affect the reliability of the estimates.

According to the 2013 Honduras Population Census, we expected a total of 20,756 occupied households in the 81 selected segments in the second follow-up. The SMI household listing exercise found 13,358 occupied households in these segments. Of the 13,358 occupied households, 12,565 completed the SMI household census, yielding a response rate of 94 % for this portion of the survey.

Based on information collected during the SMI household census, a subset of households were visited for individual interviews. A total of 12,558 households were visited for the individual interviews in intervention and comparison areas during the second follow-up. Of these, a total of 2,439 Household Characteristics Questionnaires were completed with heads of households, yielding a household response rate of 95.1% in intervention areas and 94.5% in comparison areas.

Using the household roster completed as part of the SMI household survey, 3,109 women of reproductive age (15-49 years) were identified in the intervention and comparison areas during the second follow-up from the sub-sample of interviewed households as eligible for the Maternal and Child Health Questionnaire. Of these women, 3,099 successfully completed the questionnaire (99.9% in intervention areas and 99.3% in comparison areas). The household roster completed as part of the SMI household survey was also used to identify 2,500 children aged 0-59 months as eligible for the Physical Measurements Module among the interviewed households in intervention and comparison areas during the second follow-up. 2,492 of these children participated in either the interview or measurements module (99.8% in intervention areas and 99.5% in comparison areas).

Among those households that were occupied but did not complete the SMI household census, the majority of the non-response for households and individuals was due to household members refusing the interview or being absent.

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | | |
|--------------|-------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------|-------------------------------|-------------------------------|-------------------------------|--|--|
| | No. households | No. households eligible | No. households censused | Census response rate, % | No. households | No. households eligible | No. households censused | Census response rate, % | | |
| Choluteca | 1851 | 1873 | 1850 | 98.8 | 2464 | 2208 | 2135 | 96.7 | | |
| Comayagua | 1079 | 1094 | 1079 | 98.6 | 824 | 690 | 646 | 93.6 | | |
| Copán | 5070 | 5115 | 5061 | 98.9 | 4728 | 4340 | 4206 | 96.9 | | |
| Cortés | 2405 | 2459 | 2405 | 97.8 | 1768 | 1639 | 1578 | 96.3 | | |
| Intibucá | 1495 | 1509 | 1489 | 98.7 | 1079 | 962 | 950 | 98.8 | | |
| La Paz | 627 | 632 | 627 | 99.2 | 1281 | 1091 | 1014 | 92.9 | | |
| Lempira | 1776 | 1782 | 1776 | 99.7 | 1546 | 1207 | 1085 | 89.9 | | |
| Olancho | 835 | 843 | 834 | 98.9 | 985 | 789 | 762 | 96.6 | | |
| Valle | 608 | 639 | 605 | 94.7 | 210 | 193 | 182 | 94.3 | | |
| Intervention | 8134 | 8198 | 8121 | 99.1 | 10268 | 9040 | 8705 | 96.3 | | |
| Comparison | 7612 | 7748 | 7605 | 98.2 | 4617 | 4079 | 3853 | 94.5 | | |

Table 1.2: Households participating in the SMI census and response rates, by department

*Response rate calculated as the number of complete or partial interviews over total occupied households.

Overall response rate = household response rate*census response rate.



| | | Baseline | e 2013 | | Second Follow-Up 2017 | | | | |
|--------------|-------------------------------|----------------------------------|----------------------------------|--------------------------------|-------------------------------|----------------------------------|----------------------------------|--------------------------------|--|
| | No. households selected | No. households interviewed | Household response rate, % | Overall response rate, % | No. households selected | No. households interviewed | Household response rate, % | Overall response rate, % | |
| Choluteca | 402 | 365 | 90.8 | 89.7 | 398 | 391 | 98.2 | 95.0 | |
| Comayagua | 220 | 210 | 95.5 | 94.1 | 123 | 120 | 97.6 | 91.3 | |
| Copán | 946 | 913 | 96.5 | 95.5 | 837 | 783 | 93.5 | 90.7 | |
| Cortés | 508 | 453 | 89.2 | 87.2 | 283 | 272 | 96.1 | 92.5 | |
| Intibucá | 317 | 264 | 83.3 | 82.2 | 183 | 180 | 98.4 | 97.1 | |
| La Paz | 125 | 120 | 96.0 | 95.2 | 183 | 180 | 98.4 | 91.4 | |
| Lempira | 412 | 392 | 95.1 | 94.8 | 372 | 333 | 89.5 | 80.5 | |
| Olancho | 178 | 152 | 85.4 | 84.5 | 161 | 150 | 93.2 | 90.0 | |
| Valle | 133 | 129 | 97.0 | 91.8 | 30 | 30 | 100.0 | 94.3 | |
| Intervention | 1667 | 1540 | 92.4 | 91.5 | 1770 | 1683 | 95.1 | 91.6 | |
| Comparison | 1574 | 1458 | 92.6 | 90.9 | 800 | 756 | 94.5 | 89.3 | |

Table 1.3: Households participating in SMI household survey and response rates, by department

*Response rate calculated as the number of complete or partial interviews over total selected households

Table 1.4: Women participating in SMI women's health and/or pregnancy interview, by department

| | | Baseline | 2013 | | | Second Follow | v-Up 2017 | |
|--------------|-----------------------|--------------------------|------------------------------|--------------------------------|-----------------------|--------------------------|------------------------------|--------------------------------|
| | No. women eligible | No. women interviewed | Woman response rate, % | Overall response rate, % | No. women eligible | No. women interviewed | Woman response rate, % | Overall response rate, % |
| Choluteca | 541 | 441 | 81.5 | 73.1 | 521 | 521 | 100.0 | 95.0 |
| Comayagua | 287 | 261 | 90.9 | 85.6 | 158 | 158 | 100.0 | 91.3 |
| Copán | 1218 | 1119 | 91.9 | 87.7 | 937 | 932 | 99.5 | 90.2 |
| Cortés | 667 | 500 | 75.0 | 65.4 | 360 | 356 | 98.9 | 91.5 |
| Intibucá | 360 | 306 | 85.0 | 69.9 | 254 | 254 | 100.0 | 97.1 |
| La Paz | 155 | 148 | 95.5 | 90.9 | 224 | 224 | 100.0 | 91.4 |
| Lempira | 551 | 479 | 86.9 | 82.4 | 405 | 405 | 100.0 | 80.5 |
| Olancho | 209 | 168 | 80.4 | 67.9 | 207 | 206 | 99.5 | 89.5 |
| Valle | 196 | 158 | 80.6 | 74.0 | 43 | 43 | 100.0 | 94.3 |
| Intervention | 2138 | 1868 | 87.4 | 80.0 | 2127 | 2124 | 99.9 | 91.4 |
| Comparison | 2046 | 1712 | 83.7 | 76.1 | 982 | 975 | 99.3 | 88.6 |

*Response rate calculated as the number of complete or partial interviews over total eligible women. All children aged 0-59 months who reside in interviewed households, based on the household roster completed as part of the SMI census, are selected for the caregiver interview and physical measurements.



| | | Baseline | 2013 | | | Second Fol | low-Up 2017 | |
|--------------|-----------------------------|---------------------------------|------------------------------|--------------------------------|-----------------------------|---------------------------------|------------------------------|--------------------------------|
| _ | No. children eligible | No. children participated | Child response rate, % | Overall response rate, % | No. children eligible | No. children participated | Child response rate, % | Overall response rate, % |
| Choluteca | 388 | 369 | 95.1 | 85.3 | 417 | 417 | 100.0 | 95.0 |
| Comayagua | 247 | 245 | 99.2 | 93.4 | 125 | 125 | 100.0 | 91.3 |
| Copán | 1060 | 1020 | 96.2 | 91.9 | 824 | 818 | 99.3 | 90.0 |
| Cortés | 498 | 453 | 91.0 | 79.3 | 306 | 304 | 99.3 | 91.9 |
| Intibucá | 274 | 264 | 96.4 | 79.2 | 191 | 191 | 100.0 | 97.1 |
| La Paz | 128 | 126 | 98.4 | 93.8 | 179 | 179 | 100.0 | 91.4 |
| Lempira | 422 | 404 | 95.7 | 90.8 | 273 | 273 | 100.0 | 80.5 |
| Olancho | 162 | 152 | 93.8 | 79.3 | 155 | 155 | 100.0 | 90.0 |
| Valle | 123 | 110 | 89.4 | 82.1 | 30 | 30 | 100.0 | 94.3 |
| Intervention | 1690 | 1622 | 96.0 | 87.8 | 1726 | 1722 | 99.8 | 91.3 |
| Comparison | 1612 | 1521 | 94.4 | 85.8 | 774 | 770 | 99.5 | 88.8 |

Table 1.5: Children participating in SMI child health interview and/or physical measurements by department

*Response rate calculated as the number of complete or partial interviews over total eligible women. All women aged 15-49 years who reside in interviewed households, based on the household roster completed as part of the SMI census, are selected for the interview.

1.5 Characteristics of Non-Participating Households

Data on selected households that were absent or declined to participate in the SMI Household Survey are drawn from the SMI Household Census. A total of 245 of the 2,570 households that were selected at the second follow-up did not complete the SMI Household Survey. Households that did not complete the SMI Household Survey are referred to as "replaced" households because they were substituted with alternate households selected from the same segment.

Replaced households consisted of one to 14 members (median four members). Four percent of these households were headed by a man, 26.5% of households were headed by a woman, and 68.9% were identified as dual-headed.

Table 1.6: Household characteristics, nonparticipating households

| | Bas | eline 20 | 013 | Second Follow-Up 2017 | | |
|-----------------------|-----|----------|-----|-----------------------|------|-----|
| | n | % | SE | n | % | SE |
| Head of household | | | | | | |
| Dual-headed household | 202 | 82.4 | 2.4 | 91 | 68.9 | 4.2 |
| Single head, female | 37 | 15.1 | 2.4 | 35 | 26.5 | 3.6 |
| Single head, male | 6 | 2.4 | 1.0 | 6 | 4.5 | 2.0 |

Dual-headed households are those where (a) two individuals were identified as "head" by the respondent or (b) both the person identified as "head" and his or her spouse or partner are household members.





| | N | DK/DTR | Min | 25th Percentile | Median e | 75th Percentil | Max e |
|--|-----|--------|-----|--------------------|-------------|-------------------|----------|
| Baseline 2013 | | | | | | | |
| Number of usual household members | 245 | 0 | 1 | 4 | 5 | 6 | 13 |
| Second follow-up 2017 Number of usual household members | 132 | 0 | 1 | 3 | 4 | 5 | 14 |

1.6 Report structure

The subsequent chapters present characteristics of the surveyed SMI-Honduras sample in intervention areas only. Each table is presented for comparison areas only in Appendix D, and pooled intervention and comparison areas in Appendix E. Most tables take one of three forms. Tabulations of select-only-one question types are similar to Table 2.2(a). The categories are mutually exclusive, so the proportions sum to 100%. Counts are shown for non-response ("Don't know" or "Decline to respond" recorded), but these cases are always excluded from the denominator.

Tabulations of select-all-that-apply question types look like Table 2.4(a). As respondents can report more than one option, categories are not mutually exclusive, and thus proportions do not sum to 100%. The table shows affirmative cases (n) and non-missing cases (N). Non-response is the difference between non-missing cases (N) and the total sample eligible for that section of the questionnaire, indicated at the start of the chapter. Where statistics are reported for subpopulations, the size of the subpopulation is reported in the same table or the preceding table for straightforward comparison.

Tabulations of continuous variables, where respondents were requested to provide a numeric response, appear similar to Table 2.2(b) and present the range and quartiles (25th percentile, median, 75th percentile) in order to illustrate the distribution of responses across the sample. Counts of non-response are listed in the table and excluded from the count of non-missing cases (N).



2 CHAPTER 2: CHARACTERISTICS OF HOUSEHOLDS

This chapter provides a descriptive summary of the basic demographic, socioeconomic, and environmental characteristics of the households sampled for the SMI-Honduras Baseline and Second Follow-up Household Survey.

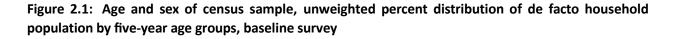
2.1 Characteristics of Participating Households

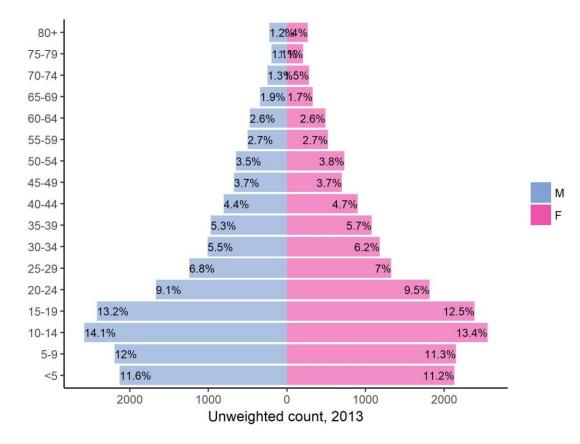
A total of 1,683 households in the Honduras second follow-up completed the household characteristics questionnaire. In the baseline, 1,525 completed the survey. The remainder of this chapter is dedicated to a summary of the basic demographic, socioeconomic, and environmental characteristics of the households completing the household characteristics questionnaire.

2.2 Age and Sex Composition, SMI Census

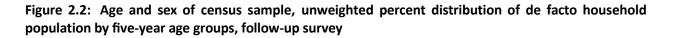
The unweighted distribution of the de facto household population in the surveyed households in the SMI-Honduras household census by five-year age groups and by sex is shown for baseline (Figure 2.1) and second follow-up (Figure 2.2). Honduras has a larger proportion of its population in the younger age groups than in the older age groups. Figure 2.2 indicates that in the second follow-up, just under 35% of the population in the Second Follow-up is under age 15 years, more than half (59%) of the population is in the economically productive age range (15-64), and the remaining 6% is age 65 and above.

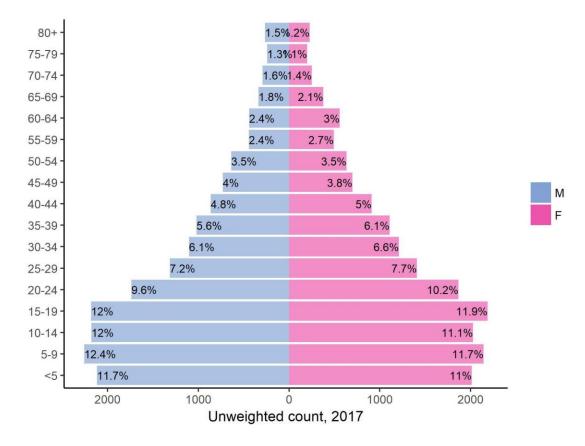












2.3 Household Characteristics, SMI Household Survey

The number of households, women and children in the sample are displayed in Table 2.1; and the percent distribution of households by head of household, number of usual members, and marital status are shown in Table 2.2.

Seventy seven percent of households in Honduras identify as dual-headed in the second follow-up. Males are the head of the household in 6.9% of surveyed households in Honduras, with females as the head of household in the remaining 16.4%. The median household size in Honduras is five members, with another 15% of households having six or more members.

| Table 2.1: SMI household survey sample sizes: number of total households, women 15-49 years of age, |
|---|
| and children 0-59 months |

| | Baseline 2013 | Second Follow-Up 2017 |
|------------|---------------|-----------------------|
| Households | 1525 | 1683 |
| Women | 1868 | 2124 |
| Children | 1622 | 1722 |



Table 2.2: Household characteristics, SMI household sample

| | Base | eline 20 | 13 | Second Follow-Up 2017 | | | |
|-----------------------|------|----------|-----|-----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| Head of household | | | | | | | |
| Dual-headed household | 1219 | 80.0 | 1.4 | 1267 | 76.7 | 1.7 | |
| Single head, female | 257 | 16.8 | 1.3 | 292 | 16.4 | 1.4 | |
| Single head, male | 49 | 3.2 | 0.5 | 124 | 6.9 | 1.0 | |

Dual-headed households are those where (a) two individuals were identified as "head" by the respondent or (b) both the person identified as "head" and his or her spouse or partner are household members

| | Ν | DK/DTR | Min | 25th Percentile | Median e | 75th Percentile | Max |
|--|------|--------|-----|--------------------|-------------|--------------------|-----|
| Baseline 2013 | | | | | | | |
| Number of usual household members | 1525 | 0 | 1 | 4 | 5 | 7 | 14 |
| Second follow-up 2017 Number of usual household members | 1683 | 0 | 1 | 4 | 5 | 6 | 17 |

2.4 Drinking Water Access and Treatment

2.4.1 Sanitation facilities and waste disposal

A household's source of drinking water is an important determinant of the health status of household members. Contaminated drinking water can spread waterborne diseases, such as diarrhea or dysentery. Piped water, protected wells, and protected springs are expected to be relatively free of these diseases; whereas other sources like unprotected wells, rainwater, or surface water are more likely to carry disease-causing agents.

The percent distribution of households by source of drinking water, location of water source, and information about sanitation facilities is shown in Table 2.3. The majority of surveyed households (71%) have water piped to dwelling, and 29% of households have to go outside their home or yard to a water source.

Many households (36.4%) use a pour flush toilet and 29.7% of households use a flush toilet. Fifteen percent of households report having no toilet, compared to 18.9% at baseline.



Table 2.3: Household water source and sanitation facilities

| | Base | eline 20 | 13 | Second | d Follow-L | Second Follow-Up 2017 | | | |
|---------------------------------|----------|----------|-----|--------|------------|-----------------------|--|--|--|
| | n | % | SE | n | % | SI | | | |
| Household water source | | | | | | | | | |
| Piped to dwelling | 1204 | 79.5 | 2.6 | 1203 | 71.0 | 3.2 | | | |
| Piped to yard/plot | 99 | 6.4 | 1.3 | 261 | 16.6 | 2.9 | | | |
| Protected dug well | 28 | 1.8 | 0.6 | 80 | 4.3 | 1.5 | | | |
| Unprotected dug well | 27 | 1.7 | 0.6 | 42 | 2.5 | 0.8 | | | |
| Bottled water | 29 | 1.5 | 0.6 | 24 | 1.3 | 0. | | | |
| Protected spring | 6 | 0.3 | 0.2 | 17 | 0.9 | 0.4 | | | |
| Unprotected spring | 20 | 1.3 | 0.4 | 12 | 0.6 | 0.3 | | | |
| Tubewell/borehole | 35 | 2.1 | 0.8 | 7 | 0.4 | 0. | | | |
| Rainwater collection | 0 | 0.0 | 0 | 5 | 0.4 | 0. | | | |
| Public tap/standpipe | 0 | 0.0 | 0 | 4 | 0.2 | 0. | | | |
| Surface water | 23 | 1.5 | 0.4 | 2 | 0.2 | 0. | | | |
| Water jug | 8 | 0.6 | 0.3 | 3 | 0.2 | 0. | | | |
| Tanker truck | 2 | 0.1 | 0.1 | 0 | 0.0 | | | | |
| Cart with small tank/drum | 0 | 0.0 | 0 | 0 | 0.0 | | | | |
| Other | 44 | 3.2 | 0.7 | 23 | 1.4 | 0.4 | | | |
| Don't know | 0 | 0 | 0 | 0 | 0 | | | | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | | | | |
| Time it takes to retrieve water | (min) | | | | | | | | |
| Water on premises | 1376 | 90.5 | 1.8 | 1569 | 93.9 | 1.4 | | | |
| Less than 30 minutes | 124 | 8.2 | 1.5 | 96 | 5.5 | 1. | | | |
| 30 minutes or longer | 20 | 1.3 | 0.4 | 13 | 0.6 | 0.4 | | | |
| Don't know | 5 | 0 | 0 | 5 | 0 | | | | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | | | | |
| Sanitation facilities | | | | | | | | | |
| Pour flush toilet | 596 | 40.1 | 2.6 | 589 | 36.4 | 2. | | | |
| Flush toilet | 372 | 22.5 | 2.7 | 538 | 29.7 | 2. | | | |
| Pit latrine | 273 | 17.3 | 2.7 | 289 | 16.5 | 2. | | | |
| No toilet | 266 | 18.9 | 2.0 | 217 | 14.7 | 2. | | | |
| Dry toilet | 12 | 0.9 | 0.3 | 29 | 1.5 | 0.4 | | | |
| Other | 5 | 0.3 | 0.1 | 20 | 1.2 | 0.4 | | | |
| Don't know | 1 | 0 | 0 | 1 | 0 | | | | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | | | | |
| | | | | | | | | | |
| | Baseline | 2013 | | Second | Follow-U | n 2017 | | | |

| | Baseline 2013 | | | | Second Follow-Up 2017 | | | | |
|--------------------------|---------------|------|-----|----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Shared toilet/facilities | 118 | 1253 | 9.7 | 1 | 142 | 1445 | 10.1 | 1.1 | |

2.4.2 Cooking fuel sources

Cooking fuel source and the location for cooking food are included in Table 2.4. The percentage of households with a separate kitchen is also shown. The two most commonly reported cooking fuel sources used in households during the second follow-up are wood (92.8%) and electricity (8.1%). Among those



households with non-missing responses as to what cooking fuel sources they use, 77.5% report normally cooking food in the house, 12.3% normally cook food in a separate building, and 10.2% normally cook food outdoors. Seventy nine percent of households have a separate kitchen.

| Table 2.4: Cooking fuel source and cooking locat | ion |
|--|-----|
|--|-----|

| | | Baseline | 2013 | | Second Follow-Up 2017 | | | | | |
|------------------------|------|----------|------|-----|-----------------------|------|------|-----|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| Wood | 1376 | 1525 | 91.6 | 1.4 | 1534 | 1683 | 92.8 | 1.3 | | |
| Electricity | 162 | 1525 | 9.8 | 1.3 | 162 | 1683 | 8.1 | 1.6 | | |
| Gas tank | 130 | 1525 | 7.4 | 1.6 | 122 | 1683 | 6.1 | 1.0 | | |
| Straw/twigs/grass | 0 | 1525 | 0.0 | 0 | 16 | 1683 | 1.0 | 0.4 | | |
| Coal | 10 | 1525 | 0.7 | 0.2 | 5 | 1683 | 0.3 | 0.1 | | |
| Agricultural crops | 0 | 1525 | 0.0 | 0 | 0 | 1683 | 0.0 | 0 | | |
| No food cooked at home | 0 | 1525 | 0.0 | 0 | 1 | 1683 | 0.0 | 0 | | |
| Other | 2 | 1525 | 0.1 | 0.1 | 0 | 1683 | 0.0 | 0 | | |

*categories not mutually exclusive (select all that apply)

| | Base | eline 20 | 13 | Second Follow-Up 2017 | | | | | |
|--|------|----------|-----|-----------------------|------|-----|--|--|--|
| | n | % | SE | n | % | SE | | | |
| Location for cooking food, if cooking fuel source reported | | | | | | | | | |
| Inside house | 1129 | 74.3 | 2.3 | 1318 | 77.5 | 2.5 | | | |
| In a separate building | 197 | 13.1 | 1.5 | 200 | 12.3 | 1.4 | | | |
| Outdoors | 194 | 12.6 | 1.3 | 165 | 10.2 | 1.4 | | | |
| Other | 1 | 0.1 | 0.1 | 0 | 0.0 | 0 | | | |
| Don't know | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Decline to respond | 1 | 0 | 0 | 0 | 0 | 0 | | | |

| | Baseline 2013 | | | | Second Follow-Up 2017 | | | | |
|---|---------------|------|------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Separate kitchen, if cooking fuel source reported and food cooked in the home | 911 | 1125 | 80.5 | 1.9 | 1048 | 1318 | 79.3 | 1.9 | |

2.4.3 Household wealth

The median number of bedrooms per household is less than two (Table 2.5). Sixteen percent of households in the second follow-up own agricultural land and 20.7% of households rent agricultural land (Table 2.6).

The availability of durable consumer goods is a good indicator of a household's socioeconomic status. Table 2.6 shows the availability of selected consumer goods by household. The large majority of households (75.6%) have electricity, and the most commonly owned items are mobile phone (74.3%), television (51.6%), and radio (48.6%). Many households (16.7%) own a bicycle and 13.9% own a motorcycle/scooter.



Table 2.5: Number of bedrooms per household

| | Ν | DK/DTR | Min | 25th Percentil | Median e | 75th Percentile | Max e |
|---|------|--------|-----|-------------------|-------------|--------------------|----------|
| Baseline 2013 | | | | | | | |
| Number of bedrooms | 1523 | 1 | 0 | 1 | 2 | 2 | 6 |
| Second follow-up 2017 Number of bedrooms | 1683 | 0 | 0 | 1 | 2 | 2 | 7 |

Table 2.6: Household assets

| | | Baseline | 2013 | | Seco | nd Follo | w-Up 20 |)17 |
|--------------------------------|---------|----------|------|-----|------|----------|---------|-----|
| | n | N | % | SE | n | Ν | % | SE |
| Household assets | | | | | | | | |
| Electricity | 1074 | 1524 | 69.2 | 4.6 | 1303 | 1683 | 75.6 | 3.3 |
| Mobile phone | 1135 | 1525 | 72.4 | 2.6 | 1257 | 1682 | 74.3 | 2.6 |
| Television | 835 | 1525 | 52.1 | 3.5 | 915 | 1683 | 51.6 | 3.4 |
| Radio | 1021 | 1525 | 67.6 | 2.0 | 814 | 1683 | 48.6 | 1.6 |
| Refrigerator | 539 | 1524 | 32.8 | 3.1 | 603 | 1682 | 32.8 | 3.1 |
| Sound system | 426 | 1525 | 25.2 | 2.3 | 366 | 1683 | 20.7 | 2.1 |
| Watch | 409 | 1525 | 24.4 | 1.8 | 330 | 1683 | 18.1 | 1.6 |
| Bank account | 223 | 1504 | 13.3 | 1.4 | 230 | 1673 | 13.4 | 1.3 |
| Guitar | 66 | 1525 | 4.0 | 0.6 | 62 | 1682 | 3.8 | 0.5 |
| Computer | 106 | 1524 | 5.7 | 1.0 | 69 | 1679 | 3.5 | 0.7 |
| Washing machine | 58 | 1524 | 3.0 | 0.8 | 58 | 1682 | 2.7 | 0.6 |
| Landline phone | 81 | 1525 | 4.0 | 1.0 | 23 | 1677 | 1.1 | 0.4 |
| Transportation assets | | | | | | | | |
| Bicycle | 312 | 1525 | 18.8 | 2.0 | 291 | 1682 | 16.7 | 1.9 |
| Motorcycle/scooter | 116 | 1525 | 7.2 | 1.1 | 235 | 1683 | 13.9 | 1.7 |
| Car | 159 | 1524 | 10.0 | 1.1 | 140 | 1683 | 8.0 | 1.2 |
| Truck | 12 | 1524 | 0.8 | 0.3 | 15 | 1682 | 0.8 | 0.2 |
| Animal cart | 8 | 1525 | 0.4 | 0.2 | 8 | 1683 | 0.4 | 0.1 |
| Agricultural assets: Livestock | ownersh | nip | | | | | | |
| Chickens | 1075 | 1525 | 70.7 | 2.8 | 1134 | 1682 | 68.4 | 2.7 |
| Horses, donkeys, or mules | 265 | 1524 | 17.5 | 1.8 | 222 | 1683 | 13.1 | 1.5 |
| Pigs | 243 | 1525 | 15.6 | 2.2 | 200 | 1683 | 12.0 | 1.5 |
| Cattle | 174 | 1523 | 10.6 | 1.2 | 132 | 1683 | 7.3 | 1.0 |
| Sheep or goats | 8 | 1524 | 0.4 | 0.2 | 7 | 1683 | 0.4 | 0.2 |



| Bas | eline 20 | 013 | Second Follow-Up 2017 | | | | | | | |
|--|--|---|--|---|--|--|--|--|--|--|
| n | % | SE | n | % | SE | | | | | |
| Agricultural assets: Own or rent agricultural land | | | | | | | | | | |
| 850 | 55.5 | 2.8 | 1050 | 61.5 | 2.7 | | | | | |
| 378 | 25.9 | 1.8 | 256 | 16.2 | 2.0 | | | | | |
| 276 | 18.1 | 2.1 | 350 | 20.7 | 2.2 | | | | | |
| 7 | 0.5 | 0.2 | 25 | 1.6 | 0.7 | | | | | |
| 10 | 0 | 0 | 2 | 0 | 0 | | | | | |
| 4 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | n gricult 850 378 276 7 10 | n % gricultural lan 850 55.5 378 25.9 276 18.1 7 0.5 10 0 | gricultural land 850 55.5 2.8 378 25.9 1.8 276 18.1 2.1 7 0.5 0.2 10 0 0 | n % SE n gricultural land 850 55.5 2.8 1050 378 25.9 1.8 256 276 18.1 2.1 350 7 0.5 0.2 25 10 0 0 2 | n % SE n % gricultural land 850 55.5 2.8 1050 61.5 378 25.9 1.8 256 16.2 276 18.1 2.1 350 20.7 7 0.5 0.2 25 1.6 10 0 0 2 0 | | | | | |

2.5 Household expenditure

2.5.1 Total expenditures by type

Households are surveyed about the amount of money spent over the last month. After reporting total household expenditures, households are then asked how much was spent on specific categories (e.g., food, housing, education, and medical care) over the last four weeks. Table 2.7 shows the itemized monthly expenditure per person living in the household summarized by expenditure quintile. All data are presented in current Lempira (L). Itemized expenditure information was sufficiently complete to report for 1555 households at the second follow-up. The lowest quintile in the study area spent less than 328 L per person over the last month in the second follow-up.

Table 2.8 shows the budget share, defined as the weighted average expenditure on each category across a quintile divided by the weighted average total itemized household expenditure in the same quintile. Table 2.8 shows that the poorest 20% of households in the study area spend 75.5% of their monthly expenditure on food, on average. In comparison, the wealthiest households spend 57% on food. The poorest households spent 1.8% of their expenditure on medical care, while the wealthiest spent 12.4%.

Table 2.7: Total itemized per- capita expenditure quintiles, Honduras Lempira

| | Ν | DK/DTR | p20 | p40 | p60 | p80 |
|---|------|--------|-----|-----|-----|------|
| Baseline 2013 | | | | | | |
| Per capita monthly household expenditure, current LCU | 1333 | 1 | 280 | 430 | 610 | 949 |
| Second follow-up 2017 | | | | | | |
| Per capita monthly household expenditure, current LCU | 1555 | 2 | 328 | 546 | 811 | 1238 |



| | Bottom quintile | 2nd quintile | 3rd quintile | 4th quintile | Top quintile |
|-----------------------------------|-----------------|--------------|--------------|-----------------|-----------------|
| Baseline 2013 | | | | | |
| Food | 83.3 | 75.5 | 75.7 | 70.1 | 60.9 |
| Alcoholic beverages and tobacco | 0.4 | 0.8 | 0.4 | 1.1 | 1.1 |
| Education expenses | 4.2 | 3.8 | 3.0 | 4.5 | 3.0 |
| Furniture and domestic appliances | 0.2 | 0.6 | 0.5 | 0.6 | 1.5 |
| Recreation | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 |
| Housing and utilities | 3.0 | 3.7 | 5.0 | 5.5 | 6.1 |
| Clothing and shoes | 2.1 | 5.7 | 6.6 | 6.6 | 7.7 |
| Transportation | 2.1 | 4.7 | 3.4 | 3.7 | 5.7 |
| Communication | 2.4 | 3.0 | 2.2 | 3.0 | 2.7 |
| Out-of-pocket medical expenses | 2.4 | 1.7 | 2.8 | 4.7 | 10.4 |
| Social security premiums | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Private insurance premiums | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Other costs to access health care | 0.0 | 0.2 | 0.2 | 0.1 | 0.4 |
| Second Follow-Up 2017 | | | | | |
| Food | 75.5 | 78.4 | 71.5 | 68.2 | 57.0 |
| Alcoholic beverages and tobacco | 0.3 | 0.7 | 1.0 | 0.4 | 0.8 |
| Education expenses | 6.3 | 5.0 | 5.6 | 5.2 | 4.7 |
| Furniture and domestic appliances | 0.3 | 0.2 | 0.1 | 0.4 | 1.7 |
| Recreation | 0.2 | 0.1 | 0.0 | 0.2 | 0.7 |
| Housing and utilities | 9.6 | 6.8 | 8.9 | 9.3 | 9.8 |
| Clothing and shoes | 1.9 | 3.2 | 5.4 | 7.8 | 6.5 |
| Transportation | 2.1 | 2.2 | 2.8 | 3.0 | 4.3 |
| Communication | 2.1 | 1.5 | 1.9 | 2.0 | 2.0 |
| Out-of-pocket medical expenses | 1.8 | 1.8 | 2.8 | 3.4 | 12.4 |
| Social security premiums | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 |
| Private insurance premiums | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other costs to access health care | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |

Table 2.8: Itemized household expenditure by total household budget share

2.5.2 Health expenditures

Of the 1555 households with expenditure data at the second follow-up, 278 reported having health expenditures in the last four weeks. Table 2.9 shows health expenditure by type among households reporting non-zero out-of-pocket health expenditure. Very few households had spending in each category.



| | Ν | DK/DTR | Min | 25th Percentile | Median | 75th Percentil | Max |
|---|-----|--------|-----|--------------------|--------|-------------------|-------|
| | | | | Percentile | 2 | Percentii | e |
| Baseline 2013 | | | | | | | |
| Care that required overnight stay in hospital/clinic | 325 | 1 | 0 | 0 | 0 | 0 | 50000 |
| Care by health professionals not requiring overnight stay | 326 | 0 | 0 | 0 | 0 | 0 | 25000 |
| Diagnostic and laboratory tests, X-rays, blood tests | 326 | 0 | 0 | 0 | 0 | 0 | 7000 |
| Other costs associated with overnight stay in hospital/clinic | 325 | 1 | 0 | 0 | 0 | 0 | 4000 |
| Medications prescribed by health personnel | 325 | 1 | 0 | 0 | 98.5 | 500 | 4000 |
| Dentists | 326 | 0 | 0 | 0 | 0 | 0 | 3000 |
| Care or non-prescription medications from pharmacist | 326 | 0 | 0 | 0 | 0 | 0 | 3000 |
| Other health care products or services | 326 | 0 | 0 | 0 | 0 | 0 | 2000 |
| Health products (glasses, hearing aids, prosthetics, etc.) | 326 | 0 | 0 | 0 | 0 | 0 | 1500 |
| Care by traditional/alternative healers/birth attendants | 326 | 0 | 0 | 0 | 0 | 0 | 600 |
| Second Follow-Up 2017 | | | | | | | |
| Care that required overnight stay in hospital/clinic | 278 | 0 | 0 | 0 | 0 | 0 | 5000 |
| Care by health professionals not requiring overnight stay | 274 | 4 | 0 | 0 | 0 | 0 | 2500 |
| Diagnostic and laboratory tests, X-rays, blood tests | 274 | 4 | 0 | 0 | 0 | 0 | 2000 |
| Other costs associated with overnight stay in hospital/clinic | 278 | 0 | 0 | 0 | 0 | 0 | 20000 |
| Medications prescribed by health personnel | 277 | 1 | 0 | 0 | 0 | 627.9 | 7000 |
| Dentists | 277 | 1 | 0 | 0 | 0 | 0 | 600 |
| Care or non-prescription medications from pharmacist | 278 | 0 | 0 | 0 | 0 | 50 | 6000 |
| Other health care products or services | 278 | 0 | 0 | 0 | 0 | 0 | 8000 |
| Health products (glasses, hearing aids, prosthetics, etc.) | 278 | 0 | 0 | 0 | 0 | 0 | 1300 |
| Care by traditional/alternative healers/birth attendants | 277 | 1 | 0 | 0 | 0 | 0 | 400 |

2.5.3 Source of health expenditure financing

Of the 1555 households with expenditure data at the second follow-up, 110 reported that members of the household went to a hospital and stayed overnight at least once during the last 12 months and paid for expenses associated with the overnight stays. The maximum paid for a hospital stay was 5000 L.

Table 2.10 shows the source and amount of financing for medical expenditures for overnight hospital stays. No single funding source was used by more than about 25% of households with hospital stays.



Table 2.10: Health care financing by source, last 12 months, Honduras Lempira

| | N | DK/DTR | Min | 25th N Percentile | 1edian | 75th Percentile | Ma |
|---|-----|--------|-----|----------------------|--------|--------------------|------|
| Baseline 2013 | | | | | | | |
| Loan from a source other than family or friends | 168 | 0 | 0 | 0 | 0 | 0 | 3500 |
| Remittances from family or friends abroad | 168 | 0 | 0 | 0 | 0 | 0 | 3000 |
| Any household member's current income | 167 | 1 | 0 | 0 | 0 | 1000 | 2200 |
| Savings | 167 | 1 | 0 | 0 | 0 | 0 | 2000 |
| Money from relatives or friends outside the household | 168 | 0 | 0 | 0 | 0 | 0 | 1800 |
| Social security payments | 167 | 1 | 0 | 0 | 0 | 0 | 700 |
| Property sold | 168 | 0 | 0 | 0 | 0 | 0 | 600 |
| Items sold | 167 | 1 | 0 | 0 | 0 | 0 | 500 |
| Reducing other household spending | 168 | 0 | 0 | 0 | 0 | 0 | 300 |
| Other source | 167 | 1 | 0 | 0 | 0 | 0 | 300 |
| Political donations or grants | 168 | 0 | 0 | 0 | 0 | 0 | 35 |
| Health insurance plan payment/reimbursement | 167 | 1 | 0 | 0 | 0 | 0 | |
| Conditional cash transfer programs | 168 | 0 | 0 | 0 | 0 | 0 | |
| econd Follow-Up 2017 | | | | | | | |
| Loan from a source other than family or friends | 110 | 0 | 0 | 0 | 0 | 0 | 2e+0 |
| Remittances from family or friends abroad | 110 | 0 | 0 | 0 | 0 | 0 | 3000 |
| Any household member's current income | 110 | 0 | 0 | 0 | 0 | 0 | 1500 |
| Savings | 110 | 0 | 0 | 0 | 0 | 2000 | 5e+0 |
| Money from relatives or friends outside the household | 110 | 0 | 0 | 0 | 0 | 0 | 2e+0 |
| Social security payments | 110 | 0 | 0 | 0 | 0 | 0 | 500 |
| Property sold | 110 | 0 | 0 | 0 | 0 | 0 | 5000 |
| Items sold | 110 | 0 | 0 | 0 | 0 | 0 | 100 |
| Reducing other household spending | 110 | 0 | 0 | 0 | 0 | 0 | 250 |
| Other source | 110 | 0 | 0 | 0 | 0 | 0 | 300 |
| Political donations or grants | 110 | 0 | 0 | 0 | 0 | 0 | |
| Health insurance plan payment/reimbursement | 110 | 0 | 0 | 0 | 0 | 0 | 500 |
| Conditional cash transfer programs | 110 | 0 | 0 | 0 | 0 | 0 | 1200 |



3 CHAPTER 3: GENERAL CHARACTERISTICS OF RESPONDENTS

This chapter summarizes the demographic characteristics, socioeconomic status, and health status of women of reproductive age (15-49 years) participating in the SMI-Honduras second follow-up household survey.

3.1 Demographic Characteristics

3.1.1 Age, marital status, relation to head of household

The age distribution of the de facto population of women of reproductive age participating in the women's health or pregnancy interviews in Honduras is shown in Figure 3.1 by five-year age groups. About 60% of all women participating in the second follow-up SMI-Honduras household survey were younger than 30 years of age, 27% were between the ages of 30 and 39, and 13% were between the ages of 40 and 49. While 25% of women reported being married and 44% being partnered, 27% indicated they were never married. Twenty percent of women were reported at the SMI-Honduras census to be the head of household, 30.1% to be the spouse of the head of the household, and 26.8% to be the biological child of the head of the household.

Figure 3.1: Age of respondents, unweighted

One woman who participated in the baseline interview was excluded because she was unable to provide her age or an estimate of her age.

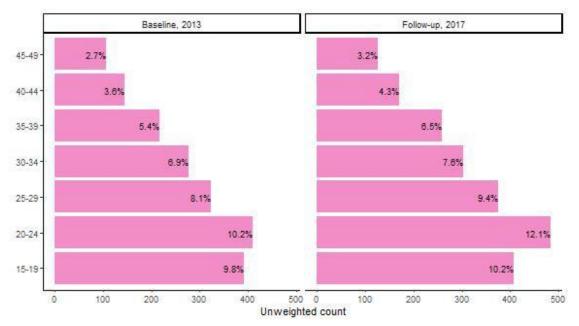




Table 3.1: Demographic characteristics of respondents

| | Baselir | ne 2013 | Second Fo | ollow-Up 2017 |
|---------------------------------|----------|---------|-----------|---------------|
| | n | % | n | 9 |
| Marital status | | | | |
| Single | 577 | 30.9 | 604 | 28.4 |
| Married | 563 | 30.1 | 516 | 24.3 |
| Civil union/partnered | 657 | 35.2 | 906 | 42.7 |
| Divorced | 1 | 0.1 | 4 | 0.2 |
| Separated | 50 | 2.7 | 74 | 3.5 |
| Widowed | 19 | 1.0 | 20 | 0.9 |
| Other | 1 | 0.1 | 0 | 0.0 |
| Don't know | 0 | 0.0 | 0 | 0.0 |
| Decline to respond | 0 | 0.0 | 0 | 0.0 |
| Respondent's relationship to he | ad of ho | usehold | | |
| Head of household | 169 | 9.0 | 431 | 20.3 |
| Spouse | 530 | 28.4 | 639 | 30.1 |
| Biological child | 487 | 26.1 | 570 | 26.8 |
| Adopted or stepchild | 13 | 0.7 | 17 | 0.8 |
| Grandchild | 35 | 1.9 | 48 | 2.3 |
| Niece/nephew | 13 | 0.7 | 11 | 0.5 |
| Parent | 3 | 0.2 | 0 | 0.0 |
| Sibling | 17 | 0.9 | 11 | 0.5 |
| Daughter-in-law/son-in-law | 108 | 5.8 | 97 | 4.6 |
| Sister-in-law/brother-in-law | 12 | 0.6 | 5 | 0.2 |
| Grandparent | 0 | 0.0 | 0 | 0.0 |
| Mother-in-law/father-in-law | 0 | 0.0 | 2 | 0.1 |
| Other relative | 9 | 0.5 | 9 | 0.4 |
| Unrelated person | 16 | 0.9 | 13 | 0.6 |
| Partner | 452 | 24.2 | 261 | 12.3 |
| 0 | 3 | 0.2 | 7 | 0.3 |
| Other | 1 | 0.1 | 3 | 0.2 |
| Don't know | 0 | 0.0 | 0 | 0.0 |
| Decline to respond | 0 | 0.0 | 0 | 0.0 |

*At baseline, marital status is reported by the respondent in the Census. In the second follow-up, marital status is reported by the woman at the start of the Household Survey

* "-" represents women who were missed in the census and added individually into the household survey, so relationship to the head of household was not registered.

3.2 Education Attainment and Literacy

Eighty eight percent of second follow-up survey participants had some formal education (Table 3.2). For 69.2% of these women, the highest level of education completed was primary schooling. Literacy was assessed by asking respondents to read from a card the following sentence: "La salud del niño es muy importante para su desarrollo en la vida." Seventy six percent of women surveyed were able to read the whole sentence. Fourteen percent of women could not read the sentence at all.



Table 3.2: Education attainment and literacy

| | | Baseline | 2013 | | Seco | nd Follov | w-Up 20 |)17 |
|--------------------------|------|----------|------|-----|------|-----------|---------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Ever attended school | 1685 | 1846 | 89.2 | 1.4 | 1932 | 2124 | 88.5 | 1.7 |
| Attended literacy course | 362 | 1847 | 20.8 | 2.4 | 247 | 2117 | 10.7 | 1.4 |

| | Base | eline 20 | 13 | Second | d Follow- | -Up 2017 |
|----------------------------|----------|----------|-----|--------|-----------|----------|
| | n | % | SE | n | % | SE |
| Educational attainment and | literacy | | | | | |
| Primary | 1240 | 70.2 | 3.0 | 1304 | 69.2 | 3.1 |
| Secondary | 201 | 12.5 | 1.4 | 292 | 13.5 | 1.5 |
| High school | 208 | 15.4 | 2.1 | 265 | 13.2 | 2.1 |
| University | 33 | 1.9 | 0.6 | 69 | 4.2 | 1.3 |
| Don't know | 3 | 0 | 0 | 2 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 |
| Literacy | | | | | | |
| Can read entire sentence | 1212 | 65.1 | 2.6 | 1642 | 75.8 | 2.6 |
| Cannot read at all | 240 | 15.6 | 1.9 | 243 | 13.7 | 1.9 |
| Can read parts | 386 | 19.0 | 1.6 | 229 | 10.4 | 1.3 |
| Visually impaired | 4 | 0.4 | 0.3 | 6 | 0.2 | 0.1 |
| Don't know | 4 | 0 | 0 | 4 | 0 | 0 |
| Decline to respond | 1 | 0 | 0 | 0 | 0 | 0 |

3.3 Employment

As summarized in Table 3.3, the vast majority of respondents in the second follow-up were homemakers (76.3%). Of the 203 women who reported being employed and working at the time of the interview, most (91.2%) identified "Employee" as their occupational role.



Table 3.3: Employment

| | Base | eline 20 | 13 | Second | d Follow | -Up 2017 |
|--|---------|----------|--------|--------|----------|----------|
| | n | % | SE | n | % | SE |
| Employment status | | | | | | |
| Homemaker | 1526 | 80.4 | 2.5 | 1701 | 76.3 | 2.4 |
| Employed/paid for work | 182 | 11.7 | 2.3 | 203 | 9.7 | 1.3 |
| Student | 105 | 5.8 | 1.0 | 135 | 8.5 | 1.5 |
| Self-employed | 0 | 0.0 | 0 | 58 | 4.0 | 0.8 |
| Employed, but did not work in last week | 3 | 0.1 | 0.1 | 6 | 0.7 | 0.4 |
| Employed by a family member without pay | 19 | 1.3 | 0.4 | 15 | 0.4 | 0.2 |
| Retired | 2 | 0.1 | 0.0 | 2 | 0.2 | 0.2 |
| Unable to work due to disability | 7 | 0.7 | 0.4 | 3 | 0.2 | 0.2 |
| Don't know | 3 | 0 | 0 | 0 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 1 | 0 | 0 |
| Occupational role, among women employed an | d being | paid for | r work | | | |
| Employee | 157 | 82.9 | 5.5 | 190 | 91.2 | 4.5 |
| Proprietor | 12 | 8.8 | 4.0 | 7 | 7.3 | 4.6 |
| Independent contractor | 6 | 1.3 | 0.6 | 5 | 1.6 | 0.8 |
| Employer | 7 | 7.0 | 3.9 | 0 | 0.0 | 0 |
| Don't know | 0 | 0 | 0 | 1 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 |

* Self-employed option was not included in the baseline survey

3.4 Exposure to Mass Media

Respondents were asked about their exposure to newspapers, radio, and television. As displayed in Table 3.4, among women who demonstrated full or partial literacy in the second follow-up, 22.3% had weekly exposure to newspapers. Forty eight percent of all women had weekly exposure to radio, and 55.2% had weekly exposure to television.



Table 3.4: Exposure to mass media

| | Base | eline 20 | 13 | Second | d Follow- | Up 2017 |
|--------------------------|---------|----------|-----|--------|-----------|---------|
| | n | % | SE | n | % | SE |
| Newspapers, among litera | te wome | en | | | | |
| Never | 580 | 34.3 | 2.6 | 1145 | 59.7 | 2.6 |
| At least once a week | 548 | 36.5 | 2.6 | 388 | 22.3 | 2.3 |
| Less than once a week | 428 | 29.2 | 2.4 | 334 | 18.0 | 1.6 |
| Don't know | 5 | 0 | 0 | 3 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 |
| Not applicable | 37 | 0 | 0 | 1 | 0 | 0 |
| Radio | | | | | | |
| At least once a week | 1196 | 66.0 | 1.9 | 993 | 47.8 | 2.2 |
| Never | 287 | 15.5 | 1.5 | 766 | 36.0 | 2.2 |
| Less than once a week | 350 | 18.4 | 1.6 | 353 | 16.2 | 1.4 |
| Don't know | 0 | 0 | 0 | 4 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 |
| Not applicable | 14 | 0 | 0 | 8 | 0 | 0 |
| Television | | | | | | |
| At least once a week | 978 | 53.9 | 3.3 | 1142 | 55.2 | 3.2 |
| Never | 615 | 33.8 | 3.6 | 773 | 35.4 | 3.5 |
| Less than once a week | 221 | 12.3 | 1.2 | 192 | 9.4 | 1.1 |
| Don't know | 1 | 0 | 0 | 7 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 |
| Not applicable | 32 | 0 | 0 | 10 | 0 | 0 |

3.5 Access to Health Services

3.5.1 Proximity to health care facilities

Table 3.5 - Table 3.7 display the responses to several survey questions that were used to assess access to health care facilities. Respondents were asked to estimate proximity to health care facilities in terms of distance (kilometers) and travel time. Not surprisingly, respondents typically had more difficulty estimating distance to health care facilities. As shown in the tables below, "Don't know" responses to the distance questions were exceedingly common.

Excluding the 805 women who were unable to estimate the distance to the closest health facility in the second follow-up, 75% of women reported living 5 kilometers or less from a health facility (Table 3.5). Three-quarters of the sample indicated that it took less than 60 minutes to reach this facility by the usual means of transportation. One-quarter estimated the travel time from their household to the closest health facility to be 60 minutes or more.

Women were also asked for the travel distance and time to their usual health facility, if they had a usual health facility. Excluding the 678 women who did not know the distance to the facility in the second follow-up, three-quarters of the women reported traveling up to 5 kilometers, and three-quarters of the women could travel to the closest facility in less than 30 minutes (Table 3.6).

Of the 1,432 women who reported a recent health facility visit for themselves or for family members in the second follow-up, three-quarters traveled less than 5 kilometers for care. Twenty-five percent of women traveled 5 to 300 kilometers for care. Half of women traveled for less than 30 minutes, and one-quarter spent 60 minutes or more traveling for care. The longest travel time reported for a recent illness was approximately 40 hours.

Table 3.5: Proximity to health care facilities: nearest health facility

| | N | DK/DTR | Min | 25th | Median | 75th | Max |
|--------------------|------|--------|-----|-----------|--------|-----------|------|
| | | | | Percentil | e | Percentil | е |
| | | | | | | | |
| Baseline 2013 | | | | | | | |
| Distance, km | 468 | 1379 | 0 | 1 | 2 | 5 | 60 |
| Travel time, min | 1772 | 26 | 1 | 10 | 20 | 60 | 5400 |
| Second Follow-Up 2 | 017 | | | | | | |
| Distance, km | 1319 | 805 | 0 | 1 | 2 | 5 | 200 |
| Travel time, min | 2042 | 12 | 1 | 10 | 30 | 60 | 2700 |

Table 3.6: Proximity to health care facilities: usual health facility

| | N | DK/DTR | Min | 25th Percentil | Median e | 75th Percentile | Max e |
|----------------------------------|--------------|------------|--------|-------------------|-------------|--------------------|-----------|
| Baseline 2013 | | | | | | | |
| Distance, km Travel time, min | 438 1186 | 1271 13 | 0 1 | 1 5 | 2 15 | 4.9 30 | 100 45 |
| Second Follow-Up 2 | 017 | | | | | | |
| Distance, km Travel time, min | 1155 1204 | 678 11 | 0 1 | 1 10 | 2 15 | 5 30 | 200 50 |

Table 3.7: Proximity to health care facilities: health facility for recent illness

| | Ν | DK/DTR | Min | 25th | Median | 75th | Max | |
|--------------------|------|--------|-----|-----------|--------|------------|------|--|
| | | | | Percentil | e | Percentile | | |
| Baseline 2013 | | | | | | | | |
| Distance, km | 312 | 730 | 0 | 1 | 2 | 5 | 68 | |
| Travel time, min | 1010 | 4 | 1 | 10 | 20 | 60 | 1800 | |
| Second Follow-Up 2 | 017 | | | | | | | |
| Distance, km | 908 | 513 | 0 | 1 | 2 | 5 | 300 | |
| Travel time, min | 1383 | 9 | 1 | 10 | 30 | 60 | 2400 | |



SE

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3.6 **Health Status**

3.6.1 Current health status

Table 3.8 shows the self-rated current health status of all women participating in the survey. When asked to evaluate their current health status relative to the past year, 50.4% reported that their health was "about the same" in the second follow-up. While 39.2% reported that their health had improved, 10.4% reported worse health on the day of the interview, compared to last year. Eighty two percent could "easily" perform their daily activities (e.g., work, housework, and childcare). About 18% of women reported at least some degree of difficulty performing these tasks that was related to their health status.

Baseline 2013 Second Follow-Up 2017 % SE % n n Current health relative to last year Better 829 39.2 1.8 728 40.1 2.1 Worse 146 9.6 1.2 231 10.4 1.1 About the same 969 50.3 2.2 1062 50.4 1.9 Don't know 4 0 0 2 0 Decline to respond 0 0 0 0 0 Ability to perform daily activities Easily 1661 88.4 1.4 1743 82.4 1.6 With some difficulty 167 10.3 1.2 335 15.4 1.4 With much difficulty 18 1.3 0.5 45 2.1 0.6 Unable to do 1 0.0 0 0 0.0 Don't know 0 0 0 1 0 Decline to respond 0 0 0 0 0

Table 3.8: Current health status



| | Base | eline 20 | 13 | Second | d Follow | -Up 2017 |
|------------------------|----------|----------|---------|----------|----------|----------|
| | n | % | SE | n | % | SE |
| Days in the last month | that phy | sical he | alth w | as not g | ood | |
| No days | 1492 | 77.7 | 2.1 | 1467 | 67.7 | 1.9 |
| 1 to 3 days | 105 | 5.1 | 0.7 | 261 | 11.8 | 1.3 |
| 4 to 7 days | 244 | 17.2 | 1.9 | 394 | 20.5 | 1.5 |
| 7 to 29 days | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| All month | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Don't know | 6 | 0 | 0 | 2 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 |
| Days in the last month | that me | ntal hea | alth wa | s not go | od | |
| No days | 1593 | 84.4 | 1.7 | 1709 | 77.8 | 1.7 |
| 1 to 3 days | 99 | 6.2 | 0.9 | 158 | 8.4 | 1.0 |
| 4 to 7 days | 151 | 9.4 | 1.3 | 251 | 13.7 | 1.4 |
| 7 to 29 days | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| All month | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Don't know | 4 | 0 | 0 | 5 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 1 | 0 | 0 |

3.6.2 Recent illness

Women were asked a series of questions about any illnesses or health problems they had in the two weeks preceding the interview. Out of the women in the second follow-up, 17.5% reported being sick during that time (Table 3.9). Of the 324 women who reported a recent illness, headache (25.5%), cough (11%), fever (10.6), and abdominal pain (9.4%) were the most commonly elicited specific complaints. Thirty percent of women specified a different health problem not listed in the questionnaire.

Table 3.9: Recent illness (in the last two weeks)

| | Baseline 2013 Second Follow-Up 2017 | | | | 017 | | | |
|---|-------------------------------------|------|------|----|-----|------|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Respondent was sick during the past two weeks | 403 | 1847 | 24.3 | 2 | 324 | 2122 | 17.5 | 1.5 |



| | Bas | eline 20 | 013 | | Second | Follow-Up 2017 |
|--------------------------------------|----------|----------|-------|----|--------|----------------|
| | n | % | SE | n | % | S |
| Type of illness, among those sick in | n the pa | ast two | weeks | | | |
| Headache | 112 | 27.9 | 3.5 | 78 | 25.5 | 3. |
| Cough | 52 | 11.1 | 2.4 | 42 | 11.0 | 2. |
| Fever | 51 | 11.7 | 2.4 | 41 | 10.6 | 2. |
| Abdominal pain | 29 | 7.8 | 2.2 | 31 | 9.4 | 2. |
| Swelling in legs, ankles, or feet | 0 | 0.0 | 0 | 7 | 2.5 | 1. |
| Gynecologic problem | 9 | 1.8 | 0.7 | 9 | 2.4 | 1. |
| Obstetric problem | 2 | 0.3 | 0.2 | 1 | 2.3 | 2. |
| Skin rash/infection | 7 | 1.0 | 0.4 | 4 | 2.1 | 1. |
| Anemia | 1 | 0.1 | 0.1 | 1 | 1.0 | 1. |
| Stroke | 0 | 0.0 | 0 | 1 | 1.0 | 1. |
| Bronchitis | 0 | 0.0 | 0 | 1 | 0.6 | 0. |
| Toothache | 6 | 0.7 | 0.3 | 3 | 0.5 | 0. |
| Asthma | 7 | 3.6 | 2.0 | 2 | 0.3 | 0. |
| Eye/ear infection | 5 | 0.5 | 0.2 | 2 | 0.3 | 0. |
| Hypertension | 9 | 3.7 | 1.9 | 2 | 0.3 | 0. |
| Diabetes | 4 | 1.9 | 1.2 | 2 | 0.3 | 0. |
| Diarrhea with vomiting | 3 | 0.3 | 0.2 | 1 | 0.1 | 0. |
| Malaria | 0 | 0.0 | 0 | 0 | 0.0 | |
| Tuberculosis | 0 | 0.0 | 0 | 0 | 0.0 | |
| Pneumonia | 0 | 0.0 | 0 | 0 | 0.0 | |
| Diarrhea without blood | 5 | 0.7 | 0.3 | 0 | 0.0 | |
| Diarrhea with blood | 1 | 1.0 | 1.0 | 0 | 0.0 | |
| Vomiting | 3 | 0.4 | 0.2 | 0 | 0.0 | |
| Measles | 0 | 0.0 | 0 | 0 | 0.0 | |
| Jaundice | 0 | 0.0 | 0 | 0 | 0.0 | |
| HIV/AIDS | 0 | 0.0 | 0 | 0 | 0.0 | |
| Paralysis | 0 | 0.0 | 0 | 0 | 0.0 | |
| Chest infection | 0 | 0.0 | 0 | 0 | 0.0 | |
| Blood in urine | 0 | 0.0 | 0 | 0 | 0.0 | |
| Other | 94 | 25.5 | 3.7 | 95 | 29.9 | 4. |
| Don't know | 1 | 0 | 0 | 1 | 0 | |
| Decline to respond | 2 | 0 | 0 | 0 | 0 | |

Options for "Swelling in legs, ankles, or feet", "Blood in urine", and "Chest infection" were available only in the follow-up survey. In the baseline, "Chest infection" was included within the "Cough" answer choice.

3.6.3 Utilization of health services

Table 3.10 summarizes data regarding the utilization of health services among the 324 women who reported an illness in the two weeks preceding the second follow-up interview. One hundred twelve (38.1%) of these women sought care at a health care facility. Many of these women attended a CESAMO health unit (62.3%); another 21.4% attended a CESAR clinic. Only two women were hospitalized for their recent illness (8.1% of those who sought care).



| | | Baselin | e 2013 | | Second Follow-Up 20 | | | | | |
|--|---|---------|-------------|----|---------------------|-----------|-------------|-----|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| Sought care for recent illness Admitted to hospital for care* | | | 31.5 0.0 | | | 324 23 | 38.1 8.1 | 4.9 | | |

Table 3.10: Utilization of health services for illness in the last two weeks

Among women who sought care at a public or private hospital, health center/clinic, mobile clinic, or other health facility; public health unit; private office; or pharmacy

| | Ba | seline 2 | 013 | Seco | ond Follow | w-Up 2017 |
|---------------------------------|-------|----------|-----|------|------------|-----------|
| | n | % | SE | n | % | SE |
| Type of facility where care was | sough | t | | | | |
| CESAMO | 39 | 26.2 | 6.3 | 63 | 62.3 | 8.4 |
| CESAR | 62 | 41.6 | 7.5 | 24 | 21.4 | 8.4 |
| Private health clinic | 5 | 4.0 | 2.4 | 7 | 7.1 | 3.9 |
| Public hospital | 6 | 2.7 | 1.3 | 5 | 4.3 | 2.3 |
| Private doctor's office | 10 | 13.6 | 5.4 | 9 | 3.5 | 1.4 |
| Private hospital | 3 | 1.8 | 1.2 | 1 | 0.6 | 0.6 |
| Pharmacy | 4 | 1.5 | 1.0 | 1 | 0.5 | 0.5 |
| СМІ | 1 | 1.9 | 1.8 | 1 | 0.4 | 0.4 |
| Public mobile clinic | 1 | 0.6 | 0.6 | 0 | 0.0 | (|
| Other public health facility | 1 | 0.4 | 0.4 | 0 | 0.0 | (|
| Private mobile clinic | 1 | 0.4 | 0.4 | 0 | 0.0 | (|
| Other private health facility | 0 | 0.0 | 0 | 0 | 0.0 | (|
| Community health worker | 0 | 0.0 | 0 | 0 | 0.0 | (|
| Traditional healer | 1 | 0.4 | 0.4 | 0 | 0.0 | (|
| Other | 2 | 5.0 | 4.6 | 0 | 0.0 | (|
| Don't know | 0 | 0 | 0 | 1 | 0 | (|
| Decline to respond | 0 | 0 | 0 | 0 | 0 | (|

* Women who attended care at a CESAMO or CESAR were not asked about hospitalization.

3.6.4 Insurance coverage

Less than 1% of women reported being covered by any type of health insurance in the second follow-up (Table 3.11).



Table 3.11: Insurance coverage

| | Base | eline 20 | 13 | Second | d Follow- | Up 2017 |
|--------------------|------|----------|-----|--------|-----------|---------|
| | n | % | SE | n | % | SE |
| No insurance | 1831 | 99.3 | 0.4 | 2103 | 99.4 | 0.2 |
| IHSS | 10 | 0.6 | 0.4 | 9 | 0.3 | 0.1 |
| Private insurance | 2 | 0.0 | 0 | 7 | 0.2 | 0.1 |
| Armed forces | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other | 1 | 0.1 | 0.1 | 3 | 0.1 | 0.0 |
| Don't know | 3 | 0 | 0 | 2 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 |

3.6.5 Other barriers to health care access

There are many other barriers to accessing health care. Women who reported that they sometimes or never sought care when they felt sick were asked what reasons prevented them from receiving health care when it was needed. Interviewers were instructed to ask in an open-ended manner for all applicable reasons, and to mark the appropriate response options in the questionnaire based on the woman's response. Table 3.12 summarizes the responses to this section. The most commonly cited factors influencing health care access in the second follow-up were the preference for treatment at home (27.9%) and the belief that the health center does not have sufficient medicines (26.6%). Seventeen percent of women did not believe they were ill enough to seek treatment. Access and quality of care were also important barriers: 15.6% of women said the health center was too far away, 7.2% said care was too expensive, and 5.2% said the health center personnel were too difficult to deal with.



Table 3.12: Other barriers to health care utilization, women 15-49 years of age who were sick in the last two weeks but did not seek care

| | | Baselin | e 2013 | | Seco | ond Fol | low-Up | 2017 |
|--|-----|---------|--------|-----|------|---------|--------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Treated self at home | 144 | 266 | 53.3 | 6.0 | 62 | 209 | 27.9 | 5.1 |
| Health center does not have sufficient medicines | 23 | 266 | 9.2 | 2.7 | 45 | 209 | 26.6 | 5.2 |
| Not sick enough to seek treatment | 53 | 266 | 20.2 | 4.0 | 25 | 209 | 16.9 | 4.9 |
| Health center is too far away | 26 | 266 | 9.5 | 2.8 | 34 | 209 | 15.6 | 3.6 |
| Too busy with work, children, or other commitments | 15 | 266 | 4.3 | 1.6 | 38 | 209 | 14.5 | 3.5 |
| Care is too expensive | 18 | 266 | 10.1 | 4.1 | 8 | 209 | 7.2 | 3.5 |
| It is difficult to deal with health center personnel | 0 | 266 | 0.0 | 0 | 12 | 209 | 5.2 | 2.0 |
| Health center is not well-equipped | 1 | 266 | 0.2 | 0.2 | 4 | 209 | 4.4 | 2.8 |
| Tried, but was refused care | 0 | 266 | 0.0 | 0 | 5 | 209 | 4.0 | 2.8 |
| Did not want to go alone | 6 | 266 | 1.0 | 0.4 | 7 | 209 | 2.2 | 0.9 |
| Could not afford transportation | 4 | 266 | 2.6 | 2.1 | 5 | 209 | 2.1 | 1.1 |
| Health center infrastructure is poor | 0 | 266 | 0.0 | 0 | 4 | 209 | 1.7 | 1.2 |
| Health center personnel not knowledgeable | 0 | 266 | 0.0 | 0 | 3 | 209 | 1.3 | 0.9 |
| Could not find transportation | 4 | 266 | 2.0 | 1.5 | 3 | 209 | 1.1 | 0.7 |
| Was previously mistreated | 1 | 266 | 1.8 | 1.7 | 4 | 209 | 0.9 | 0.5 |
| Do not trust the personnel | 6 | 266 | 1.9 | 1.1 | 3 | 209 | 0.6 | 0.4 |
| Tried, but no staff was at the center | 10 | 266 | 2.1 | 0.8 | 1 | 209 | 0.3 | 0.3 |
| Did not know where to go | 2 | 266 | 0.7 | 0.5 | 0 | 209 | 0.0 | (|
| Could not get permission to go to the doctor | 2 | 266 | 0.4 | 0.3 | 0 | 209 | 0.0 | (|
| Religious or cultural beliefs | 0 | 266 | 0.0 | 0 | 0 | 209 | 0.0 | (|
| Other | 10 | 266 | 5.1 | 2.2 | 44 | 209 | 20.9 | 5.0 |

*categories not mutually exclusive (select all that apply)



4 CHAPTER 4: EXPOSURE TO HEALTH SYSTEM INTERVENTIONS

This chapter summarizes the exposure of women to four health system interventions: community health worker interventions, breastfeeding interventions, child nutrition interventions, and child health interventions.

4.1 Exposure to Community Health Workers

Respondents were asked about their exposure to community health workers. Nine percent of women reported meeting with a community health worker in the month preceding the second follow-up interview (Table 4.1). Eight percent met only once, and 1.3% met two or more times.

Table 4.1: Exposure to community health workers, women 15-49 years

| | Base | eline 20 | 13 | Second Follow-Up 2017 | | | | |
|--------------------|------|----------|-----|-----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| Did not meet | 1689 | 94.5 | 1.0 | 1911 | 90.7 | 1.2 | | |
| One time | 112 | 4.4 | 0.8 | 160 | 8.1 | 1.1 | | |
| Two times | 15 | 0.9 | 0.4 | 27 | 0.9 | 0.2 | | |
| Three times | 4 | 0.1 | 0.1 | 7 | 0.3 | 0.2 | | |
| Four or more times | 3 | 0.1 | 0.0 | 2 | 0.1 | 0.0 | | |
| Don't know | 21 | 0 | 0 | 17 | 0 | 0 | | |
| Decline to respond | 1 | 0 | 0 | 0 | 0 | 0 | | |

Referral and advice services provided by community health workers are summarized in Table 4.2. Among women who met with a community health worker in the last month during the second follow-up, family planning methods or counseling was the most common service provided (40%). Advice about child nutrition counseling (37.9%) and vaccination for children (33.8%) was also frequently reported.

Table 4.2: Services provided by community health workers, women 15-49 years

| | | Baseli | ne 2013 | | Seco | ond Fol | low-Up | 2017 |
|---|----|--------|---------|-----|------|---------|--------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Family planning methods or counseling | 49 | 138 | 34.7 | 6.4 | 88 | 201 | 40.0 | 6.7 |
| Child nutrition counseling | 54 | 138 | 30.5 | 5.4 | 85 | 202 | 37.9 | 4.9 |
| Vaccination for children | 63 | 138 | 37.8 | 5.7 | 98 | 202 | 33.8 | 5.1 |
| Information, education, and communication sessions (IEC) | 11 | 138 | 10.5 | 4.8 | 40 | 201 | 17.9 | 4.6 |
| Referral for antenatal care | 17 | 138 | 11.8 | 3.4 | 42 | 201 | 16.1 | 3.6 |
| Referral for postnatal care | 10 | 136 | 6.0 | 2.3 | 45 | 201 | 16.1 | 3.3 |
| Referral for voluntary HIV/syphilis counseling and testing* | 12 | 138 | 14.3 | 5.9 | 37 | 201 | 11.7 | 2.9 |
| Referral for in-facility delivery | 13 | 137 | 7.2 | 2.0 | 28 | 201 | 9.2 | 2.6 |

* For the prevention of HIV/syphilis transmission from mother to child



| | Second Follow-Up 2017 | | | | | | | |
|--------------------------------------|-----------------------|-----|------|-----|--|--|--|--|
| | n | Ν | % | SE | | | | |
| Micronutrients | 73 | 201 | 27.6 | 5.0 | | | | |
| Deworming | 64 | 202 | 23.8 | 5.0 | | | | |
| Diarrhea treatment with ORS and zinc | 53 | 201 | 19.9 | 4.5 | | | | |
| Other | 30 | 200 | 20.5 | 5.5 | | | | |

Questions about these topics were not asked at baseline. They were added to the second follow-up survey to track exposure to SMI interventions.

4.2 Satisfaction with Community Health Workers

Women who met with a community health worker in the month preceding the interview were asked to assess their satisfaction with the following: number of visits, information provided by community health workers, and respectfulness of community health workers. Results are displayed in Table 4.3.



| | Ва | seline 2 | 013 | Seco | ond Follo | w-Up 2017 | | | | |
|--|--------|----------|-------|----------|-----------|-------------|--|--|--|--|
| | n | % | SE | n | % | SE | | | | |
| Satisfaction with numb | er vis | its from | comn | nunity l | nealth w | orkers | | | | |
| Very dissatisfied | 30 | 23.5 | 5.5 | 17 | 9.9 | 4.4 | | | | |
| Dissatisfied | 7 | 3.6 | 1.3 | 8 | 7.3 | 3.9 | | | | |
| Satisfied | 94 | 67.3 | 5.3 | 157 | 75.4 | 5.8 | | | | |
| Very satisfied | 12 | 5.7 | 1.9 | 21 | 7.4 | 2.2 | | | | |
| Don't know | 4 | 0 | 0 | 1 | 0 | 0 | | | | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | C | | | | |
| Satisfaction of knowledge and training of community health workers | | | | | | | | | | |
| Very dissatisfied | 27 | 22.2 | 5.7 | 18 | 12.1 | 5.2 | | | | |
| Dissatisfied | 12 | 6.3 | 1.7 | 6 | 2.1 | 0.9 | | | | |
| Satisfied | 89 | 65.2 | 5.5 | 154 | 77.2 | 5.9 | | | | |
| Very satisfied | 13 | 6.3 | 1.8 | 25 | 8.6 | 2.3 | | | | |
| Don't know | 6 | 0 | 0 | 1 | 0 | C | | | | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | C | | | | |
| Satisfaction with inform | natior | n provid | ed by | commu | nity hea | Ith workers | | | | |
| Very dissatisfied | 29 | 23.3 | 5.6 | 19 | 14.1 | 5.5 | | | | |
| Dissatisfied | 7 | 3.4 | 1.3 | 4 | 1.4 | 0.7 | | | | |
| Satisfied | 90 | 65.2 | 5.5 | 156 | 75.9 | 6.1 | | | | |
| Very satisfied | 15 | 8.0 | 2.4 | 24 | 8.6 | 2.4 | | | | |
| Don't know | 6 | 0 | 0 | 1 | 0 | C | | | | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Satisfaction with respe | ctfuln | ess sho | wn by | commu | inity hea | Ith workers | | | | |
| Very dissatisfied | 28 | 22.7 | 5.7 | 18 | 12.1 | 5.2 | | | | |
| Dissatisfied | 7 | 3.5 | 1.5 | 3 | 1.1 | 0.7 | | | | |
| Satisfied | 93 | 67.7 | 5.1 | 159 | 79.1 | 6.0 | | | | |
| Very satisfied | 13 | 6.1 | 1.9 | 22 | 7.7 | 2.2 | | | | |
| Don't know | 5 | 0 | 0 | 2 | 0 | 0 | | | | |
| Decline to respond | 1 | 0 | 0 | 0 | 0 | 0 | | | | |

Table 4.3: Satisfaction with community health workers, women 15-49 years of age who met withcommunity health workers in the last month

4.3 Counseling provided in health facilities

Respondents who had visited a health facility in the last 12 months (1,226 women at the second follow-up) were asked whether they were given counseling about certain topics by health center personnel. Approximately 11.7% of women in the second follow-up reported receiving guidance or advice about breastfeeding in the 12 months preceding the interview (Table 4.4). Approximately 16.7% of women in the second follow-up reported receiving guidance or advice about child nutrition in the 12 months preceding the interview (Table 4.4). Approximately 17.4% of women in the second follow-up reported receiving guidance or advice about child nutrition in the 12 months preceding the interview (Table 4.4). Approximately 17.4% of women in the second follow-up reported receiving guidance or advice about danger signs for children's health in the 12 months preceding the interview (Table 4.4).



| | | Baseline | e 2013 | | Second Follow-Up 2017 | | | | |
|---------------------------------------|-----|----------|--------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| On breastfeeding | 330 | 1040 | 25.0 | 2.2 | 161 | 1218 | 11.7 | 2.9 | |
| On child nutrition | 360 | 1039 | 27.6 | 2.5 | 225 | 1218 | 16.7 | 3.2 | |
| On danger signs for children's health | 382 | 1041 | 29.6 | 2.5 | 203 | 1216 | 17.4 | 3.6 | |

Table 4.4: Exposure to breastfeeding, child nutrition, and child health interventions, women 15-49 years

4.4 Counseling provided in health facilities to women with children

In the follow-up survey, respondents who had visited a health facility in the last 12 months and who had children (1,071 women at the second follow-up) were asked whether they were given counseling about certain topics by health center personnel.

Table 4.5: Counseling provided in health facilities to women with children

| | Second Follow-Up 2017 | | | | | | |
|--------------------------------------|-----------------------|------|------|-----|--|--|--|
| | n | Ν | % | SE | | | |
| Deworming | 246 | 1066 | 22.1 | 3.5 | | | |
| Micronutrients | 233 | 1065 | 20.2 | 3.4 | | | |
| Diarrhea treatment with ORS and zinc | 162 | 1062 | 14.3 | 2.4 | | | |

Questions about these topics were not asked at baseline. They were added to the second follow-up survey to track exposure to SMI interventions.

5 CHAPTER 5: FAMILY PLANNING

This chapter summarizes key indicators related to the knowledge of, access to, need for, and use of family planning methods among women of reproductive age (15-49 years) participating in the SMI-Honduras second follow-up household survey.

Family planning questions were asked only to women of reproductive age who were married or partnered. During the SMI-Honduras baseline household survey, family planning questions were asked to women whose marital status was reported as "married" or "partnered" by the SMI-Honduras household census respondent. During the second follow-up, the family planning section was instead conditioned on a question about marital status asked to the respondent herself at the start of the woman's health interview. This captured participants who had a change in marital status between the census and household survey and participants whose marital status was incorrectly recorded in the census. At the baseline, 1,205 women qualified for the family planning questions, and at the second follow-up, 1,422 women qualified.



5.1 Knowledge of the Fertile Period

The successful use of family planning methods depends on an understanding of when during the menstrual cycle a woman is most likely to conceive. This is especially true for traditional methods such as the rhythm method (i.e., periodic abstinence) and the withdrawal method. To assess knowledge of the fertile period, women were asked if there are certain days when a woman is more likely to become pregnant, and when during the menstrual cycle those days occur. Responses to these questions are summarized in Table 5.1. In the second follow-up, 62.2% of women indicated that there were certain days when a woman is more likely to become pregnant, and of these women, only 9.8% identified the correct timing of the fertile period (halfway between two periods).

Table 5.1: Knowledge of the fertile period, women 15-49 years of age who are married or partnered

| | | Baseline | e 2013 | | Seco | ond Follo | w-Up 2 | 017 |
|---------------------------------|----------|----------|--------|--------|---------|-----------|----------|-----|
| | n | Ν | % | SE | n | Ν | % | S |
| Knowledge of the fertile period | 694 | 1068 | 64.1 | 3 | 773 | 1243 | 62.2 | 2. |
| | | | | | | | | |
| | Bas | eline 20 |)13 | Se | cond Fo | ollow-Up | 2017 | |
| | n | % | SE | n | % | | 5E | |
| Knowledge of timing of fertile | e perioo | d, amon | g wom | en who | o know | of fertil | e perioc | I |
| Just before period | 54 | 8.8 | 1.9 | 94 | 12.9 | | 1. | 9 |
| During period | 20 | 3.6 | 1.3 | 13 | 2.6 | | 1. | 1 |
| Just after period | 504 | 78.8 | 2.6 | 524 | 73.7 | | 2. | 7 |
| Halfway between periods | 62 | 8.7 | 1.7 | 56 | 9.8 | | 2. | 0 |
| Other | 1 | 0.1 | 0.1 | 2 | 1.0 | | 0. | 9 |
| Don't know | 53 | 0 | 0 | 84 | 0 | | | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | | | 0 |

5.2 Use of Family Planning Methods

5.2.1 Current use

The coverage of contraceptive methods is one of the indicators most frequently used to assess the success of family planning program activities. It is also widely used as a determinant of fertility. Women who said they had heard of a family planning method were asked if they were currently using that method. Table 5.2 displays the percentage of all women using at least one family planning method, as well as the percentage of women reporting use of more than one family planning method at the time of the interview. Sixty five percent of all survey respondents in the second follow-up reported current use of at least one family planning method.

Women considered "in need" of family planning methods are those who are married or partnered, excluding those who report the following characteristics: does not have sexual relations, virgin,



menopausal, infertile, hysterectomy, pregnant, or wants to become pregnant. Even women not considered "in need" of contraception may use a method. Table 5.3 shows the uptake of modern family planning methods among all married and partnered women (65%), and among women considered "in need" of contraception (77.4%).

Table 5.2: Current use of family planning methods, women 15-49 years of age who are married orpartnered

| | | Baseline | e 2013 | |)17 | | | |
|--|-----|----------|--------|-----|------|------|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Currently in need of contraception | 969 | 1203 | 71.4 | 2.2 | 1198 | 1422 | 81.2 | 1.7 |
| Current use of any method, among all women | 770 | 1203 | 56.6 | 2.9 | 964 | 1422 | 65.0 | 2.6 |

Table 5.3: Current use of modern family planning methods, women 15-49 years of age who are married or partnered and in need of contraception

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | |
|------------------------------|-----|---------|--------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Current use of any method | 751 | 969 | 76.6 | 3.0 | 932 | 1198 | 77.4 | 2.5 | |
| Current use of modern method | 685 | 969 | 69.3 | 3.2 | 902 | 1198 | 75.4 | 2.6 | |

| | Bas | eline 20 | 013 | Second Follow-Up 2017 | | | | |
|---|-----|----------|-----|-----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| Number of methods the respondent is currently using | | | | | | | | |
| Not using any family planning methods | 225 | 23.9 | 3.0 | 266 | 22.6 | 2.5 | | |
| Using 1 family planning method | 733 | 75.1 | 2.9 | 931 | 77.4 | 2.5 | | |
| Using 2 family planning methods | 11 | 1.0 | 0.4 | 1 | 0.0 | 0 | | |
| Not using any family planning methods | 0 | 0.0 | 0 | 0 | 0.0 | 0 | | |
| Using 1 family planning method | 0 | 0.0 | 0 | 0 | 0.0 | 0 | | |
| Using 2 family planning methods | 0 | 0.0 | 0 | 0 | 0.0 | 0 | | |

Table 5.4 displays the percentage of all women using specific family planning methods. The methods most commonly in use during the second follow-up are injectables (23.1%) and female sterilization (18.4%).



| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | |
|----------------------------------|-----|---------|--------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Injectable | 366 | 1198 | 22.5 | 1.6 | 404 | 1421 | 23.1 | 1.8 | |
| Female sterilization | 110 | 1198 | 10.7 | 1.7 | 207 | 1422 | 18.4 | 2.1 | |
| Oral contraceptive | 128 | 1198 | 11.5 | 1.8 | 132 | 1420 | 10.0 | 1.4 | |
| Intrauterine device (IUD) | 66 | 1198 | 4.2 | 0.8 | 114 | 1422 | 7.6 | 1.3 | |
| Implant | 2 | 1197 | 0.1 | 0.1 | 53 | 1422 | 2.6 | 0.7 | |
| Rhythm | 38 | 1198 | 3.2 | 0.9 | 19 | 1422 | 1.6 | 0. | |
| Male condom | 30 | 1198 | 2.6 | 0.8 | 20 | 1421 | 1.1 | 0.4 | |
| Withdrawal | 27 | 1198 | 2.2 | 0.6 | 11 | 1422 | 0.5 | 0.2 | |
| Lactational amenorrhea | 7 | 1198 | 0.4 | 0.2 | 2 | 1422 | 0.1 | 0.1 | |
| Male sterilization | 0 | 1198 | 0.0 | 0 | 0 | 1421 | 0.0 | (| |
| Female condom | 0 | 1198 | 0.0 | 0 | 0 | 1421 | 0.0 | (| |
| Diaphragm | 0 | 1198 | 0.0 | 0 | 0 | 1422 | 0.0 | (| |
| Sponge | 0 | 1198 | 0.0 | 0 | 0 | 1420 | 0.0 | (| |
| Emergency contraception (Plan B) | 0 | 1198 | 0.0 | 0 | 0 | 1422 | 0.0 | (| |
| Other modern method | 0 | 1198 | 0.0 | 0 | 0 | 1420 | 0.0 | (| |
| Other traditional method | 0 | 1198 | 0.0 | 0 | 1 | 1419 | 0.0 | (| |

Table 5.4: Current use of family planning methods, by type of method, for women 15-49 years of agewho are married or partnered

^{*} categories not mutually exclusive (select all that apply)

5.3 Sources of Family Planning Methods

Information on where women obtain contraceptive methods is important for family planning program managers. The places where the currently-used family planning methods were acquired are summarized in Table 5.5.

The public sector is the source most commonly reported by users of most modern family planning methods, including female sterilization. Pharmacies are important sources for injectables, the pill, and male condoms. Women report learning about traditional methods in the public sector, from friends or relatives, or at church (Table 5.6).

| Table 5.5: Source of modern family planning methods, women 15-49 years of age who are married or | |
|--|--|
| partnered | |

| | Ва | seline 20 | 013 | Second Follow-Up 2017 | | | |
|-------------------------|-----|-----------|-----|-----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| Injectable | | | | | | | |
| CESAMO | 120 | 31.7 | 5.4 | 261 | 59.0 | 5.0 | |
| CESAR | 197 | 55.2 | 6.1 | 88 | 23.5 | 4.2 | |
| Pharmacy | 24 | 6.4 | 1.5 | 25 | 8.5 | 2.3 | |
| Community health worker | 3 | 0.8 | 0.4 | 24 | 7.8 | 2.6 | |
| Public hospital | 5 | 1.2 | 0.6 | 2 | 0.4 | 0.3 | |

(continued)

| , | | | | | | |
|-------------------------------|----|------|-----|-----|------|-----|
| | n | % | SE | n | % | SE |
| Other public health facility | 0 | 0.0 | 0 | 1 | 0.2 | 0.2 |
| CMI | 5 | 1.3 | 0.7 | 1 | 0.2 | 0.2 |
| Private mobile clinic | 0 | 0.0 | 0 | 1 | 0.1 | 0.1 |
| Public mobile clinic | 1 | 0.3 | 0.3 | 0 | 0.0 | C |
| Private hospital | 0 | 0.0 | 0 | 0 | 0.0 | C |
| Private health clinic | 7 | 2.0 | 1.1 | 0 | 0.0 | C |
| Private doctor's office | 3 | 0.6 | 0.4 | 0 | 0.0 | C |
| Other private health facility | 1 | 0.2 | 0.2 | 0 | 0.0 | C |
| Traditional healer | 0 | 0.0 | 0 | 0 | 0.0 | C |
| Store | 0 | 0.0 | 0 | 0 | 0.0 | C |
| Market | 0 | 0.0 | 0 | 0 | 0.0 | C |
| Church | 0 | 0.0 | 0 | 0 | 0.0 | C |
| Friend/relative | 1 | 0.2 | 0.2 | 0 | 0.0 | C |
| Type 3 Polyclinic | 0 | 0.0 | 0 | 0 | 0.0 | C |
| Other | 0 | 0.0 | 0 | 1 | 0.1 | 0.1 |
| Don't know | 1 | 0 | 0 | 0 | 0 | C |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | C |
| Female sterilization | | | 1 | | | |
| Public hospital | 79 | 63.5 | 7.2 | 167 | 81.1 | 4.3 |
| Private hospital | 1 | 0.3 | 0.3 | 11 | 5.1 | 2.7 |
| CMI | 0 | 0.0 | 0 | 4 | 2.5 | 1.8 |
| Other private health facility | 0 | 0.0 | 0 | 4 | 2.1 | 1.4 |
| Private health clinic | 10 | 12.1 | 6.0 | 5 | 2.0 | 1.1 |
| Other public health facility | 2 | 5.1 | 4.4 | 3 | 0.7 | 0.4 |
| Private doctor's office | 1 | 5.7 | 5.6 | 3 | 0.6 | 0.4 |
| Public mobile clinic | 1 | 1.3 | 1.3 | 3 | 0.5 | 0.3 |
| Private mobile clinic | 2 | 1.0 | 0.7 | 1 | 0.2 | 0.2 |
| CESAMO | 6 | 5.0 | 3.1 | 1 | 0.2 | 0.2 |
| Pharmacy | 0 | 0.0 | 0 | 0 | 0.0 | C |
| Community health worker | 0 | 0.0 | 0 | 0 | 0.0 | C |
| Traditional healer | 0 | 0.0 | 0 | 0 | 0.0 | C |
| Store | 0 | 0.0 | 0 | 0 | 0.0 | C |
| Market | 0 | 0.0 | 0 | 0 | 0.0 | C |
| Church | 0 | 0.0 | 0 | 0 | 0.0 | C |
| Friend/relative | 0 | 0.0 | 0 | 0 | 0.0 | C |
| CESAR | 1 | 0.7 | 0.7 | 0 | 0.0 | (|
| Type 3 Polyclinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other | 7 | 5.4 | 3.3 | 5 | 5.1 | 2.4 |
| Don't know | 0 | 0 | 0 | 0 | 0 | C |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | C |
| Oral contraceptive | 25 | 24.6 | | 70 | 10.4 | |
| CESAMO | 35 | 21.6 | 4.7 | 73 | 48.1 | 8.2 |
| Pharmacy | 28 | 19.5 | 6.3 | 25 | 26.7 | 7.4 |
| CESAR | 59 | 51.4 | 8.7 | 30 | 23.2 | 8.2 |
| Community health worker | 1 | 0.4 | 0.4 | 2 | 1.2 | 0.9 |
| Private health clinic | 1 | 5.3 | 5.2 | 1 | 0.3 | 0.3 |
| Public hospital | 1 | 0.3 | 0.3 | 0 | 0.0 | (|
| Public mobile clinic | 0 | 0.0 | 0 | 0 | 0.0 | (|
| Other public health facility | 0 | 0.0 | 0 | 0 | 0.0 | C |
| Private hospital | 0 | 0.0 | 0 | 0 | 0.0 | (|

(continued)

| Jinniaeu) | | | | | | |
|---|--------|------|------------|----|------|------|
| | n | % | SE | n | % | SE |
| Private doctor's office | 0 | 0.0 | 0 | 0 | 0.0 | (|
| Private mobile clinic | 0 | 0.0 | 0 | 0 | 0.0 | (|
| Other private health facility | 0 | 0.0 | 0 | 0 | 0.0 | (|
| Traditional healer | 0 | 0.0 | 0 | 0 | 0.0 | (|
| Store | 1 | 0.4 | 0.4 | 0 | 0.0 | (|
| Market | 0 | 0.0 | 0 | 0 | 0.0 | (|
| Church | 0 | 0.0 | 0 | 0 | 0.0 | (|
| Friend/relative | 0 | 0.0 | 0 | 0 | 0.0 | (|
| CMI | 2 | 1.0 | 0.7 | 0 | 0.0 | (|
| Type 3 Polyclinic | 0 | 0.0 | 0 | 0 | 0.0 | (|
| Other | 0 | 0.0 | 0 | 1 | 0.4 | 0.4 |
| Don't know | 0 | 0 | 0 | 0 | 0 | (|
| Decline to respond | 0 | 0 | 0 | 0 | 0 | |
| ntrauterine device (IUD) | | | | | | |
| CESAMO | 21 | 31.4 | 7.0 | 64 | 54.3 | 9.3 |
| Private doctor's office | 2 | 2.6 | 1.9 | 3 | 9.8 | 8.2 |
| CESAR | 23 | 31.8 | 7.2 | 13 | 9.7 | 4.1 |
| Public hospital | 23 | 8.7 | 3.3 | 17 | 9.1 | 2.0 |
| CMI | , 3 | 7.4 | 4.3 | 8 | 7.0 | 2.8 |
| Private hospital | 1 | 1.2 | 4.5 1.2 | 1 | 4.4 | 4.1 |
| Private health clinic | 8 | 7.8 | 3.0 | 4 | 2.1 | 1.8 |
| Other public health facility | 0 | 0.0 | 3.0 0 | 4 | 0.8 | 0.8 |
| Community health worker | 0 | 0.0 | 0 | 1 | 0.8 | 0.0 |
| Public mobile clinic | 0 | 0.0 | 0 | 0 | 0.7 | 0.0 |
| Private mobile clinic | 0 | 0.0 | 0 | 0 | 0.0 | |
| | 0 | 0.0 | 0 | 0 | 0.0 | |
| Other private health facility Pharmacy | 0 | 0.0 | 0 | 0 | 0.0 | |
| Traditional healer | 0 | 0.0 | 0 | 0 | 0.0 | |
| | - | | - | | | |
| Store | 0 | 0.0 | 0 | 0 | 0.0 | |
| Market | 0 | 0.0 | 0 | 0 | 0.0 | |
| Church | 0 | 0.0 | 0 | 0 | 0.0 | |
| Friend/relative | 0 | 0.0 | 0 | 0 | 0.0 | |
| Type 3 Polyclinic | 0 | 0.0 | 0 | 0 | 0.0 | |
| Other | 2 | 9.1 | 6.5 | 2 | 2.1 | 1.4 |
| Don't know | 1 | 0 | 0 | 0 | 0 | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | |
| mplant | | | 1 | | | |
| CESAMO | 0 | 0.0 | 0 | 38 | 71.8 | 10.4 |
| CESAR | 1 | 40.5 | 34.4 | 8 | 12.3 | 4.4 |
| Church | 0 | 0.0 | 0 | 2 | 4.2 | 3.8 |
| Other public health facility | 0 | 0.0 | 0 | 1 | 3.4 | 3.3 |
| Community health worker | 0 | 0.0 | 0 | 2 | 3.4 | 2.2 |
| Pharmacy | 0 | 0.0 | 0 | 1 | 1.1 | 1.1 |
| Private health clinic | 0 | 0.0 | 0 | 1 | 0.8 | 0.8 |
| Public hospital | 1 | 59.5 | 34.4 | 0 | 0.0 | |
| Public mobile clinic | 0 | 0.0 | 0 | 0 | 0.0 | |
| Private hospital | 0 | 0.0 | 0 | 0 | 0.0 | |
| Drivata dactor's office | 0 | 0.0 | 0 | 0 | 0.0 | (|
| Private doctor's office | Ũ | | | | | |
| Private mobile clinic | 0 | 0.0 | 0 | 0 | 0.0 | (|



| (continued) |
|-------------|
| continucuj |

| n | % | SE | n | % | SE |
|------|------------|------|-----------|-------------------|---------------------------|
| 0 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| 0 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| 0 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| 0 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| 0 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| 0 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| 0 0 | 0.0 | 0 | 1 | 3.1 | 2.8 |
| 0 | 0 | 0 | 2 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | C |
| | | | | | |
| 0 25 | .5 | 8.1 | 10 | 41.1 | 15.9 |
| 8 23 | .1 1 | .0.3 | 5 | 40.2 | 17.7 |
| 0 46 | .3 1 | .4.1 | 4 | 13.9 | 7.2 |
| 1 2 | .7 | 2.7 | 1 | 4.8 | 4.9 |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 0 0 | 0.0 | 0 | 0 | 0.0 | C |
| 1 2 | .4 | 2.4 | 0 | 0.0 | C |
| 0 | 0 | 0 | 0 | 0 | C |
| 0 | 0 | 0 | 0 | 0 | C |
| 0 | 0 table | | 0 beca | 0 0 because no | 0 0 0 because no women |

Table 5.6: Source of knowledge about traditional family planning methods, women 15-49 years of age who are married or partnered

| | Ba | seline 20 | 013 | Second Follow-Up 2017 | | |
|------------------------------|----|-----------|-----|-----------------------|-------|-----|
| | n | % | SE | n | % | SE |
| Lactational amenorrhea | | | | | | |
| Public hospital | 0 | 0.0 | 0 | 1 | 100.0 | 0.0 |
| Public mobile clinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other public health facility | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Private hospital | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Private health clinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Private doctor's office | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Private mobile clinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| | | | | | | |



| Other private health facility | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
|-------------------------------|----|------|------|---|------|------|
| Pharmacy | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Community health worker | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Traditional healer | 1 | 16.7 | 15.5 | 0 | 0.0 | 0 |
| Store | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Market | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Church | 1 | 11.0 | 9.5 | 0 | 0.0 | 0 |
| Friend/relative | 4 | 52.9 | 18.0 | 0 | 0.0 | 0 |
| CESAR | 1 | 19.4 | 17.4 | 0 | 0.0 | 0 |
| CESAMO | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| CMI | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Type 3 Polyclinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Don't know | 0 | 0 | 0 | 1 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhythm | | | | ı | | |
| Church | 5 | 16.0 | 9.7 | 2 | 25.8 | 19.4 |
| Friend/relative | 17 | 31.9 | 8.7 | 6 | 25.1 | 12.4 |
| CESAMO | 4 | 6.8 | 3.6 | 3 | 12.4 | 7.8 |
| CESAR | 8 | 32.1 | 12.7 | 2 | 6.9 | 5.3 |
| Public hospital | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Public mobile clinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other public health facility | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Private hospital | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Private health clinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Private doctor's office | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Private mobile clinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other private health facility | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Pharmacy | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Community health worker | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Traditional healer | 1 | 3.1 | 2.6 | 0 | 0.0 | 0 |
| Store | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Market | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| CMI | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Type 3 Polyclinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other | 2 | 10.2 | 6.8 | 2 | 29.7 | 18.6 |
| Don't know | 1 | 0 | 0 | 4 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 |
| Withdrawal | | | | 1 | | |
| Friend/relative | 5 | 13.8 | 5.5 | 5 | 63.9 | 16.3 |
| CESAMO | 1 | 3.2 | 3.3 | 1 | 9.8 | 8.7 |
| Private doctor's office | 0 | 0.0 | 0 | 1 | 4.8 | 5.1 |
| Public hospital | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Public mobile clinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other public health facility | 1 | 3.0 | 3.0 | 0 | 0.0 | 0 |
| Private hospital | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Private health clinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Private mobile clinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other private health facility | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Pharmacy | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Community health worker | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Traditional healer | 1 | 3.2 | 3.3 | 0 | 0.0 | 0 |
| Store | 0 | 0.0 | 0 | 0 | 0.0 | 0 |



| Market | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
|--------------------|---|------|------|---|------|------|
| Church | 3 | 8.3 | 5.1 | 0 | 0.0 | 0 |
| CESAR | 7 | 40.9 | 14.7 | 0 | 0.0 | 0 |
| СМІ | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Type 3 Polyclinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other | 6 | 27.5 | 11.0 | 2 | 21.5 | 15.0 |
| Don't know | 3 | 0 | 0 | 0 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 2 | 0 | 0 |

5.4 Non-Use and Interruption of Use of Family Planning Methods

Non-use and interruption of use of family planning methods are major concerns for family planning program managers.

5.4.1 Prevalence of interruption

The prevalence of interruption and non-use of family planning methods is summarized in Table 5.7. Of women participating in the second follow-up survey, 81.2% are considered "in need" of contraception (i.e., they did not report any of the following: does not have sexual relations, virgin, menopausal, infertile, hysterectomy, pregnant, or wants to become pregnant). Among these women in need, 1.8% reported any interruption in the use of family planning methods in the previous year.

Table 5.7: Interruption and non-use of family planning methods, among women 15-49 years of age who are married or partnered and in need of contraception

| | | Baselin | e 2013 | 3 | | /-Up 2017 | | |
|-----------------------|----|---------|--------|-----|----|-----------|-----|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Discontinuation rate* | 19 | 969 | 1.6 | 0.5 | 29 | 1198 | 1.8 | 0.6 |

any interruption in use during the last year, among women in need of contraception

| | Bas | eline 20 |)13 | Second Follow-Up 201 | | | | |
|------------------------|----------|----------|--------|----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| Number of interruption | s in use | e during | the la | st year | | | | |
| none | 950 | 98.4 | 0.5 | 1169 | 98.2 | 0.6 | | |
| once | 19 | 1.6 | 0.5 | 17 | 1.0 | 0.4 | | |
| 2-6 times per year | 0 | 0.0 | 0 | 12 | 0.7 | 0.3 | | |
| 7-12 times per year | 0 | 0.0 | 0 | 0 | 0.0 | 0 | | |
| >12 times per year | 0 | 0.0 | 0 | 0 | 0.0 | 0 | | |

5.4.2 Reasons for non-use

Women who interrupted use of family planning methods in the year preceding the interview, and those who indicated they were not using any method on the day of the interview, were asked to specify all



reasons why they did not use a method. The interviewer matched responses provided by the respondent to a list of reasons in the questionnaire (Table 5.8). The most commonly cited reasons for non-use at the time of the second follow-up interview were, do not like to use contraception (20.7%), respondent is not sexually active (14.6%), and respondent is trying to become pregnant (9.9%).

Table 5.8: Reasons for non-use of family planning methods, women 15-49 years of age who are marriedor partnered and who are not using family planning methods

| | | Baseli | ne 2013 | | 5 | Second | Follow-U | p 2017 |
|---|----|--------|---------|-----|----|--------|----------|--------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Do not like to use contraception | 94 | 402 | 20.6 | 3.7 | 99 | 446 | 20.7 | 2.8 |
| Not sexually active | 64 | 402 | 12.7 | 2.0 | 65 | 446 | 14.6 | 3.0 |
| Trying to become pregnant | 50 | 402 | 17.7 | 3.2 | 36 | 446 | 9.9 | 2.4 |
| Currently pregnant | 27 | 402 | 6.3 | 1.6 | 42 | 446 | 9.8 | 2.4 |
| Spouse or partner opposed to use | 18 | 402 | 2.7 | 0.8 | 42 | 446 | 9.3 | 2.3 |
| Married | 33 | 402 | 4.8 | 1.4 | 28 | 446 | 8.6 | 2.9 |
| Opposed to use | 23 | 402 | 5.3 | 1.6 | 27 | 446 | 7.1 | 1.7 |
| Using contraception interferes with normal body processes | 10 | 402 | 1.7 | 0.5 | 32 | 446 | 5.7 | 1.7 |
| Infrequently sexually active | 32 | 402 | 7.9 | 2.6 | 26 | 446 | 5.0 | 1.6 |
| Using contraception is uncomfortable | 3 | 402 | 0.4 | 0.2 | 19 | 446 | 4.2 | 1.4 |
| Breastfeeding | 23 | 402 | 3.1 | 0.9 | 25 | 446 | 3.9 | 1.2 |
| Concerned about side effects | 15 | 402 | 3.4 | 1.1 | 24 | 446 | 3.8 | 1.1 |
| No menstrual period since giving birth | 6 | 402 | 1.1 | 0.4 | 15 | 446 | 3.0 | 1.1 |
| Menopausal | 24 | 402 | 8.1 | 2.5 | 10 | 446 | 2.7 | 1.0 |
| Against religious beliefs | 1 | 402 | 0.5 | 0.5 | 9 | 446 | 2.3 | 1.1 |
| Unmarried | 25 | 402 | 4.6 | 1.0 | 6 | 446 | 1.4 | 0.8 |
| Knows no method | 5 | 402 | 0.9 | 0.5 | 3 | 446 | 1.1 | 1.0 |
| The health facility is too far away | 1 | 402 | 0.1 | 0.1 | 3 | 446 | 0.8 | 0.6 |
| Have undergone hysterectomy | 7 | 402 | 0.8 | 0.3 | 2 | 446 | 0.4 | 0.3 |
| Infertile | 21 | 402 | 14.1 | 4.3 | 3 | 446 | 0.4 | 0.2 |
| Others opposed to use | 2 | 402 | 0.2 | 0.1 | 2 | 446 | 0.3 | 0.2 |
| Knows no source for methods | 3 | 402 | 1.2 | 1.0 | 2 | 446 | 0.3 | 0.2 |
| Could not afford transportation | 0 | 402 | 0.0 | 0 | 2 | 446 | 0.3 | 0.2 |
| Mistrust health center staff | 4 | 402 | 0.8 | 0.4 | 2 | 446 | 0.3 | 0.3 |
| No method was available | 0 | 402 | 0.0 | 0 | 1 | 446 | 0.2 | 0.2 |
| Virgin | 1 | 402 | 0.1 | 0.1 | 0 | 446 | 0.0 | 0 |
| Could not find transportation to a health facility | 0 | 402 | 0.0 | 0 | 0 | 446 | 0.0 | 0 |
| The method is too expensive | 2 | 402 | 0.3 | 0.2 | 0 | 446 | 0.0 | 0 |
| Preferred method was not available | 1 | 402 | 0.1 | 0.1 | 0 | 446 | 0.0 | 0 |
| Health facility staff difficult to deal with | 0 | 402 | 0.0 | 0 | 0 | 446 | 0.0 | 0 |
| Other | 28 | 402 | 7.4 | 2.4 | 28 | 446 | 5.7 | 1.4 |

* "Using contraception affects health" was an option offered in the second follow-up, but was not available at baseline.
48 women selected this as a reason for not using family planning at the second follow-up.

* categories not mutually exclusive (select all that apply)



5.5 Family Planning Intentions and Decision-Making

5.5.1 Participation in family planning decision

In this setting in the second follow-up, 78.3% of women report that decisions about family planning methods are jointly made by the respondent and her partner. In only 3.6% of cases, the decision to use family planning methods is up to the respondent's partner alone.

Table 5.9: Participation in family planning decision-making, women 15-49 years of age who are married or partnered and are currently using family planning methods

| | Bas | eline 20 |)13 | Secor | nd Follov | w-Up 2017 |
|------------------------------------|-----|----------|-----|-------|-----------|-----------|
| | n | % | SE | n | % | SE |
| Joint decision | 729 | 79.8 | 2.5 | 903 | 78.3 | 2.4 |
| Mostly the respondent | 113 | 11.2 | 1.5 | 207 | 17.2 | 2.3 |
| Mostly respondent's spouse/partner | 67 | 7.1 | 1.5 | 31 | 3.6 | 1.4 |
| Others | 7 | 1.6 | 0.9 | 7 | 0.6 | 0.3 |
| Not applicable - not partnered | 2 | 0.2 | 0.2 | 2 | 0.4 | 0.3 |
| Don't know | 6 | 0 | 0 | 7 | 0 | 0 |
| Decline to respond | 2 | 0 | 0 | 5 | 0 | 0 |

5.5.2 Informed choice

With respect to use of family planning methods, "informed choice" refers to whether or not health care workers described other options for family planning methods, possible side effects associated with the method of choice, and how to respond to side effects if they occur. This information can be used to help women select an appropriate contraceptive method, and to assist users in coping with side effects (thus decreasing discontinuation rates for non-permanent methods).

Table 5.10 shows the percent of women currently using family planning methods who were told about other options for contraception (57% of women in the second follow-up).

Table 5.10: Family planning decision-making, informed choice, women 15-49 years of age who are married or partnered and who are currently using family planning methods

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | |
|---|-----|---------|--------|-----|-----------------------|------|----|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Informed about other family planning options by a doctor, nurse, or community health worker | 480 | 920 | 48.8 | 2.6 | 648 | 1161 | 57 | 3.8 | |



5.6 Exposure to Family Planning Information

5.6.1 Family planning messages delivered by health care providers

Respondents were asked about their exposure to family planning messages delivered by health care providers (Table 5.11). Fifty six percent of women in the second follow-up reported being advised about family planning at the health care facility they attend during the past 12 months. Nineteen percent of all respondents indicated that they had been visited by a health promoter who provided information about family planning in the last 12 months. Just 8.9% of respondents who had not attended a health facility in the last 12 months were visited by a health promoter who provided information about family planning.

Table 5.11: Family planning messages delivered by health care providers in the last 12 months, women15-49 years of age who are married or partnered

| | | Baseline | e 2013 | | Seco | ond Follow-Up 2017 | | |
|---|-----|----------|--------|-----|------|--------------------|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Discussion about family planning methods with staff member at a health facility | 400 | 658 | 53.8 | 2.9 | 439 | 795 | 55.7 | 3.7 |
| Discussion about family planning methods during health promoter visit | 191 | 1198 | 13.8 | 1.5 | 275 | 1410 | 18.8 | 2.2 |
| Visit by promotor, among women who had not visited a health facility | 24 | 537 | 5.9 | 1.7 | 55 | 614 | 8.9 | 1.7 |

5.7 Age at First Birth

5.7.1 Age at first birth

Seventy two percent of respondents in the second follow-up had ever given birth (Table 5.12). Of these women, the median age of the women when their first child was born was 19 years old. Only a quarter of women were 21 years old or older when their first child was born. Seven percent of women reported a history of stillbirth, miscarriage, and/or abortion.

Table 5.12: Parity and age at first birth, women 15-49 years of age

| | | Baseline | 2013 | | Second Follow-Up 2017 | | | | | |
|---|------|----------|------|-----|-----------------------|------|------|-----|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| Ever given birth | 1477 | 1847 | 69.4 | 2.3 | 1716 | 2124 | 71.7 | 1.9 | | |
| Ever had a stillbirth, miscarriage, or abortion | 170 | 1840 | 8.8 | 1.1 | 173 | 2121 | 7.3 | 0.8 | | |



| | N | DK/DTR | Min | 25th Percentile | Median e | 75th Percentile | Max e |
|---|------|--------|-----|--------------------|-------------|--------------------|----------|
| Baseline 2013 | | | | | | | |
| Age at first birth, among parous women | 1464 | 11 | 10 | 17 | 19 | 21 | 37 |
| Second follow-up 2017 Age at first birth, among parous women | 1714 | 0 | 10 | 17 | 19 | 21 | 43 |

6 CHAPTER 6: MATERNAL HEALTH CARE

This chapter summarizes key indicators pertaining to antenatal care, delivery care, and postpartum care for the most recent live birth in the last two years as reported by women of reproductive age (15-49 years) participating in the SMI-Honduras second follow-up household survey. Participating women were interviewed about all live births in the last five years, but to reduce the impact of recall bias, results reported here are for each woman's most recent birth in the last two years. At the baseline, 666 women were interviewed about at least one birth in the last two years. At the second follow-up, 710 women were interviewed about births in the last two years.

6.1 Antenatal Care

To reduce recall bias, data pertaining to antenatal care are summarized for a woman's most recent birth in the last two years.

6.1.1 Antenatal care coverage

Early and regular checkups by trained medical providers are important in assessing the physical status of women during pregnancy and provide an opportunity to intervene in a timely manner if any problems are detected. The Maternal and Child Health Questionnaire captured information from women on both overall coverage of antenatal care and the content of care received. To obtain information on source of antenatal care, interviewers recorded all persons a woman consulted for care. Timing of antenatal care was assessed by asking women how many weeks or months pregnant they were when they attended their first antenatal care visit. The same details were recorded for up to eight antenatal care visits.

The percentage of women with a birth in the last two years who attended at least one antenatal care visit for the most recent birth, and the percent distribution of timing of care among those who received any antenatal care are presented in Table 6.1. Definition of "most recent birth" changed between baseline and second follow-up. The type of facility where antenatal care was sought is detailed in Table 6.2.

Among women with a child under the age of 2 in the second follow-up, 97.9% attended at least one antenatal care visit and 92.9% of women had at least one antenatal care visit with a doctor or professional nurse. At the second follow-up, 56.1% of women had an antenatal care visit during the first trimester (first 12 weeks) with a doctor or professional nurse, compared to 35.3% at the baseline. The median age of gestation at the first antenatal care visit during the second follow-up was 2 months.



Table 6.1: Antenatal care coverage for the most recent birth in the last two years, women 15-49 years of age

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | |
|--|-----|---------|--------|-----|-----------------------|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Attended at least one antenatal care visit | 635 | 666 | 95.0 | 1.2 | 695 | 710 | 97.9 | 0.6 |
| Attended at least one antenatal care visit with doctor or professional nurse | 543 | 666 | 80.9 | 2.8 | 664 | 710 | 92.9 | 2.0 |
| Antenatal care visit with doctor or professional nurse in the first trimester (12 weeks) | 251 | 661 | 35.3 | 2.5 | 406 | 691 | 56.1 | 2.3 |

* Definition of most recent birth changed between baseline and second follow-up

| | Ν | DK/DTR | Min | 25th | Median | 75th | Max |
|---------------------------------------|-----|--------|-----|------------|--------|------------|-----|
| | | | | Percentile | е | Percentile | 5 |
| Baseline 2013 | | | | | | | |
| Month of gestation of first ANC visit | 630 | 5 | 0.2 | 1 | 3 | 4 | 9 |
| Second follow-up 2017 | | | | | | | |
| Month of gestation of first ANC visit | 676 | 17 | 0.2 | 1 | 2 | 3 | 9 |

Regarding the type of facility where antenatal care was usually sought during the second follow-up (Table 6.2), most women who attended antenatal care for their most recent delivery in the last two years sought care in a CESAMO (71.1%) or CESAR (23.8%). Only 1.6% of women sought antenatal care in a private doctor's office.



| | Bas | eline 20 | 013 | Secor | nd Follow | -Up 2017 |
|-------------------------------|-----|----------|-----|-------|-----------|----------|
| | n | % | SE | n | % | SE |
| CESAMO | 269 | 42.2 | 5.5 | 491 | 71.1 | 3.9 |
| CESAR | 289 | 45.6 | 5.6 | 162 | 23.8 | 3.9 |
| Private doctor's office | 6 | 0.8 | 0.4 | 14 | 1.6 | 0.5 |
| Private health clinic | 24 | 3.0 | 0.8 | 6 | 0.8 | 0.3 |
| Other public health facility | 1 | 0.1 | 0.1 | 6 | 0.7 | 0.3 |
| Public hospital | 13 | 2.1 | 0.8 | 4 | 0.6 | 0.3 |
| CMI | 15 | 2.2 | 0.7 | 4 | 0.6 | 0.3 |
| Community health worker | 0 | 0.0 | 0 | 2 | 0.3 | 0.3 |
| Private hospital | 5 | 2.1 | 1.7 | 2 | 0.2 | 0.2 |
| Private mobile clinic | 2 | 0.2 | 0.2 | 1 | 0.1 | 0.1 |
| Public mobile clinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other private health facility | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Pharmacy | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Traditional healer | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other | 9 | 1.5 | 0.5 | 2 | 0.3 | 0.2 |
| Don't know | 0 | 0 | 0 | 1 | 0 | 0 |
| Decline to respond | 2 | 0 | 0 | 0 | 0 | 0 |

Table 6.2: Usual antenatal care location, women 15-49 years of age who attended at least one antenatalcare visit for most recent birth in the last two years

6.1.2 Frequency of antenatal care visits

Antenatal care can be more effective in avoiding adverse pregnancy outcomes when it is sought early in the pregnancy and continues until delivery. According to the national norm in Honduras, it is recommended that women receive a minimum of four antenatal care visits. The frequency of antenatal care visits is summarized in Table 6.3. Table 6.4 shows the percentage of women with four or more visits with skilled providers and according to best practices.

In the second follow-up, 90.7% of women reported having four or more antenatal care visits during their most recent pregnancy in the last two years. Fifty two percent of women reported having seven or more antenatal care visits during their most recent pregnancy.

The content of antenatal care is as crucial as the frequency of visits. As shown in Table 6.4, 43.1 percent of all women in the second follow-up survey had four or more antenatal care visits with a doctor or professional nurse, and with each of 10 defined best practices performed at least once during pregnancy (measurement of blood type, test for anemia, test for syphilis, test for HIV, test of blood glucose, test for proteinuria, measurement of maternal blood pressure, measurement of maternal weight, measurement of fundal height, and measurement of fetal heartbeat).



| | Bas | eline 20 |)13 | Secor | nd Follow | <i>ı</i> -Up 2017 |
|--------------------|-----|----------|-----|-------|-----------|-------------------|
| | n | % | SE | n | % | SE |
| None | 31 | 5.1 | 1.2 | 15 | 2.2 | 0.6 |
| 1-3 visits | 77 | 12.8 | 2.1 | 47 | 7.2 | 1.2 |
| 4-6 visits | 248 | 40.0 | 2.6 | 260 | 39.0 | 2.1 |
| 7-9 visits | 298 | 41.7 | 2.9 | 369 | 51.2 | 2.2 |
| 10+ visits | 4 | 0.4 | 0.2 | 5 | 0.5 | 0.2 |
| Don't know | 6 | 0 | 0 | 14 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.3: Frequency of antenatal care visits for the most recent birth in the last two years, women 15-49years of age

Table 6.4: Frequency of antenatal care visits with skilled provider for the most recent birth in the lasttwo years, women 15-49 years of age

| | | Baseline 2013 | | | | Second Follow-Up 2017 | | | | |
|--|-----|---------------|------|-----|-----|-----------------------|------|-----|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| At least four antenatal care visits with doctor or professional nurse | 444 | 660 | 65.2 | 3.4 | 596 | 696 | 84.4 | 2.5 | | |
| At least four antenatal care visits with doctor or professional nurse according to best practices* | 138 | 660 | 19.3 | 2.6 | 322 | 696 | 43.1 | 3.7 | | |

*measuring blood type, anemia, syphilis, HIV, glucose, proteinuria, blood pressure, weight, fundal height, fetal heartbeat

6.1.3 Content of antenatal care

The content of antenatal care is an important indicator of quality of care. The coverage of key procedures was assessed among women who received any antenatal care for a birth in the last two years (Table 6.5 and Table 6.6). It is important to remember that the validity of these data hinge on the respondent's understanding of the question and her ability to recall events that may have occurred several years prior to the interview.

There was variation in performance of the 10 "best practice" procedures during the second follow-up: measured maternal weight (99.6%), measured maternal blood pressure (99.4%), tested for proteinuria (96.6%), measured fetal heartbeat (96.6%), measured fundal height (96%), tested for anemia (94.5%), measured blood type (89.5%), measured blood glucose (81%), tested for HIV (80.2%), and tested for syphilis (72.7%). Women were unfamiliar with several tests, as evidenced by the high number of missing responses for proteinuria and syphilis in particular.



| | Baseline 2013 | | | | Second Follow-Up 2017 | | | | |
|----------------------------------|---------------|-----|------|-----|-----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Measured maternal weight | 620 | 635 | 97.5 | 0.7 | 693 | 695 | 99.6 | 0.3 | |
| Measured maternal blood pressure | 614 | 633 | 96.9 | 0.8 | 691 | 695 | 99.4 | 0.3 | |
| Tested for proteinuria | 441 | 519 | 84.8 | 2.3 | 641 | 664 | 96.6 | 1.0 | |
| Measured fetal heartbeat | 551 | 630 | 86.9 | 1.9 | 674 | 695 | 96.6 | 0.9 | |
| Measured fundal height | 457 | 622 | 72.5 | 3.5 | 666 | 693 | 96.0 | 1.2 | |
| Tested for anemia | 507 | 573 | 87.9 | 1.5 | 646 | 678 | 94.5 | 1.1 | |
| Measured blood type | 512 | 581 | 87.8 | 1.9 | 613 | 680 | 89.5 | 1.6 | |
| Measured blood glucose | 357 | 550 | 63.5 | 3.5 | 552 | 669 | 81.0 | 2.7 | |
| Tested for HIV | 392 | 609 | 64.1 | 3.7 | 553 | 680 | 80.2 | 2.7 | |
| Tested for syphilis | 299 | 523 | 57.2 | 3.7 | 468 | 630 | 72.7 | 3.4 | |

 Table 6.5: Content of antenatal care visits - best practices, among women 15-49 years who attended at

 least one antenatal care visit for most recent birth in the last two years

Most women in the second follow-up had a collected blood specimen (99.3%) and a collected urine specimen (98%) collected during their antenatal care visits for the most recent birth during the past two years.

 Table 6.6: Content of antenatal care visits - other services provided, among women 15-49 years who attended at least one antenatal care visit for most recent birth in the last two years

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | | |
|--------------------------|-----|---------|--------|-----|-----------------------|-----|------|-----|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| Collected blood specimen | 603 | 633 | 95.4 | 0.9 | 690 | 695 | 99.3 | 0.3 | | |
| Collected urine specimen | 581 | 634 | 91.0 | 1.5 | 681 | 694 | 98.0 | 0.6 | | |
| Offered an HIV test | 429 | 614 | 68.6 | 3.2 | 593 | 684 | 85.2 | 2.6 | | |
| Performed an ultrasound | 348 | 632 | 54.6 | 4.0 | 580 | 695 | 81.2 | 2.9 | | |
| Tested for diabetes | 233 | 348 | 68.6 | 3.5 | 415 | 551 | 72.7 | 2.6 | | |

6.1.4 Coverage of tetanus toxoid vaccinations during pregnancy

Tetanus toxoid injections are given during pregnancy for the prevention of neonatal tetanus. To prevent transmission of this potentially fatal infection, all women should be vaccinated with tetanus toxoid when they become pregnant. A baby is considered protected if the mother receives two doses of tetanus toxoid during pregnancy, with the second at least two weeks before delivery. However, if a woman was vaccinated previously, she only requires one dose during the current pregnancy. Five doses are considered adequate to confer lifetime immunity. To assess the coverage of tetanus toxoid vaccination, women who reported receiving any antenatal care during their most recent pregnancy were asked if they received tetanus toxoid injections.

As shown in Table 6.7, the coverage of sufficient tetanus toxoid vaccination during pregnancy was 56.2% among women who received antenatal care during the second follow-up. Thirty seven percent of women



received one vaccination during the pregnancy and 44.2% received two or more. Among women with antenatal care, 39% had never been vaccinated before and 16.7% had received a vaccine in the last 10 years. Among women who were not vaccinated during prenatal care visits, 14.2% had never been vaccinated.

Table 6.7: Coverage of tetanus toxoid vaccinations during pregnancy, among women 15-49 years who attended at least one antenatal care visit for most recent birth in the last two years

| | Baseline 2013 | | | Second Follow-Up 2017 | | |
|--|---------------|------|-----|-----------------------|------|-----|
| | n | % | SE | n | % | SE |
| Two or more injections during pregnancy | 117 | 37.3 | 2.7 | 180 | 44.2 | 3.5 |
| One injection during pregnancy, one <10 years before | 44 | 12.1 | 1.8 | 54 | 12.0 | 1.9 |
| One injection during pregnancy, none <10 years before | 67 | 20.9 | 2.9 | 105 | 24.8 | 2.4 |
| No injections during pregnancy, one or more <10 years before | 25 | 7.5 | 1.5 | 18 | 4.7 | 1.2 |
| No injections during pregnancy nor during the 10 years prior | 74 | 22.3 | 2.6 | 62 | 14.2 | 2.3 |
| Don't know | 305 | 0 | 0 | 276 | 0 | 0 |
| Decline to respond | 3 | 0 | 0 | 0 | 0 | 0 |

6.1.5 Exposure to safe pregnancy messages

Women who received antenatal care were asked about a series of topics for which they might have received counseling or advice during their pregnancy. Table 6.8 shows the percentage of women in the second follow-up who were exposed to the following messages: counseled about pregnancy (96.1%); counseled about danger signs during pregnancy (91.6%); advised to deliver in a facility (91.3%); given information about in-facility delivery (90.9%); counseled about nutrition during pregnancy (87.7%); counseled about breastfeeding (86.9%); counseled about contraception after delivery (86.6%).

Exposure to safe pregnancy practices increased from baseline to second follow-up for all counseling categories. In the second follow-up, 86.5% of women were counseled about childcare compared to 71.6% at baseline. 62.9% of women in the second follow-up, compared to 43.6% at baseline, were counseled about making a transportation plan for delivery. Compared to 38.3% of women at baseline, 52.7% of women in the second follow-up were advised to have a Cesarean section.



| | Baseline 2013 | | | | Second Follow-Up 2017 | | | |
|---|---------------|-----|------|-----|-----------------------|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Counseled about pregnancy | 567 | 634 | 89.2 | 1.9 | 666 | 694 | 96.1 | 0.8 |
| Counseled about danger signs during pregnancy | 494 | 628 | 78.7 | 2.8 | 643 | 693 | 91.6 | 1.5 |
| Advised to deliver in a facility | 523 | 632 | 82.7 | 2.4 | 633 | 692 | 91.3 | 1.2 |
| Given information about in-facility delivery | 515 | 631 | 82.0 | 2.2 | 628 | 692 | 90.9 | 1.4 |
| Counseled about nutrition during pregnancy | 494 | 629 | 78.8 | 2.3 | 611 | 694 | 87.7 | 1.7 |
| Counseled about breastfeeding | 503 | 631 | 79.5 | 2.7 | 606 | 695 | 86.9 | 2.1 |
| Counseled about contraception after delivery | 478 | 629 | 76.1 | 2.6 | 604 | 694 | 86.6 | 1.7 |
| Counseled about childcare | 450 | 629 | 71.6 | 3.0 | 605 | 693 | 86.5 | 1.7 |
| Counseled about making a transportation plan for delivery | 277 | 632 | 43.6 | 3.6 | 453 | 694 | 62.9 | 4.0 |
| Advised to have a Cesarean section | 241 | 631 | 38.3 | 3.5 | 381 | 694 | 52.7 | 4.5 |

 Table 6.8: Exposure to safe pregnancy practices, women 15-49 years of age who attended at least one antenatal care visit for most recent birth in the last two years

6.2 Delivery Care

Proper medical attention and hygienic conditions during delivery can reduce the risk of complications, infections, and even death for the mother and newborn baby. Characteristics of the delivery, including place of delivery and assistance at delivery were captured for all births in the five years preceding the survey. To reduce recall bias, only data from the most recent delivery within the last two years are summarized.

6.2.1 Place of delivery

The location of the most recent birth and the means of transportation used to get to the facility are shown in Table 6.9. The majority of births occurred in public hospitals (65.9%) and public health center/clinics (22.7%). Yet 9.2% of women reported giving birth at home or at another person's home. Deliveries in private-sector facilities were rare (1.2%). Among women who delivered in a facility, 45.2% indicated that they used a private vehicle for transport (Table 6.10).



| | Bas | eline 20 | 013 | Second Follow-Up 201 | | | |
|-------------------------------|-----|----------|-----|----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| Public hospital | 375 | 53.7 | 3.8 | 477 | 65.9 | 3.4 | |
| Public health center/clinic | 114 | 17.6 | 2.0 | 157 | 22.7 | 3.0 | |
| Own home | 136 | 21.8 | 3.9 | 56 | 8.9 | 2.0 | |
| Private hospital | 8 | 2.4 | 1.6 | 7 | 0.9 | 0.4 | |
| Other public health facility | 2 | 0.3 | 0.2 | 5 | 0.6 | 0.3 | |
| Other house | 11 | 1.6 | 0.6 | 2 | 0.3 | 0.2 | |
| Other private health facility | 1 | 0.2 | 0.2 | 1 | 0.2 | 0.2 | |
| Private health center/clinic | 14 | 1.5 | 0.5 | 1 | 0.1 | 0.1 | |
| Public health ward | 0 | 0.0 | 0 | 0 | 0.0 | (| |
| Private medical ward | 0 | 0.0 | 0 | 0 | 0.0 | (| |
| Other | 5 | 0.9 | 0.4 | 4 | 0.5 | 0.3 | |
| Don't know | 0 | 0 | 0 | 0 | 0 | (| |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | (| |

Table 6.9: Place of delivery for most recent birth in the last two years, women 15-49 years of age

Table 6.10: Transportation to place of delivery for most recent birth in the last two years, among women15-49 years of age who delivered in a facility

| | | Baselin | e 2013 | | Seco | nd Follo | ow-Up 2 | 2017 |
|----------------------|-----|---------|--------|-----|------|----------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Private vehicle | 322 | 513 | 63.0 | 3.0 | 290 | 648 | 45.2 | 3.0 |
| Other public transit | 105 | 513 | 19.6 | 2.5 | 178 | 648 | 27.6 | 2.4 |
| Ambulance | 68 | 513 | 13.4 | 1.8 | 159 | 648 | 23.9 | 2.5 |
| On foot | 45 | 513 | 9.7 | 2.9 | 52 | 648 | 7.7 | 2.0 |

*categories not mutually exclusive (select all that apply)

Women were asked about the proximity to the health facility used to deliver. Of the 648 women from the second follow-up who delivered in a facility, 331 were able to estimate the distance to the facility (Table 6.11). The median number of women reported travelling less than 12 km. Fifty percent of women traveled more than two hours to the facility to deliver.

Table 6.11: Proximity to health care facilities: health facility for delivery

| | Ν | DK/DTR | Min | 25th | Median | 75th | Max | | | | |
|-----------------------|-----|--------|-----|------------|--------|-----------|------|--|--|--|--|
| | | | | Percentile | 9 | Percentil | e | | | | |
| Baseline 2013 | | | | | | | | | | | |
| Distance, km | 67 | 446 | 0 | 4.5 | 20 | 31.5 | 100 | | | | |
| Travel time, min | 479 | 34 | 1 | 60 | 120 | 180 | 5400 | | | | |
| Second follow-up 2017 | | | | | | | | | | | |
| Distance, km | 331 | 317 | 0 | 4 | 12 | 45 | 300 | | | | |
| Travel time, min | 615 | 33 | 1 | 40 | 120 | 180 | 2400 | | | | |



6.2.2 Assistance at delivery

The assistance a woman receives during childbirth has important health consequences for both mother and child. For women who did not deliver alone in the last two years (98.4% of all births in the second follow-up), the percentage by type of delivery attendant is detailed in Table 6.12. Among women who did not report being alone for delivery, several categories of personnel may have been in attendance. As can be seen in Table 6.12, most in-facility deliveries during the second follow-up were accompanied by a medical doctor (86.8%) and/or a professional nurse (60.2%). For 44.4% of the deliveries an auxiliary nurse was in attendance. For 9.6% a midwife/comadrona was in attendance.

Table 6.12: Types of attendants: assistance at delivery for most recent birth in the last two years, women15-49 years of age

| | | Baselin | e 2013 | | Seco | nd Foll | ow-Up 2 | 2017 |
|-------------------------|-----|---------|--------|-----|------|---------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Medical doctor | 483 | 665 | 71.6 | 3.8 | 619 | 710 | 86.8 | 2.1 |
| Professional nurse | 312 | 660 | 47.1 | 3.2 | 425 | 700 | 60.2 | 3.3 |
| Auxiliary nurse | 276 | 654 | 42.0 | 3.0 | 300 | 693 | 44.4 | 3.3 |
| Midwife/comadrona | 117 | 660 | 18.8 | 3.3 | 65 | 703 | 9.6 | 1.8 |
| Laboratory technician | 14 | 659 | 2.0 | 0.7 | 20 | 697 | 2.7 | 0.8 |
| Traditional healer | 2 | 663 | 0.3 | 0.2 | 6 | 705 | 1.7 | 1.4 |
| Relative | 55 | 663 | 8.6 | 1.8 | 11 | 704 | 1.7 | 0.5 |
| Community health worker | 3 | 663 | 0.3 | 0.2 | 3 | 704 | 0.4 | 0.2 |
| Pharmacist | 2 | 663 | 0.2 | 0.2 | 1 | 704 | 0.2 | 0.2 |
| Other | 3 | 663 | 0.4 | 0.2 | 6 | 704 | 0.7 | 0.4 |

Twenty eight percent of women in the second follow-up delivered with one attendant, 39.9% with two attendants, and 25.5% with three attendants (Table 6.13). For women's most recent live birth in the past two years, 91.4% of deliveries had a skilled attendant present and 89.7% delivered with a skilled attendant in a health facility (Table 6.14).

Table 6.13: Number of attendants: assistance at delivery for most recent birth in the last two years, women 15-49 years of age

| | Bas | eline 20 |)13 | Second Follow-Up 2017 | | | | | |
|--------------------|-----|----------|-----|-----------------------|------|-----|--|--|--|
| | n | % | SE | n | % | SE | | | |
| None | 5 | 0.8 | 0.4 | 9 | 1.6 | 0.7 | | | |
| One | 250 | 38.6 | 3.0 | 201 | 28.1 | 3.2 | | | |
| Two | 237 | 33.6 | 3.3 | 288 | 39.9 | 3.5 | | | |
| Three | 162 | 25.3 | 2.8 | 179 | 25.5 | 2.2 | | | |
| Four or more | 12 | 1.7 | 0.6 | 33 | 4.9 | 1.5 | | | |
| Don't know | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 | | | |



| | | Baseline 2013 | | | | Second Follow-Up 2017 | | | | |
|--|-----|---------------|------|-----|-----|-----------------------|------|-----|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| Delivery with a skilled birth attendant | 511 | 666 | 75.6 | 3.9 | 655 | 709 | 91.4 | 2.1 | | |
| Delivery with a skilled birth attendant in any health facility | 507 | 666 | 74.9 | 3.9 | 643 | 709 | 89.7 | 2.1 | | |
| Delivery with a skilled birth attendant in a CMI or hospital | 462 | 666 | 68.6 | 3.8 | 608 | 709 | 84.7 | 2.8 | | |

 Table 6.14: In-facility delivery with skilled birth attendant: assistance at delivery for most recent birth

 in the last two years, women 15-49 years of age

6.2.3 Complications

Pregnancy complications are an important source of maternal and child morbidity and mortality. The type of delivery (vaginal or Caesarian section) among women with births in the last two years is detailed in Table 6.15 along with the percentage of planned in-facility deliveries. Table 6.16 displays the percentage of women with specific complications.

As previously described, the vast majority of births occurred in institutional settings. In 44.3% of these cases during the second follow-up, women indicated that they attended the facility for emergency care. Few women reported seizures prior to delivery (3.4%). Approximately 11.1% of infants were transferred to an intensive care unit after delivery, and 17.5% of women reported excessive bleeding after delivery (more than 1 cup over a two-day period of time).

Table 6.15: Mode of delivery for most recent birth in the last two years, women 15-49 years of age

| | Bas | eline 20 | 013 | Secor | nd Follov | v-Up 2017 |
|-----------------------------|-----------|----------|----------|----------|-----------|-----------|
| | n | % | SE | n | % | SE |
| Mode of delivery | | | | | | |
| Vaginal | 584 | 89.7 | 1.4 | 587 | 83.4 | 1.8 |
| Emergency c-section | 55 | 7.5 | 1.2 | 72 | 10.1 | 1.4 |
| Planned c-section | 25 | 2.8 | 0.7 | 50 | 6.4 | 1.2 |
| Don't know | 0 | 0 | 0 | 1 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 |
| Reason for seeking delivery | , care, a | amongi | in-facil | ity birt | hs | |
| According to birth plan | 295 | 58.6 | 3.8 | 363 | 55.0 | 2.9 |
| Because of emergency | 217 | 41.4 | 3.8 | 279 | 44.3 | 2.8 |
| Other reason | 0 | 0.0 | 0 | 5 | 0.7 | 0.4 |
| Don't know | 0 | 0 | 0 | 1 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 |



| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | |
|---|-----|---------|--------|-----|-----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Respondent experienced excessive bleeding in the first day after delivery | 169 | 659 | 25.8 | 2.9 | 126 | 707 | 17.5 | 1.9 | |
| Child entered neonatal intensive care unit after delivery | 55 | 659 | 8.2 | 1.2 | 79 | 710 | 11.1 | 1.8 | |
| Respondent experienced seizures prior to delivery | 30 | 662 | 4.5 | 0.8 | 23 | 710 | 3.4 | 0.7 | |

Table 6.16: Delivery complications for most recent birth in the last two years, women 15-49 years of age

6.2.4 Birth size and weight

Birth weight is a major determinant of infant and child health and mortality. Birth weight of less than 2.5 kilograms is considered low. For all births during the five-year period preceding the survey, mothers were asked about their perception of the child's size at birth: very large, larger than average, smaller than average, or very small. They were then asked to report the actual weight in kilograms if the child had been weighed after delivery. To reduce recall bias, only data from the most recent birth within the last two years are summarized below (Table 6.17).

In the second follow-up, many women perceived their infant to be average in size (72.6%). With most births occurring in institutional settings, it is not surprising that 92.3% of newborns were weighed at birth. Among those who were weighed, 13.4% weighed less than 2.5 kilograms according to the mother's recall (low birth weight).

| Table 6.17: Birth size and weight for most recent live birth in the past two years, women 15-49 years of | |
|--|--|
| age | |

| | Bas | eline 20 | 013 | Second Follow-Up 2017 | | | | | |
|----------------------|-----|----------|-----|-----------------------|------|-----|--|--|--|
| | n | % | SE | n | % | SE | | | |
| Very large | 35 | 5.4 | 1.2 | 20 | 2.7 | 0.7 | | | |
| Larger than average | 94 | 14.1 | 1.5 | 91 | 13.9 | 1.4 | | | |
| Average | 430 | 66.9 | 2.2 | 494 | 72.6 | 1.9 | | | |
| Smaller than average | 61 | 9.5 | 1.3 | 51 | 7.8 | 1.0 | | | |
| Very small | 26 | 4.1 | 0.7 | 19 | 3.1 | 0.8 | | | |
| Don't know | 17 | 0 | 0 | 35 | 0 | 0 | | | |
| Decline to respond | 1 | 0 | 0 | 0 | 0 | 0 | | | |

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | |
|--|-----|---------|--------|-----|-----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Child was weighed at birth | 504 | 629 | 78.5 | 3.7 | 640 | 690 | 92.3 | 1.6 | |
| Low birth weight (<2.5kg), among those weighed | 55 | 386 | 13.5 | 1.8 | 54 | 394 | 13.4 | 1.8 | |

6.3 Early initiation of breastfeeding

Coverage of early initiation of breastfeeding is defined as the percentage of women who had a live birth in the past two years and put the child to the breast with one hour of birth. Table 6.18 shows that 84.9% of women initiated breastfeeding within one hour of birth.

Table 6.18: Early initiation of breastfeeding for most recent live birth in the past two years, women 15-49years of age

| | Baseline 2013 | | | | Second Follow-Up 2017 | | | | |
|-----------------------------------|---------------|-----|------|-----|-----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Early initiation of breastfeeding | 494 | 660 | 73.8 | 2.5 | 590 | 701 | 84.9 | 1.9 | |

6.4 Postnatal Care

Postnatal care is important both for the mother and the child to treat complications arising from the delivery, as well as to provide the mother with important information on how to care for herself and her child. The postnatal period is defined as the time between the delivery of the placenta and 42 days (six weeks) following the delivery. The timing of postnatal care is important: the first two days after delivery are critical, because most maternal and neonatal deaths occur during this period.

Characteristics of postnatal care, including timing, location, and personnel providing care were captured for all births in the five years preceding the survey. To reduce recall bias, only data from the most recent delivery in the last two years are summarized in the tables below.

6.4.1 *Postnatal checkup for the mother*

Data on postnatal care for the mother are summarized in Table 6.19. Table 6.19 shows the percentage of women with a birth in the last two years who were checked at any time after delivery and within one week after delivery; and percentage by timing of the check for women with an in-facility delivery.

Only 78% of women recalled being checked after delivery during the second follow-up, and 60.4% reported being checked one week after delivery by a health care provider. Only 52.5% of women with an institutional birth recalled being checked every 15 minutes for the first hour post-partum.

Table 6.20 shows the percent distribution of women who were checked at any time after delivery by type of personnel. Among women with postnatal care visits in the second follow-up, most received care from a doctor (80.6%) or professional nurse (11.3%).



| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | |
|---|-----|---------|--------|-----|-----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Any checkup after delivery | 448 | 662 | 64.8 | 3.6 | 542 | 710 | 78.0 | 3.2 | |
| Checked every 15 minutes during the first hour after delivery, among in-facility births | 151 | 381 | 40.2 | 4.5 | 259 | 497 | 52.5 | 3.2 | |
| Checked within a week after delivery by a skilled provider | 319 | 662 | 47.0 | 3.3 | 424 | 710 | 60.4 | 3.5 | |

Table 6.19: Postnatal checkup for the mother for most recent live birth in the past two years, women15-49 years of age

Table 6.20: Provider of care at first postnatal checkup for the mother, most recent live birth in the pasttwo years, among women who attended at least one postnatal care visit

| | Bas | eline 20 | 013 | Second Follow-Up 2017 | | | | |
|-------------------------|-----|----------|-----|-----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| Doctor | 332 | 74.7 | 2.3 | 441 | 80.6 | 2.5 | | |
| Professional nurse | 49 | 11.7 | 1.9 | 57 | 11.3 | 2.1 | | |
| Auxiliary nurse | 57 | 11.8 | 2.1 | 39 | 7.5 | 2.3 | | |
| Midwife/comadrona | 6 | 1.3 | 0.5 | 2 | 0.3 | 0.2 | | |
| Relative | 0 | 0.0 | 0 | 1 | 0.2 | 0.2 | | |
| Laboratory technician | 0 | 0.0 | 0 | 0 | 0.0 | 0 | | |
| Community health worker | 2 | 0.5 | 0.3 | 0 | 0.0 | 0 | | |
| Pharmacy assistant | 0 | 0.0 | 0 | 0 | 0.0 | 0 | | |
| Traditional healer | 0 | 0.0 | 0 | 0 | 0.0 | 0 | | |
| Other | 0 | 0.0 | 0 | 0 | 0.0 | 0 | | |
| Don't know | 1 | 0 | 0 | 2 | 0 | 0 | | |
| Decline to respond | 1 | 0 | 0 | 0 | 0 | 0 | | |

6.4.2 Postnatal checkup for the infant

The results regarding postnatal care for the neonate are shown in Table 6.21: percentage of women with a birth in the last two years whose infants were checked after delivery; percent distributions of infants who were checked by skilled personnel within 24 hours of delivery; and percent distributions of infants who were checked by skilled personnel within one week of delivery.

Approximately 74.4% of women in the second follow-up reported that their infant was checked at any time after delivery. Among all deliveries, 19.8% of women reported that a qualified medical professional checked on their infant within 24 hours of delivery. Table 6.22 shows the attendants for neonatal postnatal care. Most women indicated that a doctor performed a checkup (81.7%). Auxiliary nurse and professional nurse were also reported, though much less frequently.



| | | Baseline 2013 | | | | Second Follow-Up 2017 | | | | |
|--|-----|---------------|------|-----|-----|-----------------------|------|-----|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| Any checkup after delivery | 494 | 651 | 72.5 | 3.6 | 512 | 695 | 74.4 | 2.7 | | |
| Checked within 24 hours after delivery by a skilled provider | 205 | 597 | 33.9 | 2.7 | 122 | 624 | 19.8 | 3.8 | | |
| Checked within a week after delivery by a skilled provider | | 597 | 50.0 | 3.5 | 329 | 624 | 51.4 | 3.8 | | |

Table 6.21: Postnatal checkup for neonate for woman's most recent live birth in the past two years, women 15-49 years of age

Table 6.22: Provider of care at first postnatal checkup for the infant, woman's most recent live birth in the past two years, among women whose child attended at least one postnatal care visit

| | Bas | eline 20 | 013 | Secor | Second Follow-Up 2017 | | | | |
|-------------------------|-----|----------|-----|-------|-----------------------|-----|--|--|--|
| | n | % | SE | n | % | SE | | | |
| Doctor | 366 | 76.1 | 3.0 | 421 | 81.7 | 2.6 | | | |
| Auxiliary nurse | 55 | 10.4 | 1.7 | 41 | 8.3 | 2.3 | | | |
| Professional nurse | 57 | 12.2 | 2.7 | 37 | 8.1 | 1.6 | | | |
| Community health worker | 0 | 0.0 | 0 | 5 | 1.1 | 0.6 | | | |
| Midwife/comadrona | 6 | 1.1 | 0.5 | 2 | 0.3 | 0.2 | | | |
| Relative | 1 | 0.3 | 0.3 | 1 | 0.3 | 0.3 | | | |
| Laboratory technician | 0 | 0.0 | 0 | 0 | 0.0 | 0 | | | |
| Pharmacy assistant | 0 | 0.0 | 0 | 0 | 0.0 | 0 | | | |
| Traditional healer | 0 | 0.0 | 0 | 0 | 0.0 | 0 | | | |
| Other | 0 | 0.0 | 0 | 1 | 0.2 | 0.2 | | | |
| Don't know | 9 | 0 | 0 | 4 | 0 | 0 | | | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 | | | |

6.5 Vouchers, Incentives, and Maternal Waiting Homes

To increase use of their services, some facilities and waiting homes offer vouchers and incentives to women to attend care. Table 6.23 displays the percentage of women in the second follow-up who gave birth the past two years and received a voucher at a health facility. Two percent of women received a voucher or financial assistance to attend antenatal care, 9.3% received a voucher or financial assistance for delivery at a health facility, and 5.2% received a voucher or financial assistance for postpartum or postnatal care at a health facility.



Table 6.23: Voucher incentives for care-seeking for most recent live birth in the past two years, women15-49 years of age

| | | Baselii | ne 2013 | | Second Follow-Up 2017 | | | |
|--|----|---------|---------|-----|-----------------------|-----|-----|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Received a voucher or other form of financial assistance to attend antenatal care at a health facility | 5 | 635 | 0.8 | 0.3 | 17 | 689 | 2.4 | 0.7 |
| Received a voucher or other form of financial assistance to deliver at a health facility | 45 | 507 | 10.1 | 1.9 | 64 | 645 | 9.3 | 2.1 |

| | Bas | eline 20 | 013 | Second Follow-Up 2017 | | | |
|--------------------------------|-----|----------|-----|-----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| No voucher | 502 | 97.8 | 1.1 | 618 | 94.8 | 1.4 | |
| Yes, for both woman and infant | 4 | 0.9 | 0.7 | 18 | 3.5 | 1.2 | |
| Yes, for woman's care | 6 | 1.3 | 0.6 | 11 | 1.5 | 0.7 | |
| Yes, for infant's care | 0 | 0.0 | 0 | 1 | 0.2 | 0.2 | |
| Don't know | 0 | 0 | 0 | 0 | 0 | C | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | (| |

Some facilities that attend deliveries have a **casa materna** or maternal waiting home nearby to provide women who live far away a place to stay while they await delivery or while they recover and prepare to travel home with their infant. Table 6.24 displays how women have commonly used maternal waiting homes during their most recent pregnancy in the past two years. 31.8% of women in the second follow-up report using a maternal waiting home before giving birth and 40.1% of these women report receiving counseling while staying at a maternal waiting home. On average, women stayed at a maternal waiting home for two days and spent 0 Lempira.

Table 6.24: Use of maternal waiting homes for most recent live birth in the past two years, women 15-49years of age

| | 6 | a d. E. d. | | 2047 |
|---|------|------------|------|------|
| | Seco | 2017 | | |
| | n | Ν | % | SE |
| Heard of maternal waiting home | 490 | 708 | 70.1 | 3.1 |
| Among women who have heard of maternal waiting homes Used a maternal waiting home before giving birth | 159 | 490 | 31.8 | 2.8 |
| Among women who used maternal waiting homes Received counseling on health and parenting topics while at waiting home | 61 | 153 | 40.1 | 5.5 |



| | Ν | DK/DTR | Min | 25th Percentile | Median | 75th Percentile | Max |
|--|-----|--------|-----|--------------------|--------|--------------------|------|
| Second Follow-Up 2017 | | | | | | | |
| Days spent in maternal home | 157 | 0 | 1 | 1 | 2 | 5 | 44 |
| Out-of-pocket cost to use maternal home, Lempira | 159 | 0 | 0 | 0 | 0 | 0 | 1000 |



7 Chapter 7: CHILD HEALTH

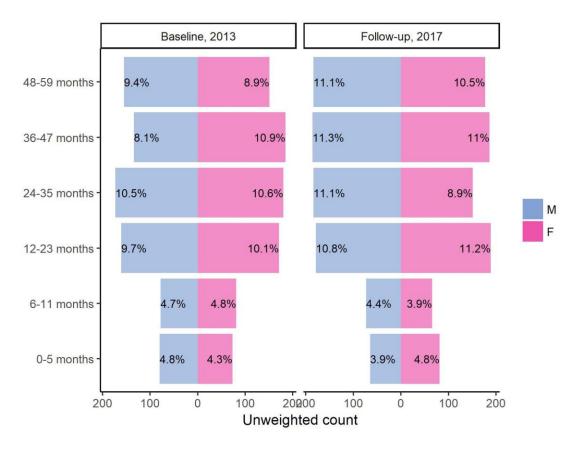
This chapter summarizes the health status of children aged 0-59 months whose caregivers participated in the SMI-Honduras Second Follow-up Household Survey. All data summarized in this chapter are based on the caregiver's report.

7.1 Health status

The age and sex distribution of the de facto population of children aged 0-59 months participating in the caregiver interview module or the anthropometric measures in Honduras is shown in Figure 7.1 by six- or 12-month age groups.

Nineteen percent of children surveyed at baseline and 17% of children surveyed at the second follow-up were under 1 year old at the time of the interview. The age distributions of female and male children are similar.

Figure 7.1: Age and sex of children aged 0-59 months in child health survey or anthropometric measures of the de facto population by six- to twelve-month age groups, unweighted





7.1.1 Current health status

Table 7.1 shows the current health status of all children aged 0-59 months, as reported by their caregivers. The table includes the caregiver's evaluation of current health relative to health the previous year and the percentage of children who can easily perform daily activities. In the second follow-up, approximately 74.7% of children's health was considered by their caregiver to be "good," "very good," or "excellent," compared to 71.9% at baseline.

Relative to the past year, caregivers in the second follow-up evaluation reported that 36.4% of children's health was "about the same" in the second follow-up. While 57.9% of children's health had improved, 5.8% of children experienced reportedly worse health on the day of the interview, compared to last year. Ninety two percent of children could "easily" perform their daily activities (e.g., playing and going to school) according to their caregivers. Seven percent of children had some degree of difficulty performing these activities, 0.6% of children had a significant degree of difficulty performing these activities, and 0.6% of children were unable to complete daily activities, according to their caregivers.

| | Base | eline 20 | 13 | Secon | d Follow | -Up 2017 | | | | | |
|--------------------------------------|------------|----------|-----|-------|----------|----------|--|--|--|--|--|
| | n | % | SE | n | % | SE | | | | | |
| Current health status | | | | | | | | | | | |
| Excellent | 367 | 21.4 | 2.1 | 442 | 24.1 | 2.5 | | | | | |
| Very good | 298 | 19.4 | 1.4 | 255 | 14.9 | 1.7 | | | | | |
| Good | 480 | 31.1 | 1.9 | 601 | 35.7 | 2.3 | | | | | |
| Fair | 381 | 23.4 | 1.2 | 366 | 21.5 | 1.5 | | | | | |
| Poor | 70 | 4.7 | 0.7 | 58 | 3.7 | 0.7 | | | | | |
| Don't know | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Health status relative to a year ago | | | | | | | | | | | |
| Better | 701 | 56.0 | 1.7 | 801 | 57.9 | 1.9 | | | | | |
| Worse | 51 | 4.1 | 0.6 | 77 | 5.8 | 0.7 | | | | | |
| About the same | 493 | 39.8 | 1.8 | 506 | 36.4 | 1.8 | | | | | |
| Don't know | 1 | 0 | 0 | 3 | 0 | 0 | | | | | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Ability to perform daily | activities | 5 | | | | | | | | | |
| Easily | 1496 | 94.2 | 0.8 | 1589 | 92.1 | 1.0 | | | | | |
| With some difficulty | 45 | 3.0 | 0.4 | 111 | 6.7 | 0.9 | | | | | |
| With much difficulty | 4 | 0.2 | 0.1 | 9 | 0.6 | 0.2 | | | | | |
| Unable to do | 36 | 2.5 | 0.6 | 12 | 0.6 | 0.2 | | | | | |
| Don't know | 15 | 0 | 0 | 1 | 0 | 0 | | | | | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |

Table 7.1: Current health status, among children aged 0-59 months

7.1.2 Recent illness

Caregivers were asked a series of questions about any illnesses or health problems that their children had in the two weeks preceding the interview. In the second follow-up survey, approximately 29% of



children were reported as sick during that time (Table 7.2). Of the 485 children who were recently ill, cough (33.2%), fever (31.3%), and diarrhea without blood (7.5%) were the most commonly specified complaints.

| | Baseline 2013 Second Follow-Up 20 | | | | | | | 017 | |
|--------------------------------------|-----------------------------------|--------|--------|-----|-----|---------|----------|--------|-----|
| | n | | N | % | SE | n | Ν | % | SE |
| Child was sick in the last two weeks | 532 | 159 | 63 | 3.9 | 1.8 | 485 | 1720 | 28.8 | 1.7 |
| | | | | | | | | | |
| | | Base | line 2 | 013 | Sec | cond Fo | ollow-Up | 0 2017 | - |
| | | n | % | SE | | n | % | SE | |
| Recent illness among children il | l in the | e last | 2 wee | eks | | | | | - |
| Cough | 1 | 56 | 29.8 | 2.8 | 164 | 4 33 | .2 | 3.4 | |
| Fever | 1 | 56 | 29.7 | 2.5 | 149 | 9 31 | .3 | 2.3 | |
| Diarrhea without blood | | 56 | 10.8 | 1.8 | 33 | 37 | .5 | 1.8 | |
| Skin rash/infection | | 10 | 2.2 | 1.1 | 10 | 63 | .5 | 0.9 | |
| Pneumonia | | 1 | 0.1 | 0.1 | - | 71 | .7 | 0.8 | |
| Eye/ear infection | | 3 | 0.7 | 0.4 | 8 | 81 | .7 | 0.8 | |
| Diarrhea with blood | | 5 | 0.7 | 0.3 | - | 71 | .6 | 0.7 | |
| Asthma | | 10 | 1.8 | 0.5 | 3 | 3 0 | .8 | 0.4 | |
| Vomiting | | 6 | 1.1 | 0.4 | 4 | 4 0 | .7 | 0.3 | |
| Abdominal pain | | 8 | 1.6 | 0.5 | 4 | 4 0 | .7 | 0.4 | |
| Bronchitis | | 6 | 1.1 | 0.5 | | 1 0 | .2 | 0.2 | |
| Headache | | 3 | 0.6 | 0.3 | | 1 0 | .2 | 0.2 | |
| Malaria | | 0 | 0.0 | 0 | (| 0 0 | .0 | 0 | |
| Tuberculosis | | 1 | 0.1 | 0.1 | (| 0 0 | .0 | 0 | |
| Anemia | | 0 | 0.0 | 0 | (| 0 0 | .0 | 0 | |
| Measles | | 0 | 0.0 | 0 | (| 0 0 | .0 | 0 | |
| Jaundice | | 0 | 0.0 | 0 | (| 0 0 | .0 | 0 | |
| Stroke | | 0 | 0.0 | 0 | (| 0 0 | .0 | 0 | |
| Diabetes | | 0 | 0.0 | 0 | (| 0 0 | .0 | 0 | |
| HIV/AIDS | | 0 | 0.0 | 0 | (| 0 0 | .0 | 0 | |
| Paralysis | | 0 | 0.0 | 0 | (| 0 0 | .0 | 0 | |
| Chest infection | | 0 | 0.0 | 0 | (| 0 0 | .0 | 0 | |
| Blood in urine | | 0 | 0.0 | 0 | (| 0 0 | .0 | 0 | |
| Difficulty urinating | | 0 | 0.0 | 0 | (| 0 0 | .0 | 0 | |
| Swelling in legs, ankles, or fee | et | 0 | 0.0 | 0 | (| 0 0 | .0 | 0 | |
| Other | | 11 | 19.7 | 3.0 | 88 | 8 16 | .9 | 2.0 | |
| Don't know | | 0 | 0 | 0 | | 0 | 0 | 0 | |

Table 7.2: Recent illness, among children aged 0-59 months

7.1.3 Utilization of health services for recent illness

Decline to respond

Table 7.3 summarizes data regarding the utilization of health services among the 485 children who were sick in the two weeks preceding the interview. The table shows the percentage of children 0-59 months who were sick in the last two weeks for whom care was sought for recent illness and among these,

0

0

0

0

0

0



the percent distribution by type of medical facility where care was sought and whether the child was hospitalized.

In the second follow-up survey, care was sought for 44.3% of these cases. Care was typically sought at CESAMO (54.4%) or CESAR (13.5%) facilities; some attended private health clinics (6.8%). Only one child was hospitalized for their recent illness.

| Table 7.3: Utilization of health services for recent illness in the last two weeks, among children 0-59 |
|---|
| months |

| | | Baselin | e 2013 | | Seco | nd Foll | ow-Up 2 | 2017 |
|---|-----|---------|--------|-----|------|---------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Sought care for recent illness | 266 | 532 | 48.9 | 3.3 | 223 | 485 | 44.3 | 2.8 |
| Child was hospitalized for recent illness | 2 | 97 | 2.1 | 1.5 | 1 | 75 | 1.7 | 1.7 |

| | Bas | eline 20 |)13 | Secor | nd Follow | /-Up 2017 |
|----------------------------------|--------|----------|-----|-------|-----------|-----------|
| | n | % | SE | n | % | SE |
| Type of medical facility where c | are wa | s sought | t | | | |
| CESAMO | 93 | 33.4 | 4.2 | 118 | 54.4 | 5.0 |
| CESAR | 116 | 45.8 | 5.9 | 29 | 13.5 | 3.6 |
| Private health clinic | 16 | 5.6 | 1.8 | 18 | 6.8 | 2.1 |
| Private doctor's office | 8 | 2.7 | 0.9 | 15 | 6.4 | 1.7 |
| Pharmacy | 4 | 0.9 | 0.6 | 14 | 5.8 | 1.4 |
| Community health worker | 1 | 0.5 | 0.5 | 9 | 4.1 | 1.6 |
| CMI | 5 | 2.2 | 1.0 | 5 | 2.5 | 1.1 |
| Public hospital | 4 | 1.3 | 0.7 | 4 | 1.9 | 1.0 |
| Private mobile clinic | 0 | 0.0 | 0 | 2 | 0.7 | 0.5 |
| Private hospital | 0 | 0.0 | 0 | 1 | 0.5 | 0.5 |
| Public mobile clinic | 0 | 0.0 | 0 | 1 | 0.4 | 0.4 |
| Other public health facility | 3 | 1.2 | 0.7 | 1 | 0.4 | 0.4 |
| Other private health facility | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Traditional healer | 1 | 0.3 | 0.3 | 0 | 0.0 | 0 |
| Other | 14 | 6.0 | 2.4 | 6 | 2.6 | 1.0 |
| Don't know | 1 | 0 | 0 | 0 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 |

7.2 Acute respiratory infection

Acute respiratory infection is a leading cause of morbidity and mortality among children. Early diagnosis and treatment with antibiotics can prevent deaths resulting from pneumonia, a common acute respiratory disease. The prevalence of acute respiratory infection was estimated by asking caregivers whether their children aged 0-59 months had been ill with a cough accompanied by short, rapid breathing in the two weeks preceding the interview. If the child had symptoms of an acute respiratory infection, the caregiver was asked about what was done to treat the symptoms and feeding practices during the illness.



7.2.1 Prevalence of acute respiratory infection and fever

The prevalence of cough, suspected acute respiratory infection, and fever among children aged 0-59 months, as reported by their caregivers, is displayed in Table 7.4. In the second follow-up, 22% of children experienced cough, 11.7% had symptoms of an acute respiratory infection, and 19.8% had a fever in the two weeks preceding the interview.

Table 7.4: Prevalence of suspected acute respiratory infection and fever in the last two weeks, among children 0-59 months

| | Base | eline 20 | 13 | Second Follow-Up 2017 | | | |
|---|------|----------|-----|-----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| Child had cough in the last two weeks, by type | | | | | | | |
| No cough | 1195 | 74.4 | 1.6 | 1356 | 78.2 | 1.5 | |
| Cough without difficulty breathing | 211 | 13.5 | 1.2 | 172 | 10.1 | 1.1 | |
| With difficulty breathing due to chest problem | 99 | 6.5 | 1.0 | 84 | 5.1 | 0.6 | |
| With difficulty breathing due to congested/runny nose | 49 | 3.2 | 0.5 | 66 | 3.9 | 0.6 | |
| With difficulty breathing due to chest problem and | 39 | 2.3 | 0.4 | 42 | 2.7 | 0.5 | |
| congested/runny nose | | | | | | | |
| With difficulty breathing due to other reason | 1 | 0.1 | 0.1 | 0 | 0.0 | 0 | |
| Don't know | 2 | 0 | 0 | 2 | 0 | 0 | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 | |

| | | Baseline | e 2013 | | Second Follow-Up 2017 | | | | |
|---|-----|----------|--------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Symptoms of acute respiratory infection in the last two weeks | 188 | 1594 | 12.1 | 1.1 | 193 | 1721 | 11.7 | 1.0 | |
| Fever in last two weeks | 329 | 1596 | 21.4 | 1.7 | 327 | 1716 | 19.8 | 1.2 | |

7.2.2 Utilization of health services for suspected acute respiratory infection

Forty four percent of children with symptoms of acute respiratory infection were taken for evaluation and/or treatment of their condition at the second follow-up (Table 7.5).

Table 7.5: Utilization of health services for suspected acute respiratory infection in the last two weeks, among children 0-59 months

| | | Baseline 2013 Second Follow-Up | | | | | | |
|---|-----|--------------------------------|------|-----|-----|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Sought care for suspected acute respiratory infection | 261 | 494 | 52.1 | 2.8 | 215 | 477 | 43.6 | 2.9 |



| | Bas | eline 20 | 013 | Secor | nd Follow | -Up 2017 |
|---------------------------------|--------|----------|-----|-------|-----------|----------|
| | n | % | SE | n | % | SE |
| ype of medical facility where o | are wa | s sough | t | | | |
| CESAMO | 91 | 33.5 | 4.4 | 107 | 50.0 | 4.5 |
| CESAR | 113 | 45.1 | 5.5 | 34 | 17.4 | 4.2 |
| Pharmacy | 5 | 1.6 | 0.8 | 19 | 8.1 | 1.9 |
| Private health clinic | 17 | 6.1 | 1.9 | 20 | 7.8 | 2.3 |
| Private doctor's office | 6 | 1.9 | 0.7 | 12 | 5.1 | 1.6 |
| Community health worker | 2 | 0.9 | 0.6 | 8 | 3.8 | 1.6 |
| Public hospital | 1 | 0.3 | 0.3 | 4 | 2.5 | 1.2 |
| CMI | 5 | 2.2 | 1.0 | 3 | 1.6 | 0.9 |
| Other public health facility | 3 | 1.2 | 0.7 | 2 | 0.8 | 0.5 |
| Private hospital | 0 | 0.0 | 0 | 1 | 0.5 | 0.5 |
| Private mobile clinic | 1 | 0.2 | 0.2 | 1 | 0.4 | 0.4 |
| Public mobile clinic | 0 | 0.0 | 0 | 0 | 0.0 | (|
| Other private health facility | 0 | 0.0 | 0 | 0 | 0.0 | (|
| Traditional healer | 2 | 0.8 | 0.6 | 0 | 0.0 | (|
| Other | 14 | 6.1 | 2.3 | 4 | 2.0 | 1.0 |
| Don't know | 1 | 0 | 0 | 0 | 0 | (|
| Decline to respond | 0 | 0 | 0 | 0 | 0 | (|

7.2.3 Utilization of medications for suspected acute respiratory infection

Eighty percent of children with symptoms of acute respiratory infection were given some type of medication for their condition during the second follow-up (Table 7.6). Forty six percent of children were administered antibiotic syrups for a suspected acute respiratory infection. Acetaminophen (71.4%) and ibuprofen (6.6%) were also commonly administered. Twenty six percent of children received a treatment other than those listed.

| | | Baselin | e 2013 | | Seco | nd Follo | ow-Up 2 | 2017 |
|--------------------------|-----|---------|--------|-----|------|----------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Any treatment | 410 | 493 | 82.6 | 2.3 | 382 | 478 | 79.8 | 2.9 |
| Antibiotic injection | 30 | 408 | 7.2 | 1.3 | 22 | 381 | 5.9 | 1.4 |
| Antibiotic pill | 24 | 408 | 6.0 | 1.2 | 31 | 381 | 8.4 | 1.8 |
| Antibiotic syrup | 216 | 408 | 50.8 | 3.3 | 183 | 381 | 46.5 | 3.4 |
| Aspirin | 8 | 407 | 1.8 | 0.6 | 4 | 381 | 1.1 | 0.5 |
| Acetaminophen | 289 | 409 | 69.5 | 2.3 | 273 | 382 | 71.4 | 2.2 |
| Ibuprofen | 44 | 408 | 10.1 | 1.9 | 24 | 380 | 6.6 | 1.3 |
| Oral rehydration therapy | 9 | 408 | 2.3 | 0.9 | 9 | 381 | 2.5 | 1.1 |
| Other | 92 | 408 | 24.7 | 3.4 | 100 | 381 | 25.8 | 3.2 |

 Table 7.6: Utilization of medications for suspected acute respiratory infection in the last two weeks, among children 0-59 months



7.2.4 Feeding practices during suspected acute respiratory infection

Data on feeding practices during the recent episode of suspected acute respiratory infection are summarized in Table 7.7. The table shows the volume of fluids and the volume of solids given during the illness. At the second follow-up, only 19.4% of children were given more fluids than usual. In total, 47% of children were offered less fluid than usual (or none at all). Twenty six percent of children were offered the same volume of solid food as usual during their illness. Approximately 72% of children were given less than the usual amount of solid food (or none at all).

Table 7.7: Feeding practices during suspected acute respiratory infection in the last two weeks, among children 0-59 months

| | Bas | eline 20 |)13 | Secor | nd Follow | -Up 2017 | | | | | | | |
|--------------------------|--|-----------|------|-------|-----------|----------|--|--|--|--|--|--|--|
| | n | % | SE | n | % | SE | | | | | | | |
| Volume of fluids (inclue | Volume of fluids (including breastmilk) given during illness | | | | | | | | | | | | |
| No fluids | 12 | 2.5 | 0.8 | 12 | 2.7 | 0.9 | | | | | | | |
| Much less | 56 | 11.4 | 1.8 | 51 | 10.9 | 1.6 | | | | | | | |
| Somewhat less | 142 | 28.4 | 2.5 | 157 | 33.2 | 3.2 | | | | | | | |
| About the same | 238 | 49.0 | 3.3 | 163 | 33.7 | 2.6 | | | | | | | |
| More | 45 | 8.7 | 1.4 | 92 | 19.4 | 2.5 | | | | | | | |
| Don't know | 1 | 0 | 0 | 3 | 0 | 0 | | | | | | | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| Volume of solid foods a | given d | uring ill | ness | | | | | | | | | | |
| No solids | 19 | 3.8 | 0.8 | 40 | 8.8 | 1.9 | | | | | | | |
| Much less | 87 | 18.5 | 2.5 | 69 | 15.2 | 2.1 | | | | | | | |
| Somewhat less | 208 | 40.3 | 2.9 | 228 | 47.8 | 3.0 | | | | | | | |
| About the same | 169 | 35.9 | 2.9 | 126 | 26.2 | 2.2 | | | | | | | |
| More | 7 | 1.4 | 0.5 | 8 | 2.0 | 0.7 | | | | | | | |
| Don't know | 4 | 0 | 0 | 5 | 0 | 0 | | | | | | | |
| Decline to respond | 0 | 0 | 0 | 2 | 0 | 0 | | | | | | | |

7.3 Diarrhea

Dehydration caused by severe diarrhea in a major cause of morbidity and mortality among children. Exposure to diarrheal disease-causing agents is frequently a result of use of contaminated water and unhygienic practices related to food preparation and disposal of feces. The prevalence of diarrhea was estimated by asking caregivers whether their children aged 0-59 months had had diarrhea in the two weeks preceding the interview. If the child had had diarrhea, the caregiver was asked about treatment and feeding practices during the diarrheal episode.

7.3.1 Prevalence

Table 7.8 shows the proportion of children aged 0-59 months with diarrhea in the two weeks preceding the interview, as reported by their caregivers (32.1% at the second follow-up). Five percent of children had bloody diarrhea.



| | Bas | eline 20 | 013 | Second Follow-Up 2017 | | | |
|------------------------|-----|----------|-----|-----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| No diarrhea | 133 | 62.2 | 4.1 | 119 | 67.9 | 4.9 | |
| Diarrhea without blood | 72 | 35.7 | 4.1 | 42 | 27.4 | 4.4 | |
| Diarrhea with blood | 5 | 2.1 | 1.0 | 7 | 4.6 | 2.6 | |
| Don't know | 10 | 0 | 0 | 7 | 0 | 0 | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 | |

Table 7.8: Prevalence of diarrhea in the last two weeks, among children aged 0-59 months

7.3.2 Utilization of health services for diarrhea

Nearly half of children with diarrhea were taken for evaluation and/or treatment of their condition (Table 7.9). Care for these children was often sought in the public sector, although private health centers were visited by 11% of these cases at the second follow-up.

Table 7.9: Utilization of health services for diarrhea in the last two weeks, among children aged 0-59 months

| | | Baseli | ne 2013 | 3 | Seco | ond Fo | ollow-Up | 2017 |
|--------------------------|----|--------|---------|-----|------|--------|----------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Sought care for diarrhea | 34 | 77 | 43.6 | 6.8 | 25 | 49 | 48.6 | 8.5 |

| | Ba | aseline 2 | 2013 | Seco | ond Follo | ow-Up 2017 |
|-----------------------------------|-------|-----------|------|------|-----------|------------|
| | n | % | SE | n | % | SE |
| Type of medical facility where of | are w | as soug | ht | | | |
| CESAMO | 13 | 41.5 | 11.1 | 17 | 70.4 | 12.1 |
| CESAR | 14 | 40.5 | 12.0 | 3 | 11.2 | 7.0 |
| Private doctor's office | 1 | 3.3 | 3.1 | 2 | 8.3 | 6.1 |
| CMI | 0 | 0.0 | 0 | 1 | 4.5 | 4.6 |
| Community health worker | 0 | 0.0 | 0 | 1 | 3.0 | 3.1 |
| Private mobile clinic | 0 | 0.0 | 0 | 1 | 2.5 | 2.6 |
| Public hospital | 1 | 2.5 | 2.5 | 0 | 0.0 | 0 |
| Public mobile clinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other public health facility | 1 | 3.8 | 3.6 | 0 | 0.0 | 0 |
| Private hospital | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Private health clinic | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other private health facility | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Pharmacy | 3 | 5.1 | 3.7 | 0 | 0.0 | 0 |
| Traditional healer | 0 | 0.0 | 0 | 0 | 0.0 | 0 |
| Other | 1 | 3.3 | 3.1 | 0 | 0.0 | 0 |
| Don't know | 0 | 0 | 0 | 0 | 0 | 0 |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 |



7.3.3 Utilization of treatments for diarrhea

A simple and effective response to dehydration caused by diarrhea is a prompt increase in the child's fluid intake through some form of oral rehydration therapy. Oral rehydration therapy may include the use of a solution prepared from commercially produced packets of powdered oral rehydration salts, commercially-produced bottled oral serums, or homemade fluids usually prepared from sugar, salt, and water. Other treatments, including zinc, may be administered as well.

Although care was sought in only 48.6% of diarrhea cases, 88.7% of cases were given some form of treatment at the second follow-up. Bottled oral rehydration serum was the most common form oral rehydration therapy (39.7%). Ten percent of cases were treated with zinc syrup or pills. Six percent of cases were treated with an antibiotic pill.

Table 7.10: Utilization of treatments for diarrhea during the last two weeks, among children aged 0-59months

| | | Baseli | ne 2013 | 3 | Seco | ond Fo | ollow-Up | 2017 |
|--|----|--------|---------|-----|------|--------|----------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Any treatment | 66 | 77 | 84.6 | 4.1 | 43 | 48 | 88.7 | 3.3 |
| Fluids | | | | | | | | |
| Bottled oral rehydration serum | 11 | 77 | 12.9 | 4.0 | 20 | 48 | 39.7 | 7.8 |
| Fluid made with powdered oral rehydration salts | 30 | 77 | 37.8 | 7.1 | 19 | 48 | 38.8 | 8.7 |
| Homemade fluid recommended by health authorities | 17 | 77 | 21.0 | 6.0 | 7 | 48 | 13.7 | 6.3 |
| Medications | | | | | | | | |
| Antibiotic pill | 16 | 77 | 21.6 | 6.5 | 3 | 49 | 5.9 | 4.4 |
| Antidiarrheal pill | 8 | 77 | 10.6 | 2.9 | 10 | 49 | 18.7 | 5.5 |
| Zinc pill | 3 | 77 | 3.5 | 1.8 | 3 | 49 | 6.0 | 4.3 |
| Other type of pill | 4 | 76 | 5.0 | 2.2 | 1 | 49 | 2.3 | 2.2 |
| Unknown pill | 4 | 76 | 5.7 | 3.2 | 0 | 49 | 0.0 | (|
| Antibiotic injection | 1 | 76 | 1.1 | 1.1 | 0 | 48 | 0.0 | (|
| Non-antibiotic injection | 0 | 76 | 0.0 | 0 | 0 | 48 | 0.0 | (|
| Unknown injection | 1 | 77 | 1.8 | 1.9 | 1 | 48 | 2.4 | 2.2 |
| Intravenous therapy | 0 | 77 | 0.0 | 0 | 0 | 49 | 0.0 | (|
| Home remedy/herbal medicine | 16 | 77 | 21.6 | 5.4 | 13 | 49 | 27.8 | 7.5 |
| Antibiotic syrup | 18 | 77 | 24.3 | 4.7 | 3 | 49 | 4.7 | 2.6 |
| Antidiarrheal syrup | 8 | 77 | 10.2 | 3.9 | 3 | 49 | 6.0 | 3.2 |
| Zinc syrup | 1 | 77 | 2.1 | 2.1 | 2 | 49 | 4.5 | 2.5 |
| Other syrup | 0 | 77 | 0.0 | 0 | 2 | 48 | 4.7 | 4.2 |
| Unknown syrup | 2 | 77 | 2.9 | 1.8 | 1 | 49 | 2.4 | 2.3 |
| Other treatment | 14 | 77 | 18.6 | 4.2 | 8 | 49 | 17.3 | 6.9 |

7.3.4 Feeding practices during diarrhea

Caregivers are encouraged to continue feeding children normally when they suffer from diarrheal diseases and to increase the fluids they are given. These practices help to prevent dehydration and minimize the adverse consequences of diarrhea on the child's nutritional status.

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Data on feeding practices during the recent diarrheal episode are summarized in Table 7.11. The table shows the volume of fluids and the volume of solids given during the illness. Only 29.8% of children were given more fluids than usual in the second follow-up survey. Approximately 44% of children were offered less fluid than usual (or none at all). Eight percent of children were offered the same volume of solid food as usual during their illness. Approximately 86% of children were given less than the usual amount of solid food (or none at all).

Table 7.11: Feeding practices among children aged 0-59 months who had diarrhea in the last two weeks

| | Ba | seline 2 | 013 | Seco | ond Follow | -Up 2017 |
|-------------------------|--------|----------|----------|-------|--------------|----------|
| | n | % | SE | n | % | SE |
| Volume of fluids (inclu | ding b | reastmi | ilk) giv | en du | ring illness | |
| No fluids | 0 | 0.0 | 0 | 0 | 0.0 | (|
| Much less | 12 | 13.4 | 3.1 | 5 | 9.1 | 4.5 |
| Somewhat less | 23 | 31.0 | 6.9 | 17 | 34.7 | 6.5 |
| About the same | 34 | 45.4 | 6.5 | 12 | 26.3 | 7.8 |
| More | 8 | 10.2 | 3.5 | 14 | 29.8 | 6.4 |
| Don't know | 0 | 0 | 0 | 1 | 0 | (|
| Decline to respond | 0 | 0 | 0 | 0 | 0 | (|
| Volume of solid foods | given | during i | llness | | | |
| No solids | 5 | 7.6 | 3.4 | 10 | 22.5 | 6.2 |
| Much less | 12 | 14.0 | 4.0 | 14 | 28.7 | 5.8 |
| Somewhat less | 35 | 47.8 | 4.1 | 17 | 34.4 | 7.4 |
| About the same | 23 | 29.1 | 4.7 | 5 | 8.5 | 3.6 |
| More | 1 | 1.5 | 1.4 | 2 | 5.9 | 3.9 |
| Don't know | 1 | 0 | 0 | 1 | 0 | (|
| Decline to respond | 0 | 0 | 0 | 0 | 0 | (|

7.4 Immunization against common childhood illnesses

Information on immunization coverage was collected for all children aged 0-59 months whose caregivers participated in the survey. Both caregiver's report and review of vaccination card (if available) were used to determine coverage. A vaccination card was available for review for 1,584 children at the second follow-up (92% of the sample, unweighted). In Table 7.12, coverage is estimated by vaccine type to include all children with full compliance for age as specified in the national immunization scheme at the time of the survey, according to either an affirmative response from the caregiver that the immunization was received, or a mark that the immunization was received on the vaccination card (for children with a vaccination card available for review at the time of the interview). Children too young to have received a specific vaccine are counted as covered in order to maintain a comparable all-ages sample across vaccine types.



| | | Baseline | 2013 | Seco | Second Follow-Up 2017 | | | |
|--|------|----------|------|------|-----------------------|------|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| BCG vaccine (tuberculosis) | 1483 | 1511 | 98.0 | 0.5 | 1663 | 1678 | 99.1 | 0.3 |
| Hepatitis B vaccine | 1177 | 1507 | 77.0 | 2.4 | 1564 | 1668 | 93.4 | 1.1 |
| Polio vaccine | 1122 | 1515 | 75.1 | 1.9 | 1339 | 1680 | 79.0 | 2.3 |
| Pentavalent vaccine (DPT, HepB, HiB) | 1338 | 1510 | 89.0 | 1.2 | 1603 | 1682 | 95.5 | 0.7 |
| Rotavirus vaccine | 1055 | 1504 | 70.4 | 1.5 | 1562 | 1673 | 93.0 | 1.0 |
| Pneumococcal conjugate vaccine | 1478 | 1570 | 94.3 | 0.7 | 1561 | 1670 | 93.6 | 0.9 |
| Measles, mumps, and rubella (MMR) vaccine | 1464 | 1525 | 96.0 | 0.6 | 1655 | 1680 | 98.4 | 0.5 |
| Diphtheria, tetanus, and pertussis (DPT) vaccine | 1215 | 1525 | 80.0 | 1.4 | 1501 | 1678 | 89.5 | 1.0 |

Table 7.12: Immunization against common childhood illnesses, children aged 0-59 months, according to caretaker recall and vaccination card

*Pneumonia vaccine was added to national vaccine scheme two years before baseline measurement, so children 24 months of age and older at baseline are compliant without receiving pneumonia vaccine.

In Table 7.13, coverage estimates based on recall are summarized for the full sample, and coverage estimates based on vaccination card data are summarized among the subset with a vaccination card available for review. When considering only caregivers' recall, only 7.3% of children aged 0-59 months were fully immunized for age at the second follow-up survey, reflecting many "Don't know" or "Decline" responses that call into question the reliability and validity of the caregiver recall data. Caregivers were able to definitively answer the entire vaccine recall section for only 915 children at the second follow-up. Immunization coverage for children 0-59 months based only upon the vaccine card is 68.5%, and when combined with recall-based information, the estimate of full vaccination for age among children 0-59 months is 60.1%.

Table 7.13: Full immunization compliance for age, children aged 0-59 months

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | |
|---------------------------------|-----|---------|--------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| According to recall + card | 613 | 1495 | 41.1 | 1.9 | 1148 | 1655 | 68.5 | 2.2 | |
| According to vaccine card | 366 | 1578 | 22.7 | 1.5 | 1035 | 1720 | 60.1 | 2.1 | |
| According to caregiver's recall | 27 | 684 | 3.9 | 0.7 | 75 | 915 | 7.3 | 1.8 | |

*Pneumonia vaccine was added to national vaccine scheme two years before baseline measurement, so children 24 months of age and older at baseline are compliant without receiving pneumonia vaccine.

7.5 Deworming treatment

Administration of deworming treatment every six months has been shown to reduce the prevalence of anemia in children. Only 26.8% of children aged 12-59 months received at least two doses of deworming treatment in the year preceding the second follow-up interview (Table 7.14).



| | Bas | eline 20 |)13 | Second Follow-Up 2017 | | | | |
|--------------------|-----|----------|-----|-----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| No deworming | 377 | 31.0 | 2.1 | 381 | 27.6 | 1.8 | | |
| One dose | 375 | 29.5 | 1.7 | 635 | 45.6 | 1.7 | | |
| Two or more doses | 483 | 39.5 | 2.4 | 363 | 26.8 | 1.6 | | |
| Don't know | 11 | 0 | 0 | 6 | 0 | 0 | | |
| Decline to respond | 0 | 0 | 0 | 0 | 0 | 0 | | |

Table 7.14: Deworming treatment among children aged 12-59 months



8 Chapter 8: INFANT AND YOUNG CHILDREN FEEDING PRACTICES

This chapter summarizes the feeding practices of infants and children aged 0-59 months whose caregivers participated in the SMI-Honduras Household Survey. All data summarized in this chapter are based on the caregiver's report.

8.1 Breastfeeding

8.1.1 Exclusive breastfeeding

Coverage of exclusive breastfeeding is defined as the percentage of infants born in the six months prior to the survey who received only breast milk during the previous day. This information is obtained through a 24-hour dietary recall in which the caregiver indicates what the child consumed during the previous day and night. In Honduras during the second follow-up, the sample includes 146 children who are under 6 months of age, and 74 of those children have sufficiently complete dietary recall information to determine whether they are exclusively breastfed. Table 8.1 shows that 51.8% of children under 6 months of age are exclusively breastfed.

8.1.2 Continued breastfeeding at 1 year

Coverage of continued breastfeeding at 1 year is defined as the percentage of children 12-15 months old who received breast milk during the previous day according to caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 133 children who are between 12 and 15 months of age, and 104 of those children have adequate responses to determine their breastfeeding status. Table 8.1 shows that 78.2% of children continue to receive breast milk at 1 year.

Table 8.1: Breastfeeding among children

| | | Baseli | ne 2013 | | Second Follow-Up 2017 | | | | |
|---|----|--------|---------|-----|-----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Exclusive breastfeeding among children <6 months | 80 | 152 | 54.8 | 4.4 | 74 | 145 | 51.8 | 5.4 | |
| Continued breastfeeding at one year among children 12-15 months | | 118 | 82.4 | 3.5 | 104 | 133 | 78.2 | 3.9 | |

8.2 Acceptable diet

8.2.1 Introduction of solid, semi-solid, or soft foods

Coverage of appropriate introduction of solid foods is measured as the percentage of infants 6-8 months of age who received solid or semi-soft foods during the previous day according to caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 57 children who are 6-8 months of age, and 50 of those children have sufficiently complete dietary recall information. Table 8.2 shows that 88.1% of children consumed solid or semi-soft foods.



8.2.2 Dietary diversity

Coverage of minimum dietary diversity is measured as the percentage of children 6-23 months of age who received foods from at least four food groups during the previous day according to caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 507 children who are 6-23 months of age, and 287 of those children have sufficiently complete dietary recall information to determine dietary diversity. Table 8.2 shows that 56.6% of children achieved the minimum dietary diversity during the previous day.

8.2.3 *Meal frequency*

Coverage of minimum meal frequency is measured as the percentage of children 6-23 months of age who received solid foods at least the minimum number of times the previous day, based on age and breastfeeding status. For breastfed children, the minimum is two times for children 6-8 months of age and three times for children 9-23 months of age. For non-breastfed children, the minimum number is four times for all children 6-23 months of age. This information is obtained through caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 507 children who are 6-23 months of age, and 327 of those children have sufficiently complete dietary recall information to determine meal frequency. Table 8.2 shows that 65.2% of children achieved the minimum meal frequency during the previous day.

8.2.4 Minimum acceptable diet

Coverage of minimum acceptable diet is measured for children 6-23 months of age. For breastfed children to meet the minimum acceptable diet they must have had at least the minimum dietary diversity and the minimum meal frequency during the previous day. For non-breastfed children to meet the minimum dietary diversity (not including milk feedings) and the minimum meal frequency during the previous day. This information is obtained through caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 507 children who are 6-23 months of age, and 189 of those children have sufficiently complete dietary recall information to determine minimum acceptable diet. Table 8.2 shows that 37% of children achieved the minimum acceptable diet during the previous day.

8.2.5 *Consumption of iron-rich or iron-fortified foods*

Consumption of iron-rich foods is measured as the percentage of children 6-23 months of age who receive an iron-rich food (e.g., liver, beef, or fish), an iron supplement, or a fortified food that is specially designed for infants and young children, or a food fortified in the home with a product that included iron during the previous day. This information is obtained through caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 507 children who are 6-23 months of age and 300 of those children have sufficiently complete dietary recall information to determine iron consumption. Table 8.2 shows that 58.7% of children consumed an iron-rich food during the previous day.



Table 8.2: Acceptable diet among children 6-23 months

| | Baseline 2013 | | | | Second Follow-Up 2017 | | | | |
|---|---------------|-----|------|-----|-----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Introduction of solid foods among children 6-8 months | 67 | 76 | 87.0 | 4.2 | 50 | 57 | 88.1 | 4.9 | |
| Minimum meal frequency among children 6-23 months | 296 | 474 | 61.6 | 3.1 | 327 | 498 | 65.2 | 3.0 | |
| Consumption of iron-rich foods among children 6-23 months | 227 | 481 | 43.7 | 3.5 | 300 | 507 | 58.7 | 3.5 | |
| Minimum dietary diversity among children 6-23 months | 199 | 481 | 39.4 | 2.8 | 287 | 507 | 56.6 | 3.9 | |
| Minimum acceptable diet among children 6-23 months | 129 | 480 | 25.8 | 2.7 | 189 | 504 | 37.0 | 3.4 | |

8.3 Micronutrient supplementation

8.3.1 Vitamin A

Interviewers asked the caregiver if their child received a dose of vitamin A in the last six months. Table 8.3 shows that of the 1,722 sampled children 0-59 months of age in the second follow-up, 72% received a dose of vitamin A in the last six months.

8.3.2 Iron

Interviewers showed the caregiver photos of common types of bottles, powders, or syrups and asked if their child received iron pills, powder, or syrup in the last day. Table 8.3 shows that of the 1,722 children 0-59 months of age in the second follow-up sample, 24.7% received a dose of iron in the last day.

Table 8.3: Vitamin A and Iron consumption among children 0-59 months

| | | Baseline | 2013 | | Seco | nd Follov | w-Up 20 |)17 |
|----------------------------------|------|----------|------|-----|------|-----------|---------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Vitamin A in the last six months | 1097 | | 71.1 | | | | 72.0 | 2.1 |
| Iron supplement the previous day | 354 | 1590 | 20.7 | 1.4 | 438 | 1717 | 24.7 | 1.8 |

8.3.3 Packets of micronutrients

Interviewers showed the caregiver a card with packets of micronutrients (chispitas) and asked how many packets their child received from a health facility and consumed in the last six months. Children are intended to take 60 consecutive daily doses of micronutrient powder in each of three rounds, beginning at age 6, 12, and 18 months, with an adequate consumption considered to be 50 packets. Table 8.4 shows that among children 6-23 months of age sampled in the second follow-up, 30.7% received no packets of micronutrients from a health facility in the last six months.



Table 8.4: Micronutrient powders among children 6-23 months

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | |
|--|-----|---------|--------|-----|-----------------------|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Received any micronutrient packets from health facility in the last six months | 105 | 477 | 19.9 | 2.3 | 358 | 506 | 69.3 | 3.4 |
| Consumed any micronutrient packets | 105 | 478 | 19.8 | 2.3 | 344 | 496 | 67.9 | 3.5 |
| Consumed adequate dose (>=50 packets) of micronutrient powders | 1 | 478 | 0.1 | 0.1 | 153 | 496 | 29.5 | 3.0 |

* Identical questions were asked in baseline and second follow-up surveys, but the second follow-up interview included photos of the micronutrient products. The baseline survey predated the intervention, so it is possible that questions about receipt and consumption were interpreted by caregivers to include different types of micronutrient supplements at baseline.



9 CHAPTER 9: NUTRITIONAL STATUS IN CHILDREN

The nutritional status of children aged 0-59 months is an important outcome measure of children's health. The SMI-Honduras Second Follow-up Household Survey collected data on the nutritional status of children by measuring the height and weight of all children aged 0-59 months residing in surveyed households, using standard procedures. Hemoglobin levels of these children were also assessed in the field, using a portable HemoCueTM machine, and these data were used to estimate anemia prevalence. As described in Chapter 1, medically trained personnel who were specifically trained to standardize the anthropometric and hemoglobin measurements conducted the testing. This evaluation allows identification of subgroups of the child population that are at increased risk of malnutrition. The parents of anemic children (hemoglobin level <11.0 g/dL, with altitude adjustment) were informed of this result in real-time and were referred for treatment to the appropriate health service.

Three indicators were calculated using the weight and height data – weight-for-age, height-for-age, and weight-for-height. For this report, indicators of the children's nutritional status were calculated using growth standards published by the World Health Organization (WHO) in 2006. The growth standards were generated using data collected in the WHO Multicenter Growth Reference Study. The findings of the study, whose sample included children in six countries (Brazil, Ghana, India, Norway, Oman, and the United States), describe how children should grow under optimal conditions. As such, the WHO Child Growth Standards can be used to assess children all over the world, regardless of ethnicity, social and economic influences, and feeding practices. The three indicators are expressed in standard deviation units from the median in the Multicenter Growth Reference Study.

A total of 1,722 children aged 0-59 months participated in the SMI-Honduras second follow-up. In practice, 1,694 of these children underwent the physical measurement module. Height and weight data are presented for 1,692 of these children (99.9%, unweighted). One thousand five hundred fifty one children 6-59 months of age were eligible for the anemia test. Hemoglobin was measured in 1,433 children (92.4%, unweighted, of children 6-59 months of age). Parental consent was refused for 110 children, three were not measured because anthropometrists could not obtain a sufficient capillary blood sample or any sample at all, and four cases were not tested for other reasons (for example, because the child did not cooperate). The age and sex distribution of children participating in the physical measurement module is displayed in Figure 9.1 and Figure 9.2.



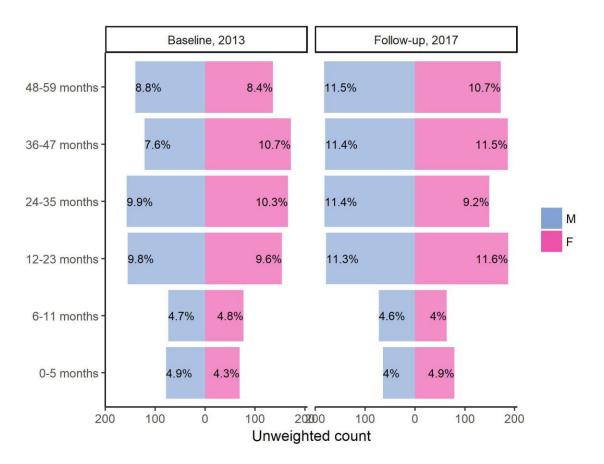


Figure 9.1: Height and weight measured: Age and sex distribution of children measured, children 0-59 months of age of the de facto population



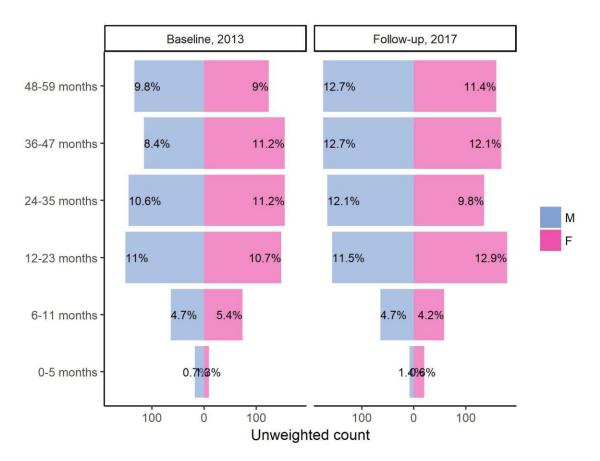


Figure 9.2: Hemoglobin measured: Age and sex distribution of children measured, children 0-59 months of age of the de facto population

9.1 Weight-for-Age

Weight-for-age is a good overall indicator of a population's general health, as it reflects the effects of both acute and chronic undernutrition. The weight-for-age indicator does not distinguish between chronic malnutrition (stunting) and acute malnutrition (wasting); a child can be underweight because of stunting, wasting, or both. Children with weight-for-age below minus two standard deviations (-2 SD) are classified as underweight. Children with weight-for-age below minus three standard deviations (-3 SD) are considered severely underweight.

9.1.1 Unweighted distribution of weight-for-age z-scores

Figure 9.3 shows the distribution of weight-for-age z-scores among all children aged 0-59 months whose measurements were taken. The vertical black lines in the figure denote minus two standard deviations – children to the left of the line are classified as underweight.



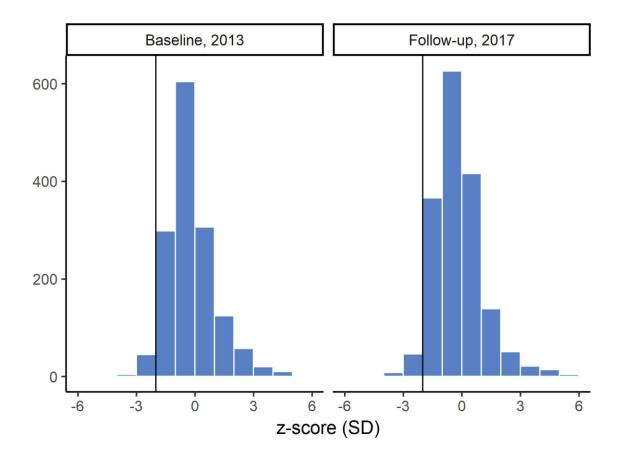


Figure 9.3: Distribution of weight-for-age z-scores among children 0-59 months, unweighted

9.1.2 Prevalence of underweight

As shown in Table 9.1, 8.3% of children aged 0-59 months in the second follow-up are underweight (have low weight-for-age) and 1.7% are severely underweight. The proportion of underweight children is highest (9.8%) in the age groups 24 to 59 months and lowest (1.2%) among those under 6 months. Female children (7.9%) are less likely to be underweight than male children (8.6%).



Table 9.1: Prevalence of underweight in children aged 0-59 months

| | | Baseline | e 2013 | | | Second | Follow-Up | 2017 | | | | | |
|--|-------|-----------|----------|---------|--------|------------|------------|------------|--|--|--|--|--|
| | n | Ν | % | SE | n | N | % | SE | | | | | |
| Prevalence of underweight in children 0-59 months, by sex and age (< -2 SD) | | | | | | | | | | | | | |
| Male | 63 | 719 | 9.2 | 1.3 | 67 | 857 | 8.6 | 1.2 | | | | | |
| Female | 43 | 765 | 5.9 | 0.9 | 61 | 837 | 7.9 | 1.3 | | | | | |
| 0-5 months | 1 | 144 | 0.9 | 0.9 | 2 | 143 | 1.2 | 0.8 | | | | | |
| 6-11 months | 2 | 150 | 1.1 | 0.8 | 2 | 136 | 1.5 | 1.1 | | | | | |
| 12-23 months | 26 | 307 | 8.7 | 1.6 | 32 | 365 | 9.4 | 1.8 | | | | | |
| 24-59 months | 77 | 883 | 9.1 | 1.4 | 92 | 1050 | 9.8 | 1.4 | | | | | |
| 0-59 months | 106 | 1484 | 7.5 | 1.0 | 128 | 1694 | 8.3 | 1.0 | | | | | |
| 6-23 months | 28 | 457 | 6.3 | 1.2 | 34 | 501 | 7.3 | 1.4 | | | | | |
| Prevalence of severe underweight in children 0-59 months, by sex and age (< -3 SD) | | | | | | | | | | | | | |
| Male | 11 | 719 | 1.4 | 0.5 | 14 | 857 | 1.8 | 0.4 | | | | | |
| Female | 10 | 765 | 1.4 | 0.5 | 13 | 837 | 1.7 | 0.5 | | | | | |
| 0-5 months | 1 | 144 | 0.9 | 0.9 | 1 | 143 | 0.7 | 0.7 | | | | | |
| 6-11 months | 1 | 150 | 0.5 | 0.5 | 1 | 136 | 1.0 | 1.0 | | | | | |
| 12-23 months | 5 | 307 | 1.4 | 0.7 | 7 | 365 | 2.2 | 0.9 | | | | | |
| 24-59 months | 14 | 883 | 1.6 | 0.7 | 18 | 1050 | 1.8 | 0.5 | | | | | |
| 0-59 months | 21 | 1484 | 1.4 | 0.4 | 27 | 1694 | 1.7 | 0.4 | | | | | |
| 6-23 months | 6 | 457 | 1.1 | 0.5 | 8 | 501 | 1.9 | 0.7 | | | | | |
| Prevalence of high | weigh | t for age | in child | lren 0- | 59 mor | nths, by s | sex and ag | e (> 2 SD) | | | | | |
| Male | 43 | 719 | 6.0 | 1.0 | 40 | 857 | 4.7 | 0.8 | | | | | |
| Female | 46 | 765 | 5.9 | 1.0 | 42 | 837 | 5.1 | 0.8 | | | | | |
| 0-5 months | 48 | 144 | 34.7 | 4.1 | 44 | 143 | 32.2 | 4.2 | | | | | |
| 6-11 months | 11 | 150 | 6.3 | 2.1 | 6 | 136 | 4.2 | 1.6 | | | | | |
| 12-23 months | 17 | 307 | 5.8 | 1.5 | 8 | 365 | 2.1 | 0.7 | | | | | |
| 24-59 months | 13 | 883 | 1.4 | 0.4 | 24 | 1050 | 2.0 | 0.5 | | | | | |
| 0-59 months | 89 | 1484 | 5.9 | 0.6 | 82 | 1694 | 4.9 | 0.6 | | | | | |
| 6-23 months | 28 | 457 | 6.0 | 1.2 | 14 | 501 | 2.7 | 0.7 | | | | | |

9.2 Height-for-Age

Height-for-age is an indicator of linear growth retardation and cumulative growth deficits in children. Children whose height-for-age z-score is below minus two standard deviations (-2 SD) from the median of the WHO reference population are considered short for their age (stunted) or chronically malnourished. Children who are below minus three standard deviations (-3 SD) are considered severely stunted. Stunting reflects failure to receive adequate nutrition over a long period of time and is affected by recurrent and chronic illness. Height-for-age, therefore, represents the long-term effects of malnutrition in a population and is not sensitive to recent, short-term changes in dietary intake.

9.2.1 Distribution of height-for-age z-scores

Figure 9.4 presents the distribution of height-for-age z-scores among all children aged 0-59 months whose measurements were taken. The vertical black lines in the figure denotes minus two standard deviations – children to the left of the line are classified as stunted.



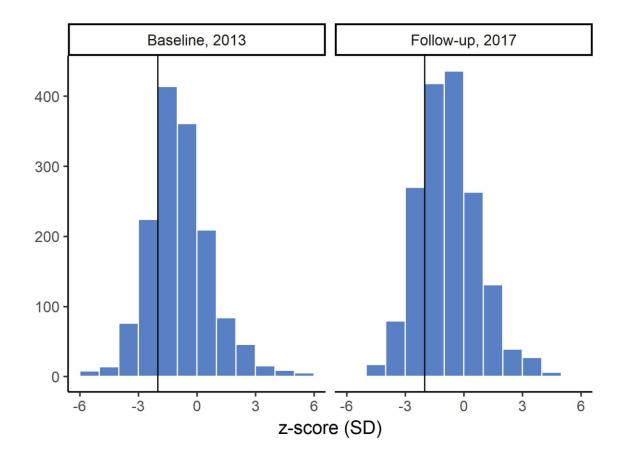


Figure 9.4: Distribution of height-for-age z-scores among children 0-59 months, unweighted

9.2.2 Prevalence of stunting

Table 9.2 presents the prevalence of stunting in children aged 0-59 months as measured by height-for-age. In the second follow-up, 23.2% of children under age 5 are stunted and 6.6% are severely stunted. Analysis of the indicator by age group shows that stunting is highest (27.8%) in children 24-59 months and lowest (3.2%) in children aged 0-5 months. Children 12-23 months old have the highest proportion of severely stunted children (8%) while the youngest age group (0-5 months) has the lowest proportion (2%). A higher proportion (25%) of male children is stunted compared with the proportion of female children (21.3%).



| | | Baseline | e 2013 | | Se | econd Fo | llow-Up 2 | 2017 | | | | |
|---|---------|------------|---------|--------|---------|----------|------------|----------|--|--|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | | | |
| revalence of stunting in children 0-59 months, by sex and age (< -2 SD) | | | | | | | | | | | | |
| Male | 166 | 718 | 25.0 | 3.2 | 204 | 855 | 25.0 | 2.5 | | | | |
| Female | 158 | 762 | 22.3 | 2.5 | 166 | 837 | 21.3 | 2.7 | | | | |
| 0-5 months | 1 | 144 | 0.9 | 0.9 | 5 | 143 | 3.2 | 1.7 | | | | |
| 6-11 months | 9 | 150 | 5.6 | 2.0 | 12 | 135 | 8.5 | 2.5 | | | | |
| 12-23 months | 71 | 305 | 25.7 | 3.6 | 85 | 365 | 24.0 | 3.2 | | | | |
| 24-59 months | 243 | 881 | 29.5 | 3.3 | 268 | 1049 | 27.8 | 2.9 | | | | |
| 0-59 months | 324 | 1480 | 23.6 | 2.6 | 370 | 1692 | 23.2 | 2.3 | | | | |
| 6-23 months | 80 | 455 | 19.1 | 2.7 | 97 | 500 | 19.9 | 2.6 | | | | |
| Prevalence of seve | ere stu | nting in d | hildren | 0-59 n | nonths, | by sex a | and age (< | : -3 SD) | | | | |
| Male | 55 | 718 | 8.7 | 1.7 | 60 | 855 | 7.8 | 1.4 | | | | |
| Female | 45 | 762 | 6.8 | 1.2 | 41 | 837 | 5.5 | 1.0 | | | | |
| 0-5 months | 1 | 144 | 0.9 | 0.9 | 3 | 143 | 2.0 | 1.2 | | | | |
| 6-11 months | 2 | 150 | 1.3 | 0.9 | 3 | 135 | 2.6 | 1.6 | | | | |
| 12-23 months | 22 | 305 | 8.2 | 1.6 | 27 | 365 | 8.0 | 2.1 | | | | |
| 24-59 months | 75 | 881 | 9.7 | 1.7 | 68 | 1049 | 7.3 | 1.2 | | | | |
| 0-59 months | 100 | 1480 | 7.7 | 1.2 | 101 | 1692 | 6.6 | 1.1 | | | | |
| 6-23 months | 24 | 455 | 5.9 | 1.2 | 30 | 500 | 6.6 | 1.6 | | | | |

Table 9.2: Prevalence of stunting in children aged 0-59 months

9.3 Weight-for-Height

The weight-for-height indicator measures body mass in relation to body height or length and describes current nutritional status. Children with z-scores below minus two standard deviations (-2 SD) are considered thin (wasted) or acutely malnourished. Wasting represents the failure to receive adequate nutrition in the period immediately preceding the survey and may be the result of inadequate food intake or a recent episode of illness causing loss of weight and the onset of malnutrition. Children with a weight-for-height index below minus three standard deviations (-3 SD) are considered severely wasted. This weight-for-height indicator also provides data on over-weight and obesity. Children more than two standard deviations (+2 SD) above the median weight-for-height are considered overweight or obese.

9.3.1 Distribution of weight-for-height z-scores

Figure 9.5 shows the distribution of weight-for-height z-scores among all children aged 0-59 months whose measurements were taken. The vertical black lines in the figure denote minus two standard deviations – children to the left of the line are classified as wasted.



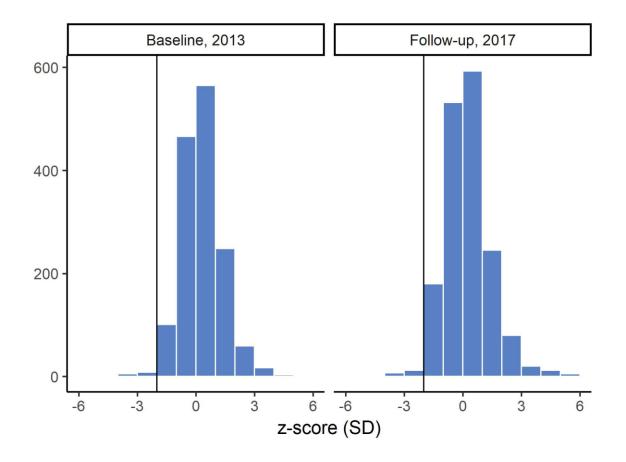


Figure 9.5: Distribution of weight-for-height z-scores among children 0-59 months, unweighted

9.4 Prevalence of Wasting

Table 9.3 shows the breakdown of nutritional status of children aged 0-59 months as measured by weight-for-height by age groups and sex. In the second follow-up, 2.8% of children are wasted and 0.8% of children are severely wasted. Analysis of the indicator by age group shows that wasting is highest (4.6%) in children 12-23 months old and lowest (1.8%) in children aged 6-11 months. Male children are more likely to be wasted than female children (3.4% to 2.2%). Male children are slightly more likely to be severely wasted (0.6%) than females (1%).

Overweight and obesity affect a greater proportion of children in SMI areas Honduras than wasting. In this sample, 5.6% of children are overweight or obese (weight-for-height more than +2 SD). The coexistence of both growth retardation and obesity reveals the burden of malnutrition in Honduras.



Table 9.3: Prevalence of underweight in children aged 0-59 months

| | | Baselin | e 2013 | | S | econd Fo | ollow-Up | 2017 | | | | |
|--|-------|------------|---------|--------|----------|----------|------------|------|--|--|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | | | |
| Prevalence of wasting in children 0-59 months, by sex and age (< -2 SD) | | | | | | | | | | | | |
| Male | 14 | 718 | 2.1 | 0.5 | 26 | 853 | 3.4 | 0.8 | | | | |
| Female | 7 | 762 | 0.9 | 0.4 | 17 | 837 | 2.2 | 0.6 | | | | |
| 0-5 months | 1 | 144 | 0.4 | 0.4 | 3 | 142 | 2.3 | 1.3 | | | | |
| 6-11 months | 3 | 150 | 2.8 | 1.8 | 2 | 135 | 1.8 | 1.3 | | | | |
| 12-23 months | 8 | 305 | 2.4 | 0.9 | 16 | 365 | 4.6 | 1.2 | | | | |
| 24-59 months | 9 | 881 | 1.1 | 0.4 | 22 | 1048 | 2.3 | 0.6 | | | | |
| 0-59 months | 21 | 1480 | 1.5 | 0.3 | 43 | 1690 | 2.8 | 0.6 | | | | |
| 6-23 months | 11 | 455 | 2.5 | 0.8 | 18 | 500 | 3.9 | 1.0 | | | | |
| Prevalence of severe wasting in children 0-59 months, by sex and age (< -3 SD) | | | | | | | | | | | | |
| Male | 7 | 718 | 1.0 | 0.4 | 5 | 853 | 0.6 | 0.3 | | | | |
| Female | 5 | 762 | 0.7 | 0.4 | 8 | 837 | 1.0 | 0.4 | | | | |
| 0-5 months | 0 | 144 | 0.0 | 0 | 1 | 142 | 0.7 | 0.7 | | | | |
| 6-11 months | 2 | 150 | 1.2 | 0.9 | 0 | 135 | 0.0 | 0 | | | | |
| 12-23 months | 4 | 305 | 1.2 | 0.6 | 4 | 365 | 1.2 | 0.5 | | | | |
| 24-59 months | 6 | 881 | 0.8 | 0.3 | 8 | 1048 | 0.8 | 0.3 | | | | |
| 0-59 months | 12 | 1480 | 0.8 | 0.3 | 13 | 1690 | 0.8 | 0.2 | | | | |
| 6-23 months | 6 | 455 | 1.2 | 0.5 | 4 | 500 | 0.9 | 0.4 | | | | |
| Prevalence of ove | rweig | ht in chil | dren 0- | 59 moi | nths, by | sex and | l age (> 2 | SD) | | | | |
| Male | 34 | 718 | 4.5 | 0.9 | 54 | 853 | 6.2 | 1.0 | | | | |
| Female | 40 | 762 | 5.4 | 0.8 | 46 | 837 | 5.1 | 0.9 | | | | |
| 0-5 months | 17 | 144 | 12.1 | 2.9 | 20 | 142 | 12.8 | 2.9 | | | | |
| 6-11 months | 18 | 150 | 12.4 | 2.6 | 5 | 135 | 3.8 | 1.6 | | | | |
| 12-23 months | 16 | 305 | 5.3 | 1.5 | 19 | 365 | 5.5 | 1.3 | | | | |
| 24-59 months | 23 | 881 | 2.5 | 0.5 | 56 | 1048 | 4.9 | 0.8 | | | | |
| 0-59 months | 74 | 1480 | 5.0 | 0.6 | 100 | 1690 | 5.6 | 0.7 | | | | |
| 6-23 months | 34 | 455 | 7.6 | 1.4 | 24 | 500 | 5.0 | 1.1 | | | | |

9.5 Anemia

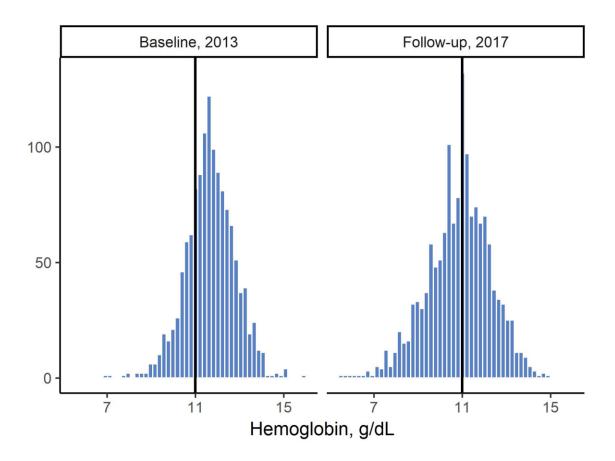
Anemia is a condition characterized by low concentration of hemoglobin in the blood. Hemoglobin is necessary for transporting oxygen to tissues and organs in the body. The reduction in oxygen available to organs and tissues when hemoglobin levels are low is responsible for most of the symptoms experienced by anemic persons. The consequences of anemia include general body weakness, frequent tiredness, and lowered resistance to disease. It is of concern in children because anemia is associated with impaired mental and motor development. Overall, morbidity and mortality risks increase for individuals suffering from anemia.

Common causes of anemia include inadequate intake of iron, folate, vitamin B12, or other nutrients. This form of anemia is commonly referred to as iron-deficiency anemia and is the most widespread form of anemia in the world. Anemia can also be the result of thalassemia, sickle cell disease, malaria, or intestinal worm infestation.

9.5.1 Distribution of hemoglobin values

Figure 9.6 shows the distribution of hemoglobin values (in g/dL) among children 0-59 months of age. The vertical black lines in the figure denote a hemoglobin concentration of 11.0 g/dL – children to the left of the line are classified as anemic.

Figure 9.6: Distribution of altitude-adjusted hemoglobin values among children 0-59 months, unweighted



9.5.2 Prevalence of anemia

Levels of anemia were classified as severe (<7.0 g/dL) and any (<11.0 g/dL) based on the hemoglobin concentration in the blood. The cutpoints for anemia are adjusted (raised) in settings where altitude is more than 1,000 meters above sea level, to account for lower oxygen partial pressure, a reduction in oxygen saturation of blood, and an increase in red blood cell production. Although some regions of Honduras are mountainous and well above 1,000 meters, the majority of the population resides at lower levels. The highest elevation of a surveyed household at the second follow-up was 1,989 meters above sea level; 24.3% of children (unweighted) lived above 1,000 meters. Correction for elevation was applied to anemia diagnosis where data collectors measured altitude over 1,000m (using a handheld GPS device).



Children whose hemoglobin levels are below 11 g/dL are considered anemic, and children who have hemoglobin levels below 7 g/dL are considered severely anemic. Table 9.4 indicates that 47.8% of children under age 5 in Honduras are anemic. Overall, the anemia prevalence is mostly mild to moderate (47.3%), with only 0.5% of children under 5 years presenting as severely anemic. Anemia prevalence is highest among children aged 0-5 months (81.8%) compared with the other children. More than 62% of all children aged 6-23 months, our targeted population for anemia intervention, were found to be anemic.

Table 9.4: Prevalence of anemia, children aged 0-59 months

| | | Baseline | e 2013 | | Seco | ond Follo | w-Up 2 | 017 |
|--------------------|----------|-----------|---------|--------|--------|-----------|--------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Prevalence of ane | nia in (| children | 0-59 m | onths, | by sex | and age | | |
| Male | 155 | 627 | 25.4 | 2.3 | 360 | 743 | 49.1 | 2.6 |
| Female | 131 | 665 | 19.7 | 2.0 | 336 | 718 | 46.4 | 2.6 |
| 0-5 months | 10 | 27 | 37.2 | 8.0 | 22 | 28 | 81.8 | 8.5 |
| 6-11 months | 57 | 138 | 41.2 | 4.9 | 99 | 122 | 81.5 | 3.9 |
| 12-23 months | 96 | 299 | 32.2 | 3.2 | 188 | 336 | 55.2 | 3.5 |
| 24-59 months | 123 | 828 | 15.4 | 1.7 | 387 | 975 | 39.7 | 2.1 |
| 0-59 months | 286 | 1292 | 22.5 | 1.8 | 696 | 1461 | 47.8 | 1.8 |
| 6-23 months | 153 | 437 | 35.0 | 3.0 | 287 | 458 | 62.0 | 3.0 |
| Prevalence of seve | re ane | mia in cl | hildren | 0-59 m | onths, | by sex a | nd age | |
| Male | 0 | 627 | 0.0 | 0 | 5 | 743 | 0.6 | 0.4 |
| Female | 0 | 665 | 0.0 | 0 | 4 | 718 | 0.4 | 0.2 |
| 0-5 months | 0 | 27 | 0.0 | 0 | 0 | 28 | 0.0 | 0 |
| 6-11 months | 0 | 138 | 0.0 | 0 | 1 | 122 | 0.8 | 0.8 |
| 12-23 months | 0 | 299 | 0.0 | 0 | 4 | 336 | 1.0 | 0.5 |
| 24-59 months | 0 | 828 | 0.0 | 0 | 4 | 975 | 0.3 | 0.2 |
| 0-59 months | 0 | 1292 | 0.0 | 0 | 9 | 1461 | 0.5 | 0.2 |
| 6-23 months | 0 | 437 | 0.0 | 0 | 5 | 458 | 0.9 | 0.4 |



APPENDIX A. SAMPLING DESIGN AND METHODOLOGY

A.1 Sample Size

Sample sizes were determined based on IDB's pre-specified plan for the second follow-up measurement to complete a full census of sampled segments (described in section A.2 "Sampling Procedures," below), followed by a survey of 1,714 selected eligible households in intervention areas, and 750 selected eligible households in comparison areas. Households were eligible if they had at least one child aged 0-59 months or one woman aged 15-49 years.

In order to achieve the desired sample size of 1,714 households, we sought to complete interviews with residents of 30 randomly selected households in each of the 56 randomly selected segments in intervention areas (25 in comparison areas). More specifically, we drew a sample of 30 randomly selected households with age-eligible women and/or children as residents, and then drew a backup sample of 10 households from the remaining households with eligible participants in the segment. In some cases, selected households were absent or declined to participate in the SMI-Honduras Household Survey. These households were replaced in order by households from the backup sample for the same segment. In each selected household, all eligible women and children were selected to participate in the study. Informed consent was sought from each respondent to the household questionnaire and women's health interview, and from the guardian of each child participating in physical measurements. Occasionally, one or more eligible participants refused the interview despite other household members participating, or a survey was refused in course, resulting in a partially complete household result. Because multiple interviewers worked the sample simultaneously, in a handful of instances more than 30 surveys were completed. In the second follow-up, counts of complete households by segment range from 28 to 33 households. Twelve segments with fewer than 30 complete households had one or two partially complete households, and two segments with 30 complete households have additional partially complete households. Data from partially complete households are used wherever individual modules are sufficiently complete.

A.2 Sampling Procedures

IDB identified 18 intervention municipalities in which to conduct the SMI household survey for the Initiative on the basis of their high concentration of residents in the country's lowest wealth quintile, and 16 comparison municipalities with similar socioeconomic characteristics and ethnic composition. From these 33 municipalities, a two-stage clustered random sample of eligible households was selected.

In this section, we describe the random sampling procedures for selecting the segments from the target area, and the households within the segment. An alternative sample was also selected in the event that the survey could not be conducted in the selected segments. Below we describe the selection of the primary and alternate samples.

A.2.1 Cluster sampling

Cluster sample sizes were determined based on the total estimated household sample size divided by a fixed cluster size " μ " of 30 households per segment. The primary sample at the second follow-up



of 56 intervention and 25 comparison clusters (segments) was randomly selected from a total of 281 intervention segments in 18 municipalities and 190 comparison segments in 16 municipalities which, based on data from the 2013 Honduras Population Census, contained 52,312 and 57,490 occupied households, respectively. As stated previously, segments were selected in each study arm with probability proportional to size and with replacement, as follows:

Size was represented by the number of occupied households within the segment, based on data from the 2013 Honduras Population Census. We generated a variable for the cumulative number of households in each of the intervention and comparison sampling frames. We divided the cumulative total by the number of segments we meant to sample to obtain an interval length " Δ ." A random starting point " Σ " was drawn from a uniform distribution between 1 and the interval length Δ . The nth segment in the sample was the first segment whose cumulative number of households was greater than $\Sigma + (n - 1) * \Delta$.

After selecting the 81 total segments to be surveyed, a set of 20 alternate segments in intervention areas and 15 alternate segments in comparison areas were randomly selected with probability proportional to size. These segments could be used in the event that any of the selected segments could not be surveyed and needed to be replaced due to security concerns, community rejection of the study, or a high proportion of absent households. In Honduras in the 2017 follow-up survey, four segments in intervention areas were replaced due to security concerns. Of the two segments requiring replacement in Dulce Nombre de Culmí, Olancho, one was replaced with an alternate segment from the same municipality, and the second was replaced with a randomly selected alternate from intervention areas outside Dulce Nombre de Culmí due to widespread security concerns in Olancho. The two segments requiring replacement in Cabañas, Copán were substituted with randomly selected alternates from other intervention municipalities within Copán department after it was determined that surveying in the alternate segments of Cabañas municipality posed excessive risk. During implementation of the baseline SMI census, no alternate segments were surveyed.

A.2.2 Household sampling

Within each randomly selected cluster, a complete household listing exercise was carried out, enabling the systematic selection of households for participation in the survey, based on household composition. All households in which women aged 15-49 years and/or children aged 0-59 months resided were eligible to be selected for the survey. Eligible households were sorted according to a random variable. The first 25 households with eligible children were selected for participation. The first five households with eligible women only were selected to complete the sample of 30 households. Ten additional households were identified as an alternate sample, eight with eligible children and two with eligible women only. These alternate households were substituted in order for selected households that were absent throughout the data collection or refused participation in the study.



APPENDIX B. SURVEY WEIGHTS, SAMPLING ERROR, AND DESIGN EFFECTS

B.1 Weighting Methodology

Survey weights reflect the three-stage cluster sampling design of the study. The primary sampling unit is referred to as the "segment." The segment is censused, and 30 households with eligible participants selected at random. Within selected households, all women 15-49 years of age and all children 0-59 months of age are selected for participation in the survey. Design weights for households, women and children were generated according to the inverse probability of selection of the unit and incorporated into the merged datasets for analyses. The weights were calculated as follows for households:

Weight =

 $\frac{1}{p(selecting Household Y)} = \frac{1}{p(selecting Segment X) * p(selecting Household Y in segment X)}$

where

p(selecting Segment X)

= # occupied households in Segment X in 2013 Population Census Total # occupied households in target municipalities in 2013 Population Census * # draws

and the number of draws corresponds to the number of segments in the corresponding study arm (56 for intervention areas and 25 for comparison areas at the second follow-up), and the total number of occupied households in target municipalities in the 2013 Honduras Population Census corresponds to 52,312 in intervention areas and 57,490in comparison areas, and

if the household includes children under 5 according to the SMI-Honduras census:

p(selecting household Y in segment X)

= # households with age-eligible children interviewed for SMI in segment X # occupied households with age-eligible children in Segment X from SMI census

or if the household does not include children under 5 according to the SMI-Honduras census:

p(selecting household Y in segment X)

households with eligible women but no eligible children interviewed for SMI in segment X # occupied households with age-eligible women but no children in Segment X from SMI census.

Minor modifications to this formula were used to calculate weights for women and children as follows: p(selecting woman Z)

 $= \frac{p(selecting Segment X) * p(selecting Household Y in Segment X)}{average number of women 15-49 years old per household in SMI census} * p(selecting Woman Z in household Y)$



where the average number of women 15-49 years old per household in the sample was 1.078576 in intervention areas and 1.114975 in comparison areas (according to the SMI-Honduras Household Census), and

if the household includes children under 5 according to the SMI-Honduras census:

p(selecting Household Y in Segment X)

= $\frac{\# households with eligible children completing women's health survey for SMI in Segment X}{\# occupied households with age-eligible children in Segment X from SMI census}$

or if the household does not include children under 5 according to the SMI-Honduras census:

p(selecting Household Y in Segment X)

```
= \frac{\# households with eligible women but not children completing women's health survey for SMI in Segment X}{\# occupied households with age-eligible women but not children in Segment X from SMI census}
```

and

p(selecting Woman Z in Household Y) =

women in Household Y completing the survey # women 15-49 years old residing in Household Y from SMI census'

and

p(selecting Child W)

```
= \frac{p(selecting Segment X) * p(selecting Household Y in Segment X)}{average number of children 0-59 months old per household in sample} * p(selecting child W in Household Y)
```

where the average number of children 0-59 months old per household in the sample was 0.47444 in intervention areas and 0.4484817 in comparison areas (according to the SMI-Honduras Household Census), and

p(selecting Household Y in Segment X)

= # households completing children's health survey for SMI in Segment X # occupied households with age-eligible children in Segment X from SMI census'

and

p(selecting Child W in Household Y)

```
= # children in Household Y completing the survey
# children 0-59 months residing in Household Y from SMI census.
```

The weights yielded results which were similar to the unweighted results.



B.2 Sampling Errors

As described in Appendix A, a random sample of eligible households was selected from each of 56 clusters (segments) in intervention areas and 25 clusters in comparison areas which had been randomly sampled with probability proportional to size from the target intervention and comparison areas of the initiative. Although cluster sampling can improve efficiency when the target population is spread out over a large area, the resultant sample consists of observations that are not completely independent of one another. The standard errors presented throughout this report and in Appendix C account for this intra-class correlation, using Taylor-linearized variance estimation.

APPENDIX C. SMI HOUSEHOLD INDICATORS

Table C.1: Performance of payment indicators, SMI-Honduras Second Follow-up Survey

| | | Baseline 2013 | | | Second Follow-Up 2017 | | | | | |
|------|--|---------------|-----|------|-----------------------|-----|-----|------|-----|--|
| | Indicator | n | Ν | % | SE | n | Ν | % | SE | |
| 4010 | Women (age 15-49) delivered in CMI/hospital with skilled attendant in their most recent pregnancy in the last two years | 462 | 666 | 68.6 | 3.8 | 608 | 709 | 84.7 | 2.8 | |
| 4030 | Women (age 15-49) who received postpartum care within 7 days with skilled personnel in their most recent pregnancy in the last two years | 319 | 662 | 47.0 | 3.3 | 424 | 710 | 60.4 | 3.5 | |
| NA | Children (6-23 months) consumed at least 50 doses of micronutrients in the last 6 months | 1 | 477 | 0.1 | 0.1 | 153 | 496 | 29.5 | 3.0 | |

Table C.2: Performance of monitoring indicators, SMI-Honduras Follow-up Survey

| | | | Baselin | e 2013 | | Seco | ond Follo | w-Up 20 | 17 |
|------|---|-----|---------|--------|-----|------|-----------|---------|-----|
| | Indicator | n | Ν | % | SE | n | Ν | % | SE |
| 2010 | Women (age 15-49) currently using (or whose partner is using) a modern method of family planning | 685 | 969 | 69.3 | 3.2 | 902 | 1198 | 75.4 | 2.6 |
| 1080 | Women aged 15-49 with a live birth in the last year | 290 | 1847 | 10.2 | 0.8 | 247 | 2124 | 7.0 | 0.6 |
| 1090 | Women aged 15-19 with a live birth in the last year | 63 | 388 | 10.7 | 1.5 | 52 | 408 | 7.4 | 1.2 |
| 2020 | Women (age 15-49) who did not wish to become pregnant and who were not using/not have access to family planning methods (temporary and permanent) | 284 | 969 | 30.7 | 3.2 | 296 | 1198 | 24.6 | 2.6 |
| 2030 | Women (age 15-49) who report having stopped using a method of family planning during the previous year | 19 | 762 | 2.1 | 0.6 | 29 | 941 | 2.3 | 0.8 |
| 4110 | Women (age 15-49) with a birth in the last two years who can recognize at least 5 danger signs in newborns | 111 | 584 | 20.5 | 2.4 | 186 | 600 | 33.6 | 3.7 |
| 6010 | Women 15-49 who report having any illness in the past two weeks | 403 | 1847 | 24.3 | 2.0 | 324 | 2122 | 17.5 | 1.5 |
| 6020 | Women (age 15-49) who report having any illness in the past two weeks but did not seek health care | 267 | 403 | 68.5 | 3.6 | 212 | 324 | 61.9 | 4.9 |
| 6130 | Women who reported satisfaction with health care services at their most recent visit to a health facility | 958 | 995 | 96.5 | 0.8 | 1306 | 1366 | 96.3 | 0.7 |
| 6140 | Women who reported satisfaction with cleanliness of the facility at their most recent visit to a health facility | 646 | 998 | 64.4 | 2.8 | 980 | 1364 | 75.2 | 2.3 |
| 6150 | Women who reported satisfaction with competence of the medical personnel at their most recent visit to a health facility | 963 | 984 | 98.2 | 0.6 | 1310 | 1362 | 97.3 | 0.6 |
| 6160 | Women who reported they were treated with respect at their most recent visit to a health facility | 678 | 1002 | 71.3 | 2.2 | 957 | 1368 | 73.5 | 2.7 |
| 3010 | Women (age 15-49) who received at least one antenatal care visit by skilled personnel in their most recent pregnancy in the last two years | 543 | 666 | 80.9 | 2.8 | 664 | 710 | 92.9 | 2.0 |
| 3020 | Women (age 15-49) who received at least four antenatal care visits by skilled personnel in their most recent pregnancy in the last two years | 444 | 660 | 65.2 | 3.4 | 596 | 696 | 84.4 | 2.5 |
| 4020 | Women (age 15-49) who received postpartum care by skilled personnel within the first 48 hours in their most recent pregnancy in the last two years | 275 | 662 | 40.9 | 3.2 | 249 | 710 | 36.3 | 3.5 |
| 4035 | Women (age 15-49) who received postpartum care by skilled personnel between 7 and 42 days after delivery in their most recent pregnancy in the last two years | 113 | 662 | 15.3 | 2.0 | 231 | 710 | 32.6 | 3.9 |
| | | | | | | | | | |



(continued)

| | | | Baselin | e 2013 | | Seco | ond Follo | w-Up 20 | 17 |
|------|--|-----|---------|--------|-----|------|-----------|---------|-----|
| | Indicator | n | Ν | % | SE | n | Ν | % | SE |
| 4040 | Women (age 15-49) who received postpartum care by skilled personnel within 24 hours after delivery, a second check before 7 days, and a third check between 7 and 42 days after delivery in their most recent pregnancy in the last two years | 8 | 662 | 0.9 | 0.4 | 21 | 710 | 3.0 | 0.8 |
| 4100 | Infants receiving neonatal care by skilled personnel in a health facility within 48 hours of birth in the last two years | 279 | 630 | 43.2 | 3.3 | 183 | 636 | 29.0 | 4.2 |
| 4101 | Infants receiving neonatal care by skilled personnel in a health facility within 24 hours of birth in the last two years | 221 | 630 | 34.5 | 2.7 | 124 | 636 | 19.7 | 3.7 |
| 5050 | Children born in the last two years who were breastfed within one hour after birth | 519 | 701 | 73.1 | 2.4 | 602 | 714 | 85.0 | 1.9 |
| 5060 | Children 0-59 months who received ORS and zinc in the last episode of diarrhea in the past two weeks | 0 | 77 | 0.0 | - | 4 | 49 | 8.3 | 4.1 |
| 4145 | Children (0-59 months) with pneumonia symptoms who received antibiotics | 80 | 138 | 54.8 | 6.8 | 66 | 126 | 51.5 | 6.1 |
| NA | Children (0-59 months) fully vaccinated for age, according to vaccine card and recall | 613 | 1495 | 41.1 | 1.9 | 1148 | 1655 | 68.5 | 2.2 |
| 5010 | Children 12-59 months who received 2 doses of deworming in the last year | 483 | 1235 | 39.5 | 2.4 | 363 | 1379 | 26.8 | 1.6 |
| 5040 | Children 0-5 months who were exclusively breastfed on the previous day | 80 | 152 | 54.8 | 4.4 | 74 | 145 | 51.8 | 5.4 |
| 5075 | Children 6-23 months who consumed at least 60 packets of micronutrients (complete dose) in the last 6 months | 0 | 478 | 0.0 | - | 133 | 496 | 25.8 | 2.9 |
| 5080 | Children 12-15 months who were breastfed on the previous day | 98 | 118 | 82.4 | 3.5 | 104 | 133 | 78.2 | 3.9 |
| 5090 | Children 6-8 months who received solid or semi-solid food on the previous day | 67 | 76 | 87.0 | 4.2 | 50 | 57 | 88.1 | 4.9 |
| 5100 | Children 6-23 months who received foods from 4 or more food groups during the previous day | 199 | 481 | 39.4 | 2.8 | 287 | 507 | 56.6 | 3.9 |
| 5110 | Children 6-23 months breastfed or complimentary feeding who received solid, semi-solid, or soft foods the minimum number of times or more during the previous day | 296 | 474 | 61.6 | 3.1 | 327 | 498 | 65.2 | 3.0 |
| 5120 | Children 6-23 months who received the minimum acceptable diet (apart from breastmilk) during the previous day | 129 | 480 | 25.8 | 2.7 | 189 | 504 | 37.0 | 3.4 |
| 5130 | Children 6-23 months who received iron-rich or iron-fortified foods during the previous day | 227 | 481 | 43.7 | 3.5 | 300 | 507 | 58.7 | 3.5 |
| 6030 | Children (0-59 months) who had any illness in the past two weeks, according to report of mother or caregiver | 532 | 1596 | 33.9 | 1.8 | 485 | 1720 | 28.8 | 1.7 |
| 6040 | Children (0-59 months) who had any illness in the past two weeks but did not seek health care, according to report of mother or caregiver | 4 | 521 | 0.8 | 0.5 | 3 | 482 | 0.6 | 0.4 |
| 1060 | Children 6-23 months with hemoglobin <110g/L | 153 | 437 | 35.0 | 3.0 | 287 | 458 | 62.0 | 3.0 |
| 1070 | Children 0-59 months with height < -2 SD of the mean of the reference population for age | 324 | 1480 | 23.6 | 2.6 | 370 | 1692 | 23.2 | 2.3 |



| | | В | aseline 20 | 13 | Second Follow-Up 2017 | | | |
|------|--|------|------------|-------|-----------------------|--------|-------|--|
| | Indicator | N | mean | SE | N | mean | SE | |
| 6090 | Average out-of-pocket household itemized health expenditure for the last month (L) | 1496 | 192.7 | 44.1 | 1679 | 183.5 | 43.4 | |
| 6100 | Average household itemized expenditure for the last month (L) | 1524 | 3276.6 | 168.0 | 1681 | 4093.7 | 214.6 | |
| 6080 | Average travel time to nearest health facility (min) | 1772 | 55.8 | 7.1 | 2042 | 57.7 | 8.4 | |
| 6085 | Average distance to nearest health facility (km) | 468 | 4.6 | 0.9 | 1319 | 6.3 | 1.5 | |
| 6120 | Average wait time at most recent visit to a health facility (min) | 976 | 79.8 | 6.7 | 1298 | 94.9 | 6.9 | |
| 6082 | Average travel time to delivery location for most recent birth in the last two years (min) | 479 | 148.6 | 13.4 | 615 | 145.1 | 10.4 | |



APPDENDIX D. COMPARISON AREAS

D1. CHAPTER 1

D1.1 Report structure

The chapters in the main body of the report present characteristics of the surveyed SMI-Honduras sample in intervention areas only. Each table is presented for comparison areas only in Appendix D, and pooled intervention and comparison areas in Appendix E. Most tables take one of three types. Tabulations of select-only-one question types are mutually exclusive, so the proportions sum to 100%. Counts are shown for non-response ("Don't know" or "Decline to respond" recorded), but these cases are always excluded from the denominator.

Tabulations of select-all-that-apply question types do not have mutually-exclusive categories, as respondents can report more than one option, and thus proportions do not sum to 100%. The table shows affirmative cases (n) and non-missing cases (N). Non-response is the difference between non-missing cases (N) and the total sample eligible for that section of the questionnaire, indicated at the start of the chapter. Where statistics are reported for subpopulations, the size of the subpopulation is reported in the same table or the preceding table for straightforward comparison.

Tabulations of continuous variables, where respondents were requested to provide a numeric response, present the range and quartiles (25th percentile, median, 75th percentile) in order to illustrate the distribution of responses across the sample. Counts of non-response are listed in the table and excluded from the count of non-missing cases (N).



D2. CHAPTER 2: CHARACTERISTICS OF HOUSEHOLDS

This chapter provides a descriptive summary of the basic demographic, socioeconomic, and environmental characteristics of the households sampled for the SMI-Honduras Baseline and Second Follow-up Household Survey.

D2.1 Characteristics of Participating Households

A total of 756 households in the Honduras second follow-up completed the household characteristics questionnaire. In the baseline, 1,445 completed the survey. The remainder of this chapter is dedicated to a summary of the basic demographic, socioeconomic, and environmental characteristics of the households completing the household characteristics questionnaire.

D2.2 Age and Sex Composition, SMI Census

The unweighted distribution of the de facto household population in the surveyed households in the SMI-Honduras household census by five-year age groups and by sex is shown for baseline (Figure D2.1) and second follow-up (Figure D2.2). Honduras has a larger proportion of its population in the younger age groups than in the older age groups. Figure D2.2 indicates that in the second follow-up, just under 34% of the population in the Second Follow-up is under age 15 years, more than half (61%) of the population is in the economically productive age range (15-64), and the remaining 6% is age 65 and above.



Figure D2.1: Age and sex of census sample, unweighted percent distribution of de facto household population by five-year age groups, baseline survey

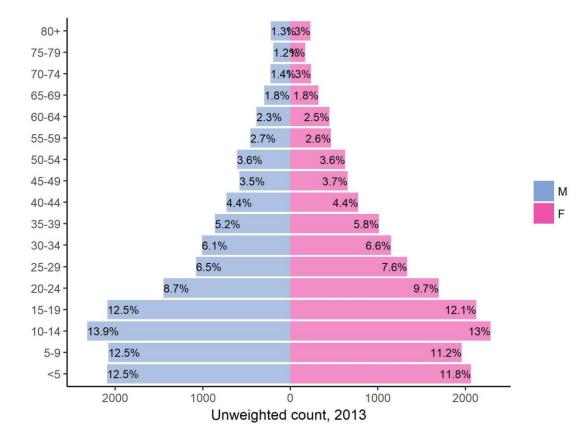
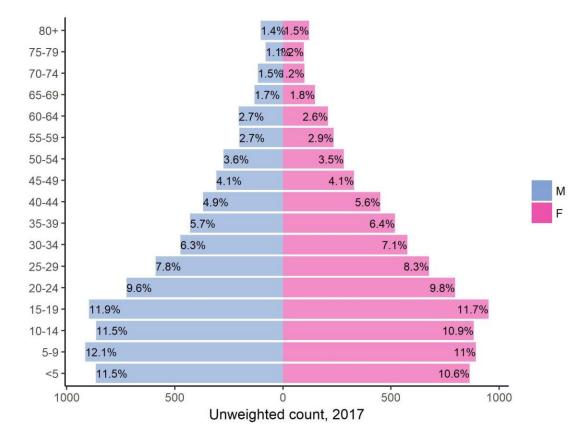




Figure D2.2: Age and sex of census sample, unweighted percent distribution of de facto household population by five-year age groups, follow-up survey



D2.3 Household Characteristics, SMI Household Survey

The number of households, women and children in the sample are displayed in Table D2.1; and the percent distribution of households by head of household, number of usual members, and marital status are shown in Table D2.2.

Seventy three percent of households in Honduras identify as dual-headed in the second follow-up. Males are the head of the household in 4.5% of surveyed households in Honduras, with females as the head of household in the remaining 22.4%. The median household size in Honduras is five members, with another 15% of households having six or more members.

Table D2.1: SMI household survey sample sizes: number of total households, women 15-49 years of age, and children 0-59 months

| | Baseline 2013 | Second Follow-Up 2017 |
|------------|---------------|-----------------------|
| Households | 1445 | 756 |
| Women | 1712 | 975 |
| Children | 1521 | 770 |



Table D2.2: Household characteristics, SMI household sample

| | Base | Baseline 2013 | | | Second Follow-Up 2 | | | |
|-----------------------|------|---------------|-----|-----|--------------------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| Head of household | | | | | | | | |
| Dual-headed household | 1101 | 77.0 | 1.7 | 559 | 73.2 | 2.0 | | |
| Single head, female | 293 | 19.7 | 1.5 | 167 | 22.4 | 1.9 | | |
| Single head, male | 51 | 3.3 | 0.4 | 30 | 4.5 | 1.0 | | |

Dual-headed households are those where (a) two individuals were identified as "head" by the respondent or (b) both the person identified as "head" and his or her spouse or partner are household members

| | Ν | DK/DTR | Min | 25th | Median | 75th | Max |
|--|------|--------|-----|------------|--------|------------|-----|
| | | | | Percentile | 9 | Percentile | 2 |
| Baseline 2013 | | | | | | | |
| Number of usual household members | 1445 | 0 | 1 | 4 | 5 | 6 | 16 |
| Second follow-up 2017 Number of usual household members | 756 | 0 | 1 | 4 | 5 | 6 | 15 |

D2.4 Drinking Water Access and Treatment

D2.4.1 Sanitation facilities and waste disposal

A household's source of drinking water is an important determinant of the health status of household members. Contaminated drinking water can spread waterborne diseases, such as diarrhea or dysentery. Piped water, protected wells, and protected springs are expected to be relatively free of these diseases; whereas other sources like unprotected wells, rainwater, or surface water are more likely to carry disease-causing agents.

The percent distribution of households by source of drinking water, location of water source, and information about sanitation facilities is shown in Table D2.3. The majority of surveyed households (67.4%) have water piped to dwelling, and 32.6% of households have to go outside their home or yard to a water source.

Many households (43.6%) use a flush toilet and 37.8% of households use a pour flush toilet. Five percent of households report having no toilet, compared to 12.3% at baseline.



Table D2.3: Household water source and sanitation facilities

| | Base | eline 20 | 13 | Seco | nd Foll | ow-Up 2017 |
|--------------------------------|----------|----------|-----|------|----------|------------|
| | n | % | SE | n | % | S |
| Household water source | | | | | | |
| Piped to dwelling | 1198 | 81.6 | 3.3 | 503 | 67.4 | 4.4 |
| Piped to yard/plot | 63 | 5.0 | 1.0 | 179 | 22.8 | 4.3 |
| Bottled water | 17 | 1.0 | 0.4 | 32 | 2.8 | 1.3 |
| Protected dug well | 47 | 3.5 | 1.1 | 12 | 2.2 | 1.2 |
| Unprotected dug well | 27 | 2.1 | 0.7 | 10 | 1.6 | 0. |
| Surface water | 14 | 1.1 | 0.4 | 5 | 0.9 | 0.0 |
| Tubewell/borehole | 29 | 2.2 | 1.2 | 2 | 0.3 | 0.3 |
| Unprotected spring | 7 | 0.4 | 0.3 | 2 | 0.3 | 0.2 |
| Rainwater collection | 0 | 0.0 | - | 2 | 0.3 | 0.2 |
| Water jug | 3 | 0.2 | 0.1 | 3 | 0.3 | 0.1 |
| Protected spring | 7 | 0.6 | 0.2 | 2 | 0.2 | 0.2 |
| Public tap/standpipe | 8 | 0.6 | 0.3 | 0 | 0.0 | |
| Tanker truck | 0 | 0.0 | - | 0 | 0.0 | |
| Cart with small tank/drum | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 25 | 1.7 | 0.3 | 4 | 0.8 | 0. |
| Don't know | 0 | - | - | 0 | - | |
| Decline to respond | 0 | - | - | 0 | - | |
| Time it takes to retrieve wate | er (min) | | | | | |
| Water on premises | 1334 | 91.9 | 1.9 | 734 | 97.1 | 0.9 |
| Less than 30 minutes | 92 | 7.0 | 1.7 | 16 | 2.7 | 0. |
| 30 minutes or longer | 14 | 1.1 | 0.4 | 3 | 0.3 | 0. |
| Don't know | 4 | - | - | 3 | - | |
| Decline to respond | 1 | - | - | 0 | - | |
| Sanitation facilities | | | | , | | |
| Flush toilet | 541 | 34.6 | 3.5 | 362 | 43.6 | 6. |
| Pour flush toilet | 595 | 42.8 | 2.4 | 277 | 37.8 | 4. |
| Pit latrine | 123 | 8.6 | 1.4 | 71 | 11.4 | 2.8 |
| No toilet | 163 | 12.3 | 1.9 | 31 | 5.0 | 2.0 |
| Dry toilet | 12 | 1.0 | 0.4 | 2 | 0.3 | 0.2 |
| Other | 10 | 0.7 | 0.3 | 12 | 1.9 | 0.8 |
| Don't know | 0 | - | - | 0 | - | |
| Decline to respond | 1 | - | - | 1 | - | |
| | | | | | | |
| | Baselin | e 2013 | | Seco | nd Follo | ow-Up 2017 |
| | n N | % | SE | n | Ν | % SE |
| | | 70 | JE | | | /0 51 |

D2.4.2 Cooking fuel sources

Cooking fuel source and the location for cooking food are included in Table D2.4. The percentage of households with a separate kitchen is also shown. The two most commonly reported cooking fuel sources used in households during the second follow-up are wood (75.7%) and gas tank (24.9%). Among those



households with non-missing responses as to what cooking fuel sources they use, 66.5% report normally cooking food in the house, 18.5% normally cook food in a separate building, and 15% normally cook food outdoors. Seventy one percent of households have a separate kitchen.

| | | Baseline | 2013 | | Second Follow-Up 2017 | | | | | |
|------------------------|------|----------|------|-----|-----------------------|-----|------|-----|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| Wood | 1133 | 1445 | 79.5 | 3.1 | 512 | 756 | 75.7 | 5.6 | | |
| Gas tank | 211 | 1445 | 13.1 | 2.2 | 249 | 756 | 24.9 | 5.1 | | |
| Electricity | 344 | 1445 | 22.7 | 2.6 | 79 | 756 | 9.7 | 1.9 | | |
| Straw/twigs/grass | 1 | 1445 | 0.1 | 0.1 | 4 | 756 | 0.6 | 0.3 | | |
| Coal | 4 | 1445 | 0.3 | 0.1 | 1 | 756 | 0.2 | 0.2 | | |
| Agricultural crops | 0 | 1445 | 0.0 | - | 0 | 756 | 0.0 | - | | |
| No food cooked at home | 1 | 1445 | 0.1 | 0.1 | 0 | 756 | 0.0 | - | | |
| Other | 0 | 1445 | 0.0 | - | 1 | 756 | 0.1 | 0.1 | | |

Table D2.4: Cooking fuel source and cooking location

*categories not mutually exclusive (select all that apply)

| | Bas | eline 20 |)13 | Secor | Second Follow-Up 2017 | | | | |
|--|-----|----------|-----|-------|-----------------------|-----|--|--|--|
| | n | % | SE | n | % | SE | | | |
| Location for cooking food, if cooking fuel source reported | | | | | | | | | |
| Inside house | 985 | 68.3 | 2.5 | 526 | 66.5 | 3.3 | | | |
| In a separate building | 204 | 14.6 | 1.9 | 119 | 18.5 | 2.7 | | | |
| Outdoors | 253 | 16.9 | 2.0 | 111 | 15.0 | 1.4 | | | |
| Other | 3 | 0.2 | 0.1 | 0 | 0.0 | - | | | |
| Don't know | 0 | - | - | 0 | - | - | | | |
| Decline to respond | 0 | - | - | 0 | - | - | | | |

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | |
|---|-----|---------|--------|-----|-----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Separate kitchen, if cooking fuel source reported and food cooked in the home | 636 | 984 | 65.5 | 2.8 | 352 | 526 | 70.6 | 4.4 | |

D2.4.3 Household wealth

The median number of bedrooms per household is less than two (Table D2.5). Twelve percent of households in the second follow-up own agricultural land and 11.7% of households rent agricultural land (Table D2.6).

The availability of durable consumer goods is a good indicator of a household's socioeconomic status. Table D2.6 shows the availability of selected consumer goods by household. The large majority of households (84%) have mobile phone, and the most commonly owned items are electricity (83.2%), television (69%), and refrigerator (58%). Many households (36.7%) own a bicycle and 15.5% own a motorcycle/scooter.



Table D2.5: Number of bedrooms per household

| | Ν | DK/DTR | Min | 25th Percentil | Median e | 75th Percentile | Max e |
|---|------|--------|-----|-------------------|-------------|--------------------|----------|
| Baseline 2013 | | | | | | | |
| Number of bedrooms | 1443 | 2 | 0 | 1 | 2 | 2 | 7 |
| Second follow-up 2017 Number of bedrooms | 756 | 0 | 0 | 1 | 2 | 2 | 6 |

Table D2.6: Household assets

| | | Baseline | 2013 | | Seco | nd Foll | ow-Up 2 | 2017 |
|--------------------------------|---------|----------|------|-----|------|---------|---------|------|
| | n | N | % | SE | n | N | % | SE |
| Household assets | | | | | | | | |
| Mobile phone | 1176 | 1445 | 79.7 | 1.9 | 654 | 756 | 84.0 | 3.9 |
| Electricity | 1246 | 1445 | 85.2 | 3.0 | 657 | 756 | 83.2 | 6.7 |
| Television | 1019 | 1445 | 67.9 | 3.6 | 569 | 756 | 69.0 | 6.5 |
| Refrigerator | 763 | 1445 | 50.0 | 3.5 | 481 | 756 | 58.0 | 6.1 |
| Radio | 712 | 1445 | 50.1 | 2.7 | 253 | 756 | 35.4 | 4.8 |
| Sound system | 593 | 1445 | 38.5 | 2.8 | 285 | 756 | 33.4 | 3.9 |
| Watch | 382 | 1443 | 26.1 | 2.0 | 204 | 756 | 25.8 | 2.6 |
| Bank account | 178 | 1429 | 12.1 | 1.4 | 178 | 751 | 21.9 | 2.8 |
| Washing machine | 54 | 1445 | 3.5 | 0.9 | 67 | 756 | 6.9 | 1.7 |
| Computer | 75 | 1445 | 4.8 | 0.7 | 64 | 756 | 6.8 | 1.6 |
| Guitar | 51 | 1444 | 3.5 | 0.6 | 26 | 756 | 3.8 | 0.8 |
| Landline phone | 22 | 1443 | 1.3 | 0.3 | 17 | 756 | 1.2 | 0.5 |
| Transportation assets | | | | | | | | |
| Bicycle | 507 | 1443 | 33.7 | 2.6 | 271 | 756 | 36.7 | 5.2 |
| Motorcycle/scooter | 112 | 1443 | 7.3 | 1.0 | 123 | 756 | 15.5 | 2.3 |
| Car | 146 | 1444 | 9.2 | 1.1 | 99 | 756 | 11.3 | 2.0 |
| Truck | 11 | 1444 | 0.7 | 0.2 | 5 | 756 | 0.6 | 0.3 |
| Animal cart | 7 | 1444 | 0.5 | 0.2 | 0 | 756 | 0.0 | |
| Agricultural assets: Livestock | ownersh | ip | | | | | | |
| Chickens | 738 | 1444 | 53.7 | 4.1 | 368 | 756 | 55.7 | 5.4 |
| Horses, donkeys, or mules | 122 | 1444 | 9.2 | 1.8 | 52 | 756 | 9.4 | 3.3 |
| Pigs | 136 | 1444 | 10.0 | 1.8 | 58 | 755 | 8.9 | 2.6 |
| Cattle | 80 | 1443 | 6.3 | 1.3 | 29 | 755 | 4.6 | 1.3 |
| Sheep or goats | 3 | 1444 | 0.2 | 0.1 | 4 | 756 | 0.6 | 0.3 |



| | Baseline 2013 | | | Second Follow-Up 2017 | | | |
|------------------------------------|---------------|----------|-----|-----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| Agricultural assets: Own or rent a | gricultu | ral land | | | | | |
| No agricultural land | 1028 | 68.9 | 4.2 | 609 | 75.5 | 4.9 | |
| Owns agricultural land | 242 | 18.6 | 3.3 | 77 | 12.5 | 3.7 | |
| Rents agricultural land | 161 | 12.0 | 1.8 | 68 | 11.7 | 2.9 | |
| Shared/community-held land | 5 | 0.4 | 0.2 | 2 | 0.3 | 0.2 | |
| Don't know | 8 | - | - | 0 | - | - | |
| Decline to respond | 1 | - | - | 0 | - | - | |

D2.5 Household expenditure

D2.5.1 Total expenditures by type

Households are surveyed about the amount of money spent over the last month. After reporting total household expenditures, households are then asked how much was spent on specific categories (e.g., food, housing, education, and medical care) over the last four weeks. Table D2.7 shows the itemized monthly expenditure per person living in the household summarized by expenditure quintile. All data are presented in current Lempira (L). Itemized expenditure information was sufficiently complete to report for 713 households at the second follow-up. The lowest quintile in the study area spent less than 558 L per person over the last month in the second follow-up.

Table D2.8 shows the budget share, defined as the weighted average expenditure on each category across a quintile divided by the weighted average total itemized household expenditure in the same quintile. Table D2.8 shows that the poorest 20% of households in the study area spend 75.5% of their monthly expenditure on food, on average. In comparison, the wealthiest households spend 52.3% on food. The poorest households spent 2.8% of their expenditure on medical care, while the wealthiest spent 11.6%.

Table D2.7: Total itemized per- capita expenditure quintiles, Honduras Lempira

| | N | DK/DTR | p20 | p40 | p60 | p80 |
|--|------|--------|-----|-----|------|------|
| Baseline 2013 | | | | | | |
| Per capita monthly household expenditure, current LCU | 1324 | 3 | 344 | 558 | 819 | 1271 |
| Second follow-up 2017 Per capita monthly household expenditure, current LCU | 713 | 0 | 558 | 848 | 1206 | 1824 |



| | Bottom quintile | 2nd quintile | 3rd quintile | 4th quintile | Top quintile |
|-----------------------------------|-----------------|--------------|--------------|-----------------|-----------------|
| Baseline 2013 | | | | | |
| Food | 78.7 | 77.8 | 73.5 | 69.6 | 58.0 |
| Alcoholic beverages and tobacco | 0.6 | 0.8 | 0.8 | 0.4 | 0.7 |
| Education expenses | 5.4 | 4.0 | 3.4 | 3.4 | 2.5 |
| Furniture and domestic appliances | 0.4 | 0.4 | 0.2 | 0.8 | 2.0 |
| Recreation | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 |
| Housing and utilities | 5.6 | 5.6 | 6.7 | 8.3 | 7.5 |
| Clothing and shoes | 2.8 | 4.3 | 7.0 | 7.1 | 6.5 |
| Transportation | 2.6 | 2.8 | 3.8 | 3.9 | 4.7 |
| Communication | 2.1 | 2.0 | 2.0 | 2.1 | 1.9 |
| Out-of-pocket medical expenses | 1.6 | 2.1 | 2.5 | 3.6 | 12.6 |
| Social security premiums | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 |
| Private insurance premiums | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| Other costs to access health care | 0.0 | 0.1 | 0.0 | 0.6 | 3.4 |
| Second Follow-Up 2017 | | | | | |
| Food | 75.5 | 73.6 | 68.2 | 57.9 | 52.3 |
| Alcoholic beverages and tobacco | 1.9 | 0.8 | 0.2 | 0.8 | 0.2 |
| Education expenses | 6.4 | 5.4 | 4.8 | 6.2 | 5.3 |
| Furniture and domestic appliances | 0.5 | 0.1 | 0.9 | 1.7 | 3.1 |
| Recreation | 0.0 | 0.1 | 0.1 | 0.5 | 1.1 |
| Housing and utilities | 7.1 | 9.0 | 9.8 | 12.1 | 11.3 |
| Clothing and shoes | 1.6 | 3.6 | 5.0 | 8.0 | 5.4 |
| Transportation | 2.6 | 3.0 | 4.2 | 4.6 | 6.7 |
| Communication | 1.5 | 2.3 | 2.2 | 2.5 | 2.5 |
| Out-of-pocket medical expenses | 2.8 | 2.2 | 4.6 | 5.4 | 11.6 |
| Social security premiums | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 |
| Private insurance premiums | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Other costs to access health care | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |

Table D2.8: Itemized household expenditure by total household budget share

D2.5.2 Health expenditures

Of the 713 households with expenditure data at the second follow-up, 239 reported having health expenditures in the last four weeks. Table D2.9 shows health expenditure by type among households reporting non-zero out-of-pocket health expenditure. Very few households had spending in each category.



| | Ν | DK/DTR | Min | 25th | Median | 75th | Max |
|---|-----|--------|-----|------------|--------|-----------|-------|
| | | | | Percentile | 9 | Percentil | е |
| Baseline 2013 | | | | | | | |
| Care that required overnight stay in hospital/clinic | 299 | 1 | 0 | 0 | 0 | 0 | 30000 |
| Medications prescribed by health personnel | 298 | 2 | 0 | 0 | 0 | 400 | 27000 |
| Care by health professionals not requiring overnight stay | 298 | 2 | 0 | 0 | 0 | 0 | 15000 |
| Other costs associated with overnight stay in hospital/clinic | 299 | 1 | 0 | 0 | 0 | 0 | 10000 |
| Care or non-prescription medications from pharmacist | 298 | 2 | 0 | 0 | 0 | 0 | 9000 |
| Dentists | 299 | 1 | 0 | 0 | 0 | 0 | 4000 |
| Diagnostic and laboratory tests, X-rays, blood tests | 297 | 3 | 0 | 0 | 0 | 0 | 3500 |
| Other health care products or services | 298 | 2 | 0 | 0 | 0 | 0 | 1000 |
| Care by traditional/alternative healers/birth attendants | 299 | 1 | 0 | 0 | 0 | 0 | 300 |
| Health products (glasses, hearing aids, prosthetics, etc.) | 299 | 1 | 0 | 0 | 0 | 0 | 150 |
| Second Follow-Up 2017 | | | | | | | |
| Care that required overnight stay in hospital/clinic | 239 | 1 | 0 | 0 | 0 | 0 | 700 |
| Medications prescribed by health personnel | 239 | 1 | 0 | 0 | 200 | 800 | 6200 |
| Care by health professionals not requiring overnight stay | 240 | 0 | 0 | 0 | 0 | 0 | 5000 |
| Other costs associated with overnight stay in hospital/clinic | 240 | 0 | 0 | 0 | 0 | 0 | 1600 |
| Care or non-prescription medications from pharmacist | 240 | 0 | 0 | 0 | 0 | 100 | 400 |
| Dentists | 239 | 1 | 0 | 0 | 0 | 0 | 700 |
| Diagnostic and laboratory tests, X-rays, blood tests | 240 | 0 | 0 | 0 | 0 | 0 | 1000 |
| Other health care products or services | 240 | 0 | 0 | 0 | 0 | 0 | 50 |
| Care by traditional/alternative healers/birth attendants | 240 | 0 | 0 | 0 | 0 | 0 | 350 |
| Health products (glasses, hearing aids, prosthetics, etc.) | 240 | 0 | 0 | 0 | 0 | 0 | 250 |

D2.5.3 Source of health expenditure financing

Of the 713 households with expenditure data at the second follow-up, 84 reported that members of the household went to a hospital and stayed overnight at least once during the last 12 months and paid for expenses associated with the overnight stays. The maximum paid for a hospital stay was 7000 L.

Table D2.10 shows the source and amount of financing for medical expenditures for overnight hospital stays. No single funding source was used by more than about 25% of households with hospital stays.



Table D2.10: Health care financing by source, last 12 months, Honduras Lempira

| | Ν | DK/DTR | Min | 25th Percentile | Median | 75th Percentile | Ma |
|---|-----|--------|-----|--------------------|--------|--------------------|-------|
| | | | | | | | |
| Baseline 2013 | | | | | | | |
| Remittances from family or friends abroad | 176 | 0 | 0 | 0 | 0 | 0 | 11000 |
| Money from relatives or friends outside the household | 176 | 0 | 0 | 0 | 0 | 0 | 1e+C |
| Items sold | 176 | 0 | 0 | 0 | 0 | 0 | 7500 |
| Any household member's current income | 174 | 2 | 0 | 0 | 0 | 1093.6 | 7000 |
| Savings | 175 | 1 | 0 | 0 | 0 | 200 | 4200 |
| Conditional cash transfer programs | 176 | 0 | 0 | 0 | 0 | 0 | 3300 |
| Loan from a source other than family or friends | 176 | 0 | 0 | 0 | 0 | 0 | 200 |
| Reducing other household spending | 173 | 3 | 0 | 0 | 0 | 0 | 50 |
| Property sold | 176 | 0 | 0 | 0 | 0 | 0 | 23 |
| Other source | 176 | 0 | 0 | 0 | 0 | 0 | 15 |
| Political donations or grants | 176 | 0 | 0 | 0 | 0 | 0 | 5 |
| Health insurance plan payment/reimbursement | 176 | 0 | 0 | 0 | 0 | 0 | |
| Social security payments | 176 | 0 | 0 | 0 | 0 | 0 | |
| econd Follow-Up 2017 | | | | | | | |
| Remittances from family or friends abroad | 84 | 3 | 0 | 0 | 0 | 0 | 170 |
| Money from relatives or friends outside the household | 84 | 3 | 0 | 0 | 0 | 91 | 500 |
| Items sold | 84 | 3 | 0 | 0 | 0 | 0 | 620 |
| Any household member's current income | 84 | 3 | 0 | 0 | 0 | 252.5 | 320 |
| Savings | 84 | 3 | 0 | 0 | 0 | 1000 | 200 |
| Conditional cash transfer programs | 84 | 3 | 0 | 0 | 0 | 0 | |
| Loan from a source other than family or friends | 85 | 2 | 0 | 0 | 0 | 941.6 | 490 |
| Reducing other household spending | 84 | 3 | 0 | 0 | 0 | 0 | 20 |
| Property sold | 84 | 3 | 0 | 0 | 0 | 0 | 500 |
| Other source | 84 | 3 | 0 | 0 | 0 | 0 | 800 |
| Political donations or grants | 84 | 3 | 0 | 0 | 0 | 0 | 200 |
| Health insurance plan payment/reimbursement | 84 | 3 | 0 | 0 | 0 | 0 | 300 |
| Social security payments | 84 | 3 | 0 | 0 | 0 | 0 | 300 |



D3. CHAPTER 3: GENERAL CHARACTERISTICS OF RESPONDENTS

This chapter summarizes the demographic characteristics, socioeconomic status, and health status of women of reproductive age (15-49 years) participating in the SMI-Honduras second follow-up household survey.

D3.1 Demographic Characteristics

D3.1.1 Age, marital status, relation to head of household

The age distribution of the de facto population of women of reproductive age participating in the women's health or pregnancy interviews in Honduras is shown in Figure D3.1 by five-year age groups. About 60% of all women participating in the second follow-up SMI-Honduras household survey were younger than 30 years of age, 28% were between the ages of 30 and 39, and 12% were between the ages of 40 and 49. While 22% of women reported being married and 46% being partnered, 30% indicated they were never married. Twenty three percent of women were reported at the SMI-Honduras census to be the head of household, 28% to be the spouse of the head of the household, and 25.2% to be the biological child of the head of the household.

Figure D3.1: Age of respondents, unweighted

One woman who participated in the baseline interview was excluded because she was unable to provide her age or an estimate of her age.

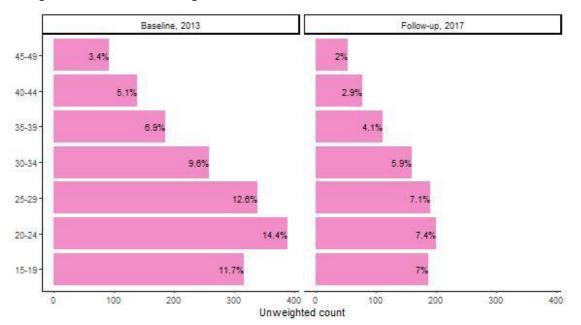




Table D3.1: Demographic characteristics of respondents

| | Baselir | ie 2013 | Second F | ollow-Up 2017 |
|---------------------------------|----------|---------|----------|---------------|
| | n | % | n | % |
| Marital status | | | | |
| Single | 557 | 32.5 | 305 | 31.3 |
| Married | 444 | 25.9 | 213 | 21.8 |
| Civil union/partnered | 659 | 38.5 | 432 | 44.3 |
| Divorced | 4 | 0.2 | 0 | 0.0 |
| Separated | 31 | 1.8 | 20 | 2.1 |
| Widowed | 17 | 1.0 | 5 | 0.5 |
| Other | 0 | 0.0 | 0 | 0.0 |
| Don't know | 0 | 0.0 | 0 | 0.0 |
| Decline to respond | 0 | 0.0 | 0 | 0.0 |
| Respondent's relationship to he | ad of ho | usehold | | |
| Head of household | 183 | 10.7 | 227 | 23.3 |
| Spouse | 421 | 24.6 | 273 | 28.0 |
| Biological child | 449 | 26.2 | 246 | 25.2 |
| Adopted or stepchild | 9 | 0.5 | 11 | 1.1 |
| Grandchild | 42 | 2.5 | 24 | 2.5 |
| Niece/nephew | 10 | 0.6 | 7 | 0.7 |
| Parent | 2 | 0.1 | 0 | 0.0 |
| Sibling | 19 | 1.1 | 14 | 1.4 |
| Daughter-in-law/son-in-law | 88 | 5.1 | 48 | 4.9 |
| Sister-in-law/brother-in-law | 10 | 0.6 | 3 | 0.3 |
| Grandparent | 0 | 0.0 | 0 | 0.0 |
| Mother-in-law/father-in-law | 3 | 0.2 | 0 | 0.0 |
| Other relative | 7 | 0.4 | 6 | 0.6 |
| Unrelated person | 17 | 1.0 | 10 | 1.0 |
| Partner | 448 | 26.2 | 102 | 10.5 |
| - | 1 | 0.1 | 3 | 0.3 |
| Other | 3 | 0.2 | 1 | 0.1 |
| Don't know | 0 | 0.0 | 0 | 0.0 |
| Decline to respond | 0 | 0.0 | 0 | 0.0 |

*At baseline, marital status is reported by the respondent in the Census. In the second follow-up, marital status is reported by the woman at the start of the Household Survey

* "-" represents women who were missed in the census and added individually into the household survey, so relationship to the head of household was not registered.

D3.2 Education Attainment and Literacy

Ninety four percent of second follow-up survey participants had some formal education (Table D3.2). For 60.3% of these women, the highest level of education completed was primary schooling. Literacy was assessed by asking respondents to read from a card the following sentence: "La salud del niño es muy importante para su desarrollo en la vida." Eighty five percent of women surveyed were able to read the whole sentence. Six percent of women could not read the sentence at all.



Table D3.2: Education attainment and literacy

| | | Baseline 2013 | | | Seco | nd Foll | ow-Up 2 | 2017 |
|--------------------------|------|---------------|------|-----|------|---------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Ever attended school | 1573 | 1690 | 92.3 | 1.2 | 917 | 975 | 94.5 | 1.5 |
| Attended literacy course | 217 | 1690 | 12.5 | 2.1 | 99 | 970 | 9.4 | 2.4 |

| | Base | eline 20 | 13 | Secor | nd Follow | -Up 2017 |
|----------------------------|----------|----------|-----|-------|-----------|----------|
| - | n | % | SE | n | % | SE |
| Educational attainment and | literacy | | | | | |
| Primary | 1078 | 69.8 | 2.6 | 524 | 60.3 | 3.8 |
| Secondary | 231 | 14.6 | 1.5 | 200 | 20.8 | 2.4 |
| High school | 233 | 13.1 | 1.5 | 156 | 14.5 | 2.2 |
| University | 31 | 2.5 | 0.7 | 37 | 4.5 | 1.7 |
| Don't know | 0 | - | - | 0 | - | |
| Decline to respond | 0 | - | - | 0 | - | |
| Literacy | | | | | | |
| Can read entire sentence | 1103 | 61.9 | 2.3 | 820 | 84.9 | 2.7 |
| Can read parts | 390 | 24.0 | 2.1 | 86 | 9.2 | 1.8 |
| Cannot read at all | 181 | 13.9 | 1.9 | 68 | 5.9 | 1.3 |
| Visually impaired | 4 | 0.2 | 0.1 | 1 | 0.1 | 0.2 |
| Don't know | 9 | - | - | 0 | - | |
| Decline to respond | 3 | - | - | 0 | - | |

D3.3 Employment

As summarized in Table D3.3, the vast majority of respondents in the second follow-up were homemakers (68.7%). Of the 145 women who reported being employed and working at the time of the interview, most (91.8%) identified "Employee" as their occupational role.



Table D3.3: Employment

| | Base | eline 20 | 13 | Secor | nd Follov | v-Up 2017 |
|--|---------|----------|--------|-------|-----------|-----------|
| | n | % | SE | n | % | SE |
| Employment status | | | | | | |
| Homemaker | 1344 | 77.6 | 2.4 | 687 | 68.7 | 4.1 |
| Employed/paid for work | 186 | 11.5 | 1.7 | 145 | 13.2 | 2.4 |
| Student | 112 | 7.9 | 1.2 | 81 | 10.5 | 1.5 |
| Self-employed | 0 | 0.0 | - | 47 | 5.3 | 1.3 |
| Employed by a family member without pay | 29 | 1.8 | 0.6 | 7 | 1.7 | 0.7 |
| Employed, but did not work in last week | 6 | 0.2 | 0.1 | 2 | 0.5 | 0.5 |
| Unable to work due to disability | 5 | 0.7 | 0.4 | 1 | 0.1 | 0.1 |
| Retired | 2 | 0.3 | 0.3 | 1 | 0.0 | - |
| Don't know | 6 | - | - | 3 | - | - |
| Decline to respond | 0 | - | - | 1 | - | - |
| Occupational role, among women employed an | d being | paid for | r work | | | |
| Employee | 151 | 78.7 | 5.4 | 136 | 91.8 | 3.7 |
| Independent contractor | 22 | 11.6 | 3.7 | 4 | 4.2 | 3.5 |
| Proprietor | 10 | 5.9 | 2.3 | 4 | 3.6 | 2.6 |
| Employer | 3 | 3.8 | 3.3 | 1 | 0.5 | 0.5 |
| Don't know | 0 | - | - | 0 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |

* Self-employed option was not included in the baseline survey

D3.4 Exposure to Mass Media

Respondents were asked about their exposure to newspapers, radio, and television. As displayed in Table D3.4, among women who demonstrated full or partial literacy in the second follow-up, 28.6% had weekly exposure to newspapers. Forty six percent of all women had weekly exposure to radio, and 68.7% had weekly exposure to television.



Less than once a week

Decline to respond

Don't know

Not applicable

| | Base | eline 20 | 13 | Secor | nd Follow | -Up 2017 |
|---------------------------|---------|----------|-----|-------|-----------|----------|
| | n | % | SE | n | % | SE |
| Newspapers, among literat | te wome | en | | | | |
| Never | 516 | 36.3 | 2.5 | 491 | 50.9 | 4.6 |
| At least once a week | 617 | 41.6 | 2.5 | 238 | 28.6 | 4.3 |
| Less than once a week | 317 | 22.2 | 1.5 | 172 | 20.6 | 2.8 |
| Don't know | 6 | - | - | 4 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |
| Not applicable | 37 | - | - | 1 | - | - |
| Radio | | | | | | |
| At least once a week | 983 | 59.4 | 2.3 | 475 | 46.0 | 4.7 |
| Never | 327 | 20.9 | 1.9 | 352 | 36.5 | 3.8 |
| Less than once a week | 350 | 19.6 | 1.9 | 146 | 17.4 | 2.6 |
| Don't know | 4 | - | - | 2 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |
| Not applicable | 26 | - | - | 0 | - | - |
| Television | | | | | | |
| At least once a week | 1131 | 67.5 | 3.5 | 679 | 68.7 | 5.1 |
| Never | 335 | 21.2 | 2.9 | 210 | 23.1 | 5.3 |

D3.5 Access to Health Services

D3.5.1 Proximity to health care facilities

Table D3.5 - Table 3.7 display the responses to several survey questions that were used to assess access to health care facilities. Respondents were asked to estimate proximity to health care facilities in terms of distance (kilometers) and travel time. Not surprisingly, respondents typically had more difficulty estimating distance to health care facilities. As shown in the tables below, "Don't know" responses to the distance questions were exceedingly common.

202

2

1

19

11.3

-

1.5

-

_

_

86

0

0

0

8.2

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1.2

Excluding the 291 women who were unable to estimate the distance to the closest health facility in the second follow-up, 75% of women reported living 4 kilometers or less from a health facility (Table D3.5). Three-quarters of the sample indicated that it took less than 30 minutes to reach this facility by the usual means of transportation. One-quarter estimated the travel time from their household to the closest health facility to be 30 minutes or more.

Women were also asked for the travel distance and time to their usual health facility, if they had a usual health facility. Excluding the 274 women who did not know the distance to the facility in the second follow-up, three-quarters of the women reported traveling up to 5 kilometers, and three-quarters of the women could travel to the closest facility in less than 20 minutes (Table D3.6).



Of the 663 women who reported a recent health facility visit for themselves or for family members in the second follow-up, three-quarters traveled less than 3.5 kilometers for care. Twenty-five percent of women traveled 3.5 to 95 kilometers for care. Half of women traveled for less than 15 minutes, and one-quarter spent 30 minutes or more traveling for care. The longest travel time reported for a recent illness was approximately 30 hours.

Table D3.5: Proximity to health care facilities: nearest health facility

| | N | DK/DTR | Min | 25th Median Percentile | | 75th Percentile | Max e |
|--------------------|------|--------|-----|---------------------------|----|--------------------|----------|
| Baseline 2013 | | | | | | | |
| Distance, km | 442 | 1248 | 0 | 1 | 1 | 3 | 30 |
| Travel time, min | 1629 | 34 | 1 | 10 | 20 | 30 | 1800 |
| Second Follow-Up 2 | 017 | | | | | | |
| Distance, km | 684 | 291 | 0 | 1 | 1 | 4 | 100 |
| Travel time, min | 941 | 3 | 1 | 10 | 15 | 30 | 1800 |

Table D3.6: Proximity to health care facilities: usual health facility

| | N | DK/DTR | Min | 25th Percentil | Median e | 75th Percentile | Max e |
|----------------------------------|-------------|-----------|--------|-------------------|-------------|--------------------|-----------|
| Baseline 2013 | | | | | | | |
| Distance, km Travel time, min | 413 1284 | 1142 6 | 0 1 | 1 10 | 1 15 | 3 25 | 100 59 |
| Second Follow-Up 2 | 017 | | | | | | |
| Distance, km Travel time, min | 550 677 | 274 2 | 0 1 | 1 10 | 1 15 | 5 20 | 80 45 |

Table D3.7: Proximity to health care facilities: health facility for recent illness

| | N | DK/DTR | Min | 25th Percentile | Median | 75th Percentil | Max |
|--|--------------------------|----------|--------|--------------------|-----------|-------------------|-------------|
| Baseline 2013 Distance, km Travel time, min | 306 888 | 605 5 | 0 | 1 10 | 1.9 20 | 3 30 | 100 1800 |
| Second Follow-Up 2 Distance, km Travel time, min | 017 456 639 | 201 1 | 0 1 | 1 10 | 1 15 | 3.5 30 | 95 1800 |



D3.6 Health Status

D3.6.1 Current health status

Table D3.8 shows the self-rated current health status of all women participating in the survey. When asked to evaluate their current health status relative to the past year, 45.7% reported that their health was "about the same" in the second follow-up. While 40.2% reported that their health had improved, 14.1% reported worse health on the day of the interview, compared to last year. Eighty four percent could "easily" perform their daily activities (e.g., work, housework, and childcare). About 16% of women reported at least some degree of difficulty performing these tasks that was related to their health status.

| | Base | eline 20 | 13 | Secor | nd Follo | w-Up 2017 |
|---------------------------|------------|----------|-----|-------|----------|-----------|
| | n | % | SE | n | % | SE |
| Current health relative t | | | | | | |
| Better | 612 | 35.9 | 1.7 | 377 | 40.2 | 2.5 |
| Worse | 129 | 6.7 | 0.8 | 175 | 14.1 | 2.2 |
| About the same | 948 | 57.4 | 1.9 | 422 | 45.7 | 2.5 |
| Don't know | 1 | - | - | 1 | - | |
| Decline to respond | 0 | - | - | 0 | - | |
| Ability to perform daily | activities | 5 | | | | |
| Easily | 1495 | 88.6 | 1.5 | 817 | 83.8 | 2.1 |
| With some difficulty | 172 | 10.0 | 1.5 | 140 | 14.3 | 2.0 |
| With much difficulty | 21 | 1.4 | 0.4 | 18 | 1.9 | 0.6 |
| Unable to do | 2 | 0.1 | 0.1 | 0 | 0.0 | |
| Don't know | 0 | - | - | 0 | - | |
| Decline to respond | 0 | - | - | 0 | - | |

Table D3.8: Current health status



| | Base | eline 20 | 13 | Secor | nd Follov | w-Up 2017 |
|------------------------|----------|----------|--------|---------|-----------|-----------|
| | n | % | SE | n | % | SE |
| Days in the last month | as not ; | good | | | | |
| No days | 1345 | 79.1 | 1.9 | 520 | 54.2 | 2.8 |
| 1 to 3 days | 117 | 6.9 | 0.9 | 166 | 15.7 | 1.7 |
| 4 to 7 days | 216 | 14.1 | 1.7 | 286 | 30.1 | 2.4 |
| 7 to 29 days | 0 | 0.0 | - | 0 | 0.0 | - |
| All month | 0 | 0.0 | - | 0 | 0.0 | - |
| Don't know | 8 | - | - | 3 | - | - |
| Decline to respond | 4 | - | - | 0 | - | - |
| Days in the last month | that me | ntal hea | lth wa | s not g | ood | |
| No days | 1468 | 86.4 | 1.5 | 683 | 73.2 | 2.8 |
| 1 to 3 days | 90 | 5.5 | 1.0 | 117 | 10.9 | 1.2 |
| 4 to 7 days | 122 | 8.1 | 1.3 | 171 | 15.9 | 2.2 |
| 7 to 29 days | 0 | 0.0 | - | 0 | 0.0 | - |
| All month | 0 | 0.0 | - | 0 | 0.0 | - |
| Don't know | 9 | - | - | 4 | - | - |
| Decline to respond | 1 | - | - | 0 | - | - |

D3.6.2 Recent illness

Women were asked a series of questions about any illnesses or health problems they had in the two weeks preceding the interview. Out of the women in the second follow-up, 27.5% reported being sick during that time (Table D3.9). Of the 257 women who reported a recent illness, headache (14.8%), cough (13.1%), fever (7.3), and abdominal pain (5.1%) were the most commonly elicited specific complaints. Forty two percent of women specified a different health problem not listed in the questionnaire.

Table D3.9: Recent illness (in the last two weeks)

| | | Baselin | Second Follow-Up 2017 | | | | | |
|---|-----|---------|-----------------------|-----|-----|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Respondent was sick during the past two weeks | 413 | 1688 | 24.4 | 1.8 | 257 | 973 | 27.5 | 2.7 |



| | Bas | eline 20 | 013 | S | econd F | ollow-Up 2017 |
|--------------------------------------|----------|----------|-------|-----|---------|---------------|
| | n | % | SE | n | % | S |
| Type of illness, among those sick in | n the pa | ast two | weeks | | | |
| Headache | 96 | 25.2 | 2.8 | 49 | 14.8 | 2. |
| Cough | 60 | 10.9 | 2.2 | 27 | 13.1 | 3. |
| Fever | 67 | 14.2 | 2.3 | 21 | 7.3 | 1.9 |
| Abdominal pain | 49 | 10.4 | 2.0 | 17 | 5.1 | 1. |
| Gynecologic problem | 8 | 3.4 | 1.6 | 9 | 3.9 | 1. |
| Hypertension | 6 | 1.4 | 0.6 | 6 | 3.6 | 2. |
| Swelling in legs, ankles, or feet | 0 | 0.0 | - | 6 | 3.0 | 1. |
| Asthma | 3 | 0.4 | 0.2 | 2 | 2.0 | 1. |
| Diarrhea without blood | 2 | 0.3 | 0.3 | 1 | 1.7 | 1. |
| Obstetric problem | 2 | 0.3 | 0.2 | 1 | 1.7 | 1. |
| Eye/ear infection | 1 | 0.9 | 0.9 | 3 | 1.0 | 0. |
| Skin rash/infection | 3 | 0.9 | 0.6 | 4 | 0.8 | 0. |
| Toothache | 9 | 1.5 | 0.6 | 2 | 0.5 | 0 |
| Malaria | 0 | 0.0 | - | 0 | 0.0 | |
| Tuberculosis | 0 | 0.0 | - | 0 | 0.0 | |
| Bronchitis | 1 | 1.5 | 1.5 | 0 | 0.0 | |
| Pneumonia | 0 | 0.0 | - | 0 | 0.0 | |
| Diarrhea with blood | 0 | 0.0 | - | 0 | 0.0 | |
| Diarrhea with vomiting | 0 | 0.0 | - | 0 | 0.0 | |
| Vomiting | 0 | 0.0 | - | 0 | 0.0 | |
| Anemia | 1 | 0.1 | 0.1 | 0 | 0.0 | |
| Measles | 0 | 0.0 | - | 0 | 0.0 | |
| Jaundice | 0 | 0.0 | - | 0 | 0.0 | |
| Stroke | 0 | 0.0 | - | 0 | 0.0 | |
| Diabetes | 2 | 1.0 | 0.9 | 0 | 0.0 | |
| HIV/AIDS | 0 | 0.0 | - | 0 | 0.0 | |
| Paralysis | 0 | 0.0 | - | 0 | 0.0 | |
| Chest infection | 0 | 0.0 | - | 0 | 0.0 | |
| Blood in urine | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 102 | 27.6 | 3.6 | 108 | 41.5 | 4. |
| Don't know | 1 | - | - | 1 | - | |
| Decline to respond | 0 | - | - | 0 | - | |

Options for "Swelling in legs, ankles, or feet", "Blood in urine", and "Chest infection" were available only in the follow-up survey. In the baseline, "Chest infection" was included within the "Cough" answer choice.

D3.6.3 Utilization of health services

Table D3.10 summarizes data regarding the utilization of health services among the 257 women who reported an illness in the two weeks preceding the second follow-up interview. Eighty eight (35.7%) of these women sought care at a health care facility. Many of these women attended a CESAMO health unit (41.7%); another 19.4% attended a CESAR clinic. Only five women were hospitalized for their recent illness (9.9% of those who sought care).



| | | Baselin | e 2013 | Seco | ond Fol | low-Up | 2017 | |
|--------------------------------|-----|---------|--------|------|---------|--------|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Sought care for recent illness | 159 | 413 | 44.3 | 3.1 | 88 | 257 | 35.7 | 4.6 |
| Admitted to hospital for care* | 7 | 46 | 10.2 | 4.0 | 5 | 26 | 9.9 | 4.9 |

Table D3.10: Utilization of health services for illness in the last two weeks

Among women who sought care at a public or private hospital, health center/clinic, mobile clinic, or other health facility; public health unit; private office; or pharmacy

| | Ba | seline 2 | 013 | Seco | ond Follo | w-Up 2017 |
|---------------------------------|-------|----------|-----|------|-----------|-----------|
| | n | % | SE | n | % | SE |
| Type of facility where care was | sough | t | | | | |
| CESAMO | 63 | 32.1 | 6.7 | 44 | 41.7 | 9.7 |
| CESAR | 42 | 32.6 | 8.1 | 10 | 19.4 | 8.5 |
| Private health clinic | 14 | 9.2 | 3.8 | 12 | 18.7 | 7.5 |
| Public mobile clinic | 3 | 2.5 | 1.7 | 3 | 3.6 | 3.5 |
| Public hospital | 8 | 4.9 | 1.8 | 4 | 2.1 | 1.1 |
| Private doctor's office | 15 | 11.7 | 4.2 | 4 | 1.6 | 1.0 |
| Private mobile clinic | 1 | 0.4 | 0.4 | 1 | 0.8 | 0.8 |
| Traditional healer | 2 | 1.9 | 1.6 | 1 | 0.8 | 0.8 |
| CMI | 2 | 0.7 | 0.6 | 1 | 0.8 | 0.8 |
| Other public health facility | 0 | 0.0 | - | 1 | 0.7 | 0.7 |
| Pharmacy | 3 | 1.7 | 1.1 | 1 | 0.6 | 0.6 |
| Private hospital | 1 | 0.5 | 0.5 | 0 | 0.0 | - |
| Other private health facility | 1 | 0.4 | 0.5 | 0 | 0.0 | - |
| Community health worker | 1 | 0.2 | 0.2 | 0 | 0.0 | - |
| Other | 3 | 1.0 | 0.6 | 6 | 9.1 | 5.0 |
| Don't know | 0 | - | - | 0 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |

* Women who attended care at a CESAMO or CESAR were not asked about hospitalization.

D3.6.4 Insurance coverage

Less than 4% of women reported being covered by any type of health insurance in the second follow-up (Table D3.11).



Table D3.11: Insurance coverage

| | Base | eline 20 | 13 | Secor | Second Follow-Up 2017 | | | |
|--------------------|------|----------|-----|-------|-----------------------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| No insurance | 1655 | 98.4 | 0.5 | 930 | 96.4 | 1.2 | | |
| IHSS | 20 | 0.7 | 0.2 | 39 | 2.9 | 1.0 | | |
| Private insurance | 8 | 0.8 | 0.4 | 4 | 0.2 | 0.1 | | |
| Armed forces | 0 | 0.0 | - | 0 | 0.0 | - | | |
| Other | 4 | 0.1 | 0.1 | 2 | 0.5 | 0.5 | | |
| Don't know | 1 | - | - | 0 | - | - | | |
| Decline to respond | 2 | - | - | 0 | - | - | | |

D3.6.5 Other barriers to health care access

There are many other barriers to accessing health care. Women who reported that they sometimes or never sought care when they felt sick were asked what reasons prevented them from receiving health care when it was needed. Interviewers were instructed to ask in an open-ended manner for all applicable reasons, and to mark the appropriate response options in the questionnaire based on the woman's response. Table D3.12 summarizes the responses to this section. The most commonly cited factors influencing health care access in the second follow-up were the preference for treatment at home (43.4%) and the belief that the health center does not have sufficient medicines (16.5%). Eight percent of women did not believe they were ill enough to seek treatment. Access and quality of care were also important barriers: 7.6% of women said the health center was too far away, 5.5% said care was too expensive, and 1.4% said the health center personnel were too difficult to deal with.



Table D3.12: Other barriers to health care utilization, women 15-49 years of age who were sick in the last two weeks but did not seek care

| | | Baselin | e 2013 | | Seco | ond Fol | low-Up | 2017 |
|--|-----|---------|--------|-----|------|---------|--------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Treated self at home | 164 | 252 | 60.3 | 5.5 | 52 | 163 | 43.4 | 7.4 |
| Health center does not have sufficient medicines | 14 | 252 | 4.7 | 1.5 | 29 | 163 | 16.5 | 4.1 |
| Too busy with work, children, or other commitments | 11 | 252 | 3.5 | 1.5 | 24 | 163 | 14.5 | 4.0 |
| Not sick enough to seek treatment | 55 | 252 | 23.9 | 4.2 | 11 | 163 | 7.8 | 4.2 |
| Health center is too far away | 4 | 252 | 1.2 | 0.6 | 8 | 163 | 7.6 | 4.1 |
| Care is too expensive | 11 | 252 | 4.7 | 1.7 | 12 | 163 | 5.5 | 2.2 |
| Tried, but no staff was at the center | 5 | 252 | 2.4 | 1.5 | 2 | 163 | 3.1 | 2.5 |
| Could not find transportation | 1 | 252 | 0.2 | 0.2 | 2 | 163 | 3.0 | 2.5 |
| Could not afford transportation | 4 | 252 | 0.9 | 0.5 | 3 | 163 | 1.7 | 1.2 |
| It is difficult to deal with health center personnel | 2 | 252 | 1.5 | 1.3 | 5 | 163 | 1.4 | 0.7 |
| Health center infrastructure is poor | 1 | 252 | 2.4 | 2.4 | 4 | 163 | 0.8 | 0.6 |
| Health center is not well-equipped | 3 | 252 | 1.1 | 0.6 | 2 | 163 | 0.8 | 0.6 |
| Health center personnel not knowledgeable | 2 | 252 | 0.4 | 0.3 | 2 | 163 | 0.4 | 0.4 |
| Tried, but was refused care | 0 | 252 | 0.0 | - | 1 | 163 | 0.4 | 0.4 |
| Did not want to go alone | 0 | 252 | 0.0 | - | 2 | 163 | 0.1 | 0.1 |
| Did not know where to go | 3 | 252 | 0.7 | 0.4 | 0 | 163 | 0.0 | - |
| Do not trust the personnel | 1 | 252 | 0.4 | 0.4 | 0 | 163 | 0.0 | - |
| Was previously mistreated | 0 | 252 | 0.0 | - | 0 | 163 | 0.0 | - |
| Could not get permission to go to the doctor | 1 | 252 | 0.6 | 0.6 | 0 | 163 | 0.0 | - |
| Religious or cultural beliefs | 0 | 252 | 0.0 | - | 0 | 163 | 0.0 | - |
| Other | 15 | 252 | 8.1 | 2.7 | 43 | 163 | 24.8 | 7.7 |

*categories not mutually exclusive (select all that apply)



D4. CHAPTER 4: EXPOSURE TO HEALTH SYSTEM INTERVENTIONS

This chapter summarizes the exposure of women to four health system interventions: community health worker interventions, breastfeeding interventions, child nutrition interventions, and child health interventions.

D4.1 Exposure to Community Health Workers

Respondents were asked about their exposure to community health workers. Six percent of women reported meeting with a community health worker in the month preceding the second follow-up interview (Table D4.1). Five percent met only once, and 1.2% met two or more times.

Table D4.1: Exposure to community health workers, women 15-49 years

| | Base | eline 20 | 13 | Second Follow-Up 2017 | | | |
|--------------------|------|----------|-----|-----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| Did not meet | 1567 | 93.5 | 1.3 | 919 | 94.2 | 2.3 | |
| One time | 81 | 5.0 | 1.3 | 37 | 4.6 | 2.2 | |
| Two times | 14 | 0.7 | 0.2 | 11 | 1.0 | 0.4 | |
| Three times | 4 | 0.1 | 0.1 | 3 | 0.2 | 0.2 | |
| Four or more times | 8 | 0.6 | 0.4 | 0 | 0.0 | - | |
| Don't know | 10 | - | - | 5 | - | - | |
| Decline to respond | 2 | - | - | 0 | - | - | |

Referral and advice services provided by community health workers are summarized in Table D4.2. Among women who met with a community health worker in the last month during the second follow-up, family planning methods or counseling was the most common service provided (60.6%). Advice about vaccination for children (41.7%) and child nutrition counseling (31.9%) was also frequently reported.

Table D4.2: Services provided by community health workers, women 15-49 years

| | Baseline 2013 | | | | Second Follow-Up 2017 | | | |
|---|---------------|-----|------|-----|-----------------------|----|------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Family planning methods or counseling | 58 | 113 | 54.7 | 5.3 | 29 | 54 | 60.6 | 10.0 |
| Vaccination for children | 64 | 113 | 52.7 | 7.4 | 23 | 54 | 41.7 | 7.8 |
| Child nutrition counseling | 53 | 113 | 50.6 | 6.1 | 17 | 54 | 31.9 | 8.4 |
| Referral for antenatal care | 19 | 113 | 15.5 | 5.3 | 16 | 54 | 24.6 | 4.9 |
| Referral for voluntary HIV/syphilis counseling and testing* | 20 | 113 | 15.8 | 5.0 | 15 | 54 | 21.0 | 6.9 |
| Referral for postnatal care | 16 | 113 | 11.6 | 3.6 | 13 | 54 | 14.4 | 6.8 |
| Referral for in-facility delivery | 18 | 113 | 13.0 | 3.9 | 12 | 54 | 13.9 | 6.2 |
| Information, education, and communication sessions (IEC) | 17 | 113 | 24.6 | 7.3 | 6 | 54 | 6.7 | 2.6 |

* For the prevention of HIV/syphilis transmission from mother to child



| | Second Follow-Up 2017 | | | | | | |
|--------------------------------------|-----------------------|----|------|-----|--|--|--|
| | n | Ν | % | SE | | | |
| Deworming | 18 | 54 | 33.9 | 8.7 | | | |
| Micronutrients | 13 | 54 | 19.7 | 5.2 | | | |
| Diarrhea treatment with ORS and zinc | 14 | 54 | 16.6 | 6.2 | | | |
| Other | 16 | 54 | 21.4 | 9.5 | | | |

Questions about these topics were not asked at baseline. They were added to the second follow-up survey to track exposure to SMI interventions.

D4.2 Satisfaction with Community Health Workers

Women who met with a community health worker in the month preceding the interview were asked to assess their satisfaction with the following: number of visits, information provided by community health workers, and respectfulness of community health workers. Results are displayed in Table D4.3.



| | Ва | seline 2 | 013 | Second Follow-Up 2017 | | | | |
|--------------------------|--------|----------|---------|-----------------------|--------------|-----------|--|--|
| | n | % | SE | n | % | SE | | |
| Satisfaction with numb | er vis | its from | comn | nunity | health wor | kers | | |
| Very dissatisfied | 25 | 23.2 | 5.5 | 4 | 4.8 | 3.0 | | |
| Dissatisfied | 7 | 8.0 | 3.6 | 2 | 5.0 | 5.2 | | |
| Satisfied | 73 | 63.6 | 6.3 | 41 | 84.7 | 6.0 | | |
| Very satisfied | 9 | 5.2 | 2.5 | 5 | 5.4 | 2.2 | | |
| Don't know | 0 | - | - | 3 | - | - | | |
| Decline to respond | 0 | - | - | 0 | - | - | | |
| Satisfaction of knowled | lge an | d traini | ng of c | omm | unity health | workers | | |
| Very dissatisfied | 28 | 26.0 | 5.7 | 4 | 4.7 | 2.9 | | |
| Dissatisfied | 7 | 6.6 | 3.4 | 3 | 5.6 | 5.8 | | |
| Satisfied | 64 | 60.1 | 6.1 | 41 | 84.5 | 7.3 | | |
| Very satisfied | 12 | 7.3 | 3.0 | 5 | 5.2 | 1.8 | | |
| Don't know | 3 | - | - | 2 | - | - | | |
| Decline to respond | 0 | - | - | 0 | - | - | | |
| Satisfaction with inform | natior | n provid | ed by | comm | unity healt | h workers | | |
| Very dissatisfied | 28 | 25.2 | 5.7 | 3 | 3.5 | 2.4 | | |
| Dissatisfied | 6 | 5.8 | 3.3 | 3 | 5.6 | 5.8 | | |
| Satisfied | 68 | 62.9 | 6.4 | 43 | 86.8 | 6.7 | | |
| Very satisfied | 10 | 6.0 | 2.7 | 4 | 4.2 | 1.6 | | |
| Don't know | 2 | - | - | 2 | - | - | | |
| Decline to respond | 0 | - | - | 0 | - | - | | |
| Satisfaction with respe | ctfuln | ess sho | wn by | comm | unity healt | h workers | | |
| Very dissatisfied | 28 | 25.1 | 5.8 | 3 | 3.5 | 2.4 | | |
| Dissatisfied | 6 | 8.4 | 4.1 | 3 | 5.6 | 5.8 | | |
| Satisfied | 70 | 60.9 | 5.6 | 43 | 86.8 | 6.7 | | |
| Very satisfied | 9 | 5.6 | 2.4 | 4 | 4.2 | 1.6 | | |
| Don't know | 1 | - | - | 2 | - | - | | |
| Decline to respond | 0 | - | - | 0 | - | - | | |

Table D4.3: Satisfaction with community health workers, women 15-49 years of age who met withcommunity health workers in the last month

D4.3 Counseling provided in health facilities

Respondents who had visited a health facility in the last 12 months (578 women at the second follow-up) were asked whether they were given counseling about certain topics by health center personnel. Approximately 12.7% of women in the second follow-up reported receiving guidance or advice about breastfeeding in the 12 months preceding the interview (Table D4.4). Approximately 12.6% of women in the second follow-up reported receiving guidance or advice about child nutrition in the 12 months preceding the interview (Table D4.4). Approximately 14.6% of women in the second follow-up reported receiving guidance or advice about child nutrition in the 12 months preceding the interview (Table D4.4). Approximately 14.6% of women in the second follow-up reported receiving guidance or advice about child nutrition in the 12 months preceding the interview (Table D4.4). Approximately 14.6% of women in the second follow-up reported receiving guidance or advice about child nutrition in the 12 months preceding the interview (Table D4.4).



| | | Baseline 2013 | | | | ond Fol | low-Up | 5w-Up 2017 % SE 12.7 4.5 | | |
|---------------------------------------|-----|---------------|------|-----|----|---------|--------|--------------------------------|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| On breastfeeding | 235 | 854 | 22.6 | 2.1 | 89 | 573 | 12.7 | 4.5 | | |
| On child nutrition | 258 | 854 | 25.6 | 2.3 | 90 | 574 | 12.6 | 3.2 | | |
| On danger signs for children's health | 293 | 853 | 29.2 | 2.6 | 89 | 573 | 14.6 | 4.5 | | |

Table D4.4: Exposure to breastfeeding, child nutrition, and child health interventions, women 15-49 years

D4.4 Counseling provided in health facilities to women with children

In the follow-up survey, respondents who had visited a health facility in the last 12 months and who had children (512 women at the second follow-up) were asked whether they were given counseling about certain topics by health center personnel.

Table D4.5: Counseling provided in health facilities to women with children

| | Second Follow-Up 2017 | | | | | |
|--------------------------------------|-----------------------|-----|------|-----|--|--|
| | n | Ν | % | SE | | |
| Deworming | 112 | 509 | 20.2 | 5.2 | | |
| Diarrhea treatment with ORS and zinc | 73 | 508 | 11.1 | 3.3 | | |
| Micronutrients | 44 | 509 | 7.7 | 2.8 | | |

Questions about these topics were not asked at baseline. They were added to the second follow-up survey to track exposure to SMI interventions.

D5. CHAPTER 5: FAMILY PLANNING

This chapter summarizes key indicators related to the knowledge of, access to, need for, and use of family planning methods among women of reproductive age (15-49 years) participating in the SMI-Honduras second follow-up household survey.

Family planning questions were asked only to women of reproductive age who were married or partnered. During the SMI-Honduras baseline household survey, family planning questions were asked to women whose marital status was reported as "married" or "partnered" by the SMI-Honduras household census respondent. During the second follow-up, the family planning section was instead conditioned on a question about marital status asked to the respondent herself at the start of the woman's health interview. This captured participants who had a change in marital status between the census and household survey and participants whose marital status was incorrectly recorded in the census. At the baseline, 1,088 women qualified for the family planning questions, and at the second follow-up, 645 women qualified.



D5.1 Knowledge of the Fertile Period

The successful use of family planning methods depends on an understanding of when during the menstrual cycle a woman is most likely to conceive. This is especially true for traditional methods such as the rhythm method (i.e., periodic abstinence) and the withdrawal method. To assess knowledge of the fertile period, women were asked if there are certain days when a woman is more likely to become pregnant, and when during the menstrual cycle those days occur. Responses to these questions are summarized in Table D5.1. In the second follow-up, 73.9% of women indicated that there were certain days when a woman is more likely to become pregnant, and of these women, only 13% identified the correct timing of the fertile period (halfway between two periods).

Table D5.1: Knowledge of the fertile period, women 15-49 years of age who are married or partnered

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | |
|---------------------------------|-----|---------|--------|-----|-----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Knowledge of the fertile period | 679 | 968 | 69.4 | 2.9 | 447 | 575 | 73.9 | 4.3 | |

| | Baseline 2013 | | | Second Follow-Up 2017 | | | | |
|---|---------------|------|-----|-----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| Knowledge of timing of fertile period, among women who know of fertile period | | | | | | | | |
| Just before period | 50 | 8.5 | 1.7 | 38 | 6.1 | 1.1 | | |
| During period | 11 | 1.1 | 0.4 | 6 | 1.1 | 0.5 | | |
| Just after period | 508 | 80.4 | 2.4 | 321 | 79.2 | 3.3 | | |
| Halfway between periods | 68 | 10.0 | 1.4 | 40 | 13.0 | 3.2 | | |
| Other | 0 | 0.0 | - | 3 | 0.6 | 0.4 | | |
| Don't know | 41 | - | - | 39 | - | - | | |
| Decline to respond | 1 | - | - | 0 | - | - | | |

D5.2 Use of Family Planning Methods

D5.2.1 Current use

The coverage of contraceptive methods is one of the indicators most frequently used to assess the success of family planning program activities. It is also widely used as a determinant of fertility. Women who said they had heard of a family planning method were asked if they were currently using that method. Table D5.2 displays the percentage of all women using at least one family planning method, as well as the percentage of women reporting use of more than one family planning method at the time of the interview. Sixty six percent of all survey respondents in the second follow-up reported current use of at least one family planning method.

Women considered "in need" of family planning methods are those who are married or partnered, excluding those who report the following characteristics: does not have sexual relations, virgin,



menopausal, infertile, hysterectomy, pregnant, or wants to become pregnant. Even women not considered "in need" of contraception may use a method. Table D5.3 shows the uptake of modern family planning methods among all married and partnered women (66%), and among women considered "in need" of contraception (76.9%).

Table D5.2: Current use of family planning methods, women 15-49 years of age who are married or partnered

| | | Baseline 2013 | | | Seco | nd Folle | ollow-Up 2017 | | | |
|--|-----|---------------|------|-----|------|----------|---------------|-----|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| Currently in need of contraception | 892 | 1087 | 79.0 | 1.9 | 540 | 645 | 83.3 | 2.6 | | |
| Current use of any method, among all women | 678 | 1087 | 56.2 | 2.9 | 445 | 645 | 66.0 | 3.7 | | |

Table D5.3: Current use of modern family planning methods, women 15-49 years of age who are married or partnered and in need of contraception

| | | Baselin | e 2013 | | Seco | nd Follo | ow-Up 2 | p 2017 | | | | |
|------------------------------|-----|---------|--------|-----|------|----------|---------|--------|--|--|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | | | |
| Current use of any method | 657 | 892 | 68.3 | 3.8 | 430 | 540 | 76.9 | 3.4 | | | | |
| Current use of modern method | 617 | 892 | 63.6 | 4.0 | 411 | 540 | 74.7 | 3.8 | | | | |

| | Bas | eline 20 | 013 | Second Follow-Up 2017 | | | | | |
|---|-----|----------|-----|-----------------------|------|-----|--|--|--|
| | n | % | SE | n | % | SE | | | |
| Number of methods the respondent is currently using | | | | | | | | | |
| Not using any family planning methods | 238 | 31.9 | 3.7 | 111 | 23.2 | 3.4 | | | |
| Using 1 family planning method | 646 | 67.4 | 3.7 | 429 | 76.8 | 3.4 | | | |
| Using 2 family planning methods | 8 | 0.7 | 0.5 | 0 | 0.0 | - | | | |
| Not using any family planning methods | 0 | 0.0 | - | 0 | 0.0 | - | | | |
| Using 1 family planning method | 0 | 0.0 | - | 0 | 0.0 | - | | | |
| Using 2 family planning methods | 0 | 0.0 | - | 0 | 0.0 | - | | | |

Table D5.4 displays the percentage of all women using specific family planning methods. The methods most commonly in use during the second follow-up are injectables (22.8%) and female sterilization (18.5%).



| | | Baseline | e 2013 | Seco | Second Follow-Up 2017 | | | | |
|----------------------------------|-----|----------|--------|------|-----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Injectable | 297 | 1086 | 23.1 | 2.2 | 154 | 644 | 22.8 | 2.3 | |
| Female sterilization | 126 | 1086 | 12.1 | 1.8 | 107 | 645 | 18.5 | 2.2 | |
| Oral contraceptive | 102 | 1082 | 8.2 | 1.4 | 70 | 644 | 11.3 | 2.5 | |
| Intrauterine device (IUD) | 83 | 1086 | 6.6 | 1.0 | 54 | 645 | 6.7 | 1.4 | |
| Implant | 2 | 1085 | 0.5 | 0.4 | 23 | 645 | 3.4 | 1. | |
| Rhythm | 27 | 1086 | 2.7 | 0.6 | 17 | 645 | 1.7 | 0. | |
| Male condom | 28 | 1086 | 2.2 | 0.7 | 15 | 645 | 1.2 | 0. | |
| Withdrawal | 11 | 1086 | 0.9 | 0.3 | 3 | 644 | 0.3 | 0. | |
| Emergency contraception (Plan B) | 0 | 1086 | 0.0 | - | 1 | 645 | 0.1 | 0. | |
| Male sterilization | 1 | 1086 | 0.0 | - | 0 | 645 | 0.0 | | |
| Female condom | 0 | 1086 | 0.0 | - | 0 | 645 | 0.0 | | |
| Diaphragm | 1 | 1086 | 0.0 | - | 0 | 645 | 0.0 | | |
| Sponge | 0 | 1086 | 0.0 | - | 0 | 645 | 0.0 | | |
| Lactational amenorrhea | 5 | 1086 | 0.3 | 0.2 | 0 | 645 | 0.0 | | |
| Other modern method | 0 | 1086 | 0.0 | - | 0 | 645 | 0.0 | | |
| Other traditional method | 1 | 1086 | 0.1 | 0.1 | 0 | 642 | 0.0 | | |

Table D5.4: Current use of family planning methods, by type of method, for women 15-49 years of age who are married or partnered

* categories not mutually exclusive (select all that apply)

D5.3 Sources of Family Planning Methods

Information on where women obtain contraceptive methods is important for family planning program managers. The places where the currently-used family planning methods were acquired are summarized in Table D5.5.

The public sector is the source most commonly reported by users of most modern family planning methods, including female sterilization. Pharmacies are important sources for injectables, the pill, and male condoms. Women report learning about traditional methods in the public sector, from friends or relatives, or at church (Table D5.6).

Table D5.5: Source of modern family planning methods, women 15-49 years of age who are married or partnered

| Ва | seline 20 | 013 | Second Follow-Up 2017 | | | |
|-----|---------------------------|---|---|---|--|--|
| n | % | SE | n | % | SE | |
| | | | | | | |
| 151 | 53.6 | 6.9 | 81 | 55.3 | 9.0 | |
| 18 | 6.7 | 2.0 | 37 | 26.9 | 8.3 | |
| 96 | 31.0 | 6.5 | 19 | 10.9 | 5.2 | |
| 7 | 1.7 | 0.7 | 7 | 3.7 | 1.6 | |
| 2 | 1.0 | 0.7 | 3 | 1.2 | 0.9 | |
| | n 151 18 96 7 | n % 151 53.6 18 6.7 96 31.0 7 1.7 | 151 53.6 6.9 18 6.7 2.0 96 31.0 6.5 7 1.7 0.7 | n % SE n 151 53.6 6.9 81 18 6.7 2.0 37 96 31.0 6.5 19 7 1.7 0.7 7 | n % SE n % 151 53.6 6.9 81 55.3 18 6.7 2.0 37 26.9 96 31.0 6.5 19 10.9 7 1.7 0.7 7 3.7 | |



(continued)

| entinacaj | | | | | | |
|---|-------------|------------|----------|--------|------------|------|
| | n | % | SE | n | % | SE |
| CMI | 3 | 0.8 | 0.5 | 5 | 0.6 | 0.6 |
| Community health worker | 4 | 0.9 | 0.5 | 1 | 0.5 | 0.5 |
| Public hospital | 7 | 2.2 | 1.0 | 0 | 0.0 | |
| Public mobile clinic | 1 | 0.4 | 0.4 | 0 | 0.0 | |
| Other public health facility | 2 | 0.5 | 0.4 | 0 | 0.0 | |
| Private hospital | 0 | 0.0 | - | 0 | 0.0 | |
| Private mobile clinic | 1 | 0.4 | 0.4 | 0 | 0.0 | |
| Other private health facility | 0 | 0.0 | - | 0 | 0.0 | |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | |
| Store | 0 | 0.0 | - | 0 | 0.0 | |
| Market | 0 | 0.0 | - | 0 | 0.0 | |
| Church | 0 | 0.0 | - | 0 | 0.0 | |
| Friend/relative | 1 | 0.2 | 0.2 | 0 | 0.0 | |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 3 | 0.6 | 0.4 | 1 | 0.9 | 0.9 |
| Don't know | 1 | - | - | 0 | - | |
| Decline to respond | 1 | - | - | 0 | - | |
| Female sterilization | | | | | | |
| Public hospital | 85 | 74.5 | 6.9 | 81 | 70.8 | 6.6 |
| Private health clinic | 10 | 6.4 | 2.2 | 6 | 9.8 | 5.0 |
| CESAMO | 11 | 5.2 | 2.1 | 2 | 5.0 | 4.0 |
| Private mobile clinic | 0 | 0.0 | - | 1 | 4.2 | 4.2 |
| Private doctor's office | 1 | 0.6 | 0.6 | 4 | 0.8 | 0.6 |
| СМІ | 2 | 0.8 | 0.5 | 2 | 0.8 | 0.8 |
| Other public health facility | 4 | 1.8 | 1.5 | 1 | 0.7 | 0.7 |
| Community health worker | 0 | 0.0 | - | 1 | 0.6 | 0.7 |
| Private hospital | 4 | 1.6 | 0.8 | 2 | 0.2 | 0.2 |
| Public mobile clinic | 2 | 6.0 | 5.3 | 0 | 0.0 | |
| Other private health facility | 3 | 2.0 | 1.2 | 0 | 0.0 | |
| Pharmacy | 0 | 0.0 | - | 0 | 0.0 | |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | |
| Store | 0 | 0.0 | - | 0 | 0.0 | |
| Market | 0 | 0.0 | - | 0 | 0.0 | |
| Church | 0 | 0.0 | - | 0 | 0.0 | |
| Friend/relative | 0 | 0.0 | - | 0 | 0.0 | |
| CESAR | 0 | 0.0 | - | 0 | 0.0 | |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 3 | 1.1 | 0.8 | 6 | 7.1 | 3.9 |
| Don't know | 0 | - | - | 1 | - | |
| Decline to respond | 1 | - | - | 0 | - | |
| Oral contraceptive | | | | I | | |
| CESAMO | 33 | 29.3 | 7.6 | 42 | 62.7 | 10.8 |
| Pharmacy | 38 | 38.7 | 5.8 | 20 | 29.3 | 10.8 |
| Public mobile clinic | 0 | 0.0 | - | 1 | 1.7 | 1.6 |
| CMI | 1 | 0.6 | 0.6 | 2 | 1.0 | 0.9 |
| CESAR | 25 | 28.2 | 6.9 | 1 | 0.9 | 1.0 |
| | 0 | 0.0 | - | 1 | 0.1 | 0.1 |
| Private nospital | 0 | | | | | 0.1 |
| Private hospital Public hospital | | | - | 0 | 0.0 | |
| Private nospital Public hospital Other public health facility | 0 0 1 | 0.0 0.7 | - 0.7 | 0 0 | 0.0 0.0 | |



(continued)

| | n | % | SE | n | % | SE |
|-------------------------------|----|------------|------|----|------|------|
| Private doctor's office | 0 | 0.0 | - | 0 | 0.0 | - |
| Private mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Other private health facility | 1 | 0.6 | 0.6 | 0 | 0.0 | - |
| Community health worker | 0 | 0.0 | - | 0 | 0.0 | - |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | - |
| Store | 0 | 0.0 | - | 0 | 0.0 | - |
| Market | 0 | 0.0 | - | 0 | 0.0 | - |
| Church | 0 | 0.0 | - | 0 | 0.0 | |
| Friend/relative | 0 | 0.0 | - | 0 | 0.0 | |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 1 | 0.8 | 0.8 | 3 | 4.3 | 3.1 |
| Don't know | 0 | - | - | 0 | - | |
| Decline to respond | 0 | - | - | 0 | - | |
| ntrauterine device (IUD) | | | | I | | |
| CESAMO | 35 | 42.5 | 8.1 | 21 | 43.7 | 13.4 |
| CESAR | 11 | 12.9 | 6.3 | 6 | 11.8 | 6.4 |
| Public hospital | 11 | 14.7 | 5.7 | 6 | 11.7 | 5.7 |
| Private doctor's office | 5 | 8.7 | 4.6 | 9 | 10.4 | 4.7 |
| Private health clinic | 7 | 5.6 | 2.5 | 2 | 8.7 | 6.3 |
| Private mobile clinic | 0 | 0.0 | 2.5 | 3 | 6.0 | 3.4 |
| Private hospital | 2 | 2.1 | 1.4 | 2 | 3.2 | 2.3 |
| Public mobile clinic | 0 | 0.0 | 1.4 | 2 | 2.0 | 2.0 |
| CMI | 5 | 0.0 5.0 | 2.2 | 2 | 2.0 | 2.0 |
| - | 2 | | 2.2 | | | 1.5 |
| Other public health facility | | 3.0 | | 0 | 0.0 | |
| Other private health facility | 1 | 0.6 | 0.6 | 0 | 0.0 | |
| Pharmacy | 0 | 0.0 | - | 0 | 0.0 | |
| Community health worker | 0 | 0.0 | - | 0 | 0.0 | |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | |
| Store | 1 | 1.3 | 1.2 | 0 | 0.0 | |
| Market | 0 | 0.0 | - | 0 | 0.0 | |
| Church | 0 | 0.0 | - | 0 | 0.0 | |
| Friend/relative | 0 | 0.0 | - | 0 | 0.0 | |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 3 | 3.7 | 3.1 | 2 | 0.4 | 0.3 |
| Don't know | 0 | - | - | 0 | - | |
| Decline to respond | 0 | - | - | 0 | - | |
| mplant | | | | i. | | |
| CESAMO | 1 | 47.3 | 31.7 | 17 | 61.3 | 20.5 |
| CESAR | 1 | 37.4 | 30.2 | 6 | 35.4 | 20.9 |
| СМІ | 0 | 0.0 | - | 1 | 3.3 | 3.5 |
| Public hospital | 0 | 0.0 | - | 0 | 0.0 | |
| Public mobile clinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other public health facility | 0 | 0.0 | - | 0 | 0.0 | |
| Private hospital | 0 | 0.0 | - | 0 | 0.0 | |
| Private health clinic | 0 | 0.0 | - | 0 | 0.0 | |
| Private doctor's office | 1 | 15.3 | 16.1 | 0 | 0.0 | |
| Private mobile clinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other private health facility | 0 | 0.0 | - | 0 | 0.0 | |
| | | | | 1 | | |
| Pharmacy | 0 | 0.0 | - | 0 | 0.0 | - |



| (continued) |
|-------------|
| |

| | n | % | SE | n | % | SE |
|---|----|------|------|--------|---------|------|
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | |
| Store | 0 | 0.0 | - | 0 | 0.0 | |
| Market | 0 | 0.0 | - | 0 | 0.0 | |
| Church | 0 | 0.0 | - | 0 | 0.0 | |
| Friend/relative | 0 | 0.0 | - | 0 | 0.0 | |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 0 | 0.0 | - | 0 | 0.0 | |
| Don't know | 0 | - | - | 0 | - | |
| Decline to respond | 0 | - | - | 1 | - | |
| lale condom | | | | | | |
| Pharmacy | 6 | 13.5 | 6.5 | 7 | 43.6 | 13.0 |
| CESAMO | 13 | 31.7 | 11.9 | 5 | 32.7 | 19.8 |
| CESAR | 8 | 51.5 | 15.8 | 1 | 12.9 | 9.0 |
| Market | 0 | 0.0 | - | 1 | 9.7 | 6.7 |
| Public hospital | 1 | 3.3 | 3.3 | 1 | 1.0 | 1.1 |
| Public mobile clinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other public health facility | 0 | 0.0 | - | 0 | 0.0 | |
| Private hospital | 0 | 0.0 | - | 0 | 0.0 | |
| Private health clinic | 0 | 0.0 | - | 0 | 0.0 | |
| Private doctor's office | 0 | 0.0 | - | 0 | 0.0 | |
| Private mobile clinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other private health facility | 0 | 0.0 | - | 0 | 0.0 | |
| Community health worker | 0 | 0.0 | - | 0 | 0.0 | |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | |
| Store | 0 | 0.0 | - | 0 | 0.0 | |
| Church | 0 | 0.0 | - | 0 | 0.0 | |
| Friend/relative | 0 | 0.0 | - | 0 | 0.0 | |
| CMI | 0 | 0.0 | - | 0 | 0.0 | |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 0 | 0.0 | - | 0 | 0.0 | |
| Don't know | 0 | - | - | 0 | - | |
| Decline to respond | 0 | - | - | 0 | - | |
| Female condom and sponge on eported receiving them in base | | | | use no | o women | |

Table D5.6: Source of knowledge about traditional family planning methods, women 15-49 years of age who are married or partnered

| | Ba | seline 20 | 013 | Second Follow-Up 2017 | | | |
|------------------------------|----|-----------|-----|-----------------------|-----|----|--|
| | n | % | SE | n | % | SE | |
| Lactational amenorrhea | | | | | | | |
| Public hospital | 0 | 0.0 | - | 0 | 0.0 | - | |
| Public mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - | |
| Other public health facility | 0 | 0.0 | - | 0 | 0.0 | - | |
| Private hospital | 0 | 0.0 | - | 0 | 0.0 | - | |
| Private health clinic | 0 | 0.0 | - | 0 | 0.0 | - | |
| Private doctor's office | 0 | 0.0 | - | 0 | 0.0 | - | |
| Private mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - | |



| Other private health facility | 0 | 0.0 | - | 0 | 0.0 | - |
|-------------------------------|----|------|------|---|------|------|
| Pharmacy | 0 | 0.0 | - | 0 | 0.0 | - |
| Community health worker | 0 | 0.0 | - | 0 | 0.0 | - |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | - |
| Store | 0 | 0.0 | - | 0 | 0.0 | - |
| Market | 0 | 0.0 | - | 0 | 0.0 | - |
| Church | 0 | 0.0 | - | 0 | 0.0 | - |
| Friend/relative | 2 | 68.9 | 26.6 | 0 | 0.0 | - |
| CESAR | 0 | 0.0 | - | 0 | 0.0 | - |
| CESAMO | 1 | 31.1 | 26.6 | 0 | 0.0 | - |
| CMI | 0 | 0.0 | - | 0 | 0.0 | - |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Other | 0 | 0.0 | - | 0 | 0.0 | - |
| Don't know | 2 | - | - | 0 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |
| Rhythm | | | | | | |
| Friend/relative | 11 | 40.7 | 12.0 | 5 | 36.4 | 17.0 |
| CESAR | 2 | 5.8 | 4.3 | 4 | 32.1 | 16.6 |
| Private health clinic | 0 | 0.0 | - | 2 | 11.2 | 7.9 |
| Church | 6 | 33.3 | 13.0 | 1 | 4.4 | 4.3 |
| Other private health facility | 0 | 0.0 | - | 1 | 0.8 | 0.9 |
| Public hospital | 1 | 3.1 | 3.1 | 0 | 0.0 | - |
| Public mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Other public health facility | 0 | 0.0 | - | 0 | 0.0 | - |
| Private hospital | 0 | 0.0 | - | 0 | 0.0 | - |
| Private doctor's office | 0 | 0.0 | - | 0 | 0.0 | - |
| Private mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Pharmacy | 0 | 0.0 | - | 0 | 0.0 | - |
| Community health worker | 0 | 0.0 | - | 0 | 0.0 | - |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | - |
| Store | 0 | 0.0 | - | 0 | 0.0 | - |
| Market | 0 | 0.0 | - | 0 | 0.0 | - |
| CESAMO | 6 | 14.9 | 6.4 | 0 | 0.0 | - |
| СМІ | 0 | 0.0 | - | 0 | 0.0 | - |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Other | 1 | 2.2 | 2.3 | 4 | 15.2 | 9.8 |
| Don't know | 0 | - | - | 0 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |
| Withdrawal | | | | | | |
| Public hospital | 0 | 0.0 | - | 0 | 0.0 | - |
| Public mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Other public health facility | 0 | 0.0 | - | 0 | 0.0 | - |
| Private hospital | 0 | 0.0 | - | 0 | 0.0 | - |
| Private health clinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Private doctor's office | 0 | 0.0 | - | 0 | 0.0 | - |
| Private mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Other private health facility | 0 | 0.0 | - | 0 | 0.0 | - |
| Pharmacy | 0 | 0.0 | - | 0 | 0.0 | - |
| Community health worker | 0 | 0.0 | - | 0 | 0.0 | - |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | - |
| Store | 0 | 0.0 | - | 0 | 0.0 | - |
| Market | 0 | 0.0 | - | 0 | 0.0 | - |
| Church | 0 | 0.0 | - | 0 | 0.0 | - |
| | | | | | | |



| Friend/relative | 7 | 71.2 | 17.9 | 0 | 0.0 | - |
|--------------------|---|------|------|---|-------|-----|
| CESAR | 1 | 11.6 | 11.2 | 0 | 0.0 | - |
| CESAMO | 2 | 17.2 | 15.7 | 0 | 0.0 | - |
| СМІ | 0 | 0.0 | - | 0 | 0.0 | - |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Other | 0 | 0.0 | - | 2 | 100.0 | 0.0 |
| Don't know | 1 | - | - | 1 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |

D5.4 Non-Use and Interruption of Use of Family Planning Methods

Non-use and interruption of use of family planning methods are major concerns for family planning program managers.

D5.4.1 Prevalence of interruption

The prevalence of interruption and non-use of family planning methods is summarized in Table D5.7. Of women participating in the second follow-up survey, 83.3% are considered "in need" of contraception (i.e., they did not report any of the following: does not have sexual relations, virgin, menopausal, infertile, hysterectomy, pregnant, or wants to become pregnant). Among these women in need, 3.8% reported any interruption in the use of family planning methods in the previous year.

Table D5.7: Interruption and non-use of family planning methods, among women 15-49 years of age who are married or partnered and in need of contraception

| | | Baselin | e 2013 | 3 | | w-Up 2017 | | |
|-----------------------|----|---------|--------|-----|----|-----------|-----|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Discontinuation rate* | 23 | 892 | 3.7 | 1.1 | 19 | 540 | 3.8 | 1.5 |

^{*} any interruption in use during the last year, among women in need of contraception

| | Bas | eline 20 |)13 | Second Follow-Up 2017 | | | | |
|------------------------|----------|----------|--------|-----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| Number of interruption | s in use | e during | the la | st year | | | | |
| none | 869 | 96.3 | 1.1 | 521 | 96.2 | 1.5 | | |
| once | 23 | 3.7 | 1.1 | 19 | 3.8 | 1.5 | | |
| 2-6 times per year | 0 | 0.0 | - | 0 | 0.0 | - | | |
| 7-12 times per year | 0 | 0.0 | - | 0 | 0.0 | - | | |
| >12 times per year | 0 | 0.0 | - | 0 | 0.0 | - | | |

D5.4.2 Reasons for non-use

Women who interrupted use of family planning methods in the year preceding the interview, and those who indicated they were not using any method on the day of the interview, were asked to specify all



reasons why they did not use a method. The interviewer matched responses provided by the respondent to a list of reasons in the questionnaire (Table D5.8). The most commonly cited reasons for non-use at the time of the second follow-up interview were, not sexually active (18.3%), respondent is do not like to use contraception (16.4%), and respondent is concerned about side effects (7.1%).

Table D5.8: Reasons for non-use of family planning methods, women 15-49 years of age who are marriedor partnered and who are not using family planning methods

| | | Baselii | ne 2013 | | ç | Second | Follow-L | Jp 2017 |
|---|----|---------|---------|-----|----|--------|----------|---------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Not sexually active | 59 | 372 | 15.0 | 3.0 | 37 | 192 | 18.3 | 2.6 |
| Do not like to use contraception | 78 | 372 | 18.0 | 3.3 | 34 | 192 | 16.4 | 4.2 |
| Concerned about side effects | 14 | 372 | 2.6 | 0.7 | 11 | 192 | 7.1 | 3.2 |
| Trying to become pregnant | 30 | 372 | 11.0 | 3.0 | 10 | 192 | 6.8 | 2.8 |
| Menopausal | 24 | 372 | 5.8 | 1.5 | 10 | 192 | 5.5 | 3.2 |
| Unmarried | 13 | 372 | 4.8 | 2.3 | 5 | 192 | 4.1 | 2.4 |
| Currently pregnant | 24 | 372 | 4.8 | 1.2 | 10 | 192 | 3.9 | 1.4 |
| Using contraception interferes with normal body processes | 5 | 372 | 1.3 | 0.6 | 10 | 192 | 3.7 | 1.1 |
| Opposed to use | 19 | 372 | 4.2 | 1.6 | 7 | 192 | 3.1 | 1.7 |
| Infrequently sexually active | 24 | 372 | 10.3 | 2.7 | 4 | 192 | 3.0 | 2.0 |
| No menstrual period since giving birth | 7 | 372 | 1.3 | 0.6 | 6 | 192 | 2.2 | 1.3 |
| Breastfeeding | 17 | 372 | 2.7 | 0.7 | 8 | 192 | 2.2 | 0.7 |
| Infertile | 17 | 372 | 7.6 | 2.6 | 6 | 192 | 2.1 | 1.0 |
| Married | 32 | 372 | 9.6 | 3.4 | 3 | 192 | 1.8 | 1.7 |
| Spouse or partner opposed to use | 13 | 372 | 3.7 | 1.5 | 4 | 192 | 1.6 | 1.3 |
| The method is too expensive | 0 | 372 | 0.0 | - | 2 | 192 | 0.9 | 0.6 |
| Against religious beliefs | 11 | 372 | 2.2 | 0.7 | 2 | 192 | 0.6 | 0.4 |
| Knows no source for methods | 3 | 372 | 0.5 | 0.4 | 1 | 192 | 0.6 | 0.6 |
| Preferred method was not available | 1 | 372 | 0.3 | 0.3 | 1 | 192 | 0.6 | 0.6 |
| No method was available | 1 | 372 | 0.3 | 0.3 | 1 | 192 | 0.6 | 0.6 |
| Health facility staff difficult to deal with | 1 | 372 | 0.1 | 0.1 | 1 | 192 | 0.6 | 0.6 |
| Using contraception is uncomfortable | 7 | 372 | 1.4 | 0.6 | 2 | 192 | 0.6 | 0.5 |
| Have undergone hysterectomy | 3 | 372 | 0.4 | 0.3 | 1 | 192 | 0.3 | 0.3 |
| The health facility is too far away | 5 | 372 | 1.0 | 0.5 | 1 | 192 | 0.3 | 0.3 |
| Virgin | 0 | 372 | 0.0 | - | 0 | 192 | 0.0 | - |
| Others opposed to use | 3 | 372 | 0.6 | 0.3 | 0 | 192 | 0.0 | - |
| Knows no method | 4 | 372 | 0.7 | 0.4 | 0 | 192 | 0.0 | - |
| Could not find transportation to a health facility | 1 | 372 | 0.3 | 0.3 | 0 | 192 | 0.0 | - |
| Could not afford transportation | 2 | 372 | 0.4 | 0.3 | 0 | 192 | 0.0 | - |
| Mistrust health center staff | 1 | 372 | 0.1 | 0.1 | 0 | 192 | 0.0 | - |
| Other | 37 | 372 | 12.8 | 3.4 | 27 | 192 | 18.5 | 5.0 |

* "Using contraception affects health" was an option offered in the second follow-up, but was not available at baseline.

8 women selected this as a reason for not using family planning at the second follow-up.

* categories not mutually exclusive (select all that apply)



D5.5 Family Planning Intentions and Decision-Making

D5.5.1 Participation in family planning decision

In this setting in the second follow-up, 68.3% of women report that decisions about family planning methods are jointly made by the respondent and her partner. In only 1.7% of cases, the decision to use family planning methods is up to the respondent's partner alone.

Table D5.9: Participation in family planning decision-making, women 15-49 years of age who are married or partnered and are currently using family planning methods

| | Bas | Baseline 2013 | | | Second Follow-Up 201 | | | | |
|------------------------------------|-----|---------------|-----|-----|----------------------|-----|--|--|--|
| | n | % | SE | n | % | SE | | | |
| Joint decision | 671 | 82.7 | 1.9 | 412 | 68.3 | 3.9 | | | |
| Mostly the respondent | 125 | 13.4 | 1.5 | 131 | 29.0 | 4.0 | | | |
| Mostly respondent's spouse/partner | 33 | 3.8 | 1.0 | 10 | 1.7 | 0.8 | | | |
| Others | 1 | 0.1 | 0.1 | 4 | 0.6 | 0.4 | | | |
| Not applicable - not partnered | 0 | 0.0 | - | 5 | 0.4 | 0.3 | | | |
| Don't know | 2 | - | - | 1 | - | - | | | |
| Decline to respond | 4 | - | - | 1 | - | - | | | |

D5.5.2 Informed choice

With respect to use of family planning methods, "informed choice" refers to whether or not health care workers described other options for family planning methods, possible side effects associated with the method of choice, and how to respond to side effects if they occur. This information can be used to help women select an appropriate contraceptive method, and to assist users in coping with side effects (thus decreasing discontinuation rates for non-permanent methods).

Table D5.10 shows the percent of women currently using family planning methods who were told about other options for contraception (46.3% of women in the second follow-up).

Table D5.10: Family planning decision-making, informed choice, women 15-49 years of age who are married or partnered and who are currently using family planning methods

| | | Baselin | e 2013 | | Seco | Second Follow-Up 2017 | | | | |
|---|-----|---------|--------|-----|------|-----------------------|------|-----|--|--|
| | n | N | % | SE | n | N | % | SE | | |
| Informed about other family planning options by a doctor, nurse, or community health worker | 379 | 833 | 47.1 | 3.6 | 273 | 564 | 46.3 | 5.3 | | |



D5.6 Exposure to Family Planning Information

D5.6.1 Family planning messages delivered by health care providers

Respondents were asked about their exposure to family planning messages delivered by health care providers (Table D5.11). Forty two percent of women in the second follow-up reported being advised about family planning at the health care facility they attend during the past 12 months. Fourteen percent of all respondents indicated that they had been visited by a health promoter who provided information about family planning in the last 12 months. Just 3.7% of respondents who had not attended a health facility in the last 12 months were visited by a health promoter who provided information about family planning.

Table D5.11: Family planning messages delivered by health care providers in the last 12 months, women15-49 years of age who are married or partnered

| | | Baseline | e 2013 | Second Follow-Up 2017 | | | | |
|---|-----|----------|--------|-----------------------|-----|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Discussion about family planning methods with staff member at a health facility | 316 | 521 | 60.4 | 3.5 | 155 | 342 | 42.0 | 5.7 |
| Discussion about family planning methods during health promoter visit | 109 | 1081 | 10.1 | 1.5 | 84 | 640 | 14.5 | 3.1 |
| Visit by promotor, among women who had not visited a health facility | 12 | 558 | 3.2 | 1.3 | 12 | 298 | 3.7 | 1.4 |

D5.7 Age at First Birth

D5.7.1 Age at first birth

Seventy three percent of respondents in the second follow-up had ever given birth (Table D5.12). Of these women, the median age of the women when their first child was born was 19 years old. Only a quarter of women were 21 years old or older when their first child was born. Nine percent of women reported a history of stillbirth, miscarriage, and/or abortion.

Table D5.12: Parity and age at first birth, women 15-49 years of age

| | | Baseline | 2013 | Second Follow-Up 2017 | | | | |
|---|------|----------|------|-----------------------|-----|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Ever given birth | 1385 | 1690 | 75.7 | 1.9 | 793 | 975 | 73.4 | 2.6 |
| Ever had a stillbirth, miscarriage, or abortion | 145 | 1685 | 8.2 | 1.2 | 94 | 974 | 8.6 | 1.4 |



| | Ν | DK/DTR | Min | 25th Percentile | Median e | 75th Percentile | Max e |
|---|------|--------|-----|--------------------|-------------|--------------------|----------|
| Baseline 2013 | | | | | | | |
| Age at first birth, among parous women | 1379 | 4 | 10 | 17 | 19 | 21 | 39 |
| Second follow-up 2017 Age at first birth, among parous women | 793 | 0 | 13 | 17 | 19 | 21 | 40 |

D6. CHAPTER 6: MATERNAL HEALTH CARE

This chapter summarizes key indicators pertaining to antenatal care, delivery care, and postpartum care for the most recent live birth in the last two years as reported by women of reproductive age (15-49 years) participating in the SMI-Honduras second follow-up household survey. Participating women were interviewed about all live births in the last five years, but to reduce the impact of recall bias, results reported here are for each woman's most recent birth in the last two years. At the baseline, 647 women were interviewed about at least one birth in the last two years. At the second follow-up, 310 women were interviewed about births in the last two years.

D6.1 Antenatal Care

To reduce recall bias, data pertaining to antenatal care are summarized for a woman's most recent birth in the last two years.

D6.1.1 Antenatal care coverage

Early and regular checkups by trained medical providers are important in assessing the physical status of women during pregnancy and provide an opportunity to intervene in a timely manner if any problems are detected. The Maternal and Child Health Questionnaire captured information from women on both overall coverage of antenatal care and the content of care received. To obtain information on source of antenatal care, interviewers recorded all persons a woman consulted for care. Timing of antenatal care was assessed by asking women how many weeks or months pregnant they were when they attended their first antenatal care visit. The same details were recorded for up to eight antenatal care visits.

The percentage of women with a birth in the last two years who attended at least one antenatal care visit for the most recent birth, and the percent distribution of timing of care among those who received any antenatal care are presented in Table D6.1. Definition of "most recent birth" changed between baseline and second follow-up. The type of facility where antenatal care was sought is detailed in Table D6.2.

Among women with a child under the age of 2 in the second follow-up, 95.8% attended at least one antenatal care visit and 93.2% of women had at least one antenatal care visit with a doctor or professional nurse. At the second follow-up, 63.2% of women had an antenatal care visit during the first trimester (first 12 weeks) with a doctor or professional nurse, compared to 48.6% at the baseline. The median age of gestation at the first antenatal care visit during the second follow-up was 2 months.



Table D6.1: Antenatal care coverage for the most recent birth in the last two years, women 15-49 years of age

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | |
|--|-----|---------|--------|-----|-----------------------|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Attended at least one antenatal care visit | 617 | 646 | 95.8 | 1.0 | 298 | 310 | 95.8 | 1.3 |
| Attended at least one antenatal care visit with doctor or professional nurse | 572 | 647 | 88.3 | 2.0 | 292 | 310 | 93.2 | 2.2 |
| Antenatal care visit with doctor or professional nurse in the first trimester (12 weeks) | 328 | 641 | 48.6 | 3.4 | 193 | 307 | 63.2 | 3.0 |

* Definition of most recent birth changed between baseline and second follow-up

| | Ν | DK/DTR | Min | 25th Percentile | Median e | 75th Percentile | Max e |
|---------------------------------------|-----|--------|-----|--------------------|-------------|--------------------|----------|
| Baseline 2013 | | | | | | | |
| Month of gestation of first ANC visit | 612 | 5 | 0.2 | 1 | 2 | 4 | 9 |
| Second follow-up 2017 | | | | | | | |
| Month of gestation of first ANC visit | 295 | 3 | 0.5 | 1 | 2 | 3 | 9 |

Regarding the type of facility where antenatal care was usually sought during the second follow-up (Table D6.2), most women who attended antenatal care for their most recent delivery in the last two years sought care in a CESAMO (61%) or CESAR (17.5%). Only 6.5% of women sought antenatal care in a cmi.

Table D6.2: Usual antenatal care location, women 15-49 years of age who attended at least one antenatalcare visit for most recent birth in the last two years

| | Bas | eline 20 |)13 | Secor | nd Follow | v-Up 2017 |
|-------------------------------|-----|----------|-----|-------|-----------|-----------|
| | n | % | SE | n | % | SE |
| CESAMO | 327 | 50.5 | 5.0 | 171 | 61.0 | 7.8 |
| CESAR | 165 | 30.5 | 5.2 | 40 | 17.5 | 7.8 |
| СМІ | 22 | 3.4 | 0.8 | 31 | 6.5 | 3.1 |
| Private health clinic | 54 | 7.8 | 1.6 | 20 | 5.8 | 1.6 |
| Private doctor's office | 20 | 2.6 | 1.0 | 19 | 3.8 | 1.5 |
| Public hospital | 9 | 1.8 | 0.8 | 3 | 1.2 | 0.8 |
| Private hospital | 4 | 0.6 | 0.3 | 2 | 0.7 | 0.5 |
| Public mobile clinic | 0 | 0.0 | - | 1 | 0.4 | 0.4 |
| Other public health facility | 6 | 1.3 | 0.6 | 1 | 0.4 | 0.4 |
| Private mobile clinic | 1 | 0.2 | 0.2 | 1 | 0.4 | 0.4 |
| Other private health facility | 1 | 0.1 | 0.1 | 0 | 0.0 | - |
| Pharmacy | 0 | 0.0 | - | 0 | 0.0 | - |
| Community health worker | 1 | 0.1 | 0.1 | 0 | 0.0 | - |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | - |
| Other | 7 | 1.2 | 0.5 | 8 | 2.3 | 1.1 |
| Don't know | 0 | - | - | 1 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |



D6.1.2 Frequency of antenatal care visits

Antenatal care can be more effective in avoiding adverse pregnancy outcomes when it is sought early in the pregnancy and continues until delivery. According to the national norm in Honduras, it is recommended that women receive a minimum of four antenatal care visits. The frequency of antenatal care visits is summarized in Table D6.3. Table D6.4 shows the percentage of women with four or more visits with skilled providers and according to best practices.

In the second follow-up, 88.8% of women reported having four or more antenatal care visits during their most recent pregnancy in the last two years. Sixty two percent of women reported having seven or more antenatal care visits during their most recent pregnancy.

The content of antenatal care is as crucial as the frequency of visits. As shown in Table D6.4, 41.7 percent of all women in the second follow-up survey had four or more antenatal care visits with a doctor or professional nurse, and with each of 10 defined best practices performed at least once during pregnancy (measurement of blood type, test for anemia, test for syphilis, test for HIV, test of blood glucose, test for proteinuria, measurement of maternal blood pressure, measurement of maternal weight, measurement of fundal height, and measurement of fetal heartbeat).

| | Bas | eline 20 |)13 | Secor | nd Follow | v-Up 2017 |
|--------------------|-----|----------|-----|-------|-----------|-----------|
| | n | % | SE | n | % | SE |
| None | 29 | 4.2 | 1.0 | 12 | 4.3 | 1.3 |
| 1-3 visits | 66 | 10.9 | 1.2 | 20 | 6.9 | 1.3 |
| 4-6 visits | 197 | 33.4 | 2.5 | 76 | 26.7 | 2.6 |
| 7-9 visits | 344 | 50.9 | 2.4 | 195 | 61.5 | 2.8 |
| 10+ visits | 4 | 0.6 | 0.3 | 4 | 0.6 | 0.4 |
| Don't know | 5 | - | - | 1 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |

 Table D6.3: Frequency of antenatal care visits for the most recent birth in the last two years, women

 15-49 years of age

Table D6.4: Frequency of antenatal care visits with skilled provider for the most recent birth in the lasttwo years, women 15-49 years of age

| | Baseline 2013 | | | Second Follow-Up 2017 | | | | |
|--|---------------|-----|------|-----------------------|-----|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| At least four antenatal care visits with doctor or professional nurse | 494 | 641 | 76.7 | 2.4 | 271 | 309 | 86.3 | 2.5 |
| At least four antenatal care visits with doctor or professional nurse according to best practices* | 129 | 641 | 21.1 | 2.1 | 124 | 309 | 41.7 | 5.8 |

*measuring blood type, anemia, syphilis, HIV, glucose, proteinuria, blood pressure, weight, fundal height, fetal heartbeat



D6.1.3 Content of antenatal care

The content of antenatal care is an important indicator of quality of care. The coverage of key procedures was assessed among women who received any antenatal care for a birth in the last two years (Table D6.5 and Table D6.6). It is important to remember that the validity of these data hinge on the respondent's understanding of the question and her ability to recall events that may have occurred several years prior to the interview.

There was variation in performance of the 10 "best practice" procedures during the second follow-up: measured maternal blood pressure (98.1%), measured maternal weight (97.8%), measured fetal heartbeat (97.4%), tested for proteinuria (96.1%), measured fundal height (95.7%), measured blood type (94.1%), tested for anemia (91.6%), tested for HIV (82.1%), measured blood glucose (80.6%), and tested for syphilis (69.5%). Women were unfamiliar with several tests, as evidenced by the high number of missing responses for proteinuria and syphilis in particular.

Table D6.5: Content of antenatal care visits - best practices, among women 15-49 years who attended at least one antenatal care visit for most recent birth in the last two years

| | | Baselin | e 2013 | | Seco | nd Folle | ow-Up 2 | 2017 |
|----------------------------------|-----|---------|--------|-----|------|----------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Measured maternal blood pressure | 601 | 616 | 97.7 | 0.6 | 290 | 298 | 98.1 | 0.9 |
| Measured maternal weight | 607 | 617 | 98.5 | 0.4 | 289 | 298 | 97.8 | 1.0 |
| Measured fetal heartbeat | 544 | 614 | 88.5 | 2.3 | 291 | 298 | 97.4 | 0.9 |
| Tested for proteinuria | 494 | 564 | 87.9 | 1.7 | 261 | 275 | 96.1 | 1.6 |
| Measured fundal height | 464 | 609 | 76.6 | 3.0 | 285 | 297 | 95.7 | 2.0 |
| Measured blood type | 486 | 576 | 84.2 | 2.0 | 263 | 283 | 94.1 | 1.9 |
| Tested for anemia | 503 | 591 | 84.6 | 1.8 | 257 | 282 | 91.6 | 2.0 |
| Tested for HIV | 355 | 590 | 59.2 | 2.6 | 249 | 294 | 82.1 | 6.0 |
| Measured blood glucose | 359 | 567 | 61.5 | 2.8 | 227 | 275 | 80.6 | 4.2 |
| Tested for syphilis | 297 | 525 | 56.9 | 3.5 | 173 | 248 | 69.5 | 7.7 |

Most women in the second follow-up had a collected blood specimen (95.3%) and a collected urine specimen (94.6%) collected during their antenatal care visits for the most recent birth during the past two years.



| | | Baselin | e 2013 | | Second Follow-Up 201 | | | | |
|--------------------------|-----|---------|--------|-----|----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Collected blood specimen | 600 | 616 | 97.6 | 0.5 | 285 | 298 | 95.3 | 1.4 | |
| Collected urine specimen | 590 | 617 | 95.2 | 1.1 | 282 | 298 | 94.6 | 2.0 | |
| Offered an HIV test | 411 | 593 | 67.4 | 3.0 | 265 | 295 | 88.3 | 4.2 | |
| Performed an ultrasound | 407 | 615 | 65.5 | 3.7 | 242 | 297 | 78.1 | 5.8 | |
| Tested for diabetes | 250 | 355 | 70.9 | 3.6 | 172 | 223 | 78.0 | 5.9 | |

 Table D6.6: Content of antenatal care visits - other services provided, among women 15-49 years who attended at least one antenatal care visit for most recent birth in the last two years

D6.1.4 Coverage of tetanus toxoid vaccinations during pregnancy

Tetanus toxoid injections are given during pregnancy for the prevention of neonatal tetanus. To prevent transmission of this potentially fatal infection, all women should be vaccinated with tetanus toxoid when they become pregnant. A baby is considered protected if the mother receives two doses of tetanus toxoid during pregnancy, with the second at least two weeks before delivery. However, if a woman was vaccinated previously, she only requires one dose during the current pregnancy. Five doses are considered adequate to confer lifetime immunity. To assess the coverage of tetanus toxoid vaccination, women who reported receiving any antenatal care during their most recent pregnancy were asked if they received tetanus toxoid injections.

As shown in Table D6.7, the coverage of sufficient tetanus toxoid vaccination during pregnancy was 60.1% among women who received antenatal care during the second follow-up. Thirty nine percent of women received one vaccination during the pregnancy and 48.2% received two or more. Among women with antenatal care, 36% had never been vaccinated before and 15.8% had received a vaccine in the last 10 years. Among women who were not vaccinated during prenatal care visits, 8.8% had never been vaccinated.

Table D6.7: Coverage of tetanus toxoid vaccinations during pregnancy, among women 15-49 years who attended at least one antenatal care visit for most recent birth in the last two years

| | Baseline 2013 | | | Secor | nd Follow | -Up 2017 |
|--|---------------|------|-----|-------|-----------|----------|
| | n | % | SE | n | % | SE |
| Two or more injections during pregnancy | 142 | 46.2 | 4.3 | 102 | 48.2 | 4.7 |
| One injection during pregnancy, one <10 years before | 40 | 13.7 | 2.3 | 25 | 11.9 | 2.8 |
| One injection during pregnancy, none <10 years before | 39 | 13.9 | 2.8 | 63 | 27.2 | 3.9 |
| No injections during pregnancy, one or more <10 years before | 26 | 8.1 | 1.3 | 9 | 3.9 | 1.8 |
| No injections during pregnancy nor during the 10 years prior | 55 | 18.0 | 3.1 | 22 | 8.8 | 2.1 |
| Don't know | 313 | - | - | 77 | - | - |
| Decline to respond | 2 | - | - | 0 | - | - |



D6.1.5 Exposure to safe pregnancy messages

Women who received antenatal care were asked about a series of topics for which they might have received counseling or advice during their pregnancy. Table D6.8 shows the percentage of women in the second follow-up who were exposed to the following messages: counseled about pregnancy (93.6%); counseled about danger signs during pregnancy (89.6%); counseled about nutrition during pregnancy (85.9%); given information about in-facility delivery (84%); counseled about breastfeeding (82.9%); advised to deliver in a facility (82%); counseled about contraception after delivery (79.4%).

Exposure to safe pregnancy practices increased from baseline to second follow-up for all counseling categories. In the second follow-up, 78.7% of women were counseled about childcare compared to 63.9% at baseline. 43.8% of women in the second follow-up, compared to 38.3% at baseline, were advised to have a Cesarean section. Compared to 45.5% of women at baseline, 40.1% of women in the second follow-up were counseled about making a transportation plan for delivery.

Table D6.8: Exposure to safe pregnancy practices, women 15-49 years of age who attended at least one antenatal care visit for most recent birth in the last two years

| | Baseline 2013 | | | | Second Follow-Up 2017 | | | | |
|---|---------------|-----|------|-----|-----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Counseled about pregnancy | 566 | 616 | 92.5 | 1.3 | 278 | 297 | 93.6 | 1.7 | |
| Counseled about danger signs during pregnancy | 482 | 615 | 79.5 | 2.6 | 265 | 297 | 89.6 | 2.8 | |
| Counseled about nutrition during pregnancy | 423 | 610 | 71.5 | 2.6 | 253 | 297 | 85.9 | 3.6 | |
| Given information about in-facility delivery | 476 | 617 | 79.3 | 2.5 | 250 | 297 | 84.0 | 3.1 | |
| Counseled about breastfeeding | 453 | 617 | 75.2 | 2.2 | 243 | 297 | 82.9 | 3.4 | |
| Advised to deliver in a facility | 478 | 617 | 79.6 | 2.5 | 243 | 297 | 82.0 | 3.2 | |
| Counseled about contraception after delivery | 411 | 616 | 68.9 | 3.1 | 238 | 297 | 79.4 | 3.2 | |
| Counseled about childcare | 380 | 615 | 63.9 | 3.2 | 225 | 296 | 78.7 | 4.2 | |
| Advised to have a Cesarean section | 217 | 617 | 38.3 | 3.0 | 118 | 297 | 43.8 | 6.2 | |
| Counseled about making a transportation plan for delivery | 257 | 616 | 45.5 | 3.5 | 114 | 297 | 40.1 | 7.3 | |

D6.2 Delivery Care

Proper medical attention and hygienic conditions during delivery can reduce the risk of complications, infections, and even death for the mother and newborn baby. Characteristics of the delivery, including place of delivery and assistance at delivery were captured for all births in the five years preceding the survey. To reduce recall bias, only data from the most recent delivery within the last two years are summarized.

D6.2.1 Place of delivery

The location of the most recent birth and the means of transportation used to get to the facility are shown in Table D6.9. The majority of births occurred in public hospitals (64.8%) and public health center/clinics (17.9%). Yet 6.9% of women reported giving birth at home or at another person's home. Deliveries in



private-sector facilities were rare (6.7%). Among women who delivered in a facility, 55.4% indicated that they used a private vehicle for transport (Table D6.10).

| | Bas | eline 20 | 013 | Secor | nd Follow | -Up 2017 |
|-------------------------------|-----|----------|-----|-------|-----------|----------|
| | n | % | SE | n | % | SE |
| Public hospital | 394 | 58.7 | 3.7 | 196 | 64.8 | 3.7 |
| Public health center/clinic | 127 | 21.2 | 2.6 | 56 | 17.9 | 2.6 |
| Own home | 73 | 12.7 | 2.7 | 18 | 6.9 | 2.8 |
| Private health center/clinic | 32 | 4.5 | 1.1 | 16 | 4.4 | 1.3 |
| Other public health facility | 3 | 0.4 | 0.2 | 7 | 2.4 | 1.3 |
| Private hospital | 4 | 0.7 | 0.3 | 4 | 1.5 | 0.7 |
| Other private health facility | 0 | 0.0 | - | 3 | 0.8 | 0.5 |
| Other house | 7 | 0.9 | 0.4 | 1 | 0.0 | |
| Public health ward | 0 | 0.0 | - | 1 | 0.0 | |
| Private medical ward | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 7 | 0.8 | 0.4 | 8 | 1.3 | 0.6 |
| Don't know | 0 | - | - | 0 | - | |
| Decline to respond | 0 | - | - | 0 | - | |

Table D6.9: Place of delivery for most recent birth in the last two years, women 15-49 years of age

Table D6.10: Transportation to place of delivery for most recent birth in the last two years, among women 15-49 years of age who delivered in a facility

| | | Baselin | e 2013 | | Seco | nd Foll | ow-Up 2 | 2017 |
|----------------------|-----|---------|--------|-----|------|---------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Private vehicle | 356 | 560 | 61.2 | 3.9 | 153 | 283 | 55.4 | 3.9 |
| Other public transit | 112 | 560 | 19.0 | 2.3 | 89 | 283 | 29.8 | 4.1 |
| Ambulance | 92 | 560 | 20.0 | 4.2 | 45 | 283 | 16.3 | 2.8 |
| On foot | 18 | 560 | 3.2 | 0.8 | 8 | 283 | 2.8 | 1.4 |

*categories not mutually exclusive (select all that apply)

Women were asked about the proximity to the health facility used to deliver. Of the 283 women from the second follow-up who delivered in a facility, 171 were able to estimate the distance to the facility (Table D6.11). The median number of women reported travelling less than 25 km. Fifty percent of women traveled more than one hours to the facility to deliver.



| | N | DK/DTR | Min | 25th Percentile | Median e | 75th Percentil | Max e |
|---------------------|-----|--------|-----|--------------------|-------------|-------------------|----------|
| Baseline 2013 | | | | | | | |
| Distance, km | 78 | 482 | 0 | 4 | 15.9 | 45 | 100 |
| Travel time, min | 536 | 24 | 1 | 47.4 | 90 | 120 | 2700 |
| Second follow-up 20 | 017 | | | | | | |
| Distance, km | 171 | 112 | 0.5 | 5 | 25 | 60 | 100 |
| Travel time, min | 276 | 7 | 5 | 40 | 60 | 180 | 2700 |

Table D6.11: Proximity to health care facilities: health facility for delivery

D6.2.2 Assistance at delivery

The assistance a woman receives during childbirth has important health consequences for both mother and child. For women who did not deliver alone in the last two years (98% of all births in the second follow-up), the percentage by type of delivery attendant is detailed in Table D6.12. Among women who did not report being alone for delivery, several categories of personnel may have been in attendance. As can be seen in Table D6.12, most in-facility deliveries during the second follow-up were accompanied by a medical doctor (88.6%) and/or a professional nurse (61.3%). For 46.4% of the deliveries an auxiliary nurse was in attendance. For 5% a midwife/comadrona was in attendance.

Table D6.12: Types of attendants: assistance at delivery for most recent birth in the last two years, women 15-49 years of age

| | | Baselin | e 2013 | | Seco | nd Foll | ow-Up 2 | 2017 |
|-------------------------|-----|---------|--------|-----|------|---------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Medical doctor | 539 | 646 | 82.2 | 2.7 | 275 | 310 | 88.6 | 2.8 |
| Professional nurse | 347 | 640 | 53.5 | 3.4 | 179 | 303 | 61.3 | 6.8 |
| Auxiliary nurse | 254 | 641 | 38.3 | 2.3 | 145 | 302 | 46.4 | 3.2 |
| Midwife/comadrona | 77 | 641 | 12.7 | 2.0 | 15 | 306 | 5.0 | 2.1 |
| Relative | 24 | 643 | 3.6 | 1.1 | 10 | 304 | 3.0 | 1.0 |
| Laboratory technician | 45 | 642 | 7.0 | 1.7 | 10 | 305 | 2.8 | 1.4 |
| Traditional healer | 1 | 644 | 0.1 | 0.1 | 5 | 306 | 1.3 | 0.7 |
| Pharmacist | 5 | 642 | 0.6 | 0.4 | 3 | 306 | 0.7 | 0.5 |
| Community health worker | 2 | 644 | 0.4 | 0.4 | 1 | 306 | 0.3 | 0.3 |
| Other | 0 | 643 | 0.0 | - | 3 | 305 | 1.3 | 0.7 |
| | | | | | | | | |

Twenty five percent of women in the second follow-up delivered with one attendant, 38.5% with two attendants, and 32.1% with three attendants (Table D6.13). For women's most recent live birth in the past two years, 92.4% of deliveries had a skilled attendant present and 91.2% delivered with a skilled attendant in a health facility (Table D6.14).



| | Bas | eline 20 |)13 | Second Follow-Up 2017 | | | | |
|--------------------|-----|----------|-----|-----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| None | 6 | 1.1 | 0.5 | 5 | 2.0 | 1.1 | | |
| One | 222 | 36.3 | 3.4 | 72 | 24.8 | 4.8 | | |
| Two | 248 | 36.1 | 3.6 | 134 | 38.5 | 4.9 | | |
| Three | 125 | 19.4 | 1.7 | 91 | 32.1 | 3.1 | | |
| Four or more | 46 | 7.1 | 1.9 | 8 | 2.6 | 1.2 | | |
| Don't know | 0 | - | - | 0 | - | - | | |
| Decline to respond | 0 | - | - | 0 | - | - | | |

Table D6.13: Number of attendants: assistance at delivery for most recent birth in the last two years, women 15-49 years of age

Table D6.14: In-facility delivery with skilled birth attendant: assistance at delivery for most recent birthin the last two years, women 15-49 years of age

| | | Baselir | e 2013 | | Second Follow-Up 2017 | | | | | |
|--|-----|---------|--------|-----|-----------------------|-----|------|-----|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| Delivery with a skilled birth attendant | 559 | 647 | 85.1 | 2.6 | 288 | 310 | 92.4 | 2.9 | | |
| Delivery with a skilled birth attendant in any health facility | 555 | 647 | 84.7 | 2.6 | 281 | 310 | 91.2 | 2.9 | | |
| Delivery with a skilled birth attendant in a CMI or hospital | 461 | 647 | 69.4 | 3.1 | 239 | 310 | 77.9 | 3.7 | | |

D6.2.3 Complications

Pregnancy complications are an important source of maternal and child morbidity and mortality. The type of delivery (vaginal or Caesarian section) among women with births in the last two years is detailed in Table D6.15 along with the percentage of planned in-facility deliveries. Table D6.16 displays the percentage of women with specific complications.

As previously described, the vast majority of births occurred in institutional settings. In 49% of these cases during the second follow-up, women indicated that they attended the facility for emergency care. Few women reported seizures prior to delivery (5%). Approximately 14.8% of infants were transferred to an intensive care unit after delivery, and 21.4% of women reported excessive bleeding after delivery (more than 1 cup over a two-day period of time).



| | Bas | eline 20 | 013 | Secor | nd Follow | <i>י</i> -Up 2017 |
|-----------------------------|-----------|----------|---------|----------|-----------|-------------------|
| | n | % | SE | n | % | SE |
| Mode of delivery | | | | | | |
| Vaginal | 553 | 85.7 | 1.7 | 247 | 80.0 | 3.5 |
| Emergency c-section | 61 | 9.5 | 1.5 | 39 | 12.8 | 2.6 |
| Planned c-section | 33 | 4.8 | 1.0 | 23 | 7.2 | 1.9 |
| Don't know | 0 | - | - | 1 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |
| Reason for seeking delivery | , care, a | among i | n-facil | ity birt | hs | |
| According to birth plan | 299 | 55.5 | 3.4 | 138 | 50.6 | 4.4 |
| Because of emergency | 259 | 44.5 | 3.4 | 143 | 49.0 | 4.3 |
| Other reason | 0 | 0.0 | - | 1 | 0.4 | 0.4 |
| Don't know | 2 | - | - | 1 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |

Table D6.15: Mode of delivery for most recent birth in the last two years, women 15-49 years of age

 Table D6.16: Delivery complications for most recent birth in the last two years, women 15-49 years of age

| | | Baselin | e 2013 | Seco | Second Follow-Up 2017 | | | |
|---|-----|---------|--------|------|-----------------------|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Respondent experienced excessive bleeding in the first day after delivery | 153 | 643 | 22.7 | 2.6 | 70 | 308 | 21.4 | 2.7 |
| Child entered neonatal intensive care unit after delivery | 52 | 646 | 7.6 | 1.2 | 46 | 308 | 14.8 | 3.1 |
| Respondent experienced seizures prior to delivery | 54 | 644 | 9.7 | 1.6 | 18 | 306 | 5.0 | 1.9 |

D6.2.4 Birth size and weight

Birth weight is a major determinant of infant and child health and mortality. Birth weight of less than 2.5 kilograms is considered low. For all births during the five-year period preceding the survey, mothers were asked about their perception of the child's size at birth: very large, larger than average, smaller than average, or very small. They were then asked to report the actual weight in kilograms if the child had been weighed after delivery. To reduce recall bias, only data from the most recent birth within the last two years are summarized below (Table D6.17).

In the second follow-up, many women perceived their infant to be average in size (71.3%). With most births occurring in institutional settings, it is not surprising that 94% of newborns were weighed at birth. Among those who were weighed, 8.7% weighed less than 2.5 kilograms according to the mother's recall (low birth weight).



| | Bas | eline 20 | 013 | Second Follow-Up 20 | | | | |
|----------------------|-----|----------|-----|---------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| Very large | 21 | 4.2 | 1.8 | 5 | 0.5 | 0.4 | | |
| Larger than average | 80 | 11.3 | 1.7 | 60 | 20.1 | 2.4 | | |
| Average | 461 | 73.4 | 2.7 | 207 | 71.3 | 2.9 | | |
| Smaller than average | 43 | 6.0 | 1.0 | 24 | 6.6 | 2.2 | | |
| Very small | 33 | 5.1 | 1.2 | 6 | 1.5 | 0.7 | | |
| Don't know | 9 | - | - | 8 | - | - | | |
| Decline to respond | 0 | - | - | 0 | - | - | | |

Table D6.17: Birth size and weight for most recent live birth in the past two years, women 15-49 years of age

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | |
|--|-----|---------|--------|-----|-----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Child was weighed at birth | 540 | 614 | 87.5 | 2.0 | 288 | 303 | 94.0 | 2.5 | |
| Low birth weight (<2.5kg), among those weighed | 64 | 443 | 14.7 | 2.4 | 18 | 222 | 8.7 | 2.1 | |

D6.3 Early initiation of breastfeeding

Coverage of early initiation of breastfeeding is defined as the percentage of women who had a live birth in the past two years and put the child to the breast with one hour of birth. Table D6.18 shows that 71.4% of women initiated breastfeeding within one hour of birth.

 Table D6.18: Early initiation of breastfeeding for most recent live birth in the past two years, women

 15-49 years of age

| | | Baseline 2013 | | | | Second Follow-Up 2017 | | | | | |
|-----------------------------------|-----|---------------|------|-----|-----|-----------------------|------|-----|--|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | | |
| Early initiation of breastfeeding | 502 | 643 | 78.5 | 2.7 | 213 | 308 | 71.4 | 3.4 | | | |

D6.4 Postnatal Care

Postnatal care is important both for the mother and the child to treat complications arising from the delivery, as well as to provide the mother with important information on how to care for herself and her child. The postnatal period is defined as the time between the delivery of the placenta and 42 days (six weeks) following the delivery. The timing of postnatal care is important: the first two days after delivery are critical, because most maternal and neonatal deaths occur during this period.

Characteristics of postnatal care, including timing, location, and personnel providing care were captured for all births in the five years preceding the survey. To reduce recall bias, only data from the most recent delivery in the last two years are summarized in the tables below.



D6.4.1 Postnatal checkup for the mother

Data on postnatal care for the mother are summarized in Table D6.19. Table D6.19 shows the percentage of women with a birth in the last two years who were checked at any time after delivery and within one week after delivery; and percentage by timing of the check for women with an in-facility delivery.

Only 89.7% of women recalled being checked after delivery during the second follow-up, and 73% reported being checked one week after delivery by a health care provider. Only 44.2% of women with an institutional birth recalled being checked every 15 minutes for the first hour post-partum.

Table D6.20 shows the percent distribution of women who were checked at any time after delivery by type of personnel. Among women with postnatal care visits in the second follow-up, most received care from a doctor (85.1%) or professional nurse (10.9%).

Table D6.19: Postnatal checkup for the mother for most recent live birth in the past two years, women15-49 years of age

| | | Baselir | ne 2013 | | Second Follow-Up 2017 | | | |
|---|-----|---------|---------|-----|-----------------------|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Any checkup after delivery | 456 | 643 | 71.3 | 2.8 | 279 | 310 | 89.7 | 2.3 |
| Checked every 15 minutes during the first hour after delivery, among in-facility births | 183 | 418 | 45.3 | 2.8 | 109 | 249 | 44.2 | 5.0 |
| Checked within a week after delivery by a skilled provider | 347 | 643 | 51.7 | 3.0 | 230 | 310 | 73.0 | 5.3 |

Table D6.20: Provider of care at first postnatal checkup for the mother, most recent live birth in the past two years, among women who attended at least one postnatal care visit

| | Bas | eline 20 |)13 | Second Follow-Up 2017 | | | | |
|-------------------------|-----|----------|-----|-----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| Doctor | 347 | 71.3 | 3.5 | 246 | 85.1 | 3.0 | | |
| Professional nurse | 57 | 14.5 | 2.8 | 24 | 10.9 | 2.5 | | |
| Auxiliary nurse | 47 | 13.0 | 2.6 | 8 | 4.0 | 2.7 | | |
| Laboratory technician | 0 | 0.0 | - | 0 | 0.0 | - | | |
| Midwife/comadrona | 3 | 0.6 | 0.3 | 0 | 0.0 | - | | |
| Community health worker | 2 | 0.6 | 0.5 | 0 | 0.0 | - | | |
| Pharmacy assistant | 0 | 0.0 | - | 0 | 0.0 | - | | |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | - | | |
| Relative | 0 | 0.0 | - | 0 | 0.0 | - | | |
| Other | 0 | 0.0 | - | 1 | 0.0 | - | | |
| Don't know | 0 | - | - | 0 | - | - | | |
| Decline to respond | 0 | - | - | 0 | - | - | | |

D6.4.2 Postnatal checkup for the infant

The results regarding postnatal care for the neonate are shown in Table D6.21: percentage of women with a birth in the last two years whose infants were checked after delivery; percent distributions of infants



who were checked by skilled personnel within 24 hours of delivery; and percent distributions of infants who were checked by skilled personnel within one week of delivery.

Approximately 84% of women in the second follow-up reported that their infant was checked at any time after delivery. Among all deliveries, 37.9% of women reported that a qualified medical professional checked on their infant within 24 hours of delivery. Table D6.22 shows the attendants for neonatal postnatal care. Most women indicated that a doctor performed a checkup (92.5%). Professional nurse and auxiliary nurse were also reported, though much less frequently.

Table D6.21: Postnatal checkup for neonate for woman's most recent live birth in the past two years,women 15-49 years of age

| | | Baselir | e 2013 | | Second Follow-Up 2017 | | | |
|--|-----|---------|--------|-----|-----------------------|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Any checkup after delivery | 479 | 640 | 75.2 | 2.8 | 264 | 308 | 84.0 | 4.2 |
| Checked within 24 hours after delivery by a skilled provider | 202 | 588 | 32.7 | 2.6 | 111 | 262 | 37.9 | 6.5 |
| Checked within a week after delivery by a skilled provider | 314 | 588 | 50.4 | 3.2 | 177 | 262 | 64.6 | 7.6 |

Table D6.22: Provider of care at first postnatal checkup for the infant, woman's most recent live birth in the past two years, among women whose child attended at least one postnatal care visit

| | Bas | eline 20 |)13 | Second Follow-Up 2017 | | | | |
|-------------------------|-----|----------|-----|-----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| Doctor | 382 | 77.0 | 3.3 | 247 | 92.5 | 2.6 | | |
| Professional nurse | 39 | 7.8 | 1.3 | 8 | 4.0 | 1.4 | | |
| Auxiliary nurse | 50 | 14.1 | 3.4 | 8 | 3.5 | 2.5 | | |
| Laboratory technician | 1 | 0.2 | 0.2 | 0 | 0.0 | - | | |
| Midwife/comadrona | 0 | 0.0 | - | 0 | 0.0 | - | | |
| Community health worker | 3 | 0.7 | 0.5 | 0 | 0.0 | - | | |
| Pharmacy assistant | 0 | 0.0 | - | 0 | 0.0 | - | | |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | - | | |
| Relative | 0 | 0.0 | - | 0 | 0.0 | - | | |
| Other | 1 | 0.2 | 0.2 | 0 | 0.0 | - | | |
| Don't know | 3 | - | - | 1 | - | - | | |
| Decline to respond | 0 | - | - | 0 | - | - | | |

D6.5 Vouchers, Incentives, and Maternal Waiting Homes

To increase use of their services, some facilities and waiting homes offer vouchers and incentives to women to attend care. Table D6.23 displays the percentage of women in the second follow-up who gave birth the past two years and received a voucher at a health facility. Two percent of women received a voucher or financial assistance to attend antenatal care, 2% received a voucher or financial assistance for delivery at a health facility, and 0.4% received a voucher or financial assistance for postpartum or postnatal care at a health facility.



Table D6.23: Voucher incentives for care-seeking for most recent live birth in the past two years, women15-49 years of age

| | | Baselin | e 2013 | 3 | Second Follow-Up 2017 | | | |
|--|----|---------|--------|-----|-----------------------|-----|-----|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Received a voucher or other form of financial assistance to attend antenatal care at a health facility | 3 | 617 | 0.5 | 0.3 | 5 | 297 | 1.5 | 0.9 |
| Received a voucher or other form of financial assistance to deliver at a health facility | 11 | 557 | 3.7 | 2.0 | 14 | 278 | 2.0 | 0.9 |

| | Bas | eline 20 | 013 | Second Follow-Up 201 | | | | |
|--------------------------------|-----|----------|-----|----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| No voucher | 556 | 99.5 | 0.3 | 280 | 99.6 | 0.4 | | |
| Yes, for woman's care | 1 | 0.1 | 0.1 | 1 | 0.4 | 0.4 | | |
| Yes, for infant's care | 1 | 0.2 | 0.2 | 0 | 0.0 | | | |
| Yes, for both woman and infant | 1 | 0.1 | 0.1 | 0 | 0.0 | | | |
| Don't know | 1 | - | - | 1 | - | | | |
| Decline to respond | 0 | - | - | 1 | - | | | |

Some facilities that attend deliveries have a **casa materna** or maternal waiting home nearby to provide women who live far away a place to stay while they await delivery or while they recover and prepare to travel home with their infant. Table D6.24 displays how women have commonly used maternal waiting homes during their most recent pregnancy in the past two years. 28.3% of women in the second follow-up report using a maternal waiting home before giving birth and 54.2% of these women report receiving counseling while staying at a maternal waiting home. On average, women stayed at a maternal waiting home for two days and spent 0 Lempira.

Table D6.24: Use of maternal waiting homes for most recent live birth in the past two years, women15-49 years of age

| | Seco | ond Fol | low-Up | 2017 |
|---|------|---------|--------|------|
| | n | Ν | % | SE |
| Heard of maternal waiting home | 152 | 308 | 45.9 | 6.7 |
| Among women who have heard of maternal waiting homes Used a maternal waiting home before giving birth | 38 | 152 | 28.3 | 4.2 |
| Among women who used maternal waiting homes Received counseling on health and parenting topics while at waiting home | 18 | 35 | 54.2 | 14.9 |



| | Ν | DK/DTR | Min | 25th Percentile | Median | 75th Percentile | Max |
|--|----|--------|-----|--------------------|--------|--------------------|------|
| Second Follow-Up 2017 | | | | | | | |
| Days spent in maternal home | 36 | 0 | 0 | 1 | 2 | 4.8 | 30 |
| Out-of-pocket cost to use maternal home, Lempira | 37 | 1 | 0 | 0 | 0 | 10 | 1500 |



D7. Chapter 7: CHILD HEALTH

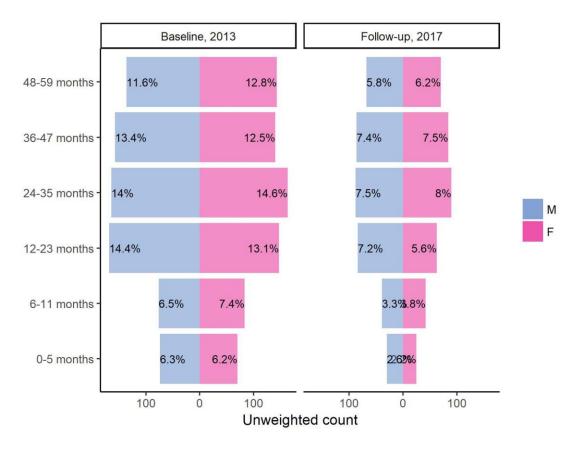
This chapter summarizes the health status of children aged 0-59 months whose caregivers participated in the SMI-Honduras Second Follow-up Household Survey. All data summarized in this chapter are based on the caregiver's report.

D7.1 Health status

The age and sex distribution of the de facto population of children aged 0-59 months participating in the caregiver interview module or the anthropometric measures in Honduras is shown in Figure D7.1 by six-or 12-month age groups.

Twenty percent of children surveyed at baseline and 18% of children surveyed at the second follow-up were under 1 year old at the time of the interview. The age distributions of female and male children are similar.

Figure D7.1: Age and sex of children aged 0-59 months in child health survey or anthropometric measures of the de facto population by six- to twelve-month age groups, unweighted





D7.1.1 Current health status

Table D7.1 shows the current health status of all children aged 0-59 months, as reported by their caregivers. The table includes the caregiver's evaluation of current health relative to health the previous year and the percentage of children who can easily perform daily activities. In the second follow-up, approximately 66.9% of children's health was considered by their caregiver to be "good," "very good," or "excellent," compared to 63.7% at baseline.

Relative to the past year, caregivers in the second follow-up evaluation reported that 34.9% of children's health was "about the same" in the second follow-up. While 59.1% of children's health had improved, 5.9% of children experienced reportedly worse health on the day of the interview, compared to last year. Ninety seven percent of children could "easily" perform their daily activities (e.g., playing and going to school) according to their caregivers. Three percent of children had some degree of difficulty performing these activities, 0% of children had a significant degree of difficulty performing these activities, and 0.4% of children were unable to complete daily activities, according to their caregivers.

| | Base | eline 20 | 13 | Secor | nd Follov | v-Up 2017 | | | | |
|--------------------------------------|------------|----------|-----|-------|-----------|-----------|--|--|--|--|
| | n | % | SE | n | % | SE | | | | |
| Current health status | | | | | | | | | | |
| Excellent | 327 | 22.1 | 1.6 | 126 | 18.5 | 2.7 | | | | |
| Very good | 248 | 17.2 | 1.3 | 88 | 10.0 | 1.7 | | | | |
| Good | 348 | 24.4 | 1.5 | 307 | 38.4 | 2.8 | | | | |
| Fair | 463 | 32.0 | 1.5 | 217 | 29.6 | 2.0 | | | | |
| Poor | 61 | 4.4 | 0.8 | 31 | 3.6 | 1.2 | | | | |
| Don't know | 1 | - | - | 1 | - | - | | | | |
| Decline to respond | 3 | - | - | 0 | - | - | | | | |
| Health status relative to a year ago | | | | | | | | | | |
| Better | 577 | 51.4 | 1.8 | 361 | 59.1 | 2.5 | | | | |
| Worse | 49 | 4.3 | 0.7 | 42 | 5.9 | 1.1 | | | | |
| About the same | 507 | 44.3 | 1.8 | 214 | 34.9 | 2.4 | | | | |
| Don't know | 2 | - | - | 1 | - | - | | | | |
| Decline to respond | 3 | - | - | 1 | - | - | | | | |
| Ability to perform daily | activities | 5 | | | | | | | | |
| Easily | 1334 | 93.1 | 0.8 | 740 | 96.8 | 0.7 | | | | |
| With some difficulty | 67 | 4.7 | 0.7 | 26 | 2.8 | 0.7 | | | | |
| With much difficulty | 4 | 0.3 | 0.2 | 1 | 0.0 | - | | | | |
| Unable to do | 29 | 2.0 | 0.5 | 3 | 0.4 | 0.3 | | | | |
| Don't know | 15 | - | - | 0 | - | - | | | | |
| Decline to respond | 2 | - | - | 0 | - | - | | | | |

Table D7.1: Current health status, among children aged 0-59 months

D7.1.2 Recent illness

Caregivers were asked a series of questions about any illnesses or health problems that their children had in the two weeks preceding the interview. In the second follow-up survey, approximately 37% of children

were reported as sick during that time (Table D7.2). Of the 289 children who were recently ill, cough (30.7%), fever (28.3%), and diarrhea without blood (7.1%) were the most commonly specified complaints.

| | В | Second Follow-Up 20 | | | | | | |
|-------------------------------------|------------------------------------|---------------------|------|-----|------|-----|------|---|
| | n | Ν | % | SE | n | Ν | % | |
| hild was sick in the last two weeks | 576 | 1449 | 40.6 | 1.7 | 289 | 770 | 36.9 | 3 |
| | | | | | | | | |
| | | | | | | | | _ |
| | Baseline 2013 Second Follow-Up 201 | | | | | | | _ |
| | n | % | SE | n | % | | SE | _ |
| Recent illness among children i | ll in the la | ast 2 we | eeks | | | | | - |
| Cough | 190 | 33.3 | 2.5 | 84 | 30.7 | | 3.4 | |
| Fever | 184 | 31.9 | 2.4 | 94 | 28.3 | | 3.9 | |
| Diarrhea without blood | 51 | 9.0 | 1.3 | 23 | 7.1 | | 2.0 | |
| Abdominal pain | 7 | 1.4 | 0.5 | 3 | 2.0 | | 1.8 | |
| Skin rash/infection | 16 | 2.8 | 0.7 | 6 | 1.6 | | 0.7 | |
| Vomiting | 7 | 1.3 | 0.5 | 4 | 1.5 | | 1.0 | |
| Asthma | 13 | 2.5 | 0.7 | 2 | 1.0 | | 0.7 | |
| Diarrhea with blood | 6 | 1.1 | 0.4 | 2 | 0.8 | | 0.8 | |
| Eye/ear infection | 6 | 1.0 | 0.5 | 3 | 0.5 | | 0.4 | |
| Measles | 1 | 0.2 | 0.2 | 1 | 0.4 | | 0.4 | |
| Difficulty urinating | 0 | 0.0 | - | 1 | 0.4 | | 0.4 | |
| Malaria | 0 | 0.0 | - | 0 | 0.0 | | - | |
| Tuberculosis | 0 | 0.0 | | 0 | 0.0 | | - | |
| Bronchitis | 6 | 0.9 | 0.5 | 0 | 0.0 | | - | |
| Pneumonia | 1 | 0.1 | 0.1 | 0 | 0.0 | | - | |
| Anemia | 2 | 0.4 | 0.3 | 0 | 0.0 | | - | |
| Jaundice | 0 | 0.0 | - | 0 | 0.0 | | - | |
| Headache | 1 | 0.3 | 0.3 | 0 | 0.0 | | - | |
| Stroke | 0 | 0.0 | - | 0 | 0.0 | | - | |
| Diabetes | 0 | 0.0 | - | 0 | 0.0 | | - | |
| HIV/AIDS | 0 | 0.0 | - | 0 | 0.0 | | - | |
| Paralysis | 2 | 0.3 | 0.2 | 0 | 0.0 | | - | |
| Chest infection | 0 | 0.0 | - | 0 | 0.0 | | - | |
| Blood in urine | 0 | 0.0 | - | 0 | 0.0 | | - | |
| Swelling in legs, ankles, or fe | et 0 | 0.0 | - | 0 | 0.0 | | - | |
| Other | 82 | 13.6 | 2.0 | 66 | 25.9 | | 2.5 | |
| Don't know | 1 | | | 0 | - | | - | |
| Decline to respond | 0 | | | 0 | - | | - | |

Table D7.2: Recent illness, among children aged 0-59 months

D7.1.3 Utilization of health services for recent illness

Table D7.3 summarizes data regarding the utilization of health services among the 289 children who were sick in the two weeks preceding the interview. The table shows the percentage of children 0-59 months who were sick in the last two weeks for whom care was sought for recent illness and among these,



the percent distribution by type of medical facility where care was sought and whether the child was hospitalized.

In the second follow-up survey, care was sought for 48.9% of these cases. Care was typically sought at CESAMO (48%) or Private doctor's office (12%) facilities; some attended cESARs (11%). Only one child was hospitalized for their recent illness.

| Table D7.3: Utilization of health services for recent illness in the last two weeks, among children 0-59 |) |
|--|---|
| months | |

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | |
|---|-----|---------|--------|-----|-----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Sought care for recent illness | 325 | 576 | 56.5 | 2.7 | 155 | 289 | 48.9 | 3.7 | |
| Child was hospitalized for recent illness | 7 | 109 | 5.6 | 2.1 | 1 | 52 | 2.3 | 2.1 | |

| | Bas | eline 20 |)13 | Seco | ond Follo | w-Up 2017 |
|----------------------------------|--------|----------|-----|------|-----------|-----------|
| | n | % | SE | n | % | SE |
| Type of medical facility where o | are wa | s sough | t | | | |
| CESAMO | 127 | 37.0 | 5.4 | 76 | 48.0 | 8.0 |
| Private doctor's office | 16 | 5.5 | 1.4 | 27 | 12.0 | 4.0 |
| CESAR | 88 | 29.5 | 6.2 | 12 | 11.0 | 5.2 |
| Private health clinic | 37 | 10.7 | 2.3 | 12 | 9.4 | 2.6 |
| Pharmacy | 16 | 4.7 | 1.3 | 12 | 9.1 | 2.8 |
| Traditional healer | 6 | 2.0 | 0.7 | 2 | 1.7 | 1.2 |
| CMI | 7 | 2.1 | 0.7 | 2 | 1.6 | 1.0 |
| Public mobile clinic | 1 | 0.4 | 0.4 | 2 | 0.9 | 0.9 |
| Private mobile clinic | 0 | 0.0 | - | 2 | 0.9 | 0.8 |
| Public hospital | 9 | 2.7 | 0.8 | 1 | 0.7 | 0.7 |
| Private hospital | 2 | 0.5 | 0.3 | 1 | 0.7 | 0.7 |
| Community health worker | 4 | 1.3 | 0.6 | 1 | 0.5 | 0.5 |
| Other public health facility | 2 | 0.6 | 0.6 | 0 | 0.0 | - |
| Other private health facility | 0 | 0.0 | - | 0 | 0.0 | - |
| Other | 10 | 3.0 | 1.1 | 5 | 3.3 | 1.6 |
| Don't know | 0 | - | - | 0 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |

D7.2 Acute respiratory infection

Acute respiratory infection is a leading cause of morbidity and mortality among children. Early diagnosis and treatment with antibiotics can prevent deaths resulting from pneumonia, a common acute respiratory disease. The prevalence of acute respiratory infection was estimated by asking caregivers whether their children aged 0-59 months had been ill with a cough accompanied by short, rapid breathing in the two weeks preceding the interview. If the child had symptoms of an acute respiratory infection, the caregiver was asked about what was done to treat the symptoms and feeding practices during the illness.



D7.2.1 Prevalence of acute respiratory infection and fever

The prevalence of cough, suspected acute respiratory infection, and fever among children aged 0-59 months, as reported by their caregivers, is displayed in Table D7.4. In the second follow-up, 29% of children experienced cough, 13.5% had symptoms of an acute respiratory infection, and 21.4% had a fever in the two weeks preceding the interview.

Table D7.4: Prevalence of suspected acute respiratory infection and fever in the last two weeks, among children 0-59 months

| | Base | eline 20 | 13 | Second Follow-Up 2017 | | | |
|---|------|----------|-----|-----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| Child had cough in the last two weeks, by type | | | | | | | |
| No cough | 1023 | 70.3 | 2.2 | 542 | 71.4 | 3.1 | |
| Cough without difficulty breathing | 222 | 15.7 | 1.3 | 108 | 15.1 | 1.5 | |
| With difficulty breathing due to congested/runny nose | 54 | 3.8 | 0.6 | 45 | 5.5 | 1.4 | |
| With difficulty breathing due to chest problem | 104 | 7.7 | 0.9 | 41 | 5.0 | 1.1 | |
| With difficulty breathing due to chest problem and | 34 | 2.4 | 0.5 | 28 | 2.6 | 0.9 | |
| congested/runny nose | | | | | | | |
| With difficulty breathing due to other reason | 0 | 0.0 | - | 2 | 0.4 | 0.3 | |
| Don't know | 12 | - | - | 4 | - | - | |
| Decline to respond | 2 | - | - | 0 | - | - | |

| | Baseline 2013 | | | | Second Follow-Up 2017 | | | |
|---|---------------|------|------|-----|-----------------------|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Symptoms of acute respiratory infection in the last two weeks | 197 | 1442 | 14.3 | 1.3 | 116 | 766 | 13.5 | 2.1 |
| Fever in last two weeks | 375 | 1449 | 26.7 | 1.8 | 177 | 767 | 21.4 | 2.3 |

D7.2.2 Utilization of health services for suspected acute respiratory infection

Forty four percent of children with symptoms of acute respiratory infection were taken for evaluation and/or treatment of their condition at the second follow-up (Table D7.5).

Table D7.5: Utilization of health services for suspected acute respiratory infection in the last two weeks, among children 0-59 months

| | Baseline 2013 | | | Second Follow-Up 2017 | | | | |
|---|---------------|-----|------|-----------------------|-----|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Sought care for suspected acute respiratory infection | 303 | 528 | 57.2 | 2.7 | 137 | 280 | 44.4 | 3.9 |



| | Bas | eline 20 | 013 | Seco | ond Follow | -Up 2017 |
|---------------------------------|--------|----------|-----|------|------------|----------|
| | n | % | SE | n | % | SI |
| ype of medical facility where o | are wa | s sough | t | | | |
| CESAMO | 122 | 38.0 | 5.7 | 71 | 50.1 | 7.2 |
| CESAR | 84 | 30.4 | 6.8 | 11 | 11.5 | 5.5 |
| Pharmacy | 16 | 5.2 | 1.3 | 12 | 10.9 | 3.9 |
| Private doctor's office | 13 | 4.7 | 1.4 | 21 | 10.5 | 3.7 |
| Private health clinic | 30 | 9.1 | 2.2 | 10 | 8.9 | 2.9 |
| CMI | 8 | 2.9 | 1.0 | 2 | 1.8 | 1.: |
| Private mobile clinic | 0 | 0.0 | - | 2 | 1.0 | 0.9 |
| Traditional healer | 6 | 2.1 | 0.9 | 1 | 1.0 | 1.3 |
| Other public health facility | 2 | 0.7 | 0.7 | 1 | 0.9 | 0.9 |
| Public hospital | 4 | 1.2 | 0.6 | 1 | 0.8 | 0.8 |
| Private hospital | 1 | 0.3 | 0.3 | 1 | 0.8 | 0.8 |
| Public mobile clinic | 1 | 0.4 | 0.4 | 1 | 0.1 | 0.1 |
| Other private health facility | 0 | 0.0 | - | 0 | 0.0 | |
| Community health worker | 3 | 1.0 | 0.6 | 0 | 0.0 | |
| Other | 13 | 4.1 | 1.5 | 3 | 1.7 | 1.2 |
| Don't know | 0 | - | - | 0 | - | |
| Decline to respond | 0 | - | - | 0 | - | |

D7.2.3 Utilization of medications for suspected acute respiratory infection

Eighty four percent of children with symptoms of acute respiratory infection were given some type of medication for their condition during the second follow-up (Table D7.6). Fifty two percent of children were administered antibiotic syrups for a suspected acute respiratory infection. Acetaminophen (66.7%) and ibuprofen (7.1%) were also commonly administered. Twenty five percent of children received a treatment other than those listed.

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | | |
|--------------------------|-----|---------|--------|-----|-----------------------|-----|------|-----|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| Any treatment | 474 | 527 | 89.6 | 1.7 | 246 | 280 | 84.5 | 3.2 | | |
| Antibiotic injection | 47 | 474 | 10.1 | 1.2 | 29 | 245 | 12.3 | 4.3 | | |
| Antibiotic pill | 43 | 474 | 8.7 | 1.6 | 14 | 245 | 7.5 | 2.3 | | |
| Antibiotic syrup | 290 | 474 | 61.3 | 2.8 | 131 | 245 | 52.1 | 3.0 | | |
| Aspirin | 12 | 474 | 2.7 | 0.6 | 9 | 245 | 3.8 | 2.4 | | |
| Acetaminophen | 314 | 474 | 65.2 | 2.8 | 172 | 245 | 66.7 | 3.3 | | |
| Ibuprofen | 54 | 474 | 12.0 | 2.2 | 18 | 245 | 7.1 | 2.0 | | |
| Oral rehydration therapy | 11 | 474 | 2.5 | 0.8 | 6 | 245 | 2.9 | 1.3 | | |
| Other | 92 | 474 | 20.0 | 1.8 | 59 | 246 | 24.9 | 2.9 | | |

Table D7.6: Utilization of medications for suspected acute respiratory infection in the last two weeks, among children 0-59 months



D7.2.4 Feeding practices during suspected acute respiratory infection

Data on feeding practices during the recent episode of suspected acute respiratory infection are summarized in Table D7.7. The table shows the volume of fluids and the volume of solids given during the illness. At the second follow-up, only 34.4% of children were given more fluids than usual. In total, 30% of children were offered less fluid than usual (or none at all). Twenty nine percent of children were offered the same volume of solid food as usual during their illness. Approximately 69% of children were given less than the usual amount of solid food (or none at all).

Table D7.7: Feeding practices during suspected acute respiratory infection in the last two weeks, among children 0-59 months

| | Bas | eline 20 |)13 | Secor | nd Follow | -Up 2017 | | | | | | |
|--------------------------|--|-----------|------|-------|-----------|----------|--|--|--|--|--|--|
| | n | % | SE | n | % | SE | | | | | | |
| Volume of fluids (inclue | Volume of fluids (including breastmilk) given during illness | | | | | | | | | | | |
| No fluids | 14 | 2.4 | 1.0 | 3 | 1.0 | 0.7 | | | | | | |
| Much less | 77 | 15.5 | 2.0 | 23 | 5.9 | 1.0 | | | | | | |
| Somewhat less | 182 | 34.8 | 2.9 | 71 | 23.0 | 3.5 | | | | | | |
| About the same | 216 | 40.8 | 2.9 | 100 | 35.6 | 3.9 | | | | | | |
| More | 36 | 6.5 | 1.3 | 83 | 34.4 | 4.1 | | | | | | |
| Don't know | 3 | - | - | 0 | - | - | | | | | | |
| Decline to respond | 0 | - | - | 0 | - | - | | | | | | |
| Volume of solid foods a | given d | uring ill | ness | | | | | | | | | |
| No solids | 10 | 2.0 | 0.5 | 22 | 7.5 | 2.2 | | | | | | |
| Much less | 98 | 20.1 | 2.1 | 41 | 14.3 | 3.2 | | | | | | |
| Somewhat less | 240 | 46.3 | 3.2 | 132 | 47.0 | 3.5 | | | | | | |
| About the same | 162 | 30.8 | 2.8 | 76 | 28.8 | 3.8 | | | | | | |
| More | 5 | 0.8 | 0.3 | 7 | 2.3 | 1.1 | | | | | | |
| Don't know | 12 | - | - | 1 | - | - | | | | | | |
| Decline to respond | 1 | - | - | 1 | - | - | | | | | | |

D7.3 Diarrhea

Dehydration caused by severe diarrhea in a major cause of morbidity and mortality among children. Exposure to diarrheal disease-causing agents is frequently a result of use of contaminated water and unhygienic practices related to food preparation and disposal of feces. The prevalence of diarrhea was estimated by asking caregivers whether their children aged 0-59 months had had diarrhea in the two weeks preceding the interview. If the child had had diarrhea, the caregiver was asked about treatment and feeding practices during the diarrheal episode.

D7.3.1 Prevalence

Table D7.8 shows the proportion of children aged 0-59 months with diarrhea in the two weeks preceding the interview, as reported by their caregivers (34% at the second follow-up). One percent of children had bloody diarrhea.



| | Bas | eline 20 |)13 | Second Follow-Up 2017 | | | |
|------------------------|-----|----------|-----|-----------------------|----|-----|--|
| | n | % | SE | n | % | SE | |
| No diarrhea | 116 | 60.7 | 4.2 | 63 | 66 | 7.2 | |
| Diarrhea without blood | 70 | 37.3 | 4.0 | 41 | 33 | 6.5 | |
| Diarrhea with blood | 3 | 2.0 | 1.0 | 1 | 1 | 1.0 | |
| Don't know | 14 | - | - | 5 | - | - | |
| Decline to respond | 0 | - | - | 0 | - | - | |

Table D7.8: Prevalence of diarrhea in the last two weeks, among children aged 0-59 months

D7.3.2 Utilization of health services for diarrhea

Nearly half of children with diarrhea were taken for evaluation and/or treatment of their condition (Table D7.9). Care for these children was often sought in the public sector, although private health centers were visited by 3% of these cases at the second follow-up.

Table D7.9: Utilization of health services for diarrhea in the last two weeks, among children aged 0-59 months

| | Baseline 2013 | | | | Second Follow-Up 2017 | | | |
|--------------------------|---------------|----|----|-----|-----------------------|----|------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Sought care for diarrhea | 39 | 73 | 54 | 6.8 | 25 | 42 | 54.1 | 11.5 |

| | Ba | seline 2 | 013 | Seco | ond Follo | w-Up 2017 |
|-----------------------------------|-------|----------|-----|------|-----------|-----------|
| | n | % | SE | n | % | SE |
| Type of medical facility where of | are w | as soug | ht | | | |
| CESAMO | 14 | 36.4 | 7.1 | 13 | 68.3 | 13.6 |
| Private health clinic | 5 | 13.5 | 5.7 | 2 | 6.0 | 3.6 |
| Pharmacy | 2 | 4.5 | 3.1 | 1 | 6.0 | 6.0 |
| CESAR | 8 | 18.2 | 6.5 | 1 | 6.0 | 6.0 |
| Traditional healer | 1 | 2.9 | 2.8 | 1 | 5.5 | 5.9 |
| Private hospital | 1 | 2.1 | 2.2 | 1 | 4.9 | 5.3 |
| Private doctor's office | 4 | 10.9 | 4.5 | 6 | 3.2 | 2.8 |
| Public hospital | 0 | 0.0 | - | 0 | 0.0 | - |
| Public mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Other public health facility | 1 | 2.6 | 2.5 | 0 | 0.0 | - |
| Private mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Other private health facility | 0 | 0.0 | - | 0 | 0.0 | - |
| Community health worker | 1 | 2.9 | 2.5 | 0 | 0.0 | - |
| СМІ | 1 | 3.7 | 3.7 | 0 | 0.0 | - |
| Other | 1 | 2.5 | 2.6 | 0 | 0.0 | - |
| Don't know | 0 | - | - | 0 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |



D7.3.3 Utilization of treatments for diarrhea

A simple and effective response to dehydration caused by diarrhea is a prompt increase in the child's fluid intake through some form of oral rehydration therapy. Oral rehydration therapy may include the use of a solution prepared from commercially produced packets of powdered oral rehydration salts, commercially-produced bottled oral serums, or homemade fluids usually prepared from sugar, salt, and water. Other treatments, including zinc, may be administered as well.

Although care was sought in only 54.1% of diarrhea cases, 88% of cases were given some form of treatment at the second follow-up. Fluid made with powdered oral rehydration salts was the most common form oral rehydration therapy (43.7%). Thirteen percent of cases were treated with zinc syrup or pills. Nine percent of cases were treated with an antibiotic pill.

Table D7.10: Utilization of treatments for diarrhea during the last two weeks, among children aged 0-59months

| | Baseline 2013 | | | | Second Follow-Up 2017 | | | |
|--|---------------|----|------|-----|-----------------------|----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Any treatment | 57 | 72 | 79.6 | 4.7 | 37 | 42 | 88.0 | 4.0 |
| Fluids | | | | | | | | |
| Fluid made with powdered oral rehydration salts | 22 | 71 | 30.5 | 7.1 | 16 | 42 | 43.7 | 9.7 |
| Bottled oral rehydration serum | 23 | 71 | 31.2 | 7.8 | 21 | 42 | 43.6 | 8.9 |
| Homemade fluid recommended by health authorities | 24 | 71 | 33.7 | 5.0 | 7 | 42 | 20.2 | 7.8 |
| Medications | | | | | | | | |
| Antibiotic pill | 11 | 72 | 13.8 | 4.6 | 4 | 42 | 8.9 | 4. |
| Antidiarrheal pill | 11 | 72 | 16.2 | 4.6 | 6 | 42 | 16.4 | 5. |
| Zinc pill | 1 | 72 | 1.6 | 1.5 | 4 | 41 | 12.8 | 7. |
| Other type of pill | 5 | 72 | 7.7 | 2.8 | 3 | 42 | 5.9 | 3. |
| Unknown pill | 1 | 72 | 1.4 | 1.5 | 0 | 42 | 0.0 | |
| Antibiotic injection | 4 | 72 | 6.3 | 3.2 | 3 | 42 | 5.9 | 3. |
| Non-antibiotic injection | 1 | 72 | 1.3 | 1.3 | 0 | 42 | 0.0 | |
| Unknown injection | 0 | 72 | 0.0 | - | 1 | 42 | 2.7 | 2. |
| Intravenous therapy | 0 | 72 | 0.0 | - | 0 | 42 | 0.0 | |
| Home remedy/herbal medicine | 10 | 72 | 14.1 | 4.4 | 6 | 42 | 14.8 | 7. |
| Antibiotic syrup | 22 | 72 | 29.5 | 6.0 | 7 | 42 | 10.8 | 4. |
| Antidiarrheal syrup | 9 | 72 | 11.9 | 4.2 | 6 | 42 | 17.7 | 7. |
| Zinc syrup | 4 | 72 | 5.7 | 2.7 | 0 | 42 | 0.0 | |
| Other syrup | 1 | 72 | 1.9 | 1.8 | 3 | 42 | 6.3 | 4. |
| Unknown syrup | 5 | 72 | 7.1 | 2.8 | 1 | 42 | 3.6 | 3. |
| Other treatment | 8 | 72 | 10.5 | 4.3 | 9 | 42 | 25.3 | 8. |

D7.3.4 Feeding practices during diarrhea

Caregivers are encouraged to continue feeding children normally when they suffer from diarrheal diseases and to increase the fluids they are given. These practices help to prevent dehydration and minimize the adverse consequences of diarrhea on the child's nutritional status.



Data on feeding practices during the recent diarrheal episode are summarized in Table D7.11. The table shows the volume of fluids and the volume of solids given during the illness. Only 36.7% of children were given more fluids than usual in the second follow-up survey. Approximately 44% of children were offered less fluid than usual (or none at all). Seven percent of children were offered the same volume of solid food as usual during their illness. Approximately 83% of children were given less than the usual amount of solid food (or none at all).

Table D7.11: Feeding practices among children aged 0-59 months who had diarrhea in the last two weeks

| | Ва | seline 2 | 013 | Seco | ond Follow- | Up 2017 | | | | |
|--|-------|----------|--------|------|-------------|---------|--|--|--|--|
| | n | % | SE | n | % | SE | | | | |
| Volume of fluids (including breastmilk) given during illness | | | | | | | | | | |
| No fluids | 4 | 5.6 | 3.3 | 2 | 6.4 | 3.7 | | | | |
| Much less | 8 | 11.1 | 4.2 | 4 | 13.5 | 5.9 | | | | |
| Somewhat less | 23 | 32.0 | 5.5 | 12 | 23.6 | 8.7 | | | | |
| About the same | 30 | 40.7 | 4.8 | 10 | 19.8 | 6.3 | | | | |
| More | 8 | 10.6 | 3.0 | 14 | 36.7 | 8.9 | | | | |
| Don't know | 0 | - | - | 0 | - | - | | | | |
| Decline to respond | 0 | - | - | 0 | - | - | | | | |
| Volume of solid foods a | given | during i | llness | | | | | | | |
| No solids | 4 | 5.1 | 2.6 | 6 | 10.5 | 4.5 | | | | |
| Much less | 16 | 22.6 | 5.7 | 10 | 31.9 | 8.4 | | | | |
| Somewhat less | 28 | 39.9 | 5.5 | 18 | 40.9 | 9.1 | | | | |
| About the same | 24 | 31.2 | 6.2 | 5 | 7.0 | 3.1 | | | | |
| More | 1 | 1.2 | 1.2 | 3 | 9.6 | 4.5 | | | | |
| Don't know | 0 | - | - | 0 | - | - | | | | |
| Decline to respond | 0 | - | - | 0 | - | - | | | | |

D7.4 Immunization against common childhood illnesses

Information on immunization coverage was collected for all children aged 0-59 months whose caregivers participated in the survey. Both caregiver's report and review of vaccination card (if available) were used to determine coverage. A vaccination card was available for review for 675 children at the second follow-up (87.7% of the sample, unweighted). In Table D7.12, coverage is estimated by vaccine type to include all children with full compliance for age as specified in the national immunization scheme at the time of the survey, according to either an affirmative response from the caregiver that the immunization was received, or a mark that the immunization was received on the vaccination card (for children with a vaccination card available for review at the time of the interview). Children too young to have received a specific vaccine are counted as covered in order to maintain a comparable all-ages sample across vaccine types.



| | | Baseline | 2013 | Seco | Second Follow-Up 2017 | | | |
|--|------|----------|------|------|-----------------------|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| BCG vaccine (tuberculosis) | 1309 | 1342 | 97.6 | 0.5 | 720 | 725 | 99.4 | 0.3 |
| Hepatitis B vaccine | 1057 | 1339 | 79.1 | 2.4 | 648 | 716 | 91.0 | 1.6 |
| Polio vaccine | 892 | 1346 | 66.5 | 2.1 | 545 | 726 | 76.9 | 2.7 |
| Pentavalent vaccine (DPT, HepB, HiB) | 1176 | 1345 | 87.2 | 1.1 | 666 | 726 | 93.8 | 1.1 |
| Rotavirus vaccine | 938 | 1338 | 69.8 | 1.7 | 641 | 719 | 90.4 | 2.2 |
| Pneumococcal conjugate vaccine | 1324 | 1421 | 92.8 | 1.0 | 644 | 716 | 90.6 | 2.0 |
| Measles, mumps, and rubella (MMR) vaccine | 1259 | 1353 | 93.2 | 1.0 | 724 | 735 | 98.8 | 0.4 |
| Diphtheria, tetanus, and pertussis (DPT) vaccine | 1053 | 1362 | 76.7 | 1.8 | 648 | 732 | 89.6 | 1.1 |

Table D7.12: Immunization against common childhood illnesses, children aged 0-59 months, accordingto caretaker recall and vaccination card

*Pneumonia vaccine was added to national vaccine scheme two years before baseline measurement, so children 24 months of age and older at baseline are compliant without receiving pneumonia vaccine.

In Table D7.13, coverage estimates based on recall are summarized for the full sample, and coverage estimates based on vaccination card data are summarized among the subset with a vaccination card available for review. When considering only caregivers' recall, only 8.9% of children aged 0-59 months were fully immunized for age at the second follow-up survey, reflecting many "Don't know" or "Decline" responses that call into question the reliability and validity of the caregiver recall data. Caregivers were able to definitively answer the entire vaccine recall section for only 261 children at the second follow-up. Immunization coverage for children 0-59 months based only upon the vaccine card is 62.1%, and when combined with recall-based information, the estimate of full vaccination for age among children 0-59 months is 55.3%.

Table D7.13: Full immunization compliance for age, children aged 0-59 months

| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | |
|---------------------------------|-----|---------|--------|-----|-----------------------|-----|------|----|----|
| | n | Ν | % | SE | n | Ν | % | S | SE |
| According to recall + card | 513 | 1317 | 38.5 | 2.1 | 421 | 703 | 62.1 | 4. | .1 |
| According to vaccine card | 345 | 1435 | 23.4 | 1.5 | 396 | 770 | 55.3 | 4. | .3 |
| According to caregiver's recall | 31 | 667 | 4.7 | 1.4 | 19 | 261 | 8.9 | 4. | .4 |

*Pneumonia vaccine was added to national vaccine scheme two years before baseline measurement, so children 24 months of age and older at baseline are compliant without receiving pneumonia vaccine.

D7.5 Deworming treatment

Administration of deworming treatment every six months has been shown to reduce the prevalence of anemia in children. Only 34.5% of children aged 12-59 months received at least two doses of deworming treatment in the year preceding the second follow-up interview (Table D7.14).



| | Bas | eline 20 |)13 | Second Follow-Up 2017 | | | | | |
|--------------------|-----|----------|-----|-----------------------|------|-----|--|--|--|
| | n | % | SE | n | % | SE | | | |
| No deworming | 318 | 27.6 | 1.8 | 143 | 22.9 | 2.3 | | | |
| One dose | 371 | 32.4 | 1.6 | 268 | 42.6 | 2.3 | | | |
| Two or more doses | 440 | 40.0 | 1.7 | 203 | 34.5 | 2.8 | | | |
| Don't know | 6 | - | - | 4 | - | - | | | |
| Decline to respond | 2 | - | - | 0 | - | - | | | |

Table D7.14: Deworming treatment among children aged 12-59 months



D8. Chapter 8: INFANT AND YOUNG CHILDREN FEEDING PRACTICES

This chapter summarizes the feeding practices of infants and children aged 0-59 months whose caregivers participated in the SMI-Honduras Household Survey. All data summarized in this chapter are based on the caregiver's report.

D8.1 Breastfeeding

D8.1.1 Exclusive breastfeeding

Coverage of exclusive breastfeeding is defined as the percentage of infants born in the six months prior to the survey who received only breast milk during the previous day. This information is obtained through a 24-hour dietary recall in which the caregiver indicates what the child consumed during the previous day and night. In Honduras during the second follow-up, the sample includes 55 children who are under 6 months of age, and 14 of those children have sufficiently complete dietary recall information to determine whether they are exclusively breastfed. Table D8.1 shows that 23.6% of children under 6 months of age are exclusively breastfed.

D8.1.2 Continued breastfeeding at 1 year

Coverage of continued breastfeeding at 1 year is defined as the percentage of children 12-15 months old who received breast milk during the previous day according to caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 41 children who are between 12 and 15 months of age, and 23 of those children have adequate responses to determine their breastfeeding status. Table D8.1 shows that 59.8% of children continue to receive breast milk at 1 year.

Table D8.1: Breastfeeding among children

| | | Baseli | ne 2013 | | Second Follow-Up 2017 | | | |
|---|----|--------|---------|-----|-----------------------|----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Exclusive breastfeeding among children <6 months | 51 | 133 | 39.3 | 5.8 | 14 | 55 | 23.6 | 7.8 |
| Continued breastfeeding at one year among children 12-15 months | 73 | 94 | 78.8 | 4.5 | 23 | 41 | 59.8 | 9.8 |

D8.2 Acceptable diet

D8.2.1 Introduction of solid, semi-solid, or soft foods

Coverage of appropriate introduction of solid foods is measured as the percentage of infants 6-8 months of age who received solid or semi-soft foods during the previous day according to caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 35 children who are 6-8 months of age, and 31 of those children have sufficiently complete dietary recall information. Table D8.2 shows that 93.2% of children consumed solid or semi-soft foods.



D8.2.2 Dietary diversity

Coverage of minimum dietary diversity is measured as the percentage of children 6-23 months of age who received foods from at least four food groups during the previous day according to caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 228 children who are 6-23 months of age, and 180 of those children have sufficiently complete dietary recall information to determine dietary diversity. Table D8.2 shows that 79.8% of children achieved the minimum dietary diversity during the previous day.

D8.2.3 Meal frequency

Coverage of minimum meal frequency is measured as the percentage of children 6-23 months of age who received solid foods at least the minimum number of times the previous day, based on age and breastfeeding status. For breastfed children, the minimum is two times for children 6-8 months of age and three times for children 9-23 months of age. For non-breastfed children, the minimum number is four times for all children 6-23 months of age. This information is obtained through caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 228 children who are 6-23 months of age, and 166 of those children have sufficiently complete dietary recall information to determine meal frequency. Table D8.2 shows that 74.3% of children achieved the minimum meal frequency during the previous day.

D8.2.4 Minimum acceptable diet

Coverage of minimum acceptable diet is measured for children 6-23 months of age. For breastfed children to meet the minimum acceptable diet they must have had at least the minimum dietary diversity and the minimum meal frequency during the previous day. For non-breastfed children to meet the minimum acceptable diet they must have had at least two milk feedings, as well as at least the minimum dietary diversity (not including milk feedings) and the minimum meal frequency during the previous day. This information is obtained through caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 228 children who are 6-23 months of age, and 128 of those children have sufficiently complete dietary recall information to determine minimum acceptable diet. Table D8.2 shows that 55.9% of children achieved the minimum acceptable diet during the previous day.

D8.2.5 Consumption of iron-rich or iron-fortified foods

Consumption of iron-rich foods is measured as the percentage of children 6-23 months of age who receive an iron-rich food (e.g., liver, beef, or fish), an iron supplement, or a fortified food that is specially designed for infants and young children, or a food fortified in the home with a product that included iron during the previous day. This information is obtained through caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 228 children who are 6-23 months of age and 159 of those children have sufficiently complete dietary recall information to determine iron consumption. Table D8.2 shows that 66.8% of children consumed an iron-rich food during the previous day.



| | Baseline 2013 | | | | | Second Follow-Up 2017 | | | |
|---|---------------|-----|------|-----|-----|-----------------------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Introduction of solid foods among children 6-8 months | 68 | 79 | 85.6 | 4.0 | 31 | 35 | 93.2 | 4.4 | |
| Minimum dietary diversity among children 6-23 months | 240 | 455 | 51.7 | 2.9 | 180 | 228 | 79.8 | 3.6 | |
| Minimum meal frequency among children 6-23 months | 264 | 426 | 62.8 | 3.1 | 166 | 227 | 74.3 | 4.1 | |
| Consumption of iron-rich foods among children 6-23 months | 243 | 455 | 52.6 | 2.8 | 159 | 228 | 66.8 | 5.0 | |
| Minimum acceptable diet among children 6-23 months | 144 | 442 | 32.4 | 2.9 | 128 | 227 | 55.9 | 4.2 | |

Table D8.2: Acceptable diet among children 6-23 months

D8.3 Micronutrient supplementation

D8.3.1 Vitamin A

Interviewers asked the caregiver if their child received a dose of vitamin A in the last six months. Table D8.3 shows that of the 770 sampled children 0-59 months of age in the second follow-up, 71.8% received a dose of vitamin A in the last six months.

D8.3.2 Iron

Interviewers showed the caregiver photos of common types of bottles, powders, or syrups and asked if their child received iron pills, powder, or syrup in the last day. Table D8.3 shows that of the 770 children 0-59 months of age in the second follow-up sample, 24.6% received a dose of iron in the last day.

Table D8.3: Vitamin A and Iron consumption among children 0-59 months

| | | Baseline | e 2013 | | Seco | nd Follo | ow-Up 2 | 2017 |
|----------------------------------|-----|----------|--------|-----|------|----------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Vitamin A in the last six months | 953 | 1391 | 68.9 | 1.9 | 547 | 746 | 71.8 | 2.9 |
| Iron supplement the previous day | 291 | 1441 | 20.2 | 1.3 | 179 | 764 | 24.6 | 2.6 |

D8.3.3 Packets of micronutrients

Interviewers showed the caregiver a card with packets of micronutrients (chispitas) and asked how many packets their child received from a health facility and consumed in the last six months. Children are intended to take 60 consecutive daily doses of micronutrient powder in each of three rounds, beginning at age 6, 12, and 18 months, with an adequate consumption considered to be 50 packets. Table D8.4 shows that among children 6-23 months of age sampled in the second follow-up, 96% received no packets of micronutrients from a health facility in the last six months.



Table D8.4: Micronutrient powders among children 6-23 months

| | | Baseli | ne 2013 | | Sec | cond Fo | ollow-Up | 2017 |
|--|----|--------|---------|-----|-----|---------|----------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Received any micronutrient packets from health facility in the last six months | 87 | 450 | 20.3 | 3.2 | 8 | 226 | 4.0 | 1.8 |
| Consumed any micronutrient packets | 86 | 449 | 20.2 | 3.2 | 6 | 224 | 3.3 | 1.5 |
| Consumed adequate dose (>=50 packets) of micronutrient powders | 0 | 449 | 0.0 | - | 4 | 224 | 2.4 | 1.4 |

* Identical questions were asked in baseline and second follow-up surveys, but the second follow-up interview included photos of the micronutrient products. The baseline survey predated the intervention, so it is possible that questions about receipt and consumption were interpreted by caregivers to include different types of micronutrient supplements at baseline.



D9. CHAPTER 9: NUTRITIONAL STATUS IN CHILDREN

The nutritional status of children aged 0-59 months is an important outcome measure of children's health. The SMI-Honduras Second Follow-up Household Survey collected data on the nutritional status of children by measuring the height and weight of all children aged 0-59 months residing in surveyed households, using standard procedures. Hemoglobin levels of these children were also assessed in the field, using a portable HemoCueTM machine, and these data were used to estimate anemia prevalence. As described in Chapter 1, medically trained personnel who were specifically trained to standardize the anthropometric and hemoglobin measurements conducted the testing. This evaluation allows identification of subgroups of the child population that are at increased risk of malnutrition. The parents of anemic children (hemoglobin level <11.0 g/dL, with altitude adjustment) were informed of this result in real-time and were referred for treatment to the appropriate health service.

Three indicators were calculated using the weight and height data – weight-for-age, height-for-age, and weight-for-height. For this report, indicators of the children's nutritional status were calculated using growth standards published by the World Health Organization (WHO) in 2006. The growth standards were generated using data collected in the WHO Multicenter Growth Reference Study. The findings of the study, whose sample included children in six countries (Brazil, Ghana, India, Norway, Oman, and the United States), describe how children should grow under optimal conditions. As such, the WHO Child Growth Standards can be used to assess children all over the world, regardless of ethnicity, social and economic influences, and feeding practices. The three indicators are expressed in standard deviation units from the median in the Multicenter Growth Reference Study.

A total of 770 children aged 0-59 months participated in the SMI-Honduras second follow-up. In practice, 748 of these children underwent the physical measurement module. Height and weight data are presented for 747 of these children (99.9%, unweighted). Six hundred ninety nine children 6-59 months of age were eligible for the anemia test. Hemoglobin was measured in 657 children (94%, unweighted, of children 6-59 months of age). Parental consent was refused for 39 children, one were not measured because anthropometrists could not obtain a sufficient capillary blood sample or any sample at all, and two cases were not tested for other reasons (for example, because the child did not cooperate). The age and sex distribution of children participating in the physical measurement module is displayed in Figure D9.1 and Figure D9.2.



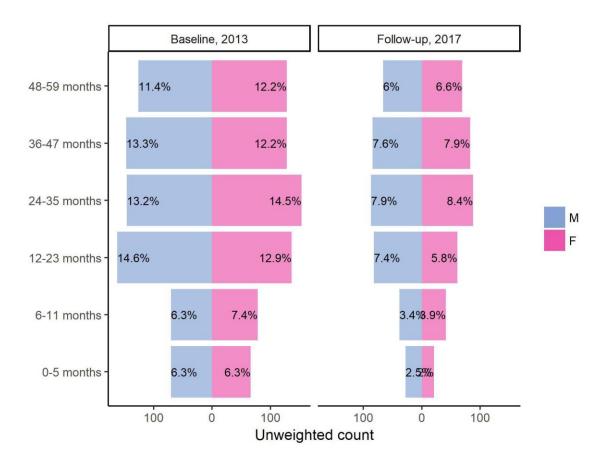


Figure D9.1: Height and weight measured: Age and sex distribution of children measured, children 0-59 months of age of the de facto population



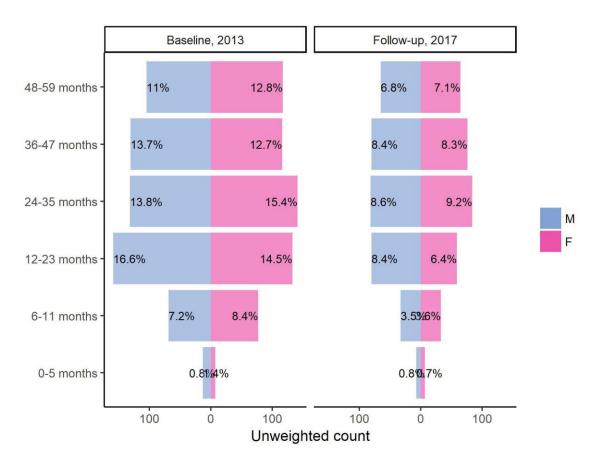


Figure D9.2: Hemoglobin measured: Age and sex distribution of children measured, children 0-59 months of age of the de facto population

D9.1 Weight-for-Age

Weight-for-age is a good overall indicator of a population's general health, as it reflects the effects of both acute and chronic undernutrition. The weight-for-age indicator does not distinguish between chronic malnutrition (stunting) and acute malnutrition (wasting); a child can be underweight because of stunting, wasting, or both. Children with weight-for-age below minus two standard deviations (-2 SD) are classified as underweight. Children with weight-for-age below minus three standard deviations (-3 SD) are considered severely underweight.

D9.1.1 Unweighted distribution of weight-for-age z-scores

Figure D9.3 shows the distribution of weight-for-age z-scores among all children aged 0-59 months whose measurements were taken. The vertical black lines in the figure denote minus two standard deviations – children to the left of the line are classified as underweight.



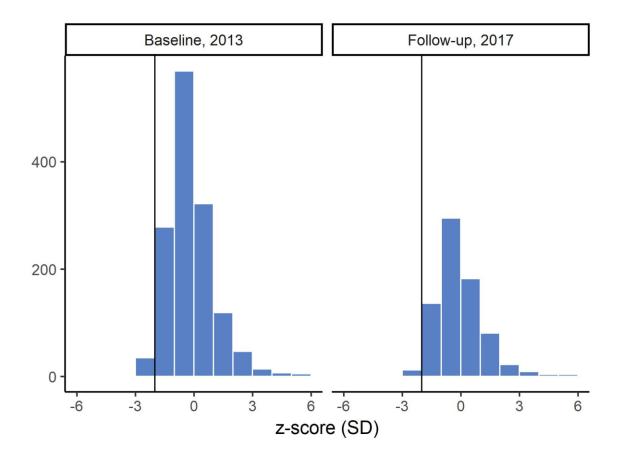


Figure D9.3: Distribution of weight-for-age z-scores among children 0-59 months, unweighted

D9.1.2 Prevalence of underweight

As shown in Table D9.1, 7.3% of children aged 0-59 months in the second follow-up are underweight (have low weight-for-age) and 0.9% are severely underweight. The proportion of underweight children is highest (8.8%) in the age groups 24 to 59 months and lowest (2.8%) among those under 6 months. Female children (5.9%) are less likely to be underweight than male children (8.6%).



Table D9.1: Prevalence of underweight in children aged 0-59 months

| | | Baselin | e 2013 | | | Seco | nd Follow | -Up 2017 |
|--------------------|--------|-----------|-----------|---------|--------|--------|-------------|------------------|
| | n | N | % | SE | n | Ν | % | SE |
| Prevalence of und | lerwei | ght in ch | ildren 0 | -59 m | onths, | by sex | and age (| < -2 SD) |
| Male | 49 | 715 | 7.0 | 1.3 | 28 | 385 | 8.6 | 1.8 |
| Female | 29 | 687 | 4.8 | 0.7 | 19 | 363 | 5.9 | 2.0 |
| 0-5 months | 3 | 135 | 2.7 | 1.6 | 2 | 49 | 2.8 | 2.2 |
| 6-11 months | 3 | 148 | 2.8 | 1.7 | 5 | 79 | 7.7 | 2.9 |
| 12-23 months | 9 | 298 | 3.2 | 1.0 | 6 | 143 | 3.8 | 1.7 |
| 24-59 months | 63 | 821 | 8.0 | 1.0 | 34 | 477 | 8.8 | 2.0 |
| 0-59 months | 78 | 1402 | 6.0 | 0.7 | 47 | 748 | 7.3 | 1.6 |
| 6-23 months | 12 | 446 | 3.1 | 0.9 | 11 | 222 | 5.1 | 1.8 |
| Prevalence of seve | ere un | derweig | ht in ch | ildren | 0-59 n | nonths | , by sex an | nd age (< -3 SD) |
| Male | 9 | 715 | 1.4 | 0.5 | 5 | 385 | 1.2 | 0.6 |
| Female | 7 | 687 | 1.1 | 0.4 | 2 | 363 | 0.7 | 0.5 |
| 0-5 months | 0 | 135 | 0.0 | - | 0 | 49 | 0.0 | - |
| 6-11 months | 1 | 148 | 0.7 | 0.7 | 2 | 79 | 1.6 | 1.4 |
| 12-23 months | 0 | 298 | 0.0 | - | 1 | 143 | 0.1 | 0.1 |
| 24-59 months | 15 | 821 | 2.0 | 0.5 | 4 | 477 | 1.2 | 0.7 |
| 0-59 months | 16 | 1402 | 1.3 | 0.3 | 7 | 748 | 0.9 | 0.5 |
| 6-23 months | 1 | 446 | 0.2 | 0.2 | 3 | 222 | 0.6 | 0.5 |
| Prevalence of high | n weig | ht for ag | ge in chi | ldren (|)-59 m | onths, | by sex and | d age (> 2 SD) |
| Male | 33 | 715 | 4.8 | 0.8 | 21 | 385 | 5.3 | 1.3 |
| Female | 37 | 687 | 4.7 | 0.8 | 14 | 363 | 4.1 | 1.0 |
| 0-5 months | 35 | 135 | 25.9 | 4.0 | 13 | 49 | 30.3 | 9.7 |
| 6-11 months | 12 | 148 | 8.3 | 2.1 | 7 | 79 | 6.9 | 2.6 |
| 12-23 months | 11 | 298 | 3.3 | 1.0 | 5 | 143 | 3.1 | 1.4 |
| 24-59 months | 12 | 821 | 1.4 | 0.5 | 10 | 477 | 2.0 | 0.6 |
| 0-59 months | 70 | 1402 | 4.8 | 0.6 | 35 | 748 | 4.7 | 0.9 |
| 6-23 months | 23 | 446 | 4.9 | 0.9 | 12 | 222 | 4.4 | 1.6 |

D9.2 Height-for-Age

Height-for-age is an indicator of linear growth retardation and cumulative growth deficits in children. Children whose height-for-age z-score is below minus two standard deviations (-2 SD) from the median of the WHO reference population are considered short for their age (stunted) or chronically malnourished. Children who are below minus three standard deviations (-3 SD) are considered severely stunted. Stunting reflects failure to receive adequate nutrition over a long period of time and is affected by recurrent and chronic illness. Height-for-age, therefore, represents the long-term effects of malnutrition in a population and is not sensitive to recent, short-term changes in dietary intake.

D9.2.1 Distribution of height-for-age z-scores

Figure D9.4 presents the distribution of height-for-age z-scores among all children aged 0-59 months whose measurements were taken. The vertical black lines in the figure denotes minus two standard deviations – children to the left of the line are classified as stunted.



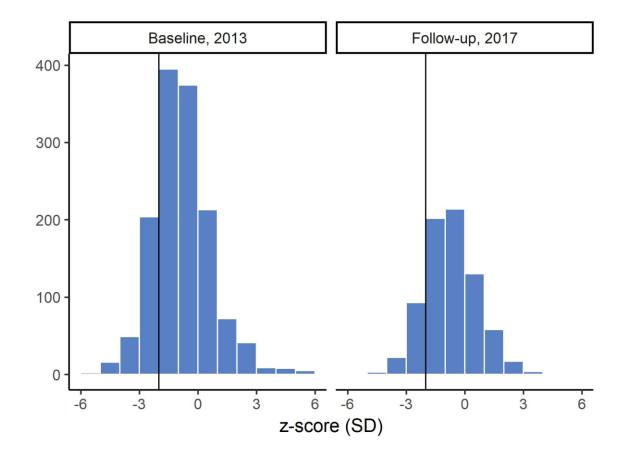


Figure D9.4: Distribution of height-for-age z-scores among children 0-59 months, unweighted

D9.2.2 Prevalence of stunting

Table D9.2 presents the prevalence of stunting in children aged 0-59 months as measured by heightfor-age. In the second follow-up, 17.3% of children under age 5 are stunted and 3.4% are severely stunted. Analysis of the indicator by age group shows that stunting is highest (19.8%) in children 24-59 months and lowest (0.2%) in children aged 0-5 months. Children 12-23 months old have the highest proportion of severely stunted children (1.2%) while the youngest age group (0-5 months) has the lowest proportion (0%). A higher proportion (18%) of male children is stunted compared with the proportion of female children (16.6%).



| | | Baseline | e 2013 | | Se | econd F | ollow-Up | 2017 |
|--------------------|----------|------------|---------|--------|---------|---------|-------------|----------|
| | n | N | % | SE | n | Ν | % | SE |
| Prevalence of stur | nting in | children | 0-59 m | onths, | by sex | and ag | e (< -2 SD) | |
| Male | 161 | 715 | 23.6 | 2.3 | 67 | 385 | 18.0 | 3.0 |
| Female | 117 | 686 | 18.5 | 2.2 | 55 | 362 | 16.6 | 3.4 |
| 0-5 months | 1 | 135 | 0.9 | 0.9 | 1 | 49 | 0.2 | 0.2 |
| 6-11 months | 12 | 148 | 8.1 | 2.3 | 6 | 79 | 7.1 | 3.7 |
| 12-23 months | 51 | 297 | 18.0 | 2.6 | 29 | 143 | 20.6 | 5.2 |
| 24-59 months | 214 | 821 | 27.6 | 2.6 | 86 | 476 | 19.8 | 4.2 |
| 0-59 months | 278 | 1401 | 21.1 | 1.9 | 122 | 747 | 17.3 | 2.9 |
| 6-23 months | 63 | 445 | 14.8 | 2.0 | 35 | 222 | 16.0 | 3.5 |
| Prevalence of seve | ere stur | nting in d | hildren | 0-59 n | nonths, | by sex | and age (| < -3 SD) |
| Male | 46 | 715 | 6.7 | 1.1 | 15 | 385 | 4.0 | 1.7 |
| Female | 29 | 686 | 4.8 | 0.9 | 9 | 362 | 2.9 | 1.6 |
| 0-5 months | 1 | 135 | 0.9 | 0.9 | 0 | 49 | 0.0 | |
| 6-11 months | 1 | 148 | 0.7 | 0.7 | 2 | 79 | 1.6 | 1.4 |
| 12-23 months | 11 | 297 | 3.4 | 1.0 | 3 | 143 | 1.2 | 1.0 |
| 24-59 months | 62 | 821 | 8.3 | 1.2 | 19 | 476 | 4.8 | 2.2 |
| 0-59 months | 75 | 1401 | 5.8 | 0.8 | 24 | 747 | 3.4 | 1.6 |
| 6-23 months | 12 | 445 | 2.5 | 0.7 | 5 | 222 | 1.3 | 0.8 |

Table D9.2: Prevalence of stunting in children aged 0-59 months

D9.3 Weight-for-Height

The weight-for-height indicator measures body mass in relation to body height or length and describes current nutritional status. Children with z-scores below minus two standard deviations (-2 SD) are considered thin (wasted) or acutely malnourished. Wasting represents the failure to receive adequate nutrition in the period immediately preceding the survey and may be the result of inadequate food intake or a recent episode of illness causing loss of weight and the onset of malnutrition. Children with a weight-for-height index below minus three standard deviations (-3 SD) are considered severely wasted. This weight-for-height indicator also provides data on over-weight and obesity. Children more than two standard deviations (+2 SD) above the median weight-for-height are considered overweight or obese.

D9.3.1 Distribution of weight-for-height z-scores

Figure D9.5 shows the distribution of weight-for-height z-scores among all children aged 0-59 months whose measurements were taken. The vertical black lines in the figure denote minus two standard deviations – children to the left of the line are classified as wasted.



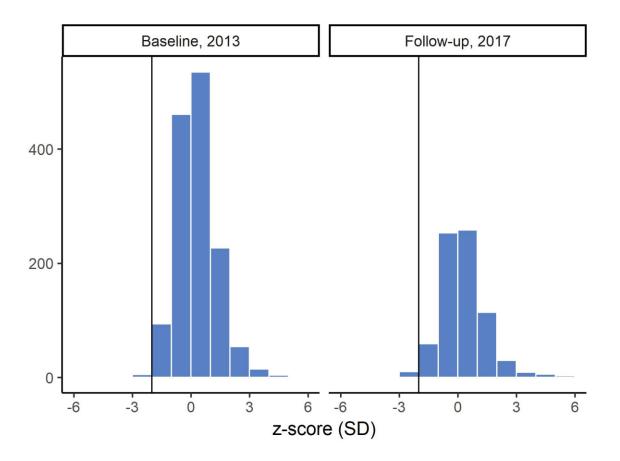


Figure D9.5: Distribution of weight-for-height z-scores among children 0-59 months, unweighted

D9.4 Prevalence of Wasting

Table D9.3 shows the breakdown of nutritional status of children aged 0-59 months as measured by weight-for-height by age groups and sex. In the second follow-up, 3.3% of children are wasted and 1% of children are severely wasted. Analysis of the indicator by age group shows that wasting is highest (3.2%) in children 12-23 months old and lowest (8.6%) in children aged 6-11 months. Male children are more likely to be wasted than female children (3.9% to 2.7%). Male children are slightly more likely to be severely wasted (1.2%) than females (0.7%).

Overweight and obesity affect a greater proportion of children in SMI areas Honduras than wasting. In this sample, 5.4% of children are overweight or obese (weight-for-height more than +2 SD). The coexistence of both growth retardation and obesity reveals the burden of malnutrition in Honduras.



Table D9.3: Prevalence of underweight in children aged 0-59 months

| | | Baseline | e 2013 | | | Secon | d Follow-U | p 2017 |
|--------------------|---------|------------|---------|---------|--------|---------|-------------|--------------|
| | n | Ν | % | SE | n | N | % | SE |
| Prevalence of was | ting in | n childre | n 0-59 | month | ns, by | sex and | d age (< -2 | SD) |
| Male | 14 | 714 | 2.1 | 0.6 | 11 | 385 | 3.9 | 1.9 |
| Female | 3 | 686 | 0.7 | 0.4 | 10 | 362 | 2.7 | 1.1 |
| 0-5 months | 2 | 135 | 1.8 | 1.3 | 3 | 49 | 7.0 | 3.0 |
| 6-11 months | 2 | 148 | 1.9 | 1.4 | 4 | 79 | 8.6 | 3.5 |
| 12-23 months | 8 | 297 | 3.0 | 1.1 | 5 | 143 | 3.2 | 1.7 |
| 24-59 months | 5 | 820 | 0.7 | 0.4 | 9 | 476 | 2.1 | 1.0 |
| 0-59 months | 17 | 1400 | 1.4 | 0.4 | 21 | 747 | 3.3 | 0.9 |
| 6-23 months | 10 | 445 | 2.6 | 0.8 | 9 | 222 | 5.1 | 2.0 |
| Prevalence of seve | ere wa | asting in | childre | en 0-59 |) mon | ths. bv | sex and ag | ze (< -3 SD) |
| Male | 4 | 714 | 0.7 | 0.4 | 4 | 385 | 1.2 | 0.8 |
| Female | 0 | 686 | 0.0 | - | 2 | 362 | 0.7 | 0.5 |
| 0-5 months | 1 | 135 | 1.3 | 1.3 | 2 | 49 | 5.0 | 2.9 |
| 6-11 months | 0 | 148 | 0.0 | - | 1 | 79 | 1.9 | 1.8 |
| 12-23 months | 1 | 297 | 0.3 | 0.3 | 2 | 143 | 1.4 | 1.3 |
| 24-59 months | 2 | 820 | 0.3 | 0.2 | 1 | 476 | 0.2 | 0.2 |
| 0-59 months | 4 | 1400 | 0.3 | 0.2 | 6 | 747 | 1.0 | 0.4 |
| 6-23 months | 1 | 445 | 0.2 | 0.2 | 3 | 222 | 1.6 | 1.0 |
| Prevalence of ove | rweig | ht in chil | dren 0 | -59 m | onths. | bv sex | and age (> | > 2 SD) |
| Male | 30 | 714 | 4.3 | 0.7 | 27 | 385 | 5.5 | 1.3 |
| Female | 37 | 686 | 5.4 | 1.0 | 18 | 362 | 5.2 | 1.6 |
| 0-5 months | 12 | 135 | 8.0 | 2.5 | 6 | 49 | 14.8 | 7.5 |
| 6-11 months | 10 | 148 | 7.4 | 2.2 | 6 | 79 | 8.0 | 3.1 |
| 12-23 months | 12 | 297 | 4.2 | 1.2 | 5 | 143 | 2.3 | 1.2 |
| 24-59 months | 33 | 820 | 4.1 | 0.7 | 28 | 476 | 4.8 | 1.4 |
| 0-59 months | 67 | 1400 | 4.9 | 0.7 | 45 | 747 | 5.4 | 1.2 |
| 6-23 months | 22 | 445 | 5.3 | 1.0 | 11 | 222 | 4.2 | 1.2 |

D9.5 Anemia

Anemia is a condition characterized by low concentration of hemoglobin in the blood. Hemoglobin is necessary for transporting oxygen to tissues and organs in the body. The reduction in oxygen available to organs and tissues when hemoglobin levels are low is responsible for most of the symptoms experienced by anemic persons. The consequences of anemia include general body weakness, frequent tiredness, and lowered resistance to disease. It is of concern in children because anemia is associated with impaired mental and motor development. Overall, morbidity and mortality risks increase for individuals suffering from anemia.

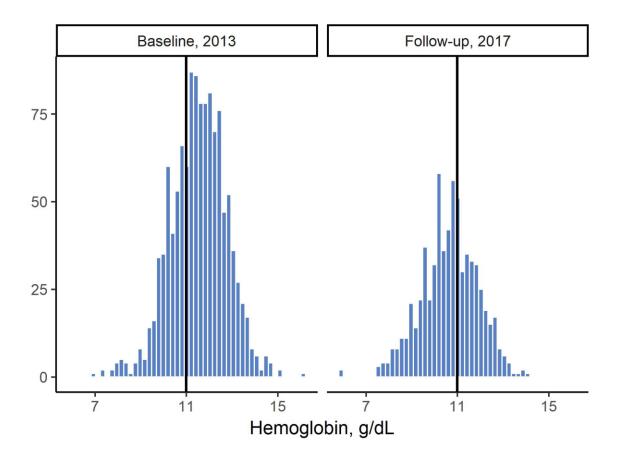
Common causes of anemia include inadequate intake of iron, folate, vitamin B12, or other nutrients. This form of anemia is commonly referred to as iron-deficiency anemia and is the most widespread form of anemia in the world. Anemia can also be the result of thalassemia, sickle cell disease, malaria, or intestinal worm infestation.



D9.5.1 Distribution of hemoglobin values

Figure D9.6 shows the distribution of hemoglobin values (in g/dL) among children 0-59 months of age. The vertical black lines in the figure denote a hemoglobin concentration of 11.0 g/dL – children to the left of the line are classified as anemic.

Figure D9.6: Distribution of altitude-adjusted hemoglobin values among children 0-59 months, unweighted



D9.5.2 Prevalence of anemia

Levels of anemia were classified as severe (<7.0 g/dL) and any (<11.0 g/dL) based on the hemoglobin concentration in the blood. The cutpoints for anemia are adjusted (raised) in settings where altitude is more than 1,000 meters above sea level, to account for lower oxygen partial pressure, a reduction in oxygen saturation of blood, and an increase in red blood cell production. Although some regions of Honduras are mountainous and well above 1,000 meters, the majority of the population resides at lower levels. The highest elevation of a surveyed household at the second follow-up was 1,546 meters above sea level; 7.1% of children (unweighted) lived above 1,000 meters. Correction for elevation was applied to anemia diagnosis where data collectors measured altitude over 1,000m (using a handheld GPS device).



Children whose hemoglobin levels are below 11 g/dL are considered anemic, and children who have hemoglobin levels below 7 g/dL are considered severely anemic. Table D9.4 indicates that 57.9% of children under age 5 in Honduras are anemic. Overall, the anemia prevalence is mostly mild to moderate (57.4%), with only 0.5% of children under 5 years presenting as severely anemic. Anemia prevalence is highest among children aged 0-5 months (65.9%) compared with the other children. More than 74.1% of all children aged 6-23 months, our targeted population for anemia intervention, were found to be anemic.

Table D9.4: Prevalence of anemia, children aged 0-59 months

| | | Baselin | e 2013 | | Seco | nd Follo | ow-Up 2 | 2017 |
|--------------------|----------|-----------|---------|----------|---------|----------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Prevalence of ane | mia in (| children | 0-59 m | onths, b | y sex a | nd age | | |
| Male | 196 | 609 | 30.3 | 2.9 | 221 | 347 | 63.4 | 2.7 |
| Female | 159 | 591 | 26.9 | 2.7 | 170 | 324 | 52.1 | 2.7 |
| 0-5 months | 9 | 20 | 40.7 | 11.0 | 10 | 14 | 65.9 | 9.6 |
| 6-11 months | 76 | 146 | 50.4 | 5.9 | 53 | 66 | 81.7 | 4.6 |
| 12-23 months | 109 | 292 | 35.6 | 3.4 | 97 | 139 | 70.7 | 3.7 |
| 24-59 months | 161 | 742 | 21.3 | 2.4 | 231 | 452 | 50.7 | 3.2 |
| 0-59 months | 355 | 1200 | 28.6 | 2.4 | 391 | 671 | 57.9 | 2.2 |
| 6-23 months | 185 | 438 | 40.5 | 3.5 | 150 | 205 | 74.1 | 3.0 |
| Prevalence of seve | ere ane | mia in cl | hildren | 0-59 mo | nths, b | y sex a | nd age | |
| Male | 0 | 609 | 0.0 | - | 0 | 347 | 0.0 | - |
| Female | 0 | 591 | 0.0 | - | 2 | 324 | 1.0 | 0.7 |
| 0-5 months | 0 | 20 | 0.0 | - | 0 | 14 | 0.0 | - |
| 6-11 months | 0 | 146 | 0.0 | - | 0 | 66 | 0.0 | - |
| 12-23 months | 0 | 292 | 0.0 | - | 2 | 139 | 2.4 | 1.6 |
| 24-59 months | 0 | 742 | 0.0 | - | 0 | 452 | 0.0 | - |
| 0-59 months | 0 | 1200 | 0.0 | - | 2 | 671 | 0.5 | 0.3 |
| 6-23 months | 0 | 438 | 0.0 | - | 2 | 205 | 1.6 | 1.1 |

D10. CHAPTER 10: SMI HOUSEHOLD INDICATORS

Table D10.1: Performance of payment indicators, SMI-Honduras Second Follow-up Survey

| | | | Baselir | ne 2013 | | Second Follow-Up 2017 | | | |
|------|--|-----|---------|---------|-----|-----------------------|-----|------|-----|
| | Indicator | n | Ν | % | SE | n | N | % | SE |
| 4010 | Women (age 15-49) delivered in CMI/hospital with skilled attendant in their most recent pregnancy in the last two years | 461 | 647 | 69.4 | 3.1 | 239 | 310 | 77.9 | 3.7 |
| 4030 | Women (age 15-49) who received postpartum care within 7 days with skilled personnel in their most recent pregnancy in the last two years | 347 | 643 | 51.7 | 3.0 | 230 | 310 | 73.0 | 5.3 |
| NA | Children (6-23 months) consumed at least 50 doses of micronutrients in the last 6 months | 0 | 449 | 0.0 | - | 4 | 224 | 2.4 | 1.4 |

Table D10.2: Performance of monitoring indicators, SMI-Honduras Follow-up Survey

| | n | Ν | 0/ | | | | | |
|--|--|--|---|--|--|--|--|---|
| | | | % | SE | n | Ν | % | SE |
| hose partner is using) a | 617 | 892 | 63.6 | 4.0 | 411 | 540 | 74.7 | 3.8 |
| e last year | 274 | 1690 | 10.9 | 0.8 | 114 | 975 | 7.7 | 1.2 |
| e last year | 55 | 311 | 13.6 | 2.5 | 25 | 187 | 7.3 | 2.4 |
| become pregnant and who planning methods | 275 | 892 | 36.4 | 4.0 | 129 | 540 | 25.3 | 3.8 |
| opped using a method of | 23 | 709 | 4.9 | 1.4 | 19 | 456 | 4.7 | 1.8 |
| st two years who can orns | 123 | 548 | 22.8 | 3.3 | 93 | 252 | 33.3 | 5.9 |
| ess in the past two weeks | 413 | 1688 | 24.4 | 1.8 | 257 | 973 | 27.5 | 2.7 |
| ny illness in the past two | 254 | 413 | 55.7 | 3.1 | 169 | 257 | 64.3 | 4.6 |
| ealth care services at their | 807 | 870 | 93.5 | 1.1 | 575 | 609 | 95.6 | 0.9 |
| eanliness of the facility at | 520 | 873 | 59.4 | 3.0 | 475 | 611 | 77.4 | 3.2 |
| ompetence of the medical ealth facility | 818 | 852 | 96.6 | 0.8 | 589 | 606 | 98.0 | 0.8 |
| with respect at their most | 526 | 872 | 61.1 | 2.9 | 480 | 611 | 79.2 | 3.1 |
| t one antenatal care visit by gnancy in the last two years | 572 | 647 | 88.3 | 2.0 | 292 | 310 | 93.2 | 2.2 |
| four antenatal care visits by gnancy in the last two years | 494 | 641 | 76.7 | 2.4 | 271 | 309 | 86.3 | 2.5 |
| rtum care by skilled ir most recent pregnancy in | 290 | 643 | 43.3 | 2.7 | 195 | 310 | 60.8 | 6.4 |
| rtum care by skilled | 116 | 643 | 18.0 | 2.6 | 111 | 310 | 38.8 | 5.2 |
| | ealth care services at their eanliness of the facility at ompetence of the medical ealth facility with respect at their most one antenatal care visit by gnancy in the last two years four antenatal care visits by gnancy in the last two years rtum care by skilled r most recent pregnancy in | ealth care services at their 807 eanliness of the facility at 520 ompetence of the medical 818 ealth facility with respect at their most 526 one antenatal care visit by 572 gnancy in the last two years four antenatal care visits by 494 gnancy in the last two years rtum care by skilled 290 r most recent pregnancy in | ealth care services at their 807 870 eanliness of the facility at 520 873 ompetence of the medical 818 852 ealth facility with respect at their most 526 872 cone antenatal care visit by 572 647 gnancy in the last two years four antenatal care visits by 494 641 gnancy in the last two years rtum care by skilled 290 643 r most recent pregnancy in | Pail And | Pail And | Pail And Care Services at their80787093.51.1575Pail And Care Services at their52087359.43.0475Pail And Care Services at their52087359.43.0475Pompetence of the medical81885296.60.8589Pail And Care Services at their most52687261.12.9480Pain And Care Visit By57264788.32.0292Pain And Care Visits By49464176.72.4271Pain And Care Visits By29064343.32.7195Pain And Care Visit By29064343.32.7195 | Pail And Care Services at their80787093.51.1575609eanliness of the facility at52087359.43.0475611ompetence of the medical81885296.60.8589606ealth facility81885296.60.8589606ealth facility52687261.12.9480611cone antenatal care visit by gnancy in the last two years57264788.32.0292310four antenatal care visits by gnancy in the last two years49464176.72.4271309gnancy in the last two years rtum care by skilled r most recent pregnancy in29064343.32.7195310 | Pailth care services at their 807 870 93.5 1.1 575 609 95.6 Pailth care services at their 520 873 59.4 3.0 475 611 77.4 Pailth care services of the facility at 520 873 59.4 3.0 475 611 77.4 Pompetence of the medical earling 818 852 96.6 0.8 589 606 98.0 Pailth facility 818 852 91.6 0.8 589 606 98.0 Pailth facility 818 852 96.6 0.8 589 606 98.0 Pailth facility 818 852 96.6 0.8 589 606 98.0 Pailth facility 818 852 91.6 1.1 2.9 480 611 79.2 Paint respect at their most 526 872 61.1 2.9 480 611 79.2 Paint respect at their most 572 647 88.3 2.0 292 310 93.2 Paint respect at the paint wo years 6 |



(continued)

| | | | Baselin | e 2013 | | Seco | ond Foll | ow-Up 2 | .017 |
|------|--|-----|---------|--------|-----|------|----------|---------|------|
| | Indicator | n | Ν | % | SE | n | Ν | % | SE |
| 4040 | Women (age 15-49) who received postpartum care by skilled personnel within 24 hours after delivery, a second check before 7 days, and a third check between 7 and 42 days after delivery in their most recent pregnancy in the last two years | 16 | 643 | 2.1 | 0.8 | 18 | 310 | 6.1 | 2.1 |
| 4100 | Infants receiving neonatal care by skilled personnel in a health facility within 48 hours of birth in the last two years | 265 | 629 | 40.3 | 2.7 | 149 | 270 | 50.9 | 8.4 |
| 4101 | Infants receiving neonatal care by skilled personnel in a health facility within 24 hours of birth in the last two years | 210 | 629 | 31.7 | 2.6 | 112 | 270 | 37.2 | 6.4 |
| 5050 | Children born in the last two years who were breastfed within one hour after birth | 540 | 691 | 78.2 | 2.7 | 218 | 316 | 71.4 | 3.4 |
| 5060 | Children 0-59 months who received ORS and zinc in the last episode of diarrhea in the past two weeks | 4 | 72 | 6.1 | 2.8 | 0 | 41 | 0.0 | - |
| 4145 | Children (0-59 months) with pneumonia symptoms who received antibiotics | 112 | 138 | 80.5 | 3.3 | 49 | 69 | 68.5 | 9.3 |
| NA | Children (0-59 months) fully vaccinated for age, according to vaccine card and recall | 513 | 1317 | 38.5 | 2.1 | 421 | 703 | 62.1 | 4.1 |
| 5010 | Children 12-59 months who received 2 doses of deworming in the last year | 440 | 1129 | 40.0 | 1.7 | 203 | 614 | 34.5 | 2.8 |
| 5040 | Children 0-5 months who were exclusively breastfed on the previous day | 51 | 133 | 39.3 | 5.8 | 14 | 55 | 23.6 | 7.8 |
| 5075 | Children 6-23 months who consumed at least 60 packets of micronutrients (complete dose) in the last 6 months | 0 | 449 | 0.0 | - | 4 | 224 | 2.4 | 1.4 |
| 5080 | Children 12-15 months who were breastfed on the previous day | 73 | 94 | 78.8 | 4.5 | 23 | 41 | 59.8 | 9.8 |
| 5090 | Children 6-8 months who received solid or semi-solid food on the previous day | 68 | 79 | 85.6 | 4.0 | 31 | 35 | 93.2 | 4.4 |
| 5100 | Children 6-23 months who received foods from 4 or more food groups during the previous day | 240 | 455 | 51.7 | 2.9 | 180 | 228 | 79.8 | 3.6 |
| 5110 | Children 6-23 months breastfed or complimentary feeding who received solid, semi-solid, or soft foods the minimum number of times or more during the previous day | 264 | 426 | 62.8 | 3.1 | 166 | 227 | 74.3 | 4.1 |
| 5120 | Children 6-23 months who received the minimum acceptable diet (apart from breastmilk) during the previous day | 144 | 442 | 32.4 | 2.9 | 128 | 227 | 55.9 | 4.2 |
| 5130 | Children 6-23 months who received iron-rich or iron-fortified foods during the previous day | 243 | 455 | 52.6 | 2.8 | 159 | 228 | 66.8 | 5.0 |
| 6030 | Children (0-59 months) who had any illness in the past two weeks, according to report of mother or caregiver | 576 | 1449 | 40.6 | 1.7 | 289 | 770 | 36.9 | 3.4 |
| 6040 | Children (0-59 months) who had any illness in the past two weeks but did not seek health care, according to report of mother or caregiver | 6 | 568 | 0.9 | 0.4 | 1 | 287 | 0.4 | 0.4 |
| 1060 | Children 6-23 months with hemoglobin <110g/L | 185 | 438 | 40.5 | 3.5 | 150 | 205 | 74.1 | 3.0 |
| 1070 | Children 0-59 months with height < -2 SD of the mean of the reference population for age | 278 | 1401 | 21.1 | 1.9 | 122 | 747 | 17.3 | 2.9 |



| | | В | Baseline 2013 | | | Second Follow-Up 2017 | | |
|------|--|------|---------------|-------|-----|-----------------------|-------|--|
| | Indicator | Ν | mean | SE | N | mean | SE | |
| 6090 | Average out-of-pocket household itemized health expenditure for the last month (L) | 1425 | 254.0 | 74.6 | 754 | 424.8 | 90.0 | |
| 6100 | Average household itemized expenditure for the last month (L) | 1442 | 4425.9 | 212.9 | 756 | 6105.8 | 516.9 | |
| 6080 | Average travel time to nearest health facility (min) | 1629 | 46.3 | 4.6 | 941 | 32.7 | 4.6 | |
| 5085 | Average distance to nearest health facility (km) | 442 | 3.1 | 0.5 | 684 | 3.1 | 0.5 | |
| 5120 | Average wait time at most recent visit to a health facility (min) | 852 | 93.3 | 7.5 | 592 | 96.2 | 9.5 | |
| 6082 | Average travel time to delivery location for most recent birth in the last two years (min) | 536 | 138.4 | 11.5 | 276 | 145.7 | 22.8 | |



APPENDIX E. INTERVENTION AND COMPARISON AREAS

E1 CHAPTER 1

E1.1 Report structure

The chapters in the main body of the report present characteristics of the surveyed SMI-Honduras sample in intervention areas only. Each table is presented for comparison areas only in Appendix D, and pooled intervention and comparison areas in Appendix E. Most tables take one of three types. Tabulations of select-only-one question types are mutually exclusive, so the proportions sum to 100%. Counts are shown for non-response ("Don't know" or "Decline to respond" recorded), but these cases are always excluded from the denominator.

Tabulations of select-all-that-apply question types do not have mutually-exclusive categories, as respondents can report more than one option, and thus proportions do not sum to 100%. The table shows affirmative cases (n) and non-missing cases (N). Non-response is the difference between non-missing cases (N) and the total sample eligible for that section of the questionnaire, indicated at the start of the chapter. Where statistics are reported for subpopulations, the size of the subpopulation is reported in the same table or the preceding table for straightforward comparison.

Tabulations of continuous variables, where respondents were requested to provide a numeric response, present the range and quartiles (25th percentile, median, 75th percentile) in order to illustrate the distribution of responses across the sample. Counts of non-response are listed in the table and excluded from the count of non-missing cases (N).



E2 CHAPTER 2: CHARACTERISTICS OF HOUSEHOLDS

This chapter provides a descriptive summary of the basic demographic, socioeconomic, and environmental characteristics of the households sampled for the SMI-Honduras Baseline and Second Follow-up Household Survey.

E2.1 Characteristics of Participating Households

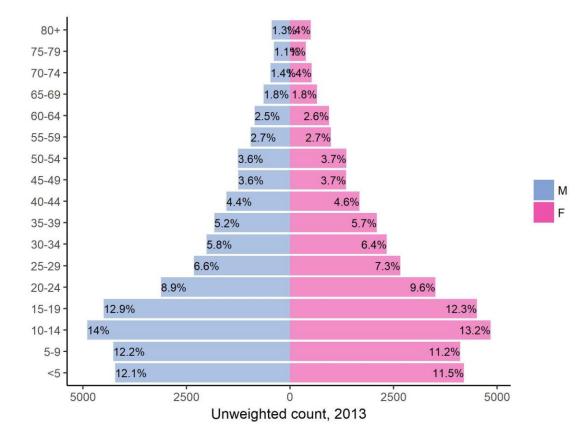
A total of 2,439 households in the Honduras second follow-up completed the household characteristics questionnaire. In the baseline, 2,970 completed the survey. The remainder of this chapter is dedicated to a summary of the basic demographic, socioeconomic, and environmental characteristics of the households completing the household characteristics questionnaire.

E2.2 Age and Sex Composition, SMI Census

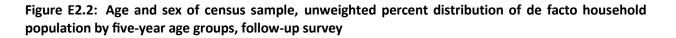
The unweighted distribution of the de facto household population in the surveyed households in the SMI-Honduras household census by five-year age groups and by sex is shown for baseline (Figure E2.1) and second follow-up (Figure E2.2). Honduras has a larger proportion of its population in the younger age groups than in the older age groups. Figure E2.2 indicates that in the second follow-up, just under 35% of the population in the Second Follow-up is under age 15 years, more than half (60%) of the population is in the economically productive age range (15-64), and the remaining 6% is age 65 and above.

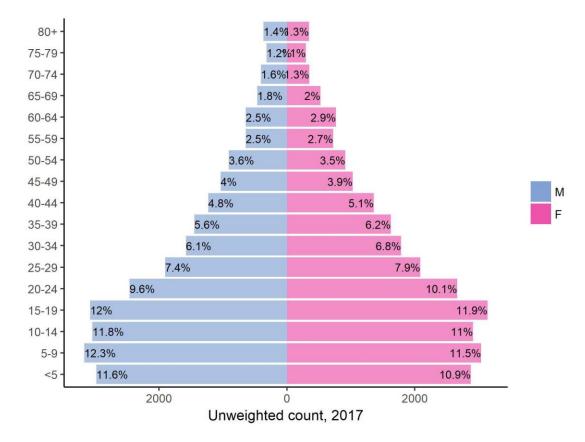


Figure E2.1: Age and sex of census sample, unweighted percent distribution of de facto household population by five-year age groups, baseline survey









E2.3 Household Characteristics, SMI Household Survey

The number of households, women and children in the sample are displayed in Table E2.1; and the percent distribution of households by head of household, number of usual members, and marital status are shown in Table E2.2.

Seventy five percent of households in Honduras identify as dual-headed in the second follow-up. Males are the head of the household in 5.8% of surveyed households in Honduras, with females as the head of household in the remaining 19.2%. The median household size in Honduras is five members, with another 15% of households having six or more members.

| Table E2.1: SMI household survey sample sizes: number of total households, women 15-49 years of age, |
|--|
| and children 0-59 months |

| | Baseline 2013 | Second Follow-Up 2017 |
|------------|---------------|-----------------------|
| Households | 2970 | 2439 |
| Women | 3580 | 3099 |
| Children | 3143 | 2492 |



Table E2.2: Household characteristics, SMI household sample

| | Base | eline 20 | 13 | Seco | v-Up 2017 | |
|-----------------------|------|----------|-----|------|-----------|-----|
| | n | % | SE | n | % | SE |
| Head of household | | | | | | |
| Dual-headed household | 2320 | 78.5 | 1.1 | 1826 | 75.0 | 1.3 |
| Single head, female | 550 | 18.3 | 1.0 | 459 | 19.2 | 1.1 |
| Single head, male | 100 | 3.3 | 0.3 | 154 | 5.8 | 0.7 |

Dual-headed households are those where (a) two individuals were identified as "head" by the respondent or (b) both the person identified as "head" and his or her spouse or partner are household members

| | N | DK/DTR | Min | 25th Percentile | Median | 75th Percentile | Max |
|--|------|--------|-----|--------------------|--------|--------------------|-----|
| Baseline 2013 | | | | | | | |
| Number of usual household members | 2970 | 0 | 1 | 4 | 5 | 7 | 16 |
| Second follow-up 2017 Number of usual household members | 2439 | 0 | 1 | 4 | 5 | 6 | 17 |

E2.4 Drinking Water Access and Treatment

E2.4.1 Sanitation facilities and waste disposal

A household's source of drinking water is an important determinant of the health status of household members. Contaminated drinking water can spread waterborne diseases, such as diarrhea or dysentery. Piped water, protected wells, and protected springs are expected to be relatively free of these diseases; whereas other sources like unprotected wells, rainwater, or surface water are more likely to carry disease-causing agents.

The percent distribution of households by source of drinking water, location of water source, and information about sanitation facilities is shown in Table E2.3. The majority of surveyed households (69.3%) have water piped to dwelling, and 30.7% of households have to go outside their home or yard to a water source.

Many households (37%) use a pour flush toilet and 36.3% of households use a flush toilet. Ten percent of households report having no toilet, compared to 15.5% at baseline.



Table E2.3: Household water source and sanitation facilities

| | Base | eline 20 | 13 | Second | d Follow | Second Follow-Up 2017 | | | |
|---------------------------------|----------|----------|-----|--------|----------|-----------------------|-----|--|--|
| | n | % | SE | n | % | | SE | | |
| Household water source | | | | | | | | | |
| Piped to dwelling | 2402 | 80.6 | 2.1 | 1706 | 69.3 | | 2.7 | | |
| Piped to yard/plot | 162 | 5.7 | 0.8 | 440 | 19.6 | | 2.5 | | |
| Protected dug well | 75 | 2.6 | 0.6 | 92 | 3.3 | | 0.9 | | |
| Unprotected dug well | 54 | 1.9 | 0.5 | 52 | 2.1 | | 0.5 | | |
| Bottled water | 46 | 1.2 | 0.4 | 56 | 2.0 | | 0.7 | | |
| Protected spring | 13 | 0.4 | 0.1 | 19 | 0.6 | | 0.2 | | |
| Unprotected spring | 27 | 0.9 | 0.2 | 14 | 0.5 | | 0.2 | | |
| Surface water | 37 | 1.3 | 0.3 | 7 | 0.5 | | 0.3 | | |
| Rainwater collection | 0 | 0.0 | - | 7 | 0.4 | | 0.1 | | |
| Tubewell/borehole | 64 | 2.1 | 0.7 | 9 | 0.3 | | 0.2 | | |
| Water jug | 11 | 0.4 | 0.1 | 6 | 0.2 | | 0.1 | | |
| Public tap/standpipe | 8 | 0.3 | 0.2 | 4 | 0.1 | | 0.1 | | |
| Tanker truck | 2 | 0.0 | - | 0 | 0.0 | | | | |
| Cart with small tank/drum | 0 | 0.0 | - | 0 | 0.0 | | | | |
| Other | 69 | 2.4 | 0.4 | 27 | 1.1 | | 0.3 | | |
| Don't know | 0 | - | - | 0 | - | | | | |
| Decline to respond | 0 | - | - | 0 | - | | | | |
| Time it takes to retrieve water | (min) | | | 1 | | | | | |
| Water on premises | 2710 | 91.2 | 1.3 | 2303 | 95.4 | | 0.9 | | |
| Less than 30 minutes | 216 | 7.6 | 1.1 | 112 | 4.2 | | 0.8 | | |
| 30 minutes or longer | 34 | 1.2 | 0.3 | 16 | 0.4 | | 0.3 | | |
| Don't know | 9 | - | - | 8 | - | | | | |
| Decline to respond | 1 | - | - | 0 | - | | | | |
| Sanitation facilities | | | | 1 | | | | | |
| Pour flush toilet | 1191 | 41.5 | 1.8 | 866 | 37.0 | | 2. | | |
| Flush toilet | 913 | 28.7 | 2.2 | 900 | 36.3 | | 3.2 | | |
| Pit latrine | 396 | 12.8 | 1.5 | 360 | 14.1 | | 1.9 | | |
| No toilet | 429 | 15.5 | 1.4 | 248 | 10.1 | | 1.7 | | |
| Dry toilet | 24 | 0.9 | 0.3 | 31 | 0.9 | | 0.2 | | |
| Other | 15 | 0.5 | 0.2 | 32 | 1.6 | | 0.4 | | |
| Don't know | 1 | - | - | 1 | - | | | | |
| Decline to respond | 1 | - | - | 1 | - | | | | |
| | | | | | | | | | |
| | Baseline | 2013 | | Second | Follow | -Up 2 | 017 | | |
| n | N | % | SE | n | N | % | SI | | |

E2.4.2 Cooking fuel sources

Shared toilet/facilities

218

2524

Cooking fuel source and the location for cooking food are included in Table E2.4. The percentage of households with a separate kitchen is also shown. The two most commonly reported cooking fuel sources used in households during the second follow-up are wood (84.7%) and gas tank (15%). Among those

0.7

9.1

206

2156

9.1

0.8



households with non-missing responses as to what cooking fuel sources they use, 72.3% report normally cooking food in the house, 15.2% normally cook food in a separate building, and 12.5% normally cook food outdoors. Seventy six percent of households have a separate kitchen.

| | | Baseline | 2013 | | Second Follow-Up 201 | | | |
|------------------------|------|----------|------|-----|----------------------|------|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Wood | 2509 | 2970 | 85.4 | 1.7 | 2046 | 2439 | 84.7 | 2.8 |
| Gas tank | 341 | 2970 | 10.3 | 1.4 | 371 | 2439 | 15.0 | 2.5 |
| Electricity | 506 | 2970 | 16.4 | 1.5 | 241 | 2439 | 8.8 | 1.2 |
| Straw/twigs/grass | 1 | 2970 | 0.0 | - | 20 | 2439 | 0.8 | 0.3 |
| Coal | 14 | 2970 | 0.5 | 0.1 | 6 | 2439 | 0.2 | 0.1 |
| Agricultural crops | 0 | 2970 | 0.0 | - | 0 | 2439 | 0.0 | - |
| No food cooked at home | 1 | 2970 | 0.0 | - | 1 | 2439 | 0.0 | - |
| Other | 2 | 2970 | 0.0 | - | 1 | 2439 | 0.1 | 0.1 |
| | | | | | | | | |

Table E2.4: Cooking fuel source and cooking location

*categories not mutually exclusive (select all that apply)

| | Base | eline 20 | 13 | Second Follow-Up 2017 | | | | | | | |
|--|------|----------|-----|-----------------------|------|-----|--|--|--|--|--|
| | n | % | SE | n | % | SE | | | | | |
| Location for cooking food, if cooking fuel source reported | | | | | | | | | | | |
| Inside house | 2114 | 71.2 | 1.7 | 1844 | 72.3 | 2.1 | | | | | |
| In a separate building | 401 | 13.8 | 1.2 | 319 | 15.2 | 1.5 | | | | | |
| Outdoors | 447 | 14.8 | 1.2 | 276 | 12.5 | 1.0 | | | | | |
| Other | 4 | 0.1 | 0.1 | 0 | 0.0 | - | | | | | |
| Don't know | 0 | - | - | 0 | - | - | | | | | |
| Decline to respond | 1 | - | - | 0 | - | - | | | | | |

| | | Second Follow-Up 2017 | | | | | | |
|---|------|-----------------------|------|-----|------|------|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Separate kitchen, if cooking fuel source reported and food cooked in the home | 1547 | 2109 | 73.1 | 1.7 | 1400 | 1844 | 75.5 | 2.2 |

E2.4.3 Household wealth

The median number of bedrooms per household is less than two (Table E2.5). Fourteen percent of households in the second follow-up own agricultural land and 16.4% of households rent agricultural land (Table E2.6).

The availability of durable consumer goods is a good indicator of a household's socioeconomic status. Table E2.6 shows the availability of selected consumer goods by household. The large majority of households (79.2%) have electricity, and the most commonly owned items are mobile phone (78.9%), television (59.8%), and refrigerator (44.8%). Many households (26.2%) own a bicycle and 14.6% own a motorcycle/scooter.



Table E2.5: Number of bedrooms per household

| | N | DK/DTR | Min | 25th Percentile | Median e | 75th Percentile | Max e |
|---|------|--------|-----|--------------------|-------------|--------------------|----------|
| Baseline 2013 | | | | | | | |
| Number of bedrooms | 2966 | 3 | 0 | 1 | 2 | 2 | 7 |
| Second follow-up 2017 Number of bedrooms | 2439 | 0 | 0 | 1 | 2 | 2 | 7 |

Table E2.6: Household assets

| | | Baseline | 2013 | Second Follow-Up 201 | | | | | |
|--------------------------------|---------|----------|------|----------------------|------|------|------|-----|--|
| | n | N | % | SE | n | Ν | % | SE | |
| Household assets | | | | | | | | | |
| Electricity | 2320 | 2969 | 77.4 | 2.8 | 1960 | 2439 | 79.2 | 3.6 | |
| Mobile phone | 2311 | 2970 | 76.2 | 1.6 | 1911 | 2438 | 78.9 | 2.3 | |
| Television | 1854 | 2970 | 60.2 | 2.5 | 1484 | 2439 | 59.8 | 3.5 | |
| Refrigerator | 1302 | 2969 | 41.6 | 2.3 | 1084 | 2438 | 44.8 | 3.3 | |
| Radio | 1733 | 2970 | 58.6 | 1.7 | 1067 | 2439 | 42.4 | 2.5 | |
| Sound system | 1019 | 2970 | 32.0 | 1.8 | 651 | 2439 | 26.7 | 2.1 | |
| Watch | 791 | 2968 | 25.3 | 1.3 | 534 | 2439 | 21.8 | 1.5 | |
| Bank account | 401 | 2933 | 12.7 | 1.0 | 408 | 2424 | 17.4 | 1.5 | |
| Computer | 181 | 2969 | 5.2 | 0.6 | 133 | 2435 | 5.1 | 0.8 | |
| Washing machine | 112 | 2969 | 3.2 | 0.6 | 125 | 2438 | 4.7 | 0.9 | |
| Guitar | 117 | 2969 | 3.7 | 0.4 | 88 | 2438 | 3.8 | 0.4 | |
| Landline phone | 103 | 2968 | 2.6 | 0.5 | 40 | 2433 | 1.2 | 0.3 | |
| Transportation assets | | | | | | | | | |
| Bicycle | 819 | 2968 | 26.4 | 1.7 | 562 | 2438 | 26.2 | 2.7 | |
| Motorcycle/scooter | 228 | 2968 | 7.3 | 0.7 | 358 | 2439 | 14.6 | 1.4 | |
| Car | 305 | 2968 | 9.6 | 0.8 | 239 | 2439 | 9.6 | 1.1 | |
| Truck | 23 | 2968 | 0.8 | 0.2 | 20 | 2438 | 0.7 | 0.2 | |
| Animal cart | 15 | 2969 | 0.5 | 0.1 | 8 | 2439 | 0.2 | 0.1 | |
| Agricultural assets: Livestock | ownersh | nip | | | | | | | |
| Chickens | 1813 | 2969 | 62.0 | 2.5 | 1502 | 2438 | 62.4 | 2.9 | |
| Horses, donkeys, or mules | 387 | 2968 | 13.2 | 1.3 | 274 | 2439 | 11.4 | 1.7 | |
| Pigs | 379 | 2969 | 12.8 | 1.4 | 258 | 2438 | 10.5 | 1.5 | |
| Cattle | 254 | 2966 | 8.4 | 0.9 | 161 | 2438 | 6.0 | 0.8 | |
| Sheep or goats | 11 | 2968 | 0.3 | 0.1 | 11 | 2439 | 0.5 | 0.2 | |



| | Base | eline 20 | 13 | Second Follow-Up 2017 | | | | | | |
|--|------|----------|-----|-----------------------|------|-----|--|--|--|--|
| | n | % | SE | n | % | SE | | | | |
| Agricultural assets: Own or rent agricultural land | | | | | | | | | | |
| No agricultural land | 1878 | 62.4 | 2.5 | 1659 | 68.1 | 2.7 | | | | |
| Owns agricultural land | 620 | 22.1 | 1.9 | 333 | 14.4 | 2.1 | | | | |
| Rents agricultural land | 437 | 15.0 | 1.4 | 418 | 16.4 | 1.8 | | | | |
| Shared/community-held land | 12 | 0.5 | 0.2 | 27 | 1.0 | 0.4 | | | | |
| Don't know | 18 | - | - | 2 | - | - | | | | |
| Decline to respond | 5 | - | - | 0 | - | - | | | | |

E2.5 Household expenditure

E2.5.1 Total expenditures by type

Households are surveyed about the amount of money spent over the last month. After reporting total household expenditures, households are then asked how much was spent on specific categories (e.g., food, housing, education, and medical care) over the last four weeks. Table E2.7 shows the itemized monthly expenditure per person living in the household summarized by expenditure quintile. All data are presented in current Lempira (L). Itemized expenditure information was sufficiently complete to report for 2268 households at the second follow-up. The lowest quintile in the study area spent less than 432 L per person over the last month in the second follow-up.

Table E2.8 shows the budget share, defined as the weighted average expenditure on each category across a quintile divided by the weighted average total itemized household expenditure in the same quintile. Table E2.8 shows that the poorest 20% of households in the study area spend 78.3% of their monthly expenditure on food, on average. In comparison, the wealthiest households spend 53.2% on food. The poorest households spent 1.5% of their expenditure on medical care, while the wealthiest spent 12%.

Table E2.7: Total itemized per- capita expenditure quintiles, Honduras Lempira

| | Ν | DK/DTR | p20 | p40 | p60 | p80 |
|--|------|--------|-----|-----|-----|------|
| Baseline 2013 | | | | | | |
| Per capita monthly household expenditure, current LCU | 2657 | 4 | 305 | 480 | 725 | 1125 |
| Second follow-up 2017 Per capita monthly household expenditure, current LCU | 2268 | 2 | 432 | 685 | 981 | 1588 |



| | Bottom quintile | 2nd quintile | 3rd quintile | 4th quintile | Top quintile |
|-----------------------------------|-----------------|--------------|--------------|-----------------|-----------------|
| Baseline 2013 | | | | | |
| Food | 80.5 | 78.5 | 74.0 | 69.3 | 59.3 |
| Alcoholic beverages and tobacco | 0.5 | 0.9 | 0.8 | 0.6 | 0.9 |
| Education expenses | 4.8 | 3.8 | 3.5 | 3.7 | 2.8 |
| Furniture and domestic appliances | 0.3 | 0.4 | 0.4 | 0.7 | 1.8 |
| Recreation | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 |
| Housing and utilities | 4.4 | 4.6 | 5.7 | 6.8 | 7.3 |
| Clothing and shoes | 2.9 | 4.0 | 6.6 | 7.3 | 7.0 |
| Transportation | 2.5 | 3.4 | 3.7 | 3.8 | 5.1 |
| Communication | 2.2 | 2.5 | 2.1 | 2.5 | 2.2 |
| Out-of-pocket medical expenses | 1.7 | 1.7 | 3.1 | 4.7 | 11.3 |
| Social security premiums | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| Private insurance premiums | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other costs to access health care | 0.2 | 0.1 | 0.1 | 0.3 | 2.2 |
| Second Follow-Up 2017 | | | | | |
| Food | 78.3 | 73.2 | 72.0 | 63.9 | 53.2 |
| Alcoholic beverages and tobacco | 0.6 | 1.3 | 0.6 | 0.7 | 0.4 |
| Education expenses | 5.9 | 6.0 | 5.2 | 5.0 | 5.3 |
| Furniture and domestic appliances | 0.5 | 0.1 | 0.3 | 0.8 | 2.8 |
| Recreation | 0.1 | 0.1 | 0.1 | 0.3 | 0.9 |
| Housing and utilities | 7.8 | 8.2 | 9.2 | 10.3 | 10.9 |
| Clothing and shoes | 1.6 | 4.0 | 4.8 | 7.4 | 6.0 |
| Transportation | 1.9 | 2.7 | 2.9 | 4.3 | 5.8 |
| Communication | 1.8 | 1.9 | 2.0 | 2.3 | 2.3 |
| Out-of-pocket medical expenses | 1.5 | 2.5 | 2.8 | 5.0 | 12.0 |
| Social security premiums | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 |
| Private insurance premiums | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Other costs to access health care | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |

Table E2.8: Itemized household expenditure by total household budget share

E2.5.2 Health expenditures

Of the 2268 households with expenditure data at the second follow-up, 517 reported having health expenditures in the last four weeks. Table E2.9 shows health expenditure by type among households reporting non-zero out-of-pocket health expenditure. Very few households had spending in each category.



| | Ν | DK/DTR | Min | 25th Percentil | Median e | 75th Percentil | Ma e |
|---|-----|--------|-----|-------------------|-------------|-------------------|---------|
| | | | | | | | |
| Baseline 2013 | | | | | | | |
| Care that required overnight stay in hospital/clinic | 624 | 2 | 0 | 0 | 0 | 0 | 5000 |
| Medications prescribed by health personnel | 623 | 3 | 0 | 0 | 0 | 500 | 2700 |
| Care by health professionals not requiring overnight stay | 624 | 2 | 0 | 0 | 0 | 0 | 2500 |
| Other costs associated with overnight stay in hospital/clinic | 624 | 2 | 0 | 0 | 0 | 0 | 1000 |
| Care or non-prescription medications from pharmacist | 624 | 2 | 0 | 0 | 0 | 0 | 900 |
| Diagnostic and laboratory tests, X-rays, blood tests | 623 | 3 | 0 | 0 | 0 | 0 | 700 |
| Dentists | 625 | 1 | 0 | 0 | 0 | 0 | 400 |
| Other health care products or services | 624 | 2 | 0 | 0 | 0 | 0 | 200 |
| Health products (glasses, hearing aids, prosthetics, etc.) | 625 | 1 | 0 | 0 | 0 | 0 | 150 |
| Care by traditional/alternative healers/birth attendants | 625 | 1 | 0 | 0 | 0 | 0 | 60 |
| Second Follow-Up 2017 | | | | | | | |
| Care that required overnight stay in hospital/clinic | 517 | 1 | 0 | 0 | 0 | 0 | 700 |
| Medications prescribed by health personnel | 516 | 2 | 0 | 0 | 89 | 700 | 700 |
| Care by health professionals not requiring overnight stay | 514 | 4 | 0 | 0 | 0 | 0 | 5000 |
| Other costs associated with overnight stay in hospital/clinic | 518 | 0 | 0 | 0 | 0 | 0 | 2000 |
| Care or non-prescription medications from pharmacist | 518 | 0 | 0 | 0 | 0 | 100 | 600 |
| Diagnostic and laboratory tests, X-rays, blood tests | 514 | 4 | 0 | 0 | 0 | 0 | 1000 |
| Dentists | 516 | 2 | 0 | 0 | 0 | 0 | 700 |
| Other health care products or services | 518 | 0 | 0 | 0 | 0 | 0 | 800 |
| Health products (glasses, hearing aids, prosthetics, etc.) | 518 | 0 | 0 | 0 | 0 | 0 | 250 |
| Care by traditional/alternative healers/birth attendants | 517 | 1 | 0 | 0 | 0 | 0 | 350 |

Table E2.9: Out-of-pocket medical expenditures by type, last four weeks, Honduras Lempira

E2.5.3 Source of health expenditure financing

Of the 2268 households with expenditure data at the second follow-up, 194 reported that members of the household went to a hospital and stayed overnight at least once during the last 12 months and paid for expenses associated with the overnight stays. The maximum paid for a hospital stay was 7000 L.

Table E2.10 shows the source and amount of financing for medical expenditures for overnight hospital stays. No single funding source was used by more than about 25% of households with hospital stays.



Table E2.10: Health care financing by source, last 12 months, Honduras Lempira

| | Ν | DK/DTR | Min | 25th N Percentile | /ledian | 75th Percentile | Ma |
|---|-----|--------|-----|----------------------|---------|--------------------|-------|
| | | | | | | | |
| Baseline 2013 | | | | | | | |
| Remittances from family or friends abroad | 344 | 0 | 0 | 0 | 0 | 0 | 11000 |
| Money from relatives or friends outside the household | 344 | 0 | 0 | 0 | 0 | 0 | 1e+0 |
| Items sold | 343 | 1 | 0 | 0 | 0 | 0 | 7500 |
| Any household member's current income | 341 | 3 | 0 | 0 | 0 | 1000 | 7000 |
| Savings | 342 | 2 | 0 | 0 | 0 | 0 | 4200 |
| Loan from a source other than family or friends | 344 | 0 | 0 | 0 | 0 | 0 | 3500 |
| Conditional cash transfer programs | 344 | 0 | 0 | 0 | 0 | 0 | 330 |
| Social security payments | 343 | 1 | 0 | 0 | 0 | 0 | 70 |
| Property sold | 344 | 0 | 0 | 0 | 0 | 0 | 60 |
| Reducing other household spending | 341 | 3 | 0 | 0 | 0 | 0 | 50 |
| Other source | 343 | 1 | 0 | 0 | 0 | 0 | 30 |
| Political donations or grants | 344 | 0 | 0 | 0 | 0 | 0 | 5 |
| Health insurance plan payment/reimbursement | 343 | 1 | 0 | 0 | 0 | 0 | |
| econd Follow-Up 2017 | | | | | | | |
| Remittances from family or friends abroad | 194 | 3 | 0 | 0 | 0 | 0 | 300 |
| Money from relatives or friends outside the household | 194 | 3 | 0 | 0 | 0 | 0 | 2e+ |
| Items sold | 194 | 3 | 0 | 0 | 0 | 0 | 620 |
| Any household member's current income | 194 | 3 | 0 | 0 | 0 | 0 | 320 |
| Savings | 194 | 3 | 0 | 0 | 0 | 1494.9 | 5e+(|
| Loan from a source other than family or friends | 195 | 2 | 0 | 0 | 0 | 703.9 | 2e+(|
| Conditional cash transfer programs | 194 | 3 | 0 | 0 | 0 | 0 | 120 |
| Social security payments | 194 | 3 | 0 | 0 | 0 | 0 | 50 |
| Property sold | 194 | 3 | 0 | 0 | 0 | 0 | 500 |
| Reducing other household spending | 194 | 3 | 0 | 0 | 0 | 0 | 250 |
| Other source | 194 | 3 | 0 | 0 | 0 | 0 | 80 |
| Political donations or grants | 194 | 3 | 0 | 0 | 0 | 0 | 200 |
| Health insurance plan payment/reimbursement | 194 | 3 | 0 | 0 | 0 | 0 | 500 |



E3 CHAPTER 3: GENERAL CHARACTERISTICS OF RESPONDENTS

This chapter summarizes the demographic characteristics, socioeconomic status, and health status of women of reproductive age (15-49 years) participating in the SMI-Honduras second follow-up household survey.

E3.1 Demographic Characteristics

E3.1.1 Age, marital status, relation to head of household

The age distribution of the de facto population of women of reproductive age participating in the women's health or pregnancy interviews in Honduras is shown in Figure E3.1 by five-year age groups. About 60% of all women participating in the second follow-up SMI-Honduras household survey were younger than 30 years of age, 27% were between the ages of 30 and 39, and 13% were between the ages of 40 and 49. While 24% of women reported being married and 45% being partnered, 28% indicated they were never married. Twenty one percent of women were reported at the SMI-Honduras census to be the head of household, 29.4% to be the spouse of the head of the household, and 26.3% to be the biological child of the head of the household.

Figure E3.1: Age of respondents, unweighted

One woman who participated in the baseline interview was excluded because she was unable to provide her age or an estimate of her age.

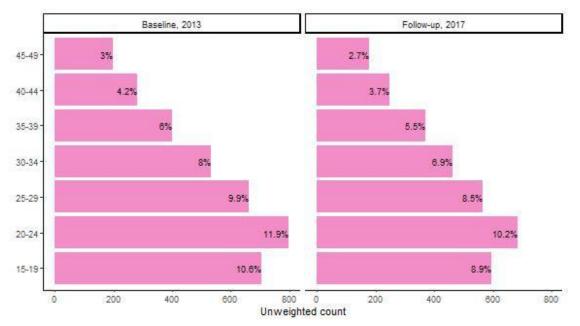




Table E3.1: Demographic characteristics of respondents

| | Baselin | e 2013 | Second Foll | ow-Up 2017 |
|---------------------------------|-----------|---------|-------------|------------|
| | n | % | n | 9 |
| Marital status | | | | |
| Single | 1134 | 31.7 | 909 | 29.3 |
| Married | 1007 | 28.1 | 729 | 23.5 |
| Civil union/partnered | 1316 | 36.8 | 1338 | 43.2 |
| Divorced | 5 | 0.1 | 4 | 0.1 |
| Separated | 81 | 2.3 | 94 | 3.0 |
| Widowed | 36 | 1.0 | 25 | 0.8 |
| Other | 1 | 0.0 | 0 | 0.0 |
| Don't know | 0 | 0.0 | 0 | 0.0 |
| Decline to respond | 0 | 0.0 | 0 | 0.0 |
| Respondent's relationship to he | ad of hou | isehold | | |
| Head of household | 352 | 9.8 | 658 | 21.2 |
| Spouse | 951 | 26.6 | 912 | 29.4 |
| Biological child | 936 | 26.1 | 816 | 26.3 |
| Adopted or stepchild | 22 | 0.6 | 28 | 0.9 |
| Grandchild | 77 | 2.2 | 72 | 2.3 |
| Niece/nephew | 23 | 0.6 | 18 | 0.6 |
| Parent | 5 | 0.1 | 0 | 0.0 |
| Sibling | 36 | 1.0 | 25 | 0.8 |
| Daughter-in-law/son-in-law | 196 | 5.5 | 145 | 4.7 |
| Sister-in-law/brother-in-law | 22 | 0.6 | 8 | 0.3 |
| Grandparent | 0 | 0.0 | 0 | 0.0 |
| Mother-in-law/father-in-law | 3 | 0.1 | 2 | 0.1 |
| Other relative | 16 | 0.4 | 15 | 0.5 |
| Unrelated person | 33 | 0.9 | 23 | 0.7 |
| Partner | 900 | 25.1 | 363 | 11.7 |
| - | 4 | 0.1 | 10 | 0.3 |
| Other | 4 | 0.1 | 4 | 0.1 |
| Don't know | 0 | 0.0 | 0 | 0.0 |
| Decline to respond | 0 | 0.0 | 0 | 0.0 |

*At baseline, marital status is reported by the respondent in the Census. In the second follow-up, marital status is reported by the woman at the start of the Household Survey

* "-" represents women who were missed in the census and added individually into the household survey, so relationship to the head of household was not registered.

E3.2 Education Attainment and Literacy

Ninety one percent of second follow-up survey participants had some formal education (Table E3.2). For 64.9% of these women, the highest level of education completed was primary schooling. Literacy was assessed by asking respondents to read from a card the following sentence: "La salud del niño es muy importante para su desarrollo en la vida." Eighty percent of women surveyed were able to read the whole sentence. Ten percent of women could not read the sentence at all.



Table E3.2: Education attainment and literacy

| | | Baseline 2013 | | | Seco | nd Follo | w-Up 20 |)17 |
|--------------------------|------|---------------|------|-----|------|----------|---------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Ever attended school | 3258 | 3536 | 90.7 | 0.9 | 2849 | 3099 | 91.3 | 1.2 |
| Attended literacy course | 579 | 3537 | 16.7 | 1.6 | 346 | 3087 | 10.1 | 1.3 |

| | Base | eline 20 | 13 | Second Follow-Up 201 | | | | | |
|-------------------------------------|------|----------|-----|----------------------|------|-----|--|--|--|
| - | n | % | SE | n | % | SE | | | |
| Educational attainment and literacy | | | | | | | | | |
| Primary | 2318 | 70.0 | 2.0 | 1828 | 64.9 | 2.5 | | | |
| Secondary | 432 | 13.5 | 1.0 | 492 | 17.0 | 1.4 | | | |
| High school | 441 | 14.3 | 1.3 | 421 | 13.8 | 1.5 | | | |
| University | 64 | 2.2 | 0.5 | 106 | 4.3 | 1.1 | | | |
| Don't know | 3 | - | - | 2 | - | | | | |
| Decline to respond | 0 | - | - | 0 | - | | | | |
| Literacy | | | | | | | | | |
| Can read entire sentence | 2315 | 63.5 | 1.7 | 2462 | 80.0 | 1.9 | | | |
| Cannot read at all | 421 | 14.8 | 1.4 | 311 | 10.1 | 1.2 | | | |
| Can read parts | 776 | 21.4 | 1.3 | 315 | 9.8 | 1.1 | | | |
| Visually impaired | 8 | 0.3 | 0.2 | 7 | 0.1 | 0.0 | | | |
| Don't know | 13 | - | - | 4 | - | | | | |
| Decline to respond | 4 | - | - | 0 | - | | | | |

E3.3 Employment

As summarized in Table E3.3, the vast majority of respondents in the second follow-up were homemakers (72.8%). Of the 348 women who reported being employed and working at the time of the interview, most (91.5%) identified "Employee" as their occupational role.



Table E3.3: Employment

| | Base | eline 20 | 13 | Secon | d Follow- | Up 2017 |
|--|---------|----------|--------|-------|-----------|---------|
| | n | % | SE | n | % | SE |
| Employment status | | | | | | |
| Homemaker | 2870 | 79.0 | 1.8 | 2388 | 72.8 | 2.3 |
| Employed/paid for work | 368 | 11.6 | 1.4 | 348 | 11.3 | 1.3 |
| Student | 217 | 6.8 | 0.8 | 216 | 9.4 | 1.1 |
| Self-employed | 0 | 0.0 | - | 105 | 4.6 | 0.7 |
| Employed by a family member without pay | 48 | 1.5 | 0.4 | 22 | 1.0 | 0.4 |
| Employed, but did not work in last week | 9 | 0.2 | 0.1 | 8 | 0.6 | 0.3 |
| Unable to work due to disability | 12 | 0.7 | 0.3 | 4 | 0.2 | 0.1 |
| Retired | 4 | 0.2 | 0.1 | 3 | 0.1 | 0.1 |
| Don't know | 9 | - | - | 3 | - | - |
| Decline to respond | 0 | - | - | 2 | - | - |
| Occupational role, among women employed ar | d being | paid for | r work | | | |
| Employee | 308 | 80.9 | 3.9 | 326 | 91.5 | 2.9 |
| Proprietor | 22 | 7.4 | 2.4 | 11 | 5.3 | 2.5 |
| Independent contractor | 28 | 6.3 | 1.8 | 9 | 3.0 | 2.0 |
| Employer | 10 | 5.4 | 2.6 | 1 | 0.3 | 0.3 |
| Don't know | 0 | - | - | 1 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |

* Self-employed option was not included in the baseline survey

E3.4 Exposure to Mass Media

Respondents were asked about their exposure to newspapers, radio, and television. As displayed in Table E3.4, among women who demonstrated full or partial literacy in the second follow-up, 25.3% had weekly exposure to newspapers. Forty seven percent of all women had weekly exposure to radio, and 61.4% had weekly exposure to television.



Table E3.4: Exposure to mass media

| | Base | eline 20 | 13 | Second Follow-Up 2017 | | | | | |
|----------------------------------|------|----------|-----|-----------------------|------|-----|--|--|--|
| | n | % | SE | n | % | SE | | | |
| Newspapers, among literate women | | | | | | | | | |
| Never | 1096 | 35.2 | 1.8 | 1636 | 55.5 | 2.6 | | | |
| At least once a week | 1165 | 39.0 | 1.8 | 626 | 25.3 | 2.4 | | | |
| Less than once a week | 745 | 25.8 | 1.4 | 506 | 19.2 | 1.6 | | | |
| Don't know | 11 | - | - | 7 | - | - | | | |
| Decline to respond | 0 | - | - | 0 | - | - | | | |
| Not applicable | 74 | - | - | 2 | - | - | | | |
| Radio | | | | | | | | | |
| At least once a week | 2179 | 62.8 | 1.5 | 1468 | 47.0 | 2.4 | | | |
| Never | 614 | 18.1 | 1.2 | 1118 | 36.2 | 2.1 | | | |
| Less than once a week | 700 | 19.0 | 1.2 | 499 | 16.8 | 1.4 | | | |
| Don't know | 4 | - | - | 6 | - | - | | | |
| Decline to respond | 0 | - | - | 0 | - | - | | | |
| Not applicable | 40 | - | - | 8 | - | - | | | |
| Television | | | | | | | | | |
| At least once a week | 2109 | 60.5 | 2.4 | 1821 | 61.4 | 2.9 | | | |
| Never | 950 | 27.7 | 2.3 | 983 | 29.7 | 3.1 | | | |
| Less than once a week | 423 | 11.8 | 0.9 | 278 | 8.9 | 0.8 | | | |
| Don't know | 3 | - | - | 7 | - | - | | | |
| Decline to respond | 1 | - | - | 0 | - | - | | | |
| Not applicable | 51 | - | - | 10 | - | - | | | |

E3.5 Access to Health Services

E3.5.1 Proximity to health care facilities

Table E3.5 - Table 3.7 display the responses to several survey questions that were used to assess access to health care facilities. Respondents were asked to estimate proximity to health care facilities in terms of distance (kilometers) and travel time. Not surprisingly, respondents typically had more difficulty estimating distance to health care facilities. As shown in the tables below, "Don't know" responses to the distance questions were exceedingly common.

Excluding the 1096 women who were unable to estimate the distance to the closest health facility in the second follow-up, 75% of women reported living 5 kilometers or less from a health facility (Table E3.5). Three-quarters of the sample indicated that it took less than 30 minutes to reach this facility by the usual means of transportation. One-quarter estimated the travel time from their household to the closest health facility to be 30 minutes or more.

Women were also asked for the travel distance and time to their usual health facility, if they had a usual health facility. Excluding the 952 women who did not know the distance to the facility in the second follow-up, three-quarters of the women reported traveling up to 5 kilometers, and three-quarters of the women could travel to the closest facility in less than 30 minutes (Table E3.6).



Of the 2,095 women who reported a recent health facility visit for themselves or for family members in the second follow-up, three-quarters traveled less than 4 kilometers for care. Twenty-five percent of women traveled 4 to 300 kilometers for care. Half of women traveled for less than 20 minutes, and one-quarter spent 45 minutes or more traveling for care. The longest travel time reported for a recent illness was approximately 40 hours.

Table E3.5: Proximity to health care facilities: nearest health facility

| | N | DK/DTR | Min | 25th Median Percentile | | 75th Percentile | Max e |
|--|----------------------------|------------|--------|---------------------------|---------|--------------------|-------------|
| Baseline 2013 Distance, km Travel time, min | 910 3401 | 2627 60 | 0 1 | 1 10 | 2 20 | 4 40 | 60 5400 |
| Second Follow-Up 2 Distance, km Travel time, min | 017 2003 2983 | 1096 15 | 0 1 | 1 10 | 2 20 | 5 30 | 200 2700 |

Table E3.6: Proximity to health care facilities: usual health facility

| | N | DK/DTR | Min | 25th Percentil | Median e | 75th Percentile | Max e |
|----------------------------------|--------------|------------|--------|-------------------|-------------|--------------------|-----------|
| Baseline 2013 | | | | | | | |
| Distance, km Travel time, min | 851 2470 | 2413 19 | 0 1 | 1 10 | 1.2 15 | 4 25 | 100 59 |
| Second Follow-Up 2 | 017 | | | | | | |
| Distance, km Travel time, min | 1705 1881 | 952 13 | 0 1 | 1 10 | 2 15 | 5 30 | 200 50 |

Table E3.7: Proximity to health care facilities: health facility for recent illness

| | Ν | DK/DTR | Min | 25th | Median | 75th | Max |
|--------------------|------|--------|-----|-----------|------------|------|------|
| | | | | Percentil | Percentile | | е |
| Baseline 2013 | | | | | | | |
| Distance, km | 618 | 1335 | 0 | 1 | 2 | 4 | 100 |
| Travel time, min | 1898 | 9 | 1 | 10 | 20 | 60 | 1800 |
| Second Follow-Up 2 | 017 | | | | | | |
| Distance, km | 1364 | 714 | 0 | 1 | 1 | 4 | 300 |
| Travel time, min | 2022 | 10 | 1 | 10 | 20 | 45 | 2400 |



E3.6 Health Status

E3.6.1 Current health status

Table E3.8 shows the self-rated current health status of all women participating in the survey. When asked to evaluate their current health status relative to the past year, 48.2% reported that their health was "about the same" in the second follow-up. While 39.7% reported that their health had improved, 12.1% reported worse health on the day of the interview, compared to last year. Eighty three percent could "easily" perform their daily activities (e.g., work, housework, and childcare). About 17% of women reported at least some degree of difficulty performing these tasks that was related to their health status.

| | Base | eline 20 | 13 | Second | d Follow-l | Jp 2017 |
|----------------------------|------------|----------|-----|--------|------------|---------|
| | n | % | SE | n | % | SE |
| Current health relative to | | | | | | |
| Better | 1340 | 38.0 | 1.4 | 1206 | 39.7 | 1.5 |
| Worse | 275 | 8.2 | 0.7 | 406 | 12.1 | 1.2 |
| About the same | 1917 | 53.8 | 1.5 | 1484 | 48.2 | 1.5 |
| Don't know | 5 | - | - | 3 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |
| Ability to perform daily a | activities | 5 | | | | |
| Easily | 3156 | 88.5 | 1.0 | 2560 | 83.0 | 1.3 |
| With some difficulty | 339 | 10.1 | 1.0 | 475 | 14.9 | 1.2 |
| With much difficulty | 39 | 1.3 | 0.3 | 63 | 2.0 | 0.4 |
| Unable to do | 3 | 0.1 | 0.0 | 0 | 0.0 | - |
| Don't know | 0 | - | - | 1 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |

Table E3.8: Current health status



| | Base | eline 20 | 13 | Second | d Follow | -Up 2017 |
|------------------------|----------|----------|--------|----------|----------|----------|
| | n | % | SE | n | % | SE |
| Days in the last month | that phy | sical he | alth w | as not g | ood | |
| No days | 2837 | 78.4 | 1.4 | 1987 | 61.5 | 1.7 |
| 1 to 3 days | 222 | 6.0 | 0.6 | 427 | 13.6 | 1.0 |
| 4 to 7 days | 460 | 15.7 | 1.3 | 680 | 24.9 | 1.4 |
| 7 to 29 days | 0 | 0.0 | - | 0 | 0.0 | - |
| All month | 0 | 0.0 | - | 0 | 0.0 | - |
| Don't know | 14 | - | - | 5 | - | - |
| Decline to respond | 4 | - | - | 0 | - | - |
| Days in the last month | that me | ntal hea | lth wa | s not go | od | |
| No days | 3061 | 85.4 | 1.1 | 2392 | 75.7 | 1.6 |
| 1 to 3 days | 189 | 5.8 | 0.7 | 275 | 9.6 | 0.8 |
| 4 to 7 days | 273 | 8.8 | 0.9 | 422 | 14.7 | 1.3 |
| 7 to 29 days | 0 | 0.0 | - | 0 | 0.0 | - |
| All month | 0 | 0.0 | - | 0 | 0.0 | - |
| Don't know | 13 | - | - | 9 | - | - |
| Decline to respond | 1 | - | - | 1 | - | - |

E3.6.2 Recent illness

Women were asked a series of questions about any illnesses or health problems they had in the two weeks preceding the interview. Out of the women in the second follow-up, 22.1% reported being sick during that time (Table E3.9). Of the 581 women who reported a recent illness, headache (19.4%), cough (12.2%), fever (8.7), and abdominal pain (6.9%) were the most commonly elicited specific complaints. Thirty seven percent of women specified a different health problem not listed in the questionnaire.

Table E3.9: Recent illness (in the last two weeks)

| | Baseline 2013 | | | | Second Follow-Up 2017 | | | | |
|---|---------------|------|------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Respondent was sick during the past two weeks | 816 | 3535 | 24.3 | 1.4 | 581 | 3095 | 22.1 | 1.5 | |



| | Bas | eline 20 | 013 | S | econd Fo | ollow-Up 2017 |
|-------------------------------------|---------|----------|-------|-----|----------|---------------|
| | n | % | SE | n | % | SI |
| Type of illness, among those sick i | n the p | ast two | weeks | | | |
| Headache | 208 | 26.6 | 2.2 | 127 | 19.4 | 2.2 |
| Cough | 112 | 11.0 | 1.6 | 69 | 12.2 | 2.3 |
| Fever | 118 | 12.9 | 1.7 | 62 | 8.7 | 1.6 |
| Abdominal pain | 78 | 9.1 | 1.5 | 48 | 6.9 | 1.3 |
| Gynecologic problem | 17 | 2.6 | 0.9 | 18 | 3.3 | 1.1 |
| Swelling in legs, ankles, or feet | 0 | 0.0 | - | 13 | 2.8 | 1.1 |
| Hypertension | 15 | 2.6 | 1.0 | 8 | 2.2 | 1.3 |
| Obstetric problem | 4 | 0.3 | 0.2 | 2 | 2.0 | 1.3 |
| Skin rash/infection | 10 | 1.0 | 0.4 | 8 | 1.3 | 0.6 |
| Asthma | 10 | 2.0 | 1.0 | 4 | 1.2 | 1.0 |
| Diarrhea without blood | 7 | 0.5 | 0.2 | 1 | 1.0 | 1.0 |
| Eye/ear infection | 6 | 0.7 | 0.4 | 5 | 0.7 | 0.3 |
| Toothache | 15 | 1.1 | 0.3 | 5 | 0.5 | 0.2 |
| Anemia | 2 | 0.1 | 0.1 | 1 | 0.4 | 0.4 |
| Stroke | 0 | 0.0 | - | 1 | 0.4 | 0.4 |
| Bronchitis | 1 | 0.7 | 0.7 | 1 | 0.2 | 0. |
| Diabetes | 6 | 1.5 | 0.8 | 2 | 0.1 | 0.1 |
| Malaria | 0 | 0.0 | - | 0 | 0.0 | |
| Tuberculosis | 0 | 0.0 | - | 0 | 0.0 | |
| Pneumonia | 0 | 0.0 | - | 0 | 0.0 | |
| Diarrhea with blood | 1 | 0.5 | 0.5 | 0 | 0.0 | |
| Diarrhea with vomiting | 3 | 0.2 | 0.1 | 1 | 0.0 | |
| Vomiting | 3 | 0.2 | 0.1 | 0 | 0.0 | |
| Measles | 0 | 0.0 | - | 0 | 0.0 | |
| Jaundice | 0 | 0.0 | - | 0 | 0.0 | |
| HIV/AIDS | 0 | 0.0 | - | 0 | 0.0 | |
| Paralysis | 0 | 0.0 | - | 0 | 0.0 | |
| Chest infection | 0 | 0.0 | - | 0 | 0.0 | |
| Blood in urine | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 196 | 26.5 | 2.6 | 203 | 36.6 | 3.0 |
| Don't know | 2 | - | - | 2 | - | |
| Decline to respond | 2 | - | - | 0 | - | |

Options for "Swelling in legs, ankles, or feet", "Blood in urine", and "Chest infection" were available only in the follow-up survey. In the baseline, "Chest infection" was included within the "Cough" answer choice.

E3.6.3 Utilization of health services

Table E3.10 summarizes data regarding the utilization of health services among the 581 women who reported an illness in the two weeks preceding the second follow-up interview. Two hundred (36.7%) of these women sought care at a health care facility. Many of these women attended a CESAMO health unit (50.8%); another 20.3% attended a CESAR clinic. Only seven women were hospitalized for their recent illness (9.3% of those who sought care).



| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | |
|--------------------------------|-----|---------|--------|-----|-----------------------|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Sought care for recent illness | 295 | 816 | 37.7 | 2.5 | 200 | 581 | 36.7 | 3.4 |
| Admitted to hospital for care* | 7 | 77 | 6.4 | 2.6 | 7 | 49 | 9.3 | 3.8 |

Table E3.10: Utilization of health services for illness in the last two weeks

Among women who sought care at a public or private hospital, health center/clinic, mobile clinic, or other health facility; public health unit; private office; or pharmacy

| | Bas | eline 20 |)13 | Secor | nd Follow | -Up 2017 |
|---------------------------------|--------|----------|-----|-------|-----------|----------|
| | n | % | SE | n | % | SE |
| Type of facility where care was | sought | | | | | |
| CESAMO | 102 | 29.6 | 4.7 | 107 | 50.8 | 6.7 |
| CESAR | 104 | 36.5 | 5.6 | 34 | 20.3 | 6.0 |
| Private health clinic | 19 | 7.0 | 2.4 | 19 | 13.6 | 4.6 |
| Public hospital | 14 | 3.9 | 1.2 | 9 | 3.1 | 1.2 |
| Private doctor's office | 25 | 12.5 | 3.3 | 13 | 2.5 | 0.8 |
| Public mobile clinic | 4 | 1.7 | 1.0 | 3 | 2.0 | 1.9 |
| CMI | 3 | 1.2 | 0.9 | 2 | 0.6 | 0.5 |
| Pharmacy | 7 | 1.6 | 0.8 | 2 | 0.5 | 0.4 |
| Other public health facility | 1 | 0.2 | 0.2 | 1 | 0.4 | 0.4 |
| Private mobile clinic | 2 | 0.4 | 0.3 | 1 | 0.4 | 0.4 |
| Traditional healer | 3 | 1.3 | 0.9 | 1 | 0.4 | 0.4 |
| Private hospital | 4 | 1.1 | 0.6 | 1 | 0.3 | 0.3 |
| Other private health facility | 1 | 0.3 | 0.3 | 0 | 0.0 | - |
| Community health worker | 1 | 0.1 | 0.1 | 0 | 0.0 | - |
| Other | 5 | 2.7 | 2.0 | 6 | 5.1 | 2.8 |
| Don't know | 0 | - | - | 1 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |

* Women who attended care at a CESAMO or CESAR were not asked about hospitalization.

E3.6.4 Insurance coverage

Less than 2% of women reported being covered by any type of health insurance in the second follow-up (Table E3.11).



Table E3.11: Insurance coverage

| | Base | eline 20 | 13 | Second Follow-Up 2017 | | | |
|--------------------|------|----------|-----|-----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| No insurance | 3486 | 98.8 | 0.3 | 3033 | 98.0 | 0.6 | |
| IHSS | 30 | 0.7 | 0.2 | 48 | 1.5 | 0.5 | |
| Private insurance | 10 | 0.4 | 0.2 | 11 | 0.2 | 0.1 | |
| Armed forces | 0 | 0.0 | - | 0 | 0.0 | - | |
| Other | 5 | 0.1 | 0.1 | 5 | 0.3 | 0.2 | |
| Don't know | 4 | - | - | 2 | - | - | |
| Decline to respond | 2 | - | - | 0 | - | - | |

E3.6.5 Other barriers to health care access

There are many other barriers to accessing health care. Women who reported that they sometimes or never sought care when they felt sick were asked what reasons prevented them from receiving health care when it was needed. Interviewers were instructed to ask in an open-ended manner for all applicable reasons, and to mark the appropriate response options in the questionnaire based on the woman's response. Table E3.12 summarizes the responses to this section. The most commonly cited factors influencing health care access in the second follow-up were the preference for treatment at home (36.9%) and the belief that the health center does not have sufficient medicines (20.7%). Twelve percent of women did not believe they were ill enough to seek treatment. Access and quality of care were also important barriers: 10.9% of women said the health center was too far away, 6.2% said care was too expensive, and 3% said the health center personnel were too difficult to deal with.



 Table E3.12: Other barriers to health care utilization, women 15-49 years of age who were sick in the last two weeks but did not seek care

| | | Baselin | e 2013 | | Seco | nd Foll | ow-Up 2 | 2017 |
|--|-----|---------|--------|-----|------|---------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Treated self at home | 308 | 518 | 56.3 | 4.2 | 114 | 372 | 36.9 | 5.3 |
| Health center does not have sufficient medicines | 37 | 518 | 7.3 | 1.6 | 74 | 372 | 20.7 | 3. |
| Too busy with work, children, or other commitments | 26 | 518 | 4.0 | 1.1 | 62 | 372 | 14.5 | 2. |
| Not sick enough to seek treatment | 108 | 518 | 21.8 | 2.9 | 36 | 372 | 11.6 | 3. |
| Health center is too far away | 30 | 518 | 5.9 | 1.6 | 42 | 372 | 10.9 | 2. |
| Care is too expensive | 29 | 518 | 7.8 | 2.4 | 20 | 372 | 6.2 | 1. |
| It is difficult to deal with health center personnel | 2 | 518 | 0.7 | 0.6 | 17 | 372 | 3.0 | 1. |
| Health center is not well-equipped | 4 | 518 | 0.6 | 0.3 | 6 | 372 | 2.3 | 1. |
| Could not find transportation | 5 | 518 | 1.2 | 0.8 | 5 | 372 | 2.2 | 1. |
| Could not afford transportation | 8 | 518 | 1.9 | 1.2 | 8 | 372 | 1.9 | 0 |
| Tried, but was refused care | 0 | 518 | 0.0 | - | 6 | 372 | 1.9 | 1. |
| Tried, but no staff was at the center | 15 | 518 | 2.2 | 0.8 | 3 | 372 | 1.9 | 1 |
| Health center infrastructure is poor | 1 | 518 | 1.0 | 1.0 | 8 | 372 | 1.2 | 0. |
| Did not want to go alone | 6 | 518 | 0.6 | 0.2 | 9 | 372 | 1.0 | 0 |
| Health center personnel not knowledgeable | 2 | 518 | 0.2 | 0.1 | 5 | 372 | 0.8 | 0. |
| Was previously mistreated | 1 | 518 | 1.0 | 1.0 | 4 | 372 | 0.4 | 0 |
| Do not trust the personnel | 7 | 518 | 1.2 | 0.6 | 3 | 372 | 0.3 | 0 |
| Did not know where to go | 5 | 518 | 0.7 | 0.3 | 0 | 372 | 0.0 | |
| Could not get permission to go to the doctor | 3 | 518 | 0.5 | 0.3 | 0 | 372 | 0.0 | |
| Religious or cultural beliefs | 0 | 518 | 0.0 | - | 0 | 372 | 0.0 | |
| Other | 25 | 518 | 6.4 | 1.7 | 87 | 372 | 23.2 | 5 |

*categories not mutually exclusive (select all that apply)



E4 CHAPTER 4: EXPOSURE TO HEALTH SYSTEM INTERVENTIONS

This chapter summarizes the exposure of women to four health system interventions: community health worker interventions, breastfeeding interventions, child nutrition interventions, and child health interventions.

E4.1 Exposure to Community Health Workers

Respondents were asked about their exposure to community health workers. Eight percent of women reported meeting with a community health worker in the month preceding the second follow-up interview (Table E4.1). Six percent met only once, and 1.2% met two or more times.

Table E4.1: Exposure to community health workers, women 15-49 years

| | Base | eline 20 | 13 | Second | Second Follow-Up 2017 | | | |
|--------------------|------|----------|-----|--------|-----------------------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| Did not meet | 3256 | 94.0 | 0.8 | 2830 | 92.3 | 1.2 | | |
| One time | 193 | 4.7 | 0.7 | 197 | 6.5 | 1.2 | | |
| Two times | 29 | 0.8 | 0.2 | 38 | 0.9 | 0.2 | | |
| Three times | 8 | 0.1 | 0.0 | 10 | 0.3 | 0.1 | | |
| Four or more times | 11 | 0.3 | 0.2 | 2 | 0.0 | - | | |
| Don't know | 31 | - | - | 22 | - | - | | |
| Decline to respond | 3 | - | - | 0 | - | - | | |

Referral and advice services provided by community health workers are summarized in Table E4.2. Among women who met with a community health worker in the last month during the second follow-up, family planning methods or counseling was the most common service provided (47.2%). Advice about vaccination for children (36.6%) and child nutrition counseling (35.8%) was also frequently reported.

Table E4.2: Services provided by community health workers, women 15-49 years

| | Baseline 2013 | | | | Second Follow-Up 2017 | | | |
|---|---------------|-----|------|-----|-----------------------|-----|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Family planning methods or counseling | 107 | 251 | 45.3 | 4.3 | 117 | 255 | 47.2 | 6.4 |
| Vaccination for children | 127 | 251 | 45.7 | 4.9 | 121 | 256 | 36.6 | 4.5 |
| Child nutrition counseling | 107 | 251 | 41.2 | 4.6 | 102 | 256 | 35.8 | 4.3 |
| Referral for antenatal care | 36 | 251 | 13.8 | 3.2 | 58 | 255 | 19.1 | 3.1 |
| Referral for postnatal care | 26 | 249 | 9.0 | 2.2 | 58 | 255 | 15.5 | 3.2 |
| Referral for voluntary HIV/syphilis counseling and testing* | 32 | 251 | 15.1 | 3.8 | 52 | 255 | 15.0 | 3.1 |
| Information, education, and communication sessions (IEC) | 28 | 251 | 18.0 | 4.6 | 46 | 255 | 14.0 | 3.3 |
| Referral for in-facility delivery | | 250 | 10.3 | 2.3 | 40 | 255 | 10.9 | 2.9 |

* For the prevention of HIV/syphilis transmission from mother to child



| | Second Follow-Up 2017 | | | | | | |
|--------------------------------------|-----------------------|-----|------|-----|--|--|--|
| | n | Ν | % | SE | | | |
| Deworming | 82 | 256 | 27.3 | 4.8 | | | |
| Micronutrients | 86 | 255 | 24.8 | 3.7 | | | |
| Diarrhea treatment with ORS and zinc | 67 | 255 | 18.7 | 3.7 | | | |
| Other | 46 | 254 | 20.8 | 4.8 | | | |

Questions about these topics were not asked at baseline. They were added to the second follow-up survey to track exposure to SMI interventions.

E4.2 Satisfaction with Community Health Workers

Women who met with a community health worker in the month preceding the interview were asked to assess their satisfaction with the following: number of visits, information provided by community health workers, and respectfulness of community health workers. Results are displayed in Table E4.3.



| | Bas | eline 20 | 013 | Seco | nd Follow- | Up 2017 |
|--------------------------|----------|-----------|---------|----------|-------------|---------|
| | n | % | SE | n | % | SE |
| Satisfaction with numb | er visit | s from | commu | unity he | ealth work | ers |
| Very dissatisfied | 55 | 23.3 | 3.9 | 21 | 8.2 | 3.2 |
| Dissatisfied | 14 | 5.9 | 2.0 | 10 | 6.5 | 3.2 |
| Satisfied | 167 | 65.4 | 4.1 | 198 | 78.6 | 4.6 |
| Very satisfied | 21 | 5.4 | 1.6 | 26 | 6.7 | 1.6 |
| Don't know | 4 | - | - | 4 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |
| Satisfaction of knowled | lge and | l trainin | g of co | mmun | ity health | workers |
| Very dissatisfied | 55 | 24.2 | 4.0 | 22 | 9.6 | 3.8 |
| Dissatisfied | 19 | 6.4 | 1.9 | 9 | 3.3 | 2.0 |
| Satisfied | 153 | 62.6 | 4.1 | 195 | 79.7 | 4.8 |
| Very satisfied | 25 | 6.8 | 1.8 | 30 | 7.4 | 1.6 |
| Don't know | 9 | - | - | 3 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |
| Satisfaction with inform | nation | provide | d by co | ommur | ity health | workers |
| Very dissatisfied | 57 | 24.3 | 4.0 | 22 | 10.4 | 4.0 |
| Dissatisfied | 13 | 4.7 | 1.8 | 7 | 2.8 | 2.0 |
| Satisfied | 158 | 64.0 | 4.2 | 199 | 79.7 | 4.9 |
| Very satisfied | 25 | 7.0 | 1.8 | 28 | 7.1 | 1.6 |
| Don't know | 8 | - | - | 3 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |
| Satisfaction with respe | ctfulne | ss show | n by c | ommur | nity health | workers |
| Very dissatisfied | 56 | 24.0 | 4.1 | 21 | 9.1 | 3.7 |
| Dissatisfied | 13 | 6.1 | 2.3 | 6 | 2.7 | 2.0 |
| Satisfied | 163 | 64.1 | 3.8 | 202 | 81.7 | 4.7 |
| Very satisfied | 22 | 5.8 | 1.6 | 26 | 6.5 | 1.5 |
| Don't know | 6 | - | - | 4 | - | - |
| Decline to respond | 1 | - | - | 0 | - | - |

Table E4.3: Satisfaction with community health workers, women 15-49 years of age who met with community health workers in the last month

E4.3 Counseling provided in health facilities

Respondents who had visited a health facility in the last 12 months (1,804 women at the second follow-up) were asked whether they were given counseling about certain topics by health center personnel. Approximately 12.2% of women in the second follow-up reported receiving guidance or advice about breastfeeding in the 12 months preceding the interview (Table E4.4). Approximately 14.7% of women in the second follow-up reported receiving guidance or advice about child nutrition in the 12 months preceding the interview (Table E4.4). Approximately 16.1% of women in the second follow-up reported receiving guidance or advice about child nutrition in the 12 months preceding the interview (Table E4.4). Approximately 16.1% of women in the second follow-up reported receiving guidance or advice about danger signs for children's health in the 12 months preceding the interview (Table E4.4).



| | Baseline 2013 | | | | Second Follow-Up 2017 | | | | |
|---------------------------------------|---------------|------|------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| On breastfeeding | 565 | 1894 | 23.9 | 1.5 | 250 | 1791 | 12.2 | 2.6 | |
| On child nutrition | 618 | 1893 | 26.7 | 1.7 | 315 | 1792 | 14.7 | 2.3 | |
| On danger signs for children's health | 675 | 1894 | 29.4 | 1.8 | 292 | 1789 | 16.1 | 2.9 | |

 Table E4.4: Exposure to breastfeeding, child nutrition, and child health interventions, women 15-49

 years

E4.4 Counseling provided in health facilities to women with children

In the follow-up survey, respondents who had visited a health facility in the last 12 months and who had children (1,583 women at the second follow-up) were asked whether they were given counseling about certain topics by health center personnel.

Table E4.5: Counseling provided in health facilities to women with children

| | Second Follow-Up 2017 | | | | | |
|--------------------------------------|-----------------------|------|------|-----|--|--|
| | n | Ν | % | SE | | |
| Deworming | 358 | 1575 | 21.1 | 3.1 | | |
| Micronutrients | 277 | 1574 | 14.1 | 2.3 | | |
| Diarrhea treatment with ORS and zinc | 235 | 1570 | 12.7 | 2.1 | | |

Questions about these topics were not asked at baseline. They were added to the second follow-up survey to track exposure to SMI interventions.

E5 CHAPTER 5: FAMILY PLANNING

This chapter summarizes key indicators related to the knowledge of, access to, need for, and use of family planning methods among women of reproductive age (15-49 years) participating in the SMI-Honduras second follow-up household survey.

Family planning questions were asked only to women of reproductive age who were married or partnered. During the SMI-Honduras baseline household survey, family planning questions were asked to women whose marital status was reported as "married" or "partnered" by the SMI-Honduras household census respondent. During the second follow-up, the family planning section was instead conditioned on a question about marital status asked to the respondent herself at the start of the woman's health interview. This captured participants who had a change in marital status between the census and household survey and participants whose marital status was incorrectly recorded in the census. At the baseline, 2,293 women qualified for the family planning questions, and at the second follow-up, 2,067 women qualified.



E5.1 Knowledge of the Fertile Period

The successful use of family planning methods depends on an understanding of when during the menstrual cycle a woman is most likely to conceive. This is especially true for traditional methods such as the rhythm method (i.e., periodic abstinence) and the withdrawal method. To assess knowledge of the fertile period, women were asked if there are certain days when a woman is more likely to become pregnant, and when during the menstrual cycle those days occur. Responses to these questions are summarized in Table E5.1. In the second follow-up, 67.7% of women indicated that there were certain days when a woman is more likely to become pregnant, and of these women, only 11.5% identified the correct timing of the fertile period (halfway between two periods).

Table E5.1: Knowledge of the fertile period, women 15-49 years of age who are married or partnered

| | | Baseline | 2013 | | Seco | nd Follo | w-Up 20 |)17 |
|---------------------------------|------|----------|------|-----|------|----------|---------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Knowledge of the fertile period | 1373 | 2036 | 66.7 | 2.1 | 1220 | 1818 | 67.7 | 2.5 |

| | Base | eline 20 | 13 | Sec | cond Follo | w-Up 2017 |
|--------------------------------|-----------|----------|------|--------|------------|----------------|
| | n | % | SE | n | % | SE |
| Knowledge of timing of fertile | e period, | among | wome | en who | know of | fertile period |
| Just before period | 104 | 8.6 | 1.3 | 132 | 9.3 | 1.1 |
| During period | 31 | 2.4 | 0.7 | 19 | 1.8 | 0.6 |
| Just after period | 1012 | 79.6 | 1.8 | 845 | 76.6 | 2.1 |
| Halfway between periods | 130 | 9.4 | 1.1 | 96 | 11.5 | 2.0 |
| Other | 1 | 0.0 | - | 5 | 0.8 | 0.5 |
| Don't know | 94 | - | - | 123 | - | - |
| Decline to respond | 1 | - | - | 0 | - | - |

E5.2 Use of Family Planning Methods

E5.2.1 Current use

The coverage of contraceptive methods is one of the indicators most frequently used to assess the success of family planning program activities. It is also widely used as a determinant of fertility. Women who said they had heard of a family planning method were asked if they were currently using that method. Table E5.2 displays the percentage of all women using at least one family planning method, as well as the percentage of women reporting use of more than one family planning method at the time of the interview. Sixty five percent of all survey respondents in the second follow-up reported current use of at least one family planning method.

Women considered "in need" of family planning methods are those who are married or partnered, excluding those who report the following characteristics: does not have sexual relations, virgin,



menopausal, infertile, hysterectomy, pregnant, or wants to become pregnant. Even women not considered "in need" of contraception may use a method. Table E5.3 shows the uptake of modern family planning methods among all married and partnered women (65.4%), and among women considered "in need" of contraception (77.2%).

Table E5.2: Current use of family planning methods, women 15-49 years of age who are married or partnered

| | | Baseline | 2013 | Second Follow-Up 2017 | | | | |
|--|------|----------|------|-----------------------|------|------|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Currently in need of contraception | 1861 | 2290 | 75.1 | 1.5 | 1738 | 2067 | 82.2 | 1.5 |
| Current use of any method, among all women | 1448 | 2290 | 56.4 | 2.1 | 1409 | 2067 | 65.4 | 2.2 |

Table E5.3: Current use of modern family planning methods, women 15-49 years of age who are married or partnered and in need of contraception

| | Baseline 2013 | | | | Seco | nd Follov | w-Up 20 |)17 |
|------------------------------|---------------|------|------|-----|------|-----------|---------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Current use of any method | 1408 | 1861 | 72.4 | 2.5 | 1362 | 1738 | 77.2 | 2.1 |
| Current use of modern method | 1302 | 1861 | 66.4 | 2.6 | 1313 | 1738 | 75.1 | 2.2 |

| | Base | eline 20 | 13 | Second Follow-Up 2017 | | | |
|--|----------|----------|-----|-----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| Number of methods the respondent is curr | ently us | ing | | | | | |
| Not using any family planning methods | 463 | 28.0 | 2.5 | 377 | 22.9 | 2.1 | |
| Using 1 family planning method | 1379 | 71.2 | 2.4 | 1360 | 77.1 | 2.1 | |
| Using 2 family planning methods | 19 | 0.8 | 0.3 | 1 | 0.0 | - | |
| Not using any family planning methods | 0 | 0.0 | - | 0 | 0.0 | - | |
| Using 1 family planning method | 0 | 0.0 | - | 0 | 0.0 | - | |
| Using 2 family planning methods | 0 | 0.0 | - | 0 | 0.0 | - | |

Table E5.4 displays the percentage of all women using specific family planning methods. The methods most commonly in use during the second follow-up are injectables (22.9%) and female sterilization (18.4%).



| | | Baselin | e 2013 | | Seco | ond Follo | w-Up 2 | 017 |
|----------------------------------|-----|---------|--------|-----|------|-----------|--------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Injectable | 663 | 2284 | 22.8 | 1.3 | 558 | 2065 | 22.9 | 1.4 |
| Female sterilization | 236 | 2284 | 11.4 | 1.2 | 314 | 2067 | 18.4 | 1.5 |
| Oral contraceptive | 230 | 2280 | 9.9 | 1.2 | 202 | 2064 | 10.6 | 1.4 |
| Intrauterine device (IUD) | 149 | 2284 | 5.4 | 0.7 | 168 | 2067 | 7.2 | 1.(|
| Implant | 4 | 2282 | 0.3 | 0.2 | 76 | 2067 | 3.0 | 0. |
| Rhythm | 65 | 2284 | 3.0 | 0.6 | 36 | 2067 | 1.6 | 0. |
| Male condom | 58 | 2284 | 2.4 | 0.5 | 35 | 2066 | 1.1 | 0. |
| Withdrawal | 38 | 2284 | 1.6 | 0.4 | 14 | 2066 | 0.4 | 0. |
| Lactational amenorrhea | 12 | 2284 | 0.3 | 0.1 | 2 | 2067 | 0.1 | |
| Emergency contraception (Plan B) | 0 | 2284 | 0.0 | - | 1 | 2067 | 0.1 | 0. |
| Male sterilization | 1 | 2284 | 0.0 | - | 0 | 2066 | 0.0 | |
| Female condom | 0 | 2284 | 0.0 | - | 0 | 2066 | 0.0 | |
| Diaphragm | 1 | 2284 | 0.0 | - | 0 | 2067 | 0.0 | |
| Sponge | 0 | 2284 | 0.0 | - | 0 | 2065 | 0.0 | |
| Other modern method | 0 | 2284 | 0.0 | - | 0 | 2065 | 0.0 | |
| Other traditional method | 1 | 2284 | 0.0 | - | 1 | 2061 | 0.0 | |

Table E5.4: Current use of family planning methods, by type of method, for women 15-49 years of agewho are married or partnered

* categories not mutually exclusive (select all that apply)

E5.3 Sources of Family Planning Methods

Information on where women obtain contraceptive methods is important for family planning program managers. The places where the currently-used family planning methods were acquired are summarized in Table E5.5.

The public sector is the source most commonly reported by users of most modern family planning methods, including female sterilization. Pharmacies are important sources for injectables, the pill, and male condoms. Women report learning about traditional methods in the public sector, from friends or relatives, or at church (Table E5.6).

| Table E5.5: Source of modern family planning methods, women 15-49 years of age who are married or |
|---|
| partnered |

| | Ba | seline 20 | 013 | Second Follow-Up 2017 | | | | |
|-------------------------|-----|-----------|-----|-----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| Injectable | | | | | | | | |
| CESAMO | 271 | 42.4 | 4.5 | 342 | 57.3 | 5.0 | | |
| CESAR | 293 | 43.3 | 4.6 | 107 | 17.7 | 3.5 | | |
| Pharmacy | 42 | 6.6 | 1.2 | 62 | 17.0 | 4.3 | | |
| Community health worker | 7 | 0.8 | 0.3 | 25 | 4.4 | 1.5 | | |
| Private health clinic | 14 | 1.9 | 0.6 | 7 | 1.7 | 0.8 | | |

(continued)

| , | | | | | | |
|-------------------------------|-----|------------|-----------------|--------|------------|-------------------|
| | n | % | SE | n | % | SE |
| Private doctor's office | 5 | 0.8 | 0.4 | 3 | 0.6 | 0.4 |
| CMI | 8 | 1.1 | 0.4 | 6 | 0.4 | 0.3 |
| Public hospital | 12 | 1.7 | 0.6 | 2 | 0.2 | 0.2 |
| Other public health facility | 2 | 0.2 | 0.2 | 1 | 0.1 | 0.1 |
| Private mobile clinic | 1 | 0.2 | 0.2 | 1 | 0.1 | 0.1 |
| Public mobile clinic | 2 | 0.4 | 0.3 | 0 | 0.0 | - |
| Private hospital | 0 | 0.0 | - | 0 | 0.0 | - |
| Other private health facility | 1 | 0.1 | 0.1 | 0 | 0.0 | - |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | |
| Store | 0 | 0.0 | - | 0 | 0.0 | |
| Market | 0 | 0.0 | - | 0 | 0.0 | |
| Church | 0 | 0.0 | - | 0 | 0.0 | |
| Friend/relative | 2 | 0.2 | 0.2 | 0 | 0.0 | |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 3 | 0.3 | 0.2 | 2 | 0.5 | 0.4 |
| Don't know | 2 | - | - | 0 | - | |
| Decline to respond | 1 | - | - | 0 | - | |
| Female sterilization | | | | | | |
| Public hospital | 164 | 69.0 | 5.1 | 248 | 76.4 | 3.9 |
| Private health clinic | 20 | 9.2 | 3.2 | 11 | 5.6 | 2.3 |
| Private hospital | 5 | 1.0 | 0.4 | 13 | 2.8 | 1.5 |
| CESAMO | 17 | 5.1 | 1.9 | 3 | 2.4 | 1.9 |
| Private mobile clinic | 2 | 0.5 | 0.3 | 2 | 2.0 | 1.9 |
| СМІ | 2 | 0.4 | 0.3 | 6 | 1.7 | 1.0 |
| Other private health facility | 3 | 1.0 | 0.6 | 4 | 1.1 | 0.8 |
| Other public health facility | 6 | 3.4 | 2.3 | 4 | 0.7 | 0.4 |
| Private doctor's office | 2 | 3.1 | 2.8 | 7 | 0.7 | 0.4 |
| Public mobile clinic | 3 | 3.7 | 2.8 | 3 | 0.3 | 0.2 |
| Community health worker | 0 | 0.0 | - | 1 | 0.3 | 0.3 |
| Pharmacy | 0 | 0.0 | - | 0 | 0.0 | |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | |
| Store | 0 | 0.0 | - | 0 | 0.0 | |
| Market | 0 | 0.0 | - | 0 | 0.0 | |
| Church | 0 | 0.0 | - | 0 | 0.0 | |
| Friend/relative | 0 | 0.0 | - | 0 | 0.0 | |
| CESAR | 1 | 0.3 | 0.3 | 0 | 0.0 | |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 10 | 3.2 | 1.7 | 11 | 6.0 | 2.2 |
| Don't know | 0 | - | - | 1 | - | |
| Decline to respond | 1 | - | - | 0 | - | |
| Oral contraceptive | | | | | | |
| CESAMO | 68 | 24.7 | 4.2 | 115 | 55.3 | 7.0 |
| Pharmacy | 66 | 27.2 | 4.6 | 45 | 28.0 | 6.5 |
| CESAR | 84 | 42.0 | 6.2 | 31 | 12.1 | 4.7 |
| Public mobile clinic | 0 | 0.0 | - | 1 | 0.9 | 0.8 |
| Community health worker | 1 | 0.3 | 0.3 | 2 | 0.6 | 0.5 |
| community incurrin worker | - | | | | | |
| CMI | 3 | 0.8 | 0.5 | 2 | 0.5 | 0.4 |
| , | | 0.8 0.0 | 0.5 - | 2 1 | 0.5 0.1 | |
| CMI | 3 | | 0.5 - 3.1 | | | 0.4 0.1 0.2 |

(continued)

| ontinucuj | | | | | | |
|--|----------|------|------------|----------|--------------|------|
| | n | % | SE | n | % | SE |
| Other public health facility | 1 | 0.3 | 0.3 | 0 | 0.0 | |
| Private doctor's office | 0 | 0.0 | - | 0 | 0.0 | |
| Private mobile clinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other private health facility | 1 | 0.3 | 0.3 | 0 | 0.0 | |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | |
| Store | 1 | 0.2 | 0.2 | 0 | 0.0 | |
| Market | 0 | 0.0 | - | 0 | 0.0 | |
| Church | 0 | 0.0 | - | 0 | 0.0 | |
| Friend/relative | 0 | 0.0 | - | 0 | 0.0 | |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 1 | 0.3 | 0.3 | 4 | 2.4 | 1.6 |
| Don't know | 0 | - | - | 0 | - | |
| Decline to respond | 0 | - | - | 0 | - | |
| ntrauterine device (IUD) | | | I | | | |
| CESAMO | 56 | 38.1 | 5.6 | 85 | 49.7 | 7.7 |
| CESAR | 34 | 20.5 | 4.9 | 85 19 | 49.7 10.6 | 3.6 |
| | 54 18 | 12.3 | 4.9 3.8 | | 10.8 | 2.9 |
| Public hospital Private doctor's office | 18 | 6.2 | | 23 | | |
| Private health clinic | | - | 3.0 | 12 | 10.0 | 5.0 |
| | 15 | 6.5 | 1.9 2.2 | 6 | 5.0 | 2.9 |
| CMI Privata haspital | 8 | 5.9 | | 9 | 4.8 | 1.8 |
| Private hospital | 3 | 1.7 | 1.0 | 3 | 3.9 | 2.6 |
| Private mobile clinic | 0 | 0.0 | - | 3 | 2.6 | 1.5 |
| Public mobile clinic | 0 | 0.0 | - | 2 | 0.9 | 0.8 |
| Other public health facility | 2 | 1.8 | 1.3 | 1 | 0.4 | 0.4 |
| Community health worker | 0 | 0.0 | - | 1 | 0.4 | 0.4 |
| Other private health facility | 1 | 0.4 | 0.4 | 0 | 0.0 | |
| Pharmacy | 0 | 0.0 | - | 0 | 0.0 | |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | |
| Store | 1 | 0.8 | 0.8 | 0 | 0.0 | |
| Market | 0 | 0.0 | - | 0 | 0.0 | |
| Church | 0 | 0.0 | - | 0 | 0.0 | |
| Friend/relative | 0 | 0.0 | - | 0 | 0.0 | |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 5 | 5.8 | 3.3 | 4 | 1.3 | 0.8 |
| Don't know | 1 | - | - | 0 | - | |
| Decline to respond | 0 | - | - | 0 | - | |
| mplant | | | | | | |
| CESAMO | 1 | 41.4 | 28.9 | 55 | 66.0 | 12.6 |
| CESAR | 2 | 37.8 | 26.8 | 14 | 25.0 | 12.9 |
| Church | 0 | 0.0 | - | 2 | 1.9 | 1.8 |
| СМІ | 0 | 0.0 | - | 1 | 1.8 | 1.9 |
| Other public health facility | 0 | 0.0 | - | 1 | 1.5 | 1.5 |
| Community health worker | 0 | 0.0 | - | 2 | 1.5 | 1.1 |
| Pharmacy | 0 | 0.0 | - | 1 | 0.5 | 0.5 |
| Private health clinic | 0 | 0.0 | - | 1 | 0.3 | 0.4 |
| Public hospital | 1 | 7.4 | 7.9 | 0 | 0.0 | |
| Public mobile clinic | 0 | 0.0 | - | 0 | 0.0 | |
| Private hospital | 0 | 0.0 | - | 0 | 0.0 | |
| | - | | | | | |
| Private doctor's office | 1 | 13.4 | 13.8 | 0 | 0.0 | |



(continued)

| | n | % | SE | n | % | SE |
|-------------------------------|----|------|------|----|------|------|
| Other private health facility | 0 | 0.0 | - | 0 | 0.0 | |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | |
| Store | 0 | 0.0 | - | 0 | 0.0 | |
| Market | 0 | 0.0 | - | 0 | 0.0 | |
| Friend/relative | 0 | 0.0 | - | 0 | 0.0 | |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 0 | 0.0 | - | 1 | 1.4 | 1.4 |
| Don't know | 0 | - | - | 2 | - | |
| Decline to respond | 0 | - | - | 1 | - | |
| lale condom | | | | | | |
| Pharmacy | 14 | 18.8 | 6.3 | 12 | 41.8 | 11.0 |
| CESAMO | 23 | 28.3 | 6.9 | 15 | 37.1 | 12.0 |
| CESAR | 18 | 48.6 | 10.5 | 5 | 13.4 | 5. |
| Market | 0 | 0.0 | - | 1 | 4.6 | 4. |
| CMI | 1 | 1.5 | 1.5 | 1 | 2.5 | 2. |
| Public hospital | 1 | 1.5 | 1.5 | 1 | 0.5 | 0. |
| Public mobile clinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other public health facility | 0 | 0.0 | - | 0 | 0.0 | |
| Private hospital | 0 | 0.0 | - | 0 | 0.0 | |
| Private health clinic | 0 | 0.0 | - | 0 | 0.0 | |
| Private doctor's office | 0 | 0.0 | - | 0 | 0.0 | |
| Private mobile clinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other private health facility | 0 | 0.0 | - | 0 | 0.0 | |
| Community health worker | 0 | 0.0 | - | 0 | 0.0 | |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | |
| Store | 0 | 0.0 | - | 0 | 0.0 | |
| Church | 0 | 0.0 | - | 0 | 0.0 | |
| Friend/relative | 0 | 0.0 | - | 0 | 0.0 | |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 1 | 1.3 | 1.3 | 0 | 0.0 | |
| Don't know | 0 | - | - | 0 | - | |
| Decline to respond | 0 | - | - | 0 | - | |

reported receiving them in baseline or follow-up.

Table E5.6: Source of knowledge about traditional family planning methods, women 15-49 years of agewho are married or partnered

| | Ba | seline 20 | 013 | Second Follow-Up 2017 | | | | |
|------------------------------|----|-----------|-----|-----------------------|-------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| Lactational amenorrhea | | | | | | | | |
| Public hospital | 0 | 0.0 | - | 1 | 100.0 | 0.0 | | |
| Public mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - | | |
| Other public health facility | 0 | 0.0 | - | 0 | 0.0 | - | | |
| Private hospital | 0 | 0.0 | - | 0 | 0.0 | - | | |
| Private health clinic | 0 | 0.0 | - | 0 | 0.0 | - | | |
| Private doctor's office | 0 | 0.0 | - | 0 | 0.0 | - | | |
| Private mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - | | |



| Other private health facility | 0 | 0.0 | - | 0 | 0.0 | - |
|---|--------|------------|----------|--------|------------|------|
| Pharmacy | 0 | 0.0 | - | 0 | 0.0 | - |
| Community health worker | 0 | 0.0 | - | 0 | 0.0 | - |
| Traditional healer | 1 | 11.9 | 11.3 | 0 | 0.0 | - |
| Store | 0 | 0.0 | - | 0 | 0.0 | - |
| Market | 0 | 0.0 | - | 0 | 0.0 | - |
| Church | 1 | 7.8 | 7.1 | 0 | 0.0 | - |
| Friend/relative | 6 | 57.5 | 15.3 | 0 | 0.0 | - |
| CESAR | 1 | 13.9 | 12.8 | 0 | 0.0 | - |
| CESAMO | 1 | 8.9 | 8.6 | 0 | 0.0 | - |
| CMI Tama 2 Debadiais | 0 | 0.0 | - | 0 | 0.0 | - |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Other Desite language | 0 | 0.0 | - | 0 | 0.0 | - |
| Don't know | 2 | - | - | 1 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |
| Rhythm | 20 | 25.0 | | | | |
| Friend/relative | 28 | 35.9 | 7.5 | 11 | 31.4 | 11.4 |
| CESAR | 10 | 20.0 | 8.1 | 6 | 21.0 | 10.3 |
| Church | 11 | 23.9 | 8.5 | 3 | 13.8 | 9.8 |
| Private health clinic | 0 | 0.0 | - | 2 | 6.2 | 4.5 |
| CESAMO | 10 | 10.5 | 3.5 | 3 | 5.5 | 3.2 |
| Other private health facility | 0 | 0.0 | - | 1 | 0.5 | 0.5 |
| Public hospital | 1 | 1.4 | 1.4 | 0 | 0.0 | - |
| Public mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Other public health facility | 0 | 0.0 | - | 0 | 0.0 | - |
| Private hospital | 0 | 0.0 | - | 0 | 0.0 | - |
| Private doctor's office | 0 | 0.0 | - | 0 | 0.0 | - |
| Private mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Pharmacy | 0 | 0.0 | - | 0 | 0.0 | - |
| Community health worker | 0 | 0.0 | - | 0 | 0.0 | - |
| Traditional healer | 1 | 1.7 | 1.5 | 0 | 0.0 | - |
| Store | 0 | 0.0 | | 0 | 0.0 | - |
| Market CMI | 0 | 0.0 | - | 0 | 0.0 | - |
| | 0 | 0.0 | - | 0 | 0.0 | - |
| Type 3 Polyclinic Other | 0 3 | 0.0 | - 4.1 | 0 | 0.0 | - |
| Don't know | 5 1 | 6.5 | 4.1 | 6 4 | 21.6 | 10.4 |
| Decline to respond | 0 | - | - | 4 | - | - |
| · | 0 | - | - | 0 | - | - |
| Withdrawal | 12 | 20.4 | 0.1 | - | 20.4 | 17.0 |
| Friend/relative | 12 | 30.4 | 9.1 | 5 | 38.4 | 17.0 |
| CESAMO | 3 | 7.3 | 5.4 | 1 | 5.9 | 5.6 |
| Private doctor's office | 0 | 0.0 | - | 1 | 2.9 | 3.1 |
| Public hospital Public mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - |
| | 0 | 0.0 | - | 0 | 0.0 | - |
| Other public health facility | 1 | 2.1 | 2.1 | 0 | 0.0 | - |
| Private hospital | 0 | 0.0 | - | 0 | 0.0 | - |
| Private health clinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Private mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Other private health facility | 0 0 | 0.0 | - | 0 | 0.0 | - |
| Pharmacy Community health worker | 0 | 0.0 | - | 0 0 | 0.0 | - |
| Community health worker Traditional healer | 1 | 0.0 2.3 | - วว | 0 | 0.0 | - |
| Store | 1 | 2.3 0.0 | 2.3 | 0 | 0.0 0.0 | - |
| 500 | 0 | 0.0 | - | U | 0.0 | - |



| Market | 0 | 0.0 | - | 0 | 0.0 | - |
|--------------------|---|------|------|---|------|------|
| Church | 3 | 5.9 | 3.5 | 0 | 0.0 | - |
| CESAR | 8 | 32.4 | 12.0 | 0 | 0.0 | - |
| СМІ | 0 | 0.0 | - | 0 | 0.0 | - |
| Type 3 Polyclinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Other | 6 | 19.5 | 8.2 | 4 | 52.9 | 18.8 |
| Don't know | 4 | - | - | 1 | - | - |
| Decline to respond | 0 | - | - | 2 | - | - |

E5.4 Non-Use and Interruption of Use of Family Planning Methods

Non-use and interruption of use of family planning methods are major concerns for family planning program managers.

E5.4.1 Prevalence of interruption

The prevalence of interruption and non-use of family planning methods is summarized in Table E5.7. Of women participating in the second follow-up survey, 82.2% are considered "in need" of contraception (i.e., they did not report any of the following: does not have sexual relations, virgin, menopausal, infertile, hysterectomy, pregnant, or wants to become pregnant). Among these women in need, 2.7% reported any interruption in the use of family planning methods in the previous year.

Table E5.7: Interruption and non-use of family planning methods, among women 15-49 years of age who are married or partnered and in need of contraception

| | | Baseline | 2013 | | | Second | Follow | -Up 2017 |
|-----------------------|----|----------|------|-----|----|--------|--------|----------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Discontinuation rate* | 42 | 1861 | 2.7 | 0.6 | 48 | 1738 | 2.7 | 0.8 |

* any interruption in use during the last year, among women in need of contraception

| | Base | eline 20 | 13 | Second | Second Follow-Up 2017 | | | | | | |
|---|------|----------|-----|--------|-----------------------|-----|--|--|--|--|--|
| _ | n | % | SE | n | % | SE | | | | | |
| Number of interruptions in use during the last year | | | | | | | | | | | |
| none | 1819 | 97.3 | 0.6 | 1690 | 97.3 | 0.8 | | | | | |
| once | 42 | 2.7 | 0.6 | 36 | 2.4 | 0.8 | | | | | |
| 2-6 times per year | 0 | 0.0 | - | 12 | 0.4 | 0.2 | | | | | |
| 7-12 times per year | 0 | 0.0 | - | 0 | 0.0 | - | | | | | |
| >12 times per year | 0 | 0.0 | - | 0 | 0.0 | - | | | | | |

E5.4.2 Reasons for non-use

Women who interrupted use of family planning methods in the year preceding the interview, and those who indicated they were not using any method on the day of the interview, were asked to specify all



reasons why they did not use a method. The interviewer matched responses provided by the respondent to a list of reasons in the questionnaire (Table E5.8). The most commonly cited reasons for non-use at the time of the second follow-up interview were, do not like to use contraception (18.7%), respondent is not sexually active (16.3%), and respondent is trying to become pregnant (8.5%).

Table E5.8: Reasons for non-use of family planning methods, women 15-49 years of age who are marriedor partnered and who are not using family planning methods

| | | Baselir | ie 2013 | | Se | cond Fo | ollow-Up | 2017 |
|---|-----|---------|---------|-----|-----|---------|----------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Do not like to use contraception | 172 | 774 | 19.3 | 2.5 | 133 | 638 | 18.7 | 2.5 |
| Not sexually active | 123 | 774 | 13.8 | 1.8 | 102 | 638 | 16.3 | 2.0 |
| Trying to become pregnant | 80 | 774 | 14.5 | 2.3 | 46 | 638 | 8.5 | 1.8 |
| Currently pregnant | 51 | 774 | 5.6 | 1.0 | 52 | 638 | 7.1 | 1.5 |
| Spouse or partner opposed to use | 31 | 774 | 3.2 | 0.9 | 46 | 638 | 5.8 | 1.4 |
| Married | 65 | 774 | 7.1 | 1.9 | 31 | 638 | 5.5 | 1.7 |
| Opposed to use | 42 | 774 | 4.8 | 1.2 | 34 | 638 | 5.3 | 1.2 |
| Concerned about side effects | 29 | 774 | 3.0 | 0.7 | 35 | 638 | 5.3 | 1.6 |
| Using contraception interferes with normal body processes | 15 | 774 | 1.5 | 0.4 | 42 | 638 | 4.8 | 1.0 |
| Infrequently sexually active | 56 | 774 | 9.1 | 1.9 | 30 | 638 | 4.1 | 1.3 |
| Menopausal | 48 | 774 | 7.0 | 1.5 | 20 | 638 | 4.0 | 1.6 |
| Breastfeeding | 40 | 774 | 2.9 | 0.5 | 33 | 638 | 3.1 | 0.7 |
| Unmarried | 38 | 774 | 4.7 | 1.2 | 11 | 638 | 2.6 | 1.2 |
| No menstrual period since giving birth | 13 | 774 | 1.2 | 0.3 | 21 | 638 | 2.6 | 0.8 |
| Using contraception is uncomfortable | 10 | 774 | 0.9 | 0.3 | 21 | 638 | 2.6 | 0.8 |
| Against religious beliefs | 12 | 774 | 1.3 | 0.4 | 11 | 638 | 1.5 | 0.6 |
| Infertile | 38 | 774 | 10.9 | 2.6 | 9 | 638 | 1.2 | 0.5 |
| Knows no method | 9 | 774 | 0.8 | 0.3 | 3 | 638 | 0.6 | 0.5 |
| The health facility is too far away | 6 | 774 | 0.6 | 0.3 | 4 | 638 | 0.5 | 0.3 |
| Knows no source for methods | 6 | 774 | 0.9 | 0.6 | 3 | 638 | 0.4 | 0.3 |
| The method is too expensive | 2 | 774 | 0.2 | 0.1 | 2 | 638 | 0.4 | 0.3 |
| No method was available | 1 | 774 | 0.1 | 0.1 | 2 | 638 | 0.4 | 0.3 |
| Have undergone hysterectomy | 10 | 774 | 0.6 | 0.2 | 3 | 638 | 0.3 | 0.2 |
| Preferred method was not available | 2 | 774 | 0.2 | 0.2 | 1 | 638 | 0.3 | 0.3 |
| Health facility staff difficult to deal with | 1 | 774 | 0.1 | 0.1 | 1 | 638 | 0.3 | 0.3 |
| Others opposed to use | 5 | 774 | 0.4 | 0.2 | 2 | 638 | 0.2 | 0.1 |
| Could not afford transportation | 2 | 774 | 0.2 | 0.2 | 2 | 638 | 0.2 | 0.1 |
| Mistrust health center staff | 5 | 774 | 0.5 | 0.2 | 2 | 638 | 0.2 | 0.2 |
| Virgin | 1 | 774 | 0.1 | 0.1 | 0 | 638 | 0.0 | - |
| Could not find transportation to a health facility | 1 | 774 | 0.1 | 0.1 | 0 | 638 | 0.0 | - |
| Other | 65 | 774 | 10.0 | 2.0 | 55 | 638 | 11.6 | 2.6 |

* "Using contraception affects health" was an option offered in the second follow-up, but was not available at baseline.56 women selected this as a reason for not using family planning at the second follow-up.

* categories not mutually exclusive (select all that apply)



E5.5 Family Planning Intentions and Decision-Making

E5.5.1 Participation in family planning decision

In this setting in the second follow-up, 73.4% of women report that decisions about family planning methods are jointly made by the respondent and her partner. In only 2.7% of cases, the decision to use family planning methods is up to the respondent's partner alone.

Table E5.9: Participation in family planning decision-making, women 15-49 years of age who are married or partnered and are currently using family planning methods

| | Base | eline 20 | 13 | Second Follow-Up 201 | | | | |
|------------------------------------|------|----------|-----|----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| Joint decision | 1400 | 81.2 | 1.6 | 1315 | 73.4 | 2.3 | | |
| Mostly the respondent | 238 | 12.3 | 1.1 | 338 | 23.0 | 2.4 | | |
| Mostly respondent's spouse/partner | 100 | 5.5 | 0.9 | 41 | 2.7 | 0.8 | | |
| Others | 8 | 0.9 | 0.5 | 11 | 0.6 | 0.3 | | |
| Not applicable - not partnered | 2 | 0.1 | 0.1 | 7 | 0.4 | 0.2 | | |
| Don't know | 8 | - | - | 8 | - | - | | |
| Decline to respond | 6 | - | - | 6 | - | - | | |

E5.5.2 Informed choice

With respect to use of family planning methods, "informed choice" refers to whether or not health care workers described other options for family planning methods, possible side effects associated with the method of choice, and how to respond to side effects if they occur. This information can be used to help women select an appropriate contraceptive method, and to assist users in coping with side effects (thus decreasing discontinuation rates for non-permanent methods).

Table E5.10 shows the percent of women currently using family planning methods who were told about other options for contraception (51.8% of women in the second follow-up).

Table E5.10: Family planning decision-making, informed choice, women 15-49 years of age who are married or partnered and who are currently using family planning methods

| | | Baseline | 2013 | | Second Follow-Up 2017 | | | | |
|---|-----|----------|------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Informed about other family planning options by a doctor, nurse, or community health worker | 859 | 1753 | 48 | 2.2 | 921 | 1725 | 51.8 | 3.3 | |



E5.6 Exposure to Family Planning Information

E5.6.1 Family planning messages delivered by health care providers

Respondents were asked about their exposure to family planning messages delivered by health care providers (Table E5.11). Forty nine percent of women in the second follow-up reported being advised about family planning at the health care facility they attend during the past 12 months. Seventeen percent of all respondents indicated that they had been visited by a health promoter who provided information about family planning in the last 12 months. Just 6.5% of respondents who had not attended a health facility in the last 12 months were visited by a health promoter who provided information about family planning.

Table E5.11: Family planning messages delivered by health care providers in the last 12 months, women15-49 years of age who are married or partnered

| | Baseline 2013 Second Follow | | | | | | w-Up 2 | 017 |
|---|-----------------------------|------|------|-----|-----|------|--------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Discussion about family planning methods with staff member at a health facility | 716 | 1179 | 56.9 | 2.3 | 594 | 1137 | 49.1 | 3.4 |
| Discussion about family planning methods during health promoter visit | 300 | 2279 | 12.0 | 1.1 | 359 | 2050 | 16.8 | 1.9 |
| Visit by promotor, among women who had not visited a health facility | 36 | 1095 | 4.6 | 1.1 | 67 | 912 | 6.5 | 1.2 |

E5.7 Age at First Birth

E5.7.1 Age at first birth

Seventy two percent of respondents in the second follow-up had ever given birth (Table E5.12). Of these women, the median age of the women when their first child was born was 19 years old. Only a quarter of women were 21 years old or older when their first child was born. Eight percent of women reported a history of stillbirth, miscarriage, and/or abortion.

Table E5.12: Parity and age at first birth, women 15-49 years of age

| | | Baseline | 2013 | | Second Follow-Up 2017 | | | | | |
|---|------|----------|------|-----|-----------------------|------|------|-----|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| Ever given birth | 2862 | 3537 | 72.5 | 1.5 | 2509 | 3099 | 72.5 | 1.6 | | |
| Ever had a stillbirth, miscarriage, or abortion | 315 | 3525 | 8.5 | 0.8 | 267 | 3095 | 7.9 | 0.8 | | |



| | Ν | DK/DTR | Min | 25th Percentile | Median e | 75th Percentile | Max e |
|---|------|--------|-----|--------------------|-------------|--------------------|----------|
| Baseline 2013 | | | | | | | |
| Age at first birth, among parous women | 2843 | 15 | 10 | 17 | 19 | 21 | 39 |
| Second follow-up 2017 Age at first birth, among parous women | 2507 | 0 | 10 | 17 | 19 | 21 | 43 |

E6 CHAPTER 6: MATERNAL HEALTH CARE

This chapter summarizes key indicators pertaining to antenatal care, delivery care, and postpartum care for the most recent live birth in the last two years as reported by women of reproductive age (15-49 years) participating in the SMI-Honduras second follow-up household survey. Participating women were interviewed about all live births in the last five years, but to reduce the impact of recall bias, results reported here are for each woman's most recent birth in the last two years. At the baseline, 2765 women were interviewed about at least one birth in the last two years. At the second follow-up, 2346 women were interviewed about births in the last two years.

E6.1 Antenatal Care

To reduce recall bias, data pertaining to antenatal care are summarized for a woman's most recent birth in the last two years.

E6.1.1 Antenatal care coverage

Early and regular checkups by trained medical providers are important in assessing the physical status of women during pregnancy and provide an opportunity to intervene in a timely manner if any problems are detected. The Maternal and Child Health Questionnaire captured information from women on both overall coverage of antenatal care and the content of care received. To obtain information on source of antenatal care, interviewers recorded all persons a woman consulted for care. Timing of antenatal care was assessed by asking women how many weeks or months pregnant they were when they attended their first antenatal care visit. The same details were recorded for up to eight antenatal care visits.

The percentage of women with a birth in the last two years who attended at least one antenatal care visit for the most recent birth, and the percent distribution of timing of care among those who received any antenatal care are presented in Table E6.1. Definition of "most recent birth" changed between baseline and second follow-up. The type of facility where antenatal care was sought is detailed in Table E6.2.

Among women with a child under the age of 2 in the second follow-up, 96.6% attended at least one antenatal care visit and 92.4% of women had at least one antenatal care visit with a doctor or professional nurse. At the second follow-up, 58.2% of women had an antenatal care visit during the first trimester (first 12 weeks) with a doctor or professional nurse, compared to 43.9% at the baseline. The median age of gestation at the first antenatal care visit during the second follow-up was 2 months.



Table E6.1: Antenatal care coverage for the most recent birth in the last two years, women 15-49 years of age

| | | nd Follo | ow-Up 2017 | | | | | |
|--|------|----------|------------|-----|------|------|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Attended at least one antenatal care visit | 2616 | 2757 | 95.0 | 0.7 | 2269 | 2346 | 96.6 | 0.4 |
| Attended at least one antenatal care visit with doctor or professional nurse | 2305 | 2758 | 83.4 | 1.7 | 2170 | 2346 | 92.4 | 1.3 |
| Antenatal care visit with doctor or professional nurse in the first trimester (12 weeks) | 1224 | 2732 | 43.9 | 1.7 | 1338 | 2291 | 58.2 | 1.7 |

* Definition of most recent birth changed between baseline and second follow-up

| | Ν | DK/DTR | Min | 25th | Median | 75th | Max |
|---------------------------------------|------|--------|-----|-----------|--------|------------|-----|
| | | | | Percentil | е | Percentile | 5 |
| Baseline 2013 | | | | | | | |
| Month of gestation of first ANC visit | 2591 | 23 | 0.2 | 1 | 2 | 4 | 9 |
| Second follow-up 2017 | | | | | | | |
| Month of gestation of first ANC visit | 2214 | 50 | 0.2 | 1 | 2 | 3 | 9 |

Regarding the type of facility where antenatal care was usually sought during the second follow-up (Table E6.2), most women who attended antenatal care for their most recent delivery in the last two years sought care in a CESAMO (66%) or CESAR (19.6%). Only 4.1% of women sought antenatal care in a private health clinic.



| | Base | eline 20 | 13 | Second | l Follow-l | Jp 2017 |
|-------------------------------|------|----------|-----|--------|------------|---------|
| | n | % | SE | n | % | SE |
| CESAMO | 1240 | 46.3 | 3.5 | 1505 | 66.0 | 3.9 |
| CESAR | 931 | 37.2 | 3.6 | 440 | 19.6 | 3.9 |
| Private health clinic | 162 | 5.6 | 0.8 | 80 | 4.1 | 0.8 |
| CMI | 60 | 2.1 | 0.4 | 83 | 3.3 | 1.4 |
| Private doctor's office | 65 | 2.5 | 0.6 | 77 | 2.8 | 0.5 |
| Public hospital | 68 | 2.7 | 0.5 | 16 | 0.9 | 0.3 |
| Other public health facility | 15 | 0.6 | 0.2 | 15 | 0.5 | 0.1 |
| Public mobile clinic | 2 | 0.1 | 0.0 | 4 | 0.4 | 0.3 |
| Private hospital | 21 | 1.1 | 0.4 | 9 | 0.4 | 0.2 |
| Private mobile clinic | 6 | 0.3 | 0.2 | 5 | 0.2 | 0.1 |
| Other private health facility | 2 | 0.1 | 0.0 | 2 | 0.1 | 0.1 |
| Community health worker | 3 | 0.2 | 0.1 | 3 | 0.1 | 0.1 |
| Pharmacy | 0 | 0.0 | - | 0 | 0.0 | |
| Traditional healer | 2 | 0.1 | 0.1 | 0 | 0.0 | |
| Other | 33 | 1.3 | 0.3 | 28 | 1.5 | 0.5 |
| Don't know | 2 | - | - | 2 | - | |
| Decline to respond | 3 | - | - | 0 | - | |

Table E6.2: Usual antenatal care location, women 15-49 years of age who attended at least one antenatalcare visit for most recent birth in the last two years

E6.1.2 Frequency of antenatal care visits

Antenatal care can be more effective in avoiding adverse pregnancy outcomes when it is sought early in the pregnancy and continues until delivery. According to the national norm in Honduras, it is recommended that women receive a minimum of four antenatal care visits. The frequency of antenatal care visits is summarized in Table E6.3. Table E6.4 shows the percentage of women with four or more visits with skilled providers and according to best practices.

In the second follow-up, 89.6% of women reported having four or more antenatal care visits during their most recent pregnancy in the last two years. Fifty eight percent of women reported having seven or more antenatal care visits during their most recent pregnancy.

The content of antenatal care is as crucial as the frequency of visits. As shown in Table E6.4, 42.9 percent of all women in the second follow-up survey had four or more antenatal care visits with a doctor or professional nurse, and with each of 10 defined best practices performed at least once during pregnancy (measurement of blood type, test for anemia, test for syphilis, test for HIV, test of blood glucose, test for proteinuria, measurement of maternal blood pressure, measurement of maternal weight, measurement of fundal height, and measurement of fetal heartbeat).



| | Base | eline 20 | 13 | Second | follow- | Up 2017 |
|--------------------|------|----------|-----|--------|---------|---------|
| | n | % | SE | n | % | SE |
| None | 141 | 5.1 | 0.7 | 77 | 3.5 | 0.4 |
| 1-3 visits | 283 | 10.9 | 0.9 | 150 | 7.0 | 0.7 |
| 4-6 visits | 945 | 35.7 | 1.4 | 766 | 32.1 | 1.5 |
| 7-9 visits | 1337 | 47.6 | 1.6 | 1291 | 57.0 | 1.6 |
| 10+ visits | 16 | 0.7 | 0.3 | 16 | 0.5 | 0.1 |
| Don't know | 28 | - | - | 43 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |

Table E6.3: Frequency of antenatal care visits for the most recent birth in the last two years, women 15-49 years of age

Table E6.4: Frequency of antenatal care visits with skilled provider for the most recent birth in the lasttwo years, women 15-49 years of age

| | | Baseline 2013 | | | | Second Follow-Up 2017 | | | | |
|--|------|---------------|------|-----|------|-----------------------|------|-----|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| At least four antenatal care visits with doctor or professional nurse | 1943 | 2729 | 70.3 | 2.0 | 1958 | 2303 | 84.7 | 1.6 | | |
| At least four antenatal care visits with doctor or professional nurse according to best practices* | 532 | 2727 | 18.8 | 1.5 | 1015 | 2303 | 42.9 | 3.3 | | |

*measuring blood type, anemia, syphilis, HIV, glucose, proteinuria, blood pressure, weight, fundal height, fetal heartbeat

E6.1.3 Content of antenatal care

The content of antenatal care is an important indicator of quality of care. The coverage of key procedures was assessed among women who received any antenatal care for a birth in the last two years (Table E6.5 and Table E6.6). It is important to remember that the validity of these data hinge on the respondent's understanding of the question and her ability to recall events that may have occurred several years prior to the interview.

There was variation in performance of the 10 "best practice" procedures during the second follow-up: measured maternal blood pressure (99.3%), measured maternal weight (99.2%), measured fetal heartbeat (96.5%), tested for proteinuria (96.4%), measured fundal height (96%), tested for anemia (92.2%), measured blood type (91.6%), tested for HIV (79.8%), measured blood glucose (78.3%), and tested for syphilis (70.2%). Women were unfamiliar with several tests, as evidenced by the high number of missing responses for proteinuria and syphilis in particular.



| | | Baseline | 2013 | | Seco | nd Follov | w-Up 20 |)17 |
|----------------------------------|------|----------|------|-----|------|-----------|---------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Measured maternal blood pressure | 2537 | 2610 | 97.2 | 0.5 | 2252 | 2269 | 99.3 | 0.2 |
| Measured maternal weight | 2556 | 2614 | 97.8 | 0.5 | 2254 | 2269 | 99.2 | 0.3 |
| Measured fetal heartbeat | 2232 | 2595 | 85.2 | 1.3 | 2182 | 2268 | 96.5 | 0.7 |
| Tested for proteinuria | 1936 | 2234 | 86.1 | 1.3 | 2066 | 2144 | 96.4 | 1.0 |
| Measured fundal height | 1871 | 2558 | 72.2 | 2.3 | 2178 | 2262 | 96.0 | 0.8 |
| Tested for anemia | 2040 | 2377 | 85.3 | 1.2 | 2042 | 2189 | 92.2 | 1.2 |
| Measured blood type | 2032 | 2373 | 85.0 | 1.4 | 1987 | 2180 | 91.6 | 1.2 |
| Tested for HIV | 1495 | 2500 | 58.9 | 2.1 | 1799 | 2227 | 79.8 | 2.9 |
| Measured blood glucose | 1429 | 2284 | 60.7 | 1.9 | 1714 | 2155 | 78.3 | 2. |
| Tested for syphilis | 1162 | 2118 | 53.6 | 2.4 | 1442 | 2021 | 70.2 | 3. |

Table E6.5: Content of antenatal care visits - best practices, among women 15-49 years who attended atleast one antenatal care visit for most recent birth in the last two years

Most women in the second follow-up had a collected blood specimen (97.9%) and a collected urine specimen (96.1%) collected during their antenatal care visits for the most recent birth during the past two years.

 Table E6.6: Content of antenatal care visits - other services provided, among women 15-49 years who attended at least one antenatal care visit for most recent birth in the last two years

| | | Baseline | 2013 | | Seco | nd Follo | w-Up 20 |)17 |
|--------------------------|------|----------|------|-----|------|----------|---------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Collected blood specimen | 2465 | 2608 | 94.5 | 0.6 | 2226 | 2267 | 97.9 | 0.4 |
| Collected urine specimen | 2394 | 2611 | 91.2 | 1.0 | 2192 | 2267 | 96.1 | 0.7 |
| Offered an HIV test | 1693 | 2516 | 65.5 | 2.0 | 1913 | 2234 | 84.9 | 2.2 |
| Performed an ultrasound | 1474 | 2603 | 55.1 | 2.6 | 1776 | 2265 | 77.1 | 2.7 |
| Tested for diabetes | 968 | 1400 | 70.4 | 2.2 | 1315 | 1706 | 76.2 | 3.3 |
| Tested for diabetes | 968 | 1400 | 70.4 | 2.2 | 1315 | 1706 | 76.2 | 3 |

E6.1.4 Coverage of tetanus toxoid vaccinations during pregnancy

Tetanus toxoid injections are given during pregnancy for the prevention of neonatal tetanus. To prevent transmission of this potentially fatal infection, all women should be vaccinated with tetanus toxoid when they become pregnant. A baby is considered protected if the mother receives two doses of tetanus toxoid during pregnancy, with the second at least two weeks before delivery. However, if a woman was vaccinated previously, she only requires one dose during the current pregnancy. Five doses are considered adequate to confer lifetime immunity. To assess the coverage of tetanus toxoid vaccination, women who reported receiving any antenatal care during their most recent pregnancy were asked if they received tetanus toxoid injections.

As shown in Table E6.7, the coverage of sufficient tetanus toxoid vaccination during pregnancy was 58.5% among women who received antenatal care during the second follow-up. Thirty nine percent of women



received one vaccination during the pregnancy and 46.5% received two or more. Among women with antenatal care, 38% had never been vaccinated before and 15.4% had received a vaccine in the last 10 years. Among women who were not vaccinated during prenatal care visits, 10.6% had never been vaccinated.

Table E6.7: Coverage of tetanus toxoid vaccinations during pregnancy, among women 15-49 years who attended at least one antenatal care visit for most recent birth in the last two years

| | Base | eline 20 | 13 | Secor | nd Follow- | Jp 2017 |
|--|------|----------|-----|-------|------------|---------|
| | n | % | SE | n | % | SE |
| Two or more injections during pregnancy | 508 | 39.3 | 2.1 | 608 | 46.5 | 2.4 |
| One injection during pregnancy, one <10 years before | 176 | 13.5 | 1.4 | 174 | 12.0 | 1.4 |
| One injection during pregnancy, none <10 years before | 229 | 17.5 | 1.5 | 384 | 27.4 | 1.8 |
| No injections during pregnancy, one or more <10 years before | 105 | 7.6 | 0.7 | 51 | 3.4 | 0.7 |
| No injections during pregnancy nor during the 10 years prior | 303 | 22.1 | 1.8 | 166 | 10.6 | 1.2 |
| Don't know | 1283 | - | - | 886 | - | - |
| Decline to respond | 9 | - | - | 0 | - | - |

E6.1.5 Exposure to safe pregnancy messages

Women who received antenatal care were asked about a series of topics for which they might have received counseling or advice during their pregnancy. Table E6.8 shows the percentage of women in the second follow-up who were exposed to the following messages: counseled about pregnancy (95.6%); counseled about danger signs during pregnancy (91.5%); given information about in-facility delivery (88.1%); counseled about nutrition during pregnancy (87.7%); advised to deliver in a facility (87.2%); counseled about childcare (85%); counseled about breastfeeding (84.3%).

Exposure to safe pregnancy practices increased from baseline to second follow-up for all counseling categories. In the second follow-up, 83.5% of women were counseled about contraception after delivery compared to 69.8% at baseline. 49.4% of women in the second follow-up, compared to 41% at baseline, were counseled about making a transportation plan for delivery. Compared to 37.6% of women at baseline, 45.4% of women in the second follow-up were advised to have a Cesarean section.



| | | Baseline | 2013 | | Seco | nd Follo | w-Up 20 |)17 |
|---|------|----------|------|-----|------|----------|---------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Counseled about pregnancy | 2368 | 2607 | 90.7 | 1.0 | 2171 | 2264 | 95.6 | 0.8 |
| Counseled about danger signs during pregnancy | 1997 | 2596 | 77.0 | 1.6 | 2080 | 2261 | 91.5 | 0.9 |
| Given information about in-facility delivery | 2056 | 2605 | 79.6 | 1.6 | 2014 | 2262 | 88.1 | 1.4 |
| Counseled about nutrition during pregnancy | 1881 | 2587 | 73.2 | 1.6 | 1984 | 2262 | 87.7 | 1.4 |
| Advised to deliver in a facility | 2056 | 2607 | 79.4 | 1.6 | 2013 | 2264 | 87.2 | 1.5 |
| Counseled about childcare | 1730 | 2599 | 67.0 | 2.0 | 1937 | 2259 | 85.0 | 1.5 |
| Counseled about breastfeeding | 1973 | 2600 | 76.6 | 1.6 | 1929 | 2267 | 84.3 | 1.5 |
| Counseled about contraception after delivery | 1804 | 2597 | 69.8 | 1.8 | 1921 | 2264 | 83.5 | 1.5 |
| Counseled about making a transportation plan for delivery | 1055 | 2603 | 41.0 | 2.3 | 1228 | 2265 | 49.4 | 3.9 |
| Advised to have a Cesarean section | 963 | 2605 | 37.6 | 1.9 | 1065 | 2264 | 45.4 | 3.5 |

Table E6.8: Exposure to safe pregnancy practices, women 15-49 years of age who attended at least one antenatal care visit for most recent birth in the last two years

E6.2 Delivery Care

Proper medical attention and hygienic conditions during delivery can reduce the risk of complications, infections, and even death for the mother and newborn baby. Characteristics of the delivery, including place of delivery and assistance at delivery were captured for all births in the five years preceding the survey. To reduce recall bias, only data from the most recent delivery within the last two years are summarized.

E6.2.1 Place of delivery

The location of the most recent birth and the means of transportation used to get to the facility are shown in Table E6.9. The majority of births occurred in public hospitals (61.1%) and public health center/clinics (20.9%). Yet 11.2% of women reported giving birth at home or at another person's home. Deliveries in private-sector facilities were rare (4.4%). Among women who delivered in a facility, 51.1% indicated that they used a private vehicle for transport (Table E6.10).



| | Base | eline 20 | 13 | Second | d Follow-L | Jp 2017 |
|-------------------------------|------|----------|-----|--------|------------|---------|
| | n | % | SE | n | % | SE |
| Public hospital | 1534 | 53.5 | 2.4 | 1444 | 61.1 | 2.1 |
| Public health center/clinic | 450 | 16.9 | 1.4 | 502 | 20.9 | 1.7 |
| Own home | 565 | 22.0 | 2.5 | 251 | 11.0 | 1.8 |
| Private health center/clinic | 87 | 2.8 | 0.5 | 43 | 2.3 | 0.6 |
| Private hospital | 33 | 1.5 | 0.4 | 33 | 1.5 | 0.4 |
| Other public health facility | 10 | 0.4 | 0.2 | 28 | 1.4 | 0.4 |
| Other private health facility | 1 | 0.0 | - | 12 | 0.6 | 0.2 |
| Other house | 58 | 2.1 | 0.4 | 8 | 0.2 | 0.1 |
| Public health ward | 1 | 0.0 | - | 2 | 0.1 | 0.1 |
| Private medical ward | 0 | 0.0 | - | 3 | 0.1 | 0.1 |
| Other | 19 | 0.6 | 0.2 | 20 | 0.7 | 0.2 |
| Don't know | 0 | - | - | 0 | - | - |
| Decline to respond | 2 | - | - | 0 | - | - |

Table E6.9: Place of delivery for most recent birth in the last two years, women 15-49 years of age

Table E6.10: Transportation to place of delivery for most recent birth in the last two years, among women15-49 years of age who delivered in a facility

| | | Baseline | 2013 | Seco | nd Follov | w-Up 20 |)17 | |
|----------------------|------|----------|------|------|-----------|---------|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Private vehicle | 1375 | 2111 | 64.8 | 2.1 | 1028 | 2066 | 51.1 | 2.1 |
| Other public transit | 412 | 2111 | 18.7 | 1.4 | 547 | 2066 | 26.2 | 1.9 |
| Ambulance | 273 | 2111 | 14.0 | 1.9 | 445 | 2066 | 20.9 | 1.5 |
| On foot | 129 | 2111 | 6.1 | 1.1 | 145 | 2066 | 6.4 | 1.1 |

*categories not mutually exclusive (select all that apply)

Women were asked about the proximity to the health facility used to deliver. Of the 2067 women from the second follow-up who delivered in a facility, 1142 were able to estimate the distance to the facility (Table E6.11). The median number of women reported travelling less than 20 km. Fifty percent of women traveled more than two hours to the facility to deliver.

Table E6.11: Proximity to health care facilities: health facility for delivery

| | Ν | DK/DTR | Min | 25th | Median | 75th | Max |
|---------------------|------|--------|-----|-----------|--------|-----------|------|
| | | | | Percentil | e | Percentil | e |
| Baseline 2013 | | | | | | | |
| Distance, km | 263 | 1851 | 0 | 4 | 20 | 45 | 100 |
| Travel time, min | 1968 | 146 | 1 | 45 | 120 | 180 | 9000 |
| Second follow-up 20 | 017 | | | | | | |
| Distance, km | 1142 | 925 | 0 | 4 | 20 | 60 | 300 |
| Travel time, min | 1971 | 96 | 1 | 30 | 108 | 180 | 4500 |
| | | | | | | | |



E6.2.2 Assistance at delivery

The assistance a woman receives during childbirth has important health consequences for both mother and child. For women who did not deliver alone in the last two years (97.8% of all births in the second follow-up), the percentage by type of delivery attendant is detailed in Table E6.12. Among women who did not report being alone for delivery, several categories of personnel may have been in attendance. As can be seen in Table E6.12, most in-facility deliveries during the second follow-up were accompanied by a medical doctor (84.4%) and/or a professional nurse (58.5%). For 43.5% of the deliveries an auxiliary nurse was in attendance. For 9.2% a midwife/comadrona was in attendance.

Table E6.12: Types of attendants: assistance at delivery for most recent birth in the last two years, women 15-49 years of age

| | | Baseline | 2013 | | Seco | nd Follov | w-Up 20 |)17 |
|-------------------------|------|----------|------|-----|------|-----------|---------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Medical doctor | 2018 | 2754 | 72.0 | 2.5 | 1971 | 2342 | 84.4 | 1.8 |
| Professional nurse | 1302 | 2736 | 47.1 | 2.2 | 1329 | 2310 | 58.5 | 3.6 |
| Auxiliary nurse | 1029 | 2725 | 36.4 | 1.8 | 992 | 2295 | 43.5 | 2.4 |
| Midwife/comadrona | 516 | 2732 | 19.9 | 2.1 | 226 | 2325 | 9.2 | 1.3 |
| Laboratory technician | 114 | 2725 | 4.3 | 0.9 | 62 | 2313 | 2.7 | 0.6 |
| Relative | 197 | 2741 | 8.1 | 1.5 | 54 | 2327 | 2.3 | 0.4 |
| Traditional healer | 4 | 2741 | 0.1 | 0.1 | 23 | 2330 | 1.2 | 0.5 |
| Pharmacist | 19 | 2738 | 0.6 | 0.2 | 7 | 2329 | 0.3 | 0.2 |
| Community health worker | 7 | 2742 | 0.2 | 0.1 | 5 | 2328 | 0.2 | 0.1 |
| Other | 13 | 2741 | 0.4 | 0.1 | 23 | 2324 | 0.9 | 0.2 |

Twenty eight percent of women in the second follow-up delivered with one attendant, 39.6% with two attendants, and 26.7% with three attendants (Table E6.13). For women's most recent live birth in the past two years, 88.6% of deliveries had a skilled attendant present and 87.4% delivered with a skilled attendant in a health facility (Table E6.14).

 Table E6.13: Number of attendants: assistance at delivery for most recent birth in the last two years, women 15-49 years of age

| | Base | eline 20 | 13 | Second Follow-Up 2017 | | | | |
|--------------------|------|----------|-----|-----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| None | 24 | 0.9 | 0.2 | 46 | 2.2 | 0.5 | | |
| One | 1095 | 40.9 | 2.2 | 680 | 28.3 | 2.5 | | |
| Two | 958 | 33.2 | 1.9 | 952 | 39.6 | 2.6 | | |
| Three | 570 | 20.8 | 1.3 | 586 | 26.7 | 1.7 | | |
| Four or more | 113 | 4.2 | 0.9 | 82 | 3.2 | 0.7 | | |
| Don't know | 0 | - | - | 0 | - | - | | |
| Decline to respond | 0 | - | - | 0 | - | - | | |



| | | Baseline | 2013 | | Second Follow-Up 2017 | | | | |
|--|------|----------|------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Delivery with a skilled birth attendant | 2109 | 2757 | 75.2 | 2.5 | 2080 | 2342 | 88.6 | 1.9 | |
| Delivery with a skilled birth attendant in any health facility | 2082 | 2757 | 74.1 | 2.5 | 2047 | 2342 | 87.4 | 1.9 | |
| Delivery with a skilled birth attendant in a CMI or hospital | 1826 | 2757 | 64.8 | 2.4 | 1865 | 2342 | 78.5 | 2.2 | |

 Table E6.14: In-facility delivery with skilled birth attendant: assistance at delivery for most recent birth

 in the last two years, women 15-49 years of age

E6.2.3 Complications

Pregnancy complications are an important source of maternal and child morbidity and mortality. The type of delivery (vaginal or Caesarian section) among women with births in the last two years is detailed in Table E6.15 along with the percentage of planned in-facility deliveries. Table E6.16 displays the percentage of women with specific complications.

As previously described, the vast majority of births occurred in institutional settings. In 45.8% of these cases during the second follow-up, women indicated that they attended the facility for emergency care. Few women reported seizures prior to delivery (3.4%). Approximately 12.6% of infants were transferred to an intensive care unit after delivery, and 19.6% of women reported excessive bleeding after delivery (more than 1 cup over a two-day period of time).

Table E6.15: Mode of delivery for most recent birth in the last two years, women 15-49 years of age

| | Base | eline 20 | 13 | Second | d Follow- | Up 2017 |
|-----------------------------|-----------|----------|----------|----------|-----------|---------|
| | n | % | SE | n | % | SE |
| Mode of delivery | | | | | | |
| Vaginal | 2402 | 87.7 | 1.0 | 1948 | 82.9 | 1.4 |
| Emergency c-section | 223 | 7.8 | 0.6 | 230 | 10.5 | 0.9 |
| Planned c-section | 130 | 4.6 | 0.6 | 166 | 6.6 | 0.9 |
| Don't know | 1 | - | - | 2 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |
| Reason for seeking delivery | / care, a | mong in | -facilit | y births | | |
| According to birth plan | 1130 | 54.6 | 2.3 | 1123 | 53.5 | 2.1 |
| Because of emergency | 975 | 45.3 | 2.3 | 924 | 45.8 | 2.0 |
| Other reason | 3 | 0.1 | 0.1 | 16 | 0.8 | 0.2 |
| Don't know | 6 | - | - | 4 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |



| | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | |
|---|-----|---------|--------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Respondent experienced excessive bleeding in the first day after delivery | 689 | 2743 | 26.2 | 2.0 | 444 | 2328 | 19.6 | 1.8 | |
| Child entered neonatal intensive care unit after delivery | 225 | 2748 | 8.4 | 0.7 | 286 | 2336 | 12.6 | 1.2 | |
| Respondent experienced seizures prior to delivery | 147 | 2749 | 6.1 | 0.9 | 71 | 2337 | 3.4 | 0.8 | |

Table E6.16: Delivery complications for most recent birth in the last two years, women 15-49 years of age

E6.2.4 Birth size and weight

Birth weight is a major determinant of infant and child health and mortality. Birth weight of less than 2.5 kilograms is considered low. For all births during the five-year period preceding the survey, mothers were asked about their perception of the child's size at birth: very large, larger than average, smaller than average, or very small. They were then asked to report the actual weight in kilograms if the child had been weighed after delivery. To reduce recall bias, only data from the most recent birth within the last two years are summarized below (Table E6.17).

In the second follow-up, many women perceived their infant to be average in size (69.5%). With most births occurring in institutional settings, it is not surprising that 90.3% of newborns were weighed at birth. Among those who were weighed, 11.7% weighed less than 2.5 kilograms according to the mother's recall (low birth weight).

 Table E6.17: Birth size and weight for most recent live birth in the past two years, women 15-49 years of age

| | Base | eline 20 | 13 | Second | d Follow- | Up 2017 |
|----------------------|------|----------|-----|--------|-----------|---------|
| | n | % | SE | n | % | SE |
| Very large | 111 | 4.6 | 0.7 | 44 | 1.6 | 0.4 |
| Larger than average | 377 | 13.8 | 0.9 | 387 | 18.2 | 1.0 |
| Average | 1850 | 67.6 | 1.6 | 1588 | 69.5 | 1.6 |
| Smaller than average | 244 | 9.3 | 0.9 | 170 | 8.0 | 0.9 |
| Very small | 117 | 4.7 | 0.6 | 59 | 2.8 | 0.4 |
| Don't know | 56 | - | - | 98 | - | - |
| Decline to respond | 3 | - | - | 0 | - | - |

| | | Baseline | 2013 | | Second Follow-Up 2017 | | | | |
|--|------|----------|------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Child was weighed at birth | 2092 | 2613 | 78.6 | 2.3 | 2046 | 2255 | 90.3 | 1.5 | |
| Low birth weight (<2.5kg), among those weighed | 235 | 1604 | 14.4 | 1.2 | 157 | 1394 | 11.7 | 1.2 | |



E6.3 Early initiation of breastfeeding

Coverage of early initiation of breastfeeding is defined as the percentage of women who had a live birth in the past two years and put the child to the breast with one hour of birth. Table E6.18 shows that 76.5% of women initiated breastfeeding within one hour of birth.

Table E6.18: Early initiation of breastfeeding for most recent live birth in the past two years, women15-49 years of age

| | | Baseline | 2013 | Second Follow-Up 201 | | | | | |
|-----------------------------------|------|----------|------|----------------------|------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Early initiation of breastfeeding | 2060 | 2739 | 74.8 | 1.4 | 1814 | 2317 | 76.5 | 1.6 | |

E6.4 Postnatal Care

Postnatal care is important both for the mother and the child to treat complications arising from the delivery, as well as to provide the mother with important information on how to care for herself and her child. The postnatal period is defined as the time between the delivery of the placenta and 42 days (six weeks) following the delivery. The timing of postnatal care is important: the first two days after delivery are critical, because most maternal and neonatal deaths occur during this period.

Characteristics of postnatal care, including timing, location, and personnel providing care were captured for all births in the five years preceding the survey. To reduce recall bias, only data from the most recent delivery in the last two years are summarized in the tables below.

E6.4.1 Postnatal checkup for the mother

Data on postnatal care for the mother are summarized in Table E6.19. Table E6.19 shows the percentage of women with a birth in the last two years who were checked at any time after delivery and within one week after delivery; and percentage by timing of the check for women with an in-facility delivery.

Only 84.4% of women recalled being checked after delivery during the second follow-up, and 62.8% reported being checked one week after delivery by a health care provider. Only 45.6% of women with an institutional birth recalled being checked every 15 minutes for the first hour post-partum.

Table E6.20 shows the percent distribution of women who were checked at any time after delivery by type of personnel. Among women with postnatal care visits in the second follow-up, most received care from a doctor (82.1%) or professional nurse (9.8%).



| | | Baseline | 2013 | | Second Follow-Up 2017 | | | | |
|---|------|----------|------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Any checkup after delivery | 1809 | 2730 | 64.8 | 2.0 | 1914 | 2343 | 84.4 | 1.7 | |
| Checked every 15 minutes during the first hour after delivery, among in-facility births | 622 | 1539 | 42.7 | 2.1 | 788 | 1701 | 45.6 | 2.2 | |
| Checked within a week after delivery by a skilled provider | 1283 | 2730 | 45.4 | 1.9 | 1417 | 2343 | 62.8 | 3.2 | |

Table E6.19: Postnatal checkup for the mother for most recent live birth in the past two years, women15-49 years of age

Table E6.20: Provider of care at first postnatal checkup for the mother, most recent live birth in the pasttwo years, among women who attended at least one postnatal care visit

| | Baseline 2013 | | | Second Follow-Up 2017 | | | |
|-------------------------|---------------|------|-----|-----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| Doctor | 1341 | 72.5 | 2.0 | 1564 | 82.1 | 1.9 | |
| Professional nurse | 215 | 12.8 | 1.3 | 181 | 9.8 | 1.3 | |
| Auxiliary nurse | 203 | 11.9 | 1.4 | 148 | 7.5 | 1.9 | |
| Midwife/comadrona | 37 | 2.1 | 0.5 | 7 | 0.3 | 0.1 | |
| Community health worker | 11 | 0.7 | 0.4 | 5 | 0.2 | 0.1 | |
| Relative | 0 | 0.0 | - | 1 | 0.1 | 0.1 | |
| Laboratory technician | 0 | 0.0 | - | 0 | 0.0 | | |
| Pharmacy assistant | 0 | 0.0 | - | 0 | 0.0 | | |
| Traditional healer | 0 | 0.0 | - | 1 | 0.0 | | |
| Other | 0 | 0.0 | - | 2 | 0.1 | 0.1 | |
| Don't know | 1 | - | - | 5 | - | | |
| Decline to respond | 1 | - | - | 0 | - | | |

E6.4.2 Postnatal checkup for the infant

The results regarding postnatal care for the neonate are shown in Table E6.21: percentage of women with a birth in the last two years whose infants were checked after delivery; percent distributions of infants who were checked by skilled personnel within 24 hours of delivery; and percent distributions of infants who were checked by skilled personnel within one week of delivery.

Approximately 79.4% of women in the second follow-up reported that their infant was checked at any time after delivery. Among all deliveries, 27.6% of women reported that a qualified medical professional checked on their infant within 24 hours of delivery. Table E6.22 shows the attendants for neonatal postnatal care. Most women indicated that a doctor performed a checkup (82.6%). Professional nurse and auxiliary nurse were also reported, though much less frequently.



| | Baseline 2013 | | | | Second Follow-Up 2017 | | | |
|--|---------------|------|------|-----|-----------------------|------|------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Any checkup after delivery | 2007 | 2707 | 72.5 | 2.2 | 1805 | 2320 | 79.4 | 2.3 |
| Checked within 24 hours after delivery by a skilled provider Checked within a week after delivery by a skilled provider | | 2486 | 31.0 | 1.7 | 520 | 2043 | 27.6 | 3.3 |
| | | 2486 | 46.5 | 2.1 | 1087 | 2043 | 54.8 | 3.9 |

Table E6.21: Postnatal checkup for neonate for woman's most recent live birth in the past two years, women 15-49 years of age

Table E6.22: Provider of care at first postnatal checkup for the infant, woman's most recent live birth in the past two years, among women whose child attended at least one postnatal care visit

| | Baseline 2013 | | | Second Follow-Up 2017 | | | |
|-------------------------|---------------|------|-----|-----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| Doctor | 1530 | 76.4 | 2.1 | 1484 | 82.6 | 2.1 | |
| Professional nurse | 185 | 9.4 | 1.1 | 140 | 8.7 | 1.1 | |
| Auxiliary nurse | 226 | 12.0 | 1.6 | 145 | 7.5 | 2.0 | |
| Community health worker | 9 | 0.6 | 0.3 | 16 | 0.8 | 0.3 | |
| Midwife/comadrona | 30 | 1.5 | 0.4 | 7 | 0.3 | 0.1 | |
| Relative | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | |
| Laboratory technician | 1 | 0.0 | - | 0 | 0.0 | - | |
| Pharmacy assistant | 0 | 0.0 | - | 0 | 0.0 | - | |
| Traditional healer | 0 | 0.0 | - | 0 | 0.0 | - | |
| Other | 2 | 0.1 | 0.1 | 2 | 0.1 | 0.1 | |
| Don't know | 23 | - | - | 9 | - | - | |
| Decline to respond | 0 | - | - | 1 | - | - | |

E6.5 Vouchers, Incentives, and Maternal Waiting Homes

To increase use of their services, some facilities and waiting homes offer vouchers and incentives to women to attend care. Table E6.23 displays the percentage of women in the second follow-up who gave birth the past two years and received a voucher at a health facility. Two percent of women received a voucher or financial assistance to attend antenatal care, 4.4% received a voucher or financial assistance for delivery at a health facility, and 2.8% received a voucher or financial assistance for postpartum or postnatal care at a health facility.



Table E6.23: Voucher incentives for care-seeking for most recent live birth in the past two years, women15-49 years of age

| | | Baseline 2013 | | | | Second Follow-Up 2017 | | | | |
|--|-----|---------------|-----|-----|-----|-----------------------|-----|-----|--|--|
| | n | Ν | % | SE | n | Ν | % | SE | | |
| Received a voucher or other form of financial assistance to attend antenatal care at a health facility | 20 | 2613 | 0.7 | 0.2 | 39 | 2257 | 1.5 | 0.4 | | |
| Received a voucher or other form of financial assistance to deliver at a health facility | 113 | 2103 | 6.6 | 1.2 | 125 | 2047 | 4.4 | 0.9 | | |

| | Base | eline 20 | 13 | Second Follow-Up 2017 | | | | |
|--------------------------------|------|----------|-----|-----------------------|------|-----|--|--|
| | n | % | SE | n | % | SE | | |
| No voucher | 2076 | 98.2 | 0.7 | 1996 | 97.2 | 0.7 | | |
| Yes, for both woman and infant | 15 | 0.8 | 0.3 | 33 | 1.5 | 0.5 | | |
| Yes, for woman's care | 17 | 0.9 | 0.4 | 33 | 1.2 | 0.4 | | |
| Yes, for infant's care | 4 | 0.2 | 0.1 | 2 | 0.1 | 0.1 | | |
| Don't know | 1 | - | - | 2 | - | - | | |
| Decline to respond | 1 | - | - | 1 | - | - | | |

Some facilities that attend deliveries have a **casa materna** or maternal waiting home nearby to provide women who live far away a place to stay while they await delivery or while they recover and prepare to travel home with their infant. Table E6.24 displays how women have commonly used maternal waiting homes during their most recent pregnancy in the past two years. 27.3% of women in the second follow-up report using a maternal waiting home before giving birth and 42.5% of these women report receiving counseling while staying at a maternal waiting home. On average, women stayed at a maternal waiting home for two days and spent 0 Lempira.

Table E6.24: Use of maternal waiting homes for most recent live birth in the past two years, women15-49 years of age

| | Second Follow-Up 2017 | | | | | | |
|---|-----------------------|------|------|-----|--|--|--|
| | n | Ν | % | SE | | | |
| Heard of maternal waiting home | 1383 | 2339 | 55.1 | 3.3 | | | |
| Among women who have heard of maternal waiting homes Used a maternal waiting home before giving birth | 382 | 1382 | 27.3 | 1.8 | | | |
| Among women who used maternal waiting homes Received counseling on health and parenting topics while at waiting home | 150 | 363 | 42.5 | 5.0 | | | |



| | Ν | DK/DTR | Min | 25th Percentile | Median | 75th Percentile | Max |
|--|-----|--------|-----|--------------------|--------|--------------------|------|
| Second Follow-Up 2017 | | | | | | | |
| Days spent in maternal home | 376 | 0 | 0 | 1 | 2 | 4 | 60 |
| Out-of-pocket cost to use maternal home, Lempira | 381 | 1 | 0 | 0 | 0 | 0 | 3000 |



E7 Chapter 7: CHILD HEALTH

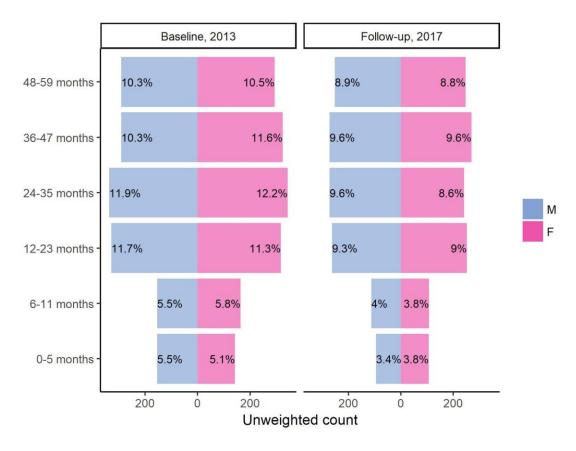
This chapter summarizes the health status of children aged 0-59 months whose caregivers participated in the SMI-Honduras Second Follow-up Household Survey. All data summarized in this chapter are based on the caregiver's report.

E7.1 Health status

The age and sex distribution of the de facto population of children aged 0-59 months participating in the caregiver interview module or the anthropometric measures in Honduras is shown in Figure E7.1 by six-or 12-month age groups.

Twenty percent of children surveyed at baseline and 17% of children surveyed at the second follow-up were under 1 year old at the time of the interview. The age distributions of female and male children are similar.

Figure E7.1: Age and sex of children aged 0-59 months in child health survey or anthropometric measures of the de facto population by six- to twelve-month age groups, unweighted





E7.1.1 Current health status

Table E7.1 shows the current health status of all children aged 0-59 months, as reported by their caregivers. The table includes the caregiver's evaluation of current health relative to health the previous year and the percentage of children who can easily perform daily activities. In the second follow-up, approximately 71.2% of children's health was considered by their caregiver to be "good," "very good," or "excellent," compared to 67.7% at baseline.

Relative to the past year, caregivers in the second follow-up evaluation reported that 35.7% of children's health was "about the same" in the second follow-up. While 58.4% of children's health had improved, 5.9% of children experienced reportedly worse health on the day of the interview, compared to last year. Ninety four percent of children could "easily" perform their daily activities (e.g., playing and going to school) according to their caregivers. Five percent of children had some degree of difficulty performing these activities, 0.3% of children had a significant degree of difficulty performing these activities, and 0.5% of children were unable to complete daily activities, according to their caregivers.

| | Base | eline 20 | 13 | Second | d Follow- | Up 2017 | | | | |
|--------------------------------------|------------|----------|-----|--------|-----------|---------|--|--|--|--|
| | n | % | SE | n | % | SE | | | | |
| Current health status | | | | | | | | | | |
| Excellent | 694 | 21.7 | 1.3 | 568 | 21.6 | 1.8 | | | | |
| Very good | 546 | 18.3 | 0.9 | 343 | 12.7 | 1.2 | | | | |
| Good | 828 | 27.7 | 1.2 | 908 | 36.9 | 1.8 | | | | |
| Fair | 844 | 27.8 | 1.0 | 583 | 25.2 | 1.3 | | | | |
| Poor | 131 | 4.5 | 0.5 | 89 | 3.7 | 0.6 | | | | |
| Don't know | 1 | - | - | 1 | - | - | | | | |
| Decline to respond | 3 | - | - | 0 | - | - | | | | |
| Health status relative to a year ago | | | | | | | | | | |
| Better | 1278 | 53.7 | 1.2 | 1162 | 58.4 | 1.5 | | | | |
| Worse | 100 | 4.2 | 0.5 | 119 | 5.9 | 0.6 | | | | |
| About the same | 1000 | 42.1 | 1.2 | 720 | 35.7 | 1.5 | | | | |
| Don't know | 3 | - | - | 4 | - | - | | | | |
| Decline to respond | 3 | - | - | 1 | - | - | | | | |
| Ability to perform daily | activities | 5 | | | | | | | | |
| Easily | 2830 | 93.6 | 0.6 | 2329 | 94.2 | 0.7 | | | | |
| With some difficulty | 112 | 3.9 | 0.4 | 137 | 4.9 | 0.6 | | | | |
| With much difficulty | 8 | 0.3 | 0.1 | 10 | 0.3 | 0.1 | | | | |
| Unable to do | 65 | 2.2 | 0.4 | 15 | 0.5 | 0.2 | | | | |
| Don't know | 30 | - | - | 1 | - | - | | | | |
| Decline to respond | 2 | - | - | 0 | - | - | | | | |

Table E7.1: Current health status, among children aged 0-59 months

E7.1.2 Recent illness

Caregivers were asked a series of questions about any illnesses or health problems that their children had in the two weeks preceding the interview. In the second follow-up survey, approximately 32% of children



were reported as sick during that time (Table E7.2). Of the 774 children who were recently ill, cough (31.9%), fever (29.7%), and diarrhea without blood (7.3%) were the most commonly specified complaints.

| | I | Baseline | 2013 | | Seco | nd Follo | ow-Up 2 | 017 |
|--------------------------------------|------------|----------|-------|-------|---------|----------|---------|-----|
| | n | Ν | % | SE | n | Ν | % | S |
| Child was sick in the last two weeks | 1108 | 3045 | 37.3 | 1.3 | 774 | 2490 | 32.5 | 1. |
| | | | | | | | | |
| | | Baseline | 2013 | Sec | ond Fol | low-Up | 2017 | |
| | | n ' | % SE | : | n % | , > | SE | |
| Recent illness among children | ill in the | last 2 w | /eeks | | | | | |
| Cough | 34 | 6 31. | 8 1.9 | 248 | 31.9 |) | 2.4 | |
| Fever | 34 | 0 30. | 9 1.7 | 243 | 29.7 | , | 2.3 | |
| Diarrhea without blood | 10 | 79. | 8 1.1 | 56 | 5 7.3 | 6 | 1.3 | |
| Skin rash/infection | 2 | 6 2. | 5 0.6 | 22 | 2.5 | , | 0.6 | |
| Abdominal pain | 1 | 51. | 5 0.4 | . 7 | 1.4 | ļ | 1.0 | |
| Diarrhea with blood | 1 | 1 0. | 9 0.3 | 9 |) 1.1 | | 0.5 | |
| Vomiting | 1 | 31. | 2 0.3 | 8 | 3 1.1 | | 0.5 | |
| Eye/ear infection | | 9 0. | 9 0.3 | 11 | . 1.1 | | 0.4 | |
| Asthma | 2 | 32. | 2 0.4 | 5 | 5 0.9 |) | 0.4 | |
| Pneumonia | | 2 0. | 1 0.1 | . 7 | 0.8 | 8 | 0.4 | |
| Measles | | 1 0. | 1 0.1 | 1 | 0.2 | 2 | 0.2 | |
| Difficulty urinating | | 0 0. | 0 - | 1 | 0.2 | 2 | 0.2 | |
| Bronchitis | 1 | 21. | 0 0.3 | 1 | 0.1 | | 0.1 | |
| Headache | | 4 0. | 4 0.2 | 1 | 0.1 | | 0.1 | |
| Malaria | | 0 0. | 0 - | 0 | 0.0 |) | - | |
| Tuberculosis | | 1 0. | 0 - | 0 | 0.0 |) | - | |
| Anemia | | 2 0. | 2 0.1 | 0 | 0.0 |) | - | |
| Jaundice | | 0 0. | 0 - | 0 | 0.0 |) | - | |
| Stroke | | 0 0. | 0 - | 0 | 0.0 |) | - | |
| Diabetes | | 0 0. | 0 - | 0 | 0.0 |) | - | |
| HIV/AIDS | | 0 0. | 0 - | 0 | 0.0 |) | - | |
| Paralysis | | 2 0. | 2 0.1 | 0 | 0.0 |) | - | |
| Chest infection | | 0 0. | 0 - | 0 | 0.0 |) | - | |
| Blood in urine | | 0 0. | 0 - | 0 | 0.0 |) | - | |
| Swelling in legs, ankles, or fe | eet | 0 0. | 0 - | 0 | 0.0 |) | - | |
| Other | 19 | 3 16. | 3 1.8 | 154 | 21.5 | i | 1.7 | |
| Don't know | | 1 | | 0 |) . | - | - | |
| Decline to respond | | 0 | | 0 |) . | - | - | |

Table E7.2: Recent illness, among children aged 0-59 months

E7.1.3 Utilization of health services for recent illness

Table E7.3 summarizes data regarding the utilization of health services among the 774 children who were sick in the two weeks preceding the interview. The table shows the percentage of children 0-59 months who were sick in the last two weeks for whom care was sought for recent illness and among these,



the percent distribution by type of medical facility where care was sought and whether the child was hospitalized.

In the second follow-up survey, care was sought for 46.7% of these cases. Care was typically sought at CESAMO (51%) or CESAR (12.2%) facilities; some attended private doctor's offices (9.4%). Only two children were hospitalized for their recent illness.

| Cable E7.3: Utilization of health services for recent illness in the last two weeks, among children 0-59 | |
|--|--|
| nonths | |

| | | Baseline | e 2013 | | Seco | nd Folle | ow-Up 2 | 2017 |
|---|-----|----------|--------|-----|------|----------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Sought care for recent illness | 591 | 1108 | 53.1 | 2.1 | 378 | 774 | 46.7 | 2.3 |
| Child was hospitalized for recent illness | 9 | 206 | 4.1 | 1.4 | 2 | 127 | 2.0 | 1.4 |

| | Bas | eline 20 |)13 | Secor | nd Follow | -Up 2017 |
|----------------------------------|--------|----------|-----|-------|-----------|----------|
| | n | % | SE | n | % | SE |
| Type of medical facility where c | are wa | s sought | t | | | |
| CESAMO | 220 | 35.6 | 3.6 | 194 | 51.0 | 4.9 |
| CESAR | 204 | 36.2 | 4.4 | 41 | 12.2 | 3.3 |
| Private doctor's office | 24 | 4.4 | 0.9 | 42 | 9.4 | 2.3 |
| Private health clinic | 53 | 8.6 | 1.5 | 30 | 8.2 | 1.7 |
| Pharmacy | 20 | 3.1 | 0.8 | 26 | 7.6 | 1.7 |
| Community health worker | 5 | 1.0 | 0.4 | 10 | 2.2 | 0.8 |
| CMI | 12 | 2.2 | 0.6 | 7 | 2.0 | 0.7 |
| Public hospital | 13 | 2.2 | 0.6 | 5 | 1.3 | 0.6 |
| Traditional healer | 7 | 1.3 | 0.5 | 2 | 0.9 | 0.6 |
| Private mobile clinic | 0 | 0.0 | - | 4 | 0.8 | 0.5 |
| Public mobile clinic | 1 | 0.2 | 0.2 | 3 | 0.7 | 0.5 |
| Private hospital | 2 | 0.3 | 0.2 | 2 | 0.6 | 0.5 |
| Other public health facility | 5 | 0.9 | 0.5 | 1 | 0.2 | 0.2 |
| Other private health facility | 0 | 0.0 | - | 0 | 0.0 | - |
| Other | 24 | 4.2 | 1.2 | 11 | 3.0 | 1.0 |
| Don't know | 1 | - | - | 0 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |

E7.2 Acute respiratory infection

Acute respiratory infection is a leading cause of morbidity and mortality among children. Early diagnosis and treatment with antibiotics can prevent deaths resulting from pneumonia, a common acute respiratory disease. The prevalence of acute respiratory infection was estimated by asking caregivers whether their children aged 0-59 months had been ill with a cough accompanied by short, rapid breathing in the two weeks preceding the interview. If the child had symptoms of an acute respiratory infection, the caregiver was asked about what was done to treat the symptoms and feeding practices during the illness.



E7.2.1 Prevalence of acute respiratory infection and fever

The prevalence of cough, suspected acute respiratory infection, and fever among children aged 0-59 months, as reported by their caregivers, is displayed in Table E7.4. In the second follow-up, 25% of children experienced cough, 12.5% had symptoms of an acute respiratory infection, and 20.6% had a fever in the two weeks preceding the interview.

Table E7.4: Prevalence of suspected acute respiratory infection and fever in the last two weeks, among children 0-59 months

| | Base | eline 20 | 13 | Second Follow-Up 2017 | | | |
|---|------|----------|-----|-----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| Child had cough in the last two weeks, by type | | | | | | | |
| No cough | 2218 | 72.3 | 1.4 | 1898 | 75.1 | 1.6 | |
| Cough without difficulty breathing | 433 | 14.6 | 0.9 | 280 | 12.4 | 0.9 | |
| With difficulty breathing due to chest problem | 203 | 7.1 | 0.7 | 125 | 5.1 | 0.6 | |
| With difficulty breathing due to congested/runny nose | 103 | 3.5 | 0.4 | 111 | 4.6 | 0.7 | |
| With difficulty breathing due to chest problem and | 73 | 2.3 | 0.3 | 70 | 2.6 | 0.5 | |
| congested/runny nose | | | | | | | |
| With difficulty breathing due to other reason | 1 | 0.1 | 0.1 | 2 | 0.2 | 0.1 | |
| Don't know | 14 | - | - | 6 | - | - | |
| Decline to respond | 2 | - | - | 0 | - | - | |

| | | Baseline | e 2013 | | Second Follow-Up 2017 | | | | |
|---|-----|----------|--------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Symptoms of acute respiratory infection in the last two weeks | 385 | 3036 | 13.2 | 0.9 | 309 | 2487 | 12.5 | 1.1 | |
| Fever in last two weeks | 704 | 3045 | 24.1 | 1.2 | 504 | 2483 | 20.6 | 1.2 | |

E7.2.2 Utilization of health services for suspected acute respiratory infection

Forty four percent of children with symptoms of acute respiratory infection were taken for evaluation and/or treatment of their condition at the second follow-up (Table E7.5).

Table E7.5: Utilization of health services for suspected acute respiratory infection in the last two weeks, among children 0-59 months

| | | Baseline 2013 | | | | Second Follow-Up 2017 | | | |
|---|-----|---------------|------|----|-----|-----------------------|----|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Sought care for suspected acute respiratory infection | 564 | 1022 | 54.9 | 2 | 352 | 757 | 44 | 2.4 | |



| | Bas | eline 20 | 013 | Secor | nd Follow- | Up 2017 |
|---------------------------------|--------|----------|-----|-------|------------|---------|
| | n | % | SE | n | % | SI |
| ype of medical facility where o | are wa | s sought | t | | | |
| CESAMO | 213 | 36.1 | 3.8 | 178 | 50.1 | 4.3 |
| CESAR | 197 | 36.7 | 4.5 | 45 | 14.4 | 3.5 |
| Pharmacy | 21 | 3.6 | 0.8 | 31 | 9.5 | 2.2 |
| Private health clinic | 47 | 7.8 | 1.5 | 30 | 8.3 | 1.8 |
| Private doctor's office | 19 | 3.5 | 0.9 | 33 | 7.9 | 2.3 |
| Community health worker | 5 | 1.0 | 0.4 | 8 | 1.9 | 0.3 |
| CMI | 13 | 2.6 | 0.7 | 5 | 1.7 | 0. |
| Public hospital | 5 | 0.9 | 0.4 | 5 | 1.6 | 0. |
| Other public health facility | 5 | 0.9 | 0.5 | 3 | 0.8 | 0. |
| Private hospital | 1 | 0.1 | 0.1 | 2 | 0.7 | 0. |
| Private mobile clinic | 1 | 0.1 | 0.1 | 3 | 0.7 | 0. |
| Traditional healer | 8 | 1.5 | 0.6 | 1 | 0.5 | 0. |
| Public mobile clinic | 1 | 0.2 | 0.2 | 1 | 0.0 | |
| Other private health facility | 0 | 0.0 | - | 0 | 0.0 | |
| Other | 27 | 4.9 | 1.3 | 7 | 1.9 | 0.3 |
| Don't know | 1 | - | - | 0 | - | |
| Decline to respond | 0 | - | - | 0 | - | |

E7.2.3 Utilization of medications for suspected acute respiratory infection

Eighty two percent of children with symptoms of acute respiratory infection were given some type of medication for their condition during the second follow-up (Table E7.6). Forty nine percent of children were administered antibiotic syrups for a suspected acute respiratory infection. Acetaminophen (68.9%) and ibuprofen (6.9%) were also commonly administered. Twenty five percent of children received a treatment other than those listed.

| | | Baselin | e 2013 | | Seco | nd Follo | ow-Up 2 | 2017 |
|--------------------------|-----|---------|--------|-----|------|----------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Any treatment | 884 | 1020 | 86.5 | 1.4 | 628 | 758 | 82.2 | 2.1 |
| Antibiotic injection | 77 | 882 | 8.9 | 0.9 | 51 | 626 | 9.2 | 2.4 |
| Antibiotic pill | 67 | 882 | 7.5 | 1.0 | 45 | 626 | 8.0 | 1.5 |
| Antibiotic syrup | 506 | 882 | 56.8 | 2.2 | 314 | 626 | 49.4 | 2.2 |
| Aspirin | 20 | 881 | 2.3 | 0.5 | 13 | 626 | 2.5 | 1.3 |
| Acetaminophen | 603 | 883 | 67.0 | 1.9 | 445 | 627 | 68.9 | 2.0 |
| Ibuprofen | 98 | 882 | 11.2 | 1.5 | 42 | 625 | 6.9 | 1.2 |
| Oral rehydration therapy | 20 | 882 | 2.4 | 0.6 | 15 | 626 | 2.7 | 0.9 |
| Other | 184 | 882 | 22.0 | 1.8 | 159 | 627 | 25.3 | 2.2 |

Table E7.6: Utilization of medications for suspected acute respiratory infection in the last two weeks, among children 0-59 months



E7.2.4 Feeding practices during suspected acute respiratory infection

Data on feeding practices during the recent episode of suspected acute respiratory infection are summarized in Table E7.7. The table shows the volume of fluids and the volume of solids given during the illness. At the second follow-up, only 27.1% of children were given more fluids than usual. In total, 38% of children were offered less fluid than usual (or none at all). Twenty eight percent of children were offered the same volume of solid food as usual during their illness. Approximately 70% of children were given less than the usual amount of solid food (or none at all).

Table E7.7: Feeding practices during suspected acute respiratory infection in the last two weeks, among children 0-59 months

| | Bas | eline 20 |)13 | Secor | nd Follow | -Up 2017 | | | | |
|--|---------|-----------|------|-------|-----------|----------|--|--|--|--|
| | n % SE | | n | % | SE | | | | | |
| Volume of fluids (including breastmilk) given during illness | | | | | | | | | | |
| No fluids | 26 | 2.5 | 0.7 | 15 | 1.8 | 0.6 | | | | |
| Much less | 133 | 13.6 | 1.4 | 74 | 8.4 | 1.0 | | | | |
| Somewhat less | 324 | 31.9 | 2.0 | 228 | 28.0 | 2.5 | | | | |
| About the same | 454 | 44.5 | 2.2 | 263 | 34.7 | 2.4 | | | | |
| More | 81 | 7.5 | 0.9 | 175 | 27.1 | 2.5 | | | | |
| Don't know | 4 | - | - | 3 | - | - | | | | |
| Decline to respond | 0 | - | - | 0 | - | - | | | | |
| Volume of solid foods a | given d | uring ill | ness | | | | | | | |
| No solids | 29 | 2.8 | 0.5 | 62 | 8.1 | 1.5 | | | | |
| Much less | 185 | 19.4 | 1.6 | 110 | 14.8 | 1.9 | | | | |
| Somewhat less | 448 | 43.6 | 2.2 | 360 | 47.4 | 2.3 | | | | |
| About the same | 331 | 33.1 | 2.1 | 202 | 27.5 | 2.3 | | | | |
| More | 12 | 1.1 | 0.3 | 15 | 2.2 | 0.7 | | | | |
| Don't know | 16 | - | - | 6 | - | - | | | | |
| Decline to respond | 1 | - | - | 3 | - | - | | | | |

E7.3 Diarrhea

Dehydration caused by severe diarrhea in a major cause of morbidity and mortality among children. Exposure to diarrheal disease-causing agents is frequently a result of use of contaminated water and unhygienic practices related to food preparation and disposal of feces. The prevalence of diarrhea was estimated by asking caregivers whether their children aged 0-59 months had had diarrhea in the two weeks preceding the interview. If the child had had diarrhea, the caregiver was asked about treatment and feeding practices during the diarrheal episode.

E7.3.1 Prevalence

Table E7.8 shows the proportion of children aged 0-59 months with diarrhea in the two weeks preceding the interview, as reported by their caregivers (33.1% at the second follow-up). Three percent of children had bloody diarrhea.



| | Bas | eline 20 | 013 | Second Follow-Up 2017 | | | |
|------------------------|-----|----------|-----|-----------------------|------|-----|--|
| | n | % | SE | n | % | SE | |
| No diarrhea | 249 | 61.4 | 2.9 | 182 | 66.9 | 4.5 | |
| Diarrhea without blood | 142 | 36.5 | 2.8 | 83 | 30.5 | 4.0 | |
| Diarrhea with blood | 8 | 2.0 | 0.7 | 8 | 2.7 | 1.3 | |
| Don't know | 24 | - | - | 12 | - | - | |
| Decline to respond | 0 | - | - | 0 | - | - | |

Table E7.8: Prevalence of diarrhea in the last two weeks, among children aged 0-59 months

E7.3.2 Utilization of health services for diarrhea

Nearly half of children with diarrhea were taken for evaluation and/or treatment of their condition (Table E7.9). Care for these children was often sought in the public sector, although private health centers were visited by 6% of these cases at the second follow-up.

Table E7.9: Utilization of health services for diarrhea in the last two weeks, among children aged 0-59 months

| | | Baseline 2013 | | | | ond Fo | ollow-Up | 2017 |
|--------------------------|----|---------------|----|-----|----|--------|----------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Sought care for diarrhea | 73 | 150 | 49 | 4.8 | 50 | 91 | 51.6 | 7.6 |

| | Ва | seline 2 | 013 | Seco | ond Follow | w-Up 2017 |
|-----------------------------------|-------|----------|-----|------|------------|-----------|
| | n | % | SE | n | % | SE |
| Type of medical facility where of | are w | as soug | ht | | | |
| CESAMO | 27 | 38.6 | 6.2 | 30 | 69.2 | 9.4 |
| CESAR | 22 | 27.7 | 6.9 | 4 | 8.2 | 4.6 |
| Private doctor's office | 5 | 7.6 | 3.0 | 8 | 5.4 | 3.1 |
| Private health clinic | 5 | 7.7 | 3.3 | 2 | 3.5 | 2.5 |
| Pharmacy | 5 | 4.7 | 2.4 | 1 | 3.5 | 3.5 |
| Traditional healer | 1 | 1.6 | 1.6 | 1 | 3.2 | 3.3 |
| Private hospital | 1 | 1.2 | 1.2 | 1 | 2.9 | 2.9 |
| СМІ | 1 | 2.1 | 2.1 | 1 | 1.9 | 2.0 |
| Community health worker | 1 | 1.6 | 1.5 | 1 | 1.3 | 1.3 |
| Private mobile clinic | 0 | 0.0 | - | 1 | 1.0 | 1.1 |
| Public hospital | 1 | 1.1 | 1.1 | 0 | 0.0 | - |
| Public mobile clinic | 0 | 0.0 | - | 0 | 0.0 | - |
| Other public health facility | 2 | 3.1 | 2.1 | 0 | 0.0 | - |
| Other private health facility | 0 | 0.0 | - | 0 | 0.0 | - |
| Other | 2 | 2.9 | 2.0 | 0 | 0.0 | - |
| Don't know | 0 | - | - | 0 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |



E7.3.3 Utilization of treatments for diarrhea

A simple and effective response to dehydration caused by diarrhea is a prompt increase in the child's fluid intake through some form of oral rehydration therapy. Oral rehydration therapy may include the use of a solution prepared from commercially produced packets of powdered oral rehydration salts, commercially-produced bottled oral serums, or homemade fluids usually prepared from sugar, salt, and water. Other treatments, including zinc, may be administered as well.

Although care was sought in only 51.6% of diarrhea cases, 88.3% of cases were given some form of treatment at the second follow-up. Bottled oral rehydration serum was the most common form oral rehydration therapy (41.9%). Twelve percent of cases were treated with zinc syrup or pills. Eight percent of cases were treated with an antibiotic pill.

Table E7.10: Utilization of treatments for diarrhea during the last two weeks, among children aged 0-59months

| | | Baselin | e 2013 | | Seco | ond Fo | ollow-Up | 2017 |
|--|-----|---------|--------|-----|------|--------|----------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Any treatment | 123 | 149 | 82.1 | 3.1 | 80 | 90 | 88.3 | 2.7 |
| Fluids | | | | | | | | |
| Bottled oral rehydration serum | 34 | 148 | 22.3 | 4.5 | 41 | 90 | 41.9 | 6.0 |
| Fluid made with powdered oral rehydration salts | 52 | 148 | 34.1 | 5.1 | 35 | 90 | 41.5 | 6.7 |
| Homemade fluid recommended by health authorities | 41 | 148 | 27.5 | 3.9 | 14 | 90 | 17.3 | 5.2 |
| Medications | | | | | | | | |
| Antibiotic pill | 27 | 149 | 17.6 | 4.0 | 7 | 91 | 7.6 | 3.4 |
| Antidiarrheal pill | 19 | 149 | 13.5 | 2.8 | 16 | 91 | 17.5 | 4.0 |
| Zinc pill | 4 | 149 | 2.5 | 1.2 | 7 | 90 | 9.7 | 4.8 |
| Other type of pill | 9 | 148 | 6.4 | 1.8 | 4 | 91 | 4.3 | 2.0 |
| Unknown pill | 5 | 148 | 3.5 | 1.8 | 0 | 91 | 0.0 | - |
| Antibiotic injection | 5 | 148 | 3.8 | 1.7 | 3 | 90 | 3.3 | 1.9 |
| Non-antibiotic injection | 1 | 148 | 0.7 | 0.7 | 0 | 90 | 0.0 | - |
| Unknown injection | 1 | 149 | 0.9 | 0.9 | 2 | 90 | 2.5 | 1.8 |
| Intravenous therapy | 0 | 149 | 0.0 | - | 0 | 91 | 0.0 | - |
| Home remedy/herbal medicine | 26 | 149 | 17.7 | 3.5 | 19 | 91 | 20.6 | 5.6 |
| Antibiotic syrup | 40 | 149 | 27.0 | 3.8 | 10 | 91 | 8.1 | 2.8 |
| Antidiarrheal syrup | 17 | 149 | 11.0 | 2.9 | 9 | 91 | 12.5 | 4.7 |
| Zinc syrup | 5 | 149 | 3.9 | 1.7 | 2 | 91 | 2.0 | 1.3 |
| Other syrup | 1 | 149 | 1.0 | 1.0 | 5 | 90 | 5.6 | 3.3 |
| Unknown syrup | 7 | 149 | 5.0 | 1.7 | 2 | 91 | 3.0 | 2.2 |
| Other treatment | 22 | 149 | 14.4 | 3.0 | 17 | 91 | 21.7 | 5.6 |

E7.3.4 Feeding practices during diarrhea

Caregivers are encouraged to continue feeding children normally when they suffer from diarrheal diseases and to increase the fluids they are given. These practices help to prevent dehydration and minimize the adverse consequences of diarrhea on the child's nutritional status.



Data on feeding practices during the recent diarrheal episode are summarized in Table E7.11. The table shows the volume of fluids and the volume of solids given during the illness. Only 33.7% of children were given more fluids than usual in the second follow-up survey. Approximately 44% of children were offered less fluid than usual (or none at all). Eight percent of children were offered the same volume of solid food as usual during their illness. Approximately 84% of children were given less than the usual amount of solid food (or none at all).

Table E7.11: Feeding practices among children aged 0-59 months who had diarrhea in the last two weeks

| | Ba | seline 2 | 013 | Seco | ond Follow- | Up 2017 |
|--------------------------|--------|----------|----------|-------|--------------|---------|
| | n | % | SE | n | % | SE |
| Volume of fluids (inclue | ding b | reastmi | ilk) giv | en du | ring illness | |
| No fluids | 4 | 2.9 | 1.7 | 2 | 3.6 | 2.2 |
| Much less | 20 | 12.2 | 2.6 | 9 | 11.6 | 4.0 |
| Somewhat less | 46 | 31.5 | 4.4 | 29 | 28.5 | 6.0 |
| About the same | 64 | 43.0 | 4.1 | 22 | 22.7 | 4.9 |
| More | 16 | 10.4 | 2.3 | 28 | 33.7 | 5.7 |
| Don't know | 0 | - | - | 1 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |
| Volume of solid foods a | given | during i | llness | | | |
| No solids | 9 | 6.3 | 2.1 | 16 | 15.8 | 3.7 |
| Much less | 28 | 18.5 | 3.6 | 24 | 30.5 | 5.3 |
| Somewhat less | 63 | 43.7 | 3.5 | 35 | 38.1 | 6.1 |
| About the same | 47 | 30.2 | 3.9 | 10 | 7.6 | 2.3 |
| More | 2 | 1.3 | 0.9 | 5 | 8.0 | 3.0 |
| Don't know | 1 | - | - | 1 | - | - |
| Decline to respond | 0 | - | - | 0 | - | - |

E7.4 Immunization against common childhood illnesses

Information on immunization coverage was collected for all children aged 0-59 months whose caregivers participated in the survey. Both caregiver's report and review of vaccination card (if available) were used to determine coverage. A vaccination card was available for review for 2,259 children at the second follow-up (90.7% of the sample, unweighted). In Table E7.12, coverage is estimated by vaccine type to include all children with full compliance for age as specified in the national immunization scheme at the time of the survey, according to either an affirmative response from the caregiver that the immunization was received, or a mark that the immunization was received on the vaccination card (for children with a vaccination card available for review at the time of the interview). Children too young to have received a specific vaccine are counted as covered in order to maintain a comparable all-ages sample across vaccine types.



| | | Baseline | 2013 | | Second Follow-Up 2017 | | | | |
|--|------|----------|------|-----|-----------------------|------|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| BCG vaccine (tuberculosis) | 2792 | 2853 | 97.8 | 0.3 | 2383 | 2403 | 99.2 | 0.2 | |
| Hepatitis B vaccine | 2234 | 2846 | 78.1 | 1.7 | 2212 | 2384 | 92.3 | 0.9 | |
| Polio vaccine | 2014 | 2861 | 70.8 | 1.4 | 1884 | 2406 | 78.1 | 1.7 | |
| Pentavalent vaccine (DPT, HepB, HiB) | 2514 | 2855 | 88.1 | 0.8 | 2269 | 2408 | 94.7 | 0.6 | |
| Rotavirus vaccine | 1993 | 2842 | 70.1 | 1.2 | 2203 | 2392 | 91.8 | 1.2 | |
| Pneumococcal conjugate vaccine | 2802 | 2991 | 93.5 | 0.6 | 2205 | 2386 | 92.2 | 1.0 | |
| Measles, mumps, and rubella (MMR) vaccine | 2723 | 2878 | 94.6 | 0.6 | 2379 | 2415 | 98.6 | 0.3 | |
| Diphtheria, tetanus, and pertussis (DPT) vaccine | 2268 | 2887 | 78.3 | 1.2 | 2149 | 2410 | 89.6 | 0.8 | |

 Table E7.12: Immunization against common childhood illnesses, children aged 0-59 months, according to caretaker recall and vaccination card

*Pneumonia vaccine was added to national vaccine scheme two years before baseline measurement, so children 24 months of age and older at baseline are compliant without receiving pneumonia vaccine.

In Table E7.13, coverage estimates based on recall are summarized for the full sample, and coverage estimates based on vaccination card data are summarized among the subset with a vaccination card available for review. When considering only caregivers' recall, only 7.9% of children aged 0-59 months were fully immunized for age at the second follow-up survey, reflecting many "Don't know" or "Decline" responses that call into question the reliability and validity of the caregiver recall data. Caregivers were able to definitively answer the entire vaccine recall section for only 1176 children at the second follow-up. Immunization coverage for children 0-59 months based only upon the vaccine card is 65.6%, and when combined with recall-based information, the estimate of full vaccination for age among children 0-59 months is 57.9%.

Table E7.13: Full immunization compliance for age, children aged 0-59 months

| | _ | Baseline | 2013 | | Second Follow-Up 2017 | | | | |
|---------------------------------|------|----------|------|-----|-----------------------|------|------|--|-----|
| | n | Ν | % | SE | n | Ν | % | | SE |
| According to recall + card | 1126 | 2812 | 39.8 | 1.4 | 1569 | 2358 | 65.6 | | 2.2 |
| According to vaccine card | 711 | 3013 | 23.0 | 1.0 | 1431 | 2490 | 57.9 | | 2.3 |
| According to caregiver's recall | 58 | 1351 | 4.3 | 0.8 | 94 | 1176 | 7.9 | | 2.0 |

*Pneumonia vaccine was added to national vaccine scheme two years before baseline measurement, so children 24 months of age and older at baseline are compliant without receiving pneumonia vaccine.

E7.5 Deworming treatment

Administration of deworming treatment every six months has been shown to reduce the prevalence of anemia in children. Only 30.3% of children aged 12-59 months received at least two doses of deworming treatment in the year preceding the second follow-up interview (Table E7.14).



| | Bas | eline 20 | 013 | Secor | Second Follow-Up 2017 | | | | |
|--------------------|-----|----------|-----|-------|-----------------------|-----|--|--|--|
| | n | % | SE | n | % | SE | | | |
| No deworming | 695 | 29.2 | 1.4 | 524 | 25.5 | 1.4 | | | |
| One dose | 746 | 31.0 | 1.2 | 903 | 44.2 | 1.4 | | | |
| Two or more doses | 923 | 39.8 | 1.5 | 566 | 30.3 | 1.5 | | | |
| Don't know | 17 | - | - | 10 | - | - | | | |
| Decline to respond | 2 | - | - | 0 | - | - | | | |

Table E7.14: Deworming treatment among children aged 12-59 months



E8 Chapter 8: INFANT AND YOUNG CHILDREN FEEDING PRACTICES

This chapter summarizes the feeding practices of infants and children aged 0-59 months whose caregivers participated in the SMI-Honduras Household Survey. All data summarized in this chapter are based on the caregiver's report.

E8.1 Breastfeeding

E8.1.1 Exclusive breastfeeding

Coverage of exclusive breastfeeding is defined as the percentage of infants born in the six months prior to the survey who received only breast milk during the previous day. This information is obtained through a 24-hour dietary recall in which the caregiver indicates what the child consumed during the previous day and night. In Honduras during the second follow-up, the sample includes 201 children who are under 6 months of age, and 88 of those children have sufficiently complete dietary recall information to determine whether they are exclusively breastfed. Table E8.1 shows that 39.8% of children under 6 months of age are exclusively breastfed.

E8.1.2 Continued breastfeeding at 1 year

Coverage of continued breastfeeding at 1 year is defined as the percentage of children 12-15 months old who received breast milk during the previous day according to caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 174 children who are between 12 and 15 months of age, and 127 of those children have adequate responses to determine their breastfeeding status. Table E8.1 shows that 71.7% of children continue to receive breast milk at 1 year.

Table E8.1: Breastfeeding among children

| | | Baseline 2013 | | | Second Follow-Up 202 | | | | |
|---|-----|---------------|------|-----|----------------------|-----|------|-----|--|
| | n | Ν | % | SE | n | Ν | % | SE | |
| Exclusive breastfeeding among children <6 months | 131 | 285 | 47.1 | 3.7 | 88 | 200 | 39.8 | 4.9 | |
| Continued breastfeeding at one year among children 12-15 months | 171 | 212 | 80.7 | 2.8 | 127 | 174 | 71.7 | 4.2 | |

E8.2 Acceptable diet

E8.2.1 Introduction of solid, semi-solid, or soft foods

Coverage of appropriate introduction of solid foods is measured as the percentage of infants 6-8 months of age who received solid or semi-soft foods during the previous day according to caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 92 children who are 6-8 months of age, and 81 of those children have sufficiently complete dietary recall information. Table E8.2 shows that 90.7% of children consumed solid or semi-soft foods.



E8.2.2 Dietary diversity

Coverage of minimum dietary diversity is measured as the percentage of children 6-23 months of age who received foods from at least four food groups during the previous day according to caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 735 children who are 6-23 months of age, and 467 of those children have sufficiently complete dietary recall information to determine dietary diversity. Table E8.2 shows that 66.7% of children achieved the minimum dietary diversity during the previous day.

E8.2.3 Meal frequency

Coverage of minimum meal frequency is measured as the percentage of children 6-23 months of age who received solid foods at least the minimum number of times the previous day, based on age and breastfeeding status. For breastfed children, the minimum is two times for children 6-8 months of age and three times for children 9-23 months of age. For non-breastfed children, the minimum number is four times for all children 6-23 months of age. This information is obtained through caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 735 children who are 6-23 months of age, and 493 of those children have sufficiently complete dietary recall information to determine meal frequency. Table E8.2 shows that 69.2% of children achieved the minimum meal frequency during the previous day.

E8.2.4 Minimum acceptable diet

Coverage of minimum acceptable diet is measured for children 6-23 months of age. For breastfed children to meet the minimum acceptable diet they must have had at least the minimum dietary diversity and the minimum meal frequency during the previous day. For non-breastfed children to meet the minimum dietary diversity (not including milk feedings) and the minimum meal frequency during the previous day. This information is obtained through caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 735 children who are 6-23 months of age, and 317 of those children have sufficiently complete dietary recall information to determine minimum acceptable diet. Table E8.2 shows that 45.3% of children achieved the minimum acceptable diet during the previous day.

E8.2.5 Consumption of iron-rich or iron-fortified foods

Consumption of iron-rich foods is measured as the percentage of children 6-23 months of age who receive an iron-rich food (e.g., liver, beef, or fish), an iron supplement, or a fortified food that is specially designed for infants and young children, or a food fortified in the home with a product that included iron during the previous day. This information is obtained through caregiver's dietary recall. In Honduras during the second follow-up, the sample includes 735 children who are 6-23 months of age and 459 of those children have sufficiently complete dietary recall information to determine iron consumption. Table E8.2 shows that 62.3% of children consumed an iron-rich food during the previous day.



Table E8.2: Acceptable diet among children 6-23 months

| | | Baselin | e 2013 | | Seco | nd Folle | ow-Up 2 | 2017 |
|---|-----|---------|--------|-----|------|----------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Introduction of solid foods among children 6-8 months | 135 | 155 | 86.2 | 2.9 | 81 | 92 | 90.7 | 3.4 |
| Minimum meal frequency among children 6-23 months | 560 | 900 | 62.2 | 2.2 | 493 | 725 | 69.2 | 2.4 |
| Minimum dietary diversity among children 6-23 months | 439 | 936 | 45.8 | 2.1 | 467 | 735 | 66.7 | 2.9 |
| Consumption of iron-rich foods among children 6-23 months | 470 | 936 | 48.4 | 2.3 | 459 | 735 | 62.3 | 2.9 |
| Minimum acceptable diet among children 6-23 months | 273 | 922 | 29.2 | 2.0 | 317 | 731 | 45.3 | 2.7 |

E8.3 Micronutrient supplementation

E8.3.1 Vitamin A

Interviewers asked the caregiver if their child received a dose of vitamin A in the last six months. Table E8.3 shows that of the 2,492 sampled children 0-59 months of age in the second follow-up, 71.9% received a dose of vitamin A in the last six months.

E8.3.2 Iron

Interviewers showed the caregiver photos of common types of bottles, powders, or syrups and asked if their child received iron pills, powder, or syrup in the last day. Table E8.3 shows that of the 2,492 children 0-59 months of age in the second follow-up sample, 24.6% received a dose of iron in the last day.

Table E8.3: Vitamin A and Iron consumption among children 0-59 months

| | | Baseline | 2013 | | Seco | nd Follov | w-Up 20 |)17 |
|----------------------------------|------|----------|------|-----|------|-----------|---------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Vitamin A in the last six months | 2050 | 2926 | 69.9 | 1.3 | 1782 | 2429 | 71.9 | 1.7 |
| Iron supplement the previous day | 645 | 3031 | 20.4 | 1.0 | 617 | 2481 | 24.6 | 1.5 |

E8.3.3 Packets of micronutrients

Interviewers showed the caregiver a card with packets of micronutrients (chispitas) and asked how many packets their child received from a health facility and consumed in the last six months. Children are intended to take 60 consecutive daily doses of micronutrient powder in each of three rounds, beginning at age 6, 12, and 18 months, with an adequate consumption considered to be 50 packets. Table E8.4 shows that among children 6-23 months of age sampled in the second follow-up, 59.2% received no packets of micronutrients from a health facility in the last six months.



Table E8.4: Micronutrient powders among children 6-23 months

| | | Baselin | e 2013 | | Seco | nd Foll | ow-Up 2 | 2017 |
|--|-----|---------|--------|-----|------|---------|---------|------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Received any micronutrient packets from health facility in the last six months | 192 | 927 | 20.1 | 2.0 | 366 | 732 | 40.8 | 2.8 |
| Consumed any micronutrient packets | 191 | 927 | 20.0 | 2.0 | 350 | 720 | 39.5 | 2.8 |
| Consumed adequate dose (>=50 packets) of micronutrient powders | 1 | 927 | 0.1 | 0.1 | 157 | 720 | 17.6 | 1.9 |

* Identical questions were asked in baseline and second follow-up surveys, but the second follow-up interview included photos of the micronutrient products. The baseline survey predated the intervention, so it is possible that questions about receipt and consumption were interpreted by caregivers to include different types of micronutrient supplements at baseline.



E9 CHAPTER 9: NUTRITIONAL STATUS IN CHILDREN

The nutritional status of children aged 0-59 months is an important outcome measure of children's health. The SMI-Honduras Second Follow-up Household Survey collected data on the nutritional status of children by measuring the height and weight of all children aged 0-59 months residing in surveyed households, using standard procedures. Hemoglobin levels of these children were also assessed in the field, using a portable HemoCueTM machine, and these data were used to estimate anemia prevalence. As described in Chapter 1, medically trained personnel who were specifically trained to standardize the anthropometric and hemoglobin measurements conducted the testing. This evaluation allows identification of subgroups of the child population that are at increased risk of malnutrition. The parents of anemic children (hemoglobin level <11.0 g/dL, with altitude adjustment) were informed of this result in real-time and were referred for treatment to the appropriate health service.

Three indicators were calculated using the weight and height data – weight-for-age, height-for-age, and weight-for-height. For this report, indicators of the children's nutritional status were calculated using growth standards published by the World Health Organization (WHO) in 2006. The growth standards were generated using data collected in the WHO Multicenter Growth Reference Study. The findings of the study, whose sample included children in six countries (Brazil, Ghana, India, Norway, Oman, and the United States), describe how children should grow under optimal conditions. As such, the WHO Child Growth Standards can be used to assess children all over the world, regardless of ethnicity, social and economic influences, and feeding practices. The three indicators are expressed in standard deviation units from the median in the Multicenter Growth Reference Study.

A total of 2,492 children aged 0-59 months participated in the SMI-Honduras second follow-up. In practice, 2,442 of these children underwent the physical measurement module. Height and weight data are presented for 2,439 of these children (99.9%, unweighted). Two thousand two hundred fifty children 6-59 months of age were eligible for the anemia test. Hemoglobin was measured in 2,090 children (92.9%, unweighted, of children 6-59 months of age). Parental consent was refused for 149 children, four were not measured because anthropometrists could not obtain a sufficient capillary blood sample or any sample at all, and six cases were not tested for other reasons (for example, because the child did not cooperate). The age and sex distribution of children participating in the physical measurement module is displayed in Figure E9.1 and Figure E9.2.



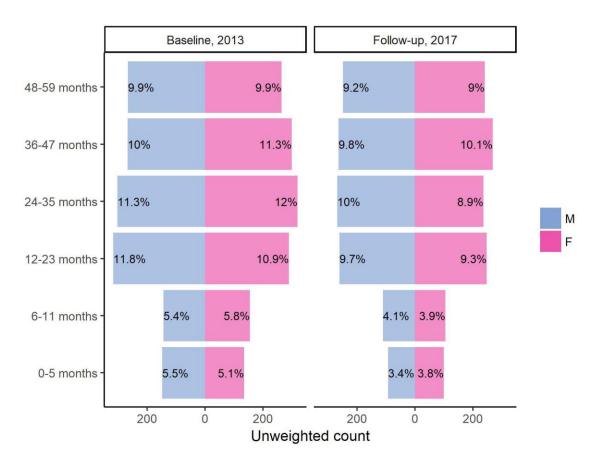


Figure E9.1: Height and weight measured: Age and sex distribution of children measured, children 0-59 months of age of the de facto population



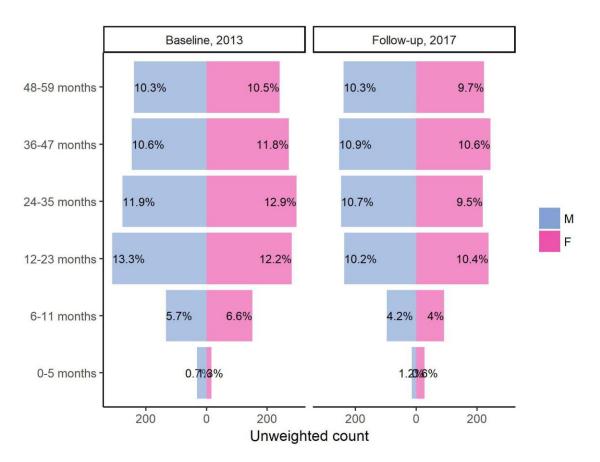


Figure E9.2: Hemoglobin measured: Age and sex distribution of children measured, children 0-59 months of age of the de facto population

E9.1 Weight-for-Age

Weight-for-age is a good overall indicator of a population's general health, as it reflects the effects of both acute and chronic undernutrition. The weight-for-age indicator does not distinguish between chronic malnutrition (stunting) and acute malnutrition (wasting); a child can be underweight because of stunting, wasting, or both. Children with weight-for-age below minus two standard deviations (-2 SD) are classified as underweight. Children with weight-for-age below minus three standard deviations (-3 SD) are considered severely underweight.

E9.1.1 Unweighted distribution of weight-for-age z-scores

Figure E9.3 shows the distribution of weight-for-age z-scores among all children aged 0-59 months whose measurements were taken. The vertical black lines in the figure denote minus two standard deviations – children to the left of the line are classified as underweight.



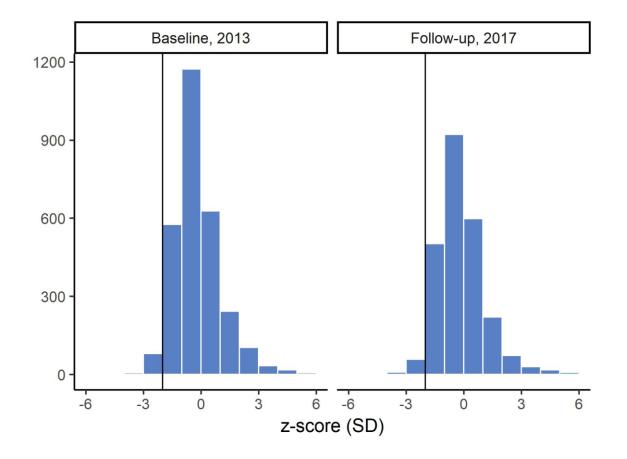


Figure E9.3: Distribution of weight-for-age z-scores among children 0-59 months, unweighted

E9.1.2 Prevalence of underweight

As shown in Table E9.1, 7.8% of children aged 0-59 months in the second follow-up are underweight (have low weight-for-age) and 1.4% are severely underweight. The proportion of underweight children is highest (9.3%) in the age groups 24 to 59 months and lowest (1.8%) among those under 6 months. Female children (7%) are less likely to be underweight than male children (8.6%).



Table E9.1: Prevalence of underweight in children aged 0-59 months

| | | Baselin | e 2013 | | | Second | Follow-Up | 0 2017 |
|--------------------|---------|-----------|-----------|---------|----------|------------|-------------|--------------|
| | n | N | % | SE | n | Ν | % | SE |
| Prevalence of und | erweig | ht in chi | dren 0- | 59 mo | nths, by | / sex and | d age (< -2 | SD) |
| Male | 112 | 1434 | 8.1 | 0.9 | 95 | 1242 | 8.6 | 1.1 |
| Female | 72 | 1452 | 5.4 | 0.6 | 80 | 1200 | 7.0 | 1.1 |
| 0-5 months | 4 | 279 | 1.8 | 0.9 | 4 | 192 | 1.8 | 1.0 |
| 6-11 months | 5 | 298 | 2.0 | 1.0 | 7 | 215 | 4.6 | 1.7 |
| 12-23 months | 35 | 605 | 5.8 | 1.0 | 38 | 508 | 7.1 | 1.3 |
| 24-59 months | 140 | 1704 | 8.6 | 0.8 | 126 | 1527 | 9.3 | 1.2 |
| 0-59 months | 184 | 2886 | 6.7 | 0.6 | 175 | 2442 | 7.8 | 0.9 |
| 6-23 months | 40 | 903 | 4.6 | 0.7 | 45 | 723 | 6.4 | 1.1 |
| Prevalence of seve | ere und | erweigh | t in chil | dren 0 | -59 mo | nths, by | sex and a | ge (< -3 SD) |
| Male | 20 | 1434 | 1.4 | 0.3 | 19 | 1242 | 1.5 | 0.4 |
| Female | 17 | 1452 | 1.3 | 0.3 | 15 | 1200 | 1.2 | 0.3 |
| 0-5 months | 1 | 279 | 0.5 | 0.5 | 1 | 192 | 0.4 | 0.4 |
| 6-11 months | 2 | 298 | 0.6 | 0.5 | 3 | 215 | 1.3 | 0.9 |
| 12-23 months | 5 | 605 | 0.7 | 0.3 | 8 | 508 | 1.3 | 0.6 |
| 24-59 months | 29 | 1704 | 1.8 | 0.4 | 22 | 1527 | 1.5 | 0.4 |
| 0-59 months | 37 | 2886 | 1.3 | 0.3 | 34 | 2442 | 1.4 | 0.3 |
| 6-23 months | 7 | 903 | 0.7 | 0.3 | 11 | 723 | 1.3 | 0.5 |
| Prevalence of high | n weigh | t for age | in chilc | lren 0- | 59 mor | nths, by s | sex and ag | e (> 2 SD) |
| Male | 76 | 1434 | 5.4 | 0.6 | 61 | 1242 | 5.0 | 0.7 |
| Female | 83 | 1452 | 5.3 | 0.6 | 56 | 1200 | 4.7 | 0.7 |
| 0-5 months | 83 | 279 | 30.2 | 2.9 | 57 | 192 | 31.4 | 4.6 |
| 6-11 months | 23 | 298 | 7.4 | 1.5 | 13 | 215 | 5.6 | 1.6 |
| 12-23 months | 28 | 605 | 4.5 | 0.9 | 13 | 508 | 2.5 | 0.7 |
| 24-59 months | 25 | 1704 | 1.4 | 0.3 | 34 | 1527 | 2.0 | 0.4 |
| 0-59 months | 159 | 2886 | 5.3 | 0.4 | 117 | 2442 | 4.8 | 0.5 |
| 6-23 months | 51 | 903 | 5.4 | 0.7 | 26 | 723 | 3.4 | 0.8 |

E9.2 Height-for-Age

Height-for-age is an indicator of linear growth retardation and cumulative growth deficits in children. Children whose height-for-age z-score is below minus two standard deviations (-2 SD) from the median of the WHO reference population are considered short for their age (stunted) or chronically malnourished. Children who are below minus three standard deviations (-3 SD) are considered severely stunted. Stunting reflects failure to receive adequate nutrition over a long period of time and is affected by recurrent and chronic illness. Height-for-age, therefore, represents the long-term effects of malnutrition in a population and is not sensitive to recent, short-term changes in dietary intake.

E9.2.1 Distribution of height-for-age z-scores

Figure E9.4 presents the distribution of height-for-age z-scores among all children aged 0-59 months whose measurements were taken. The vertical black lines in the figure denotes minus two standard deviations – children to the left of the line are classified as stunted.



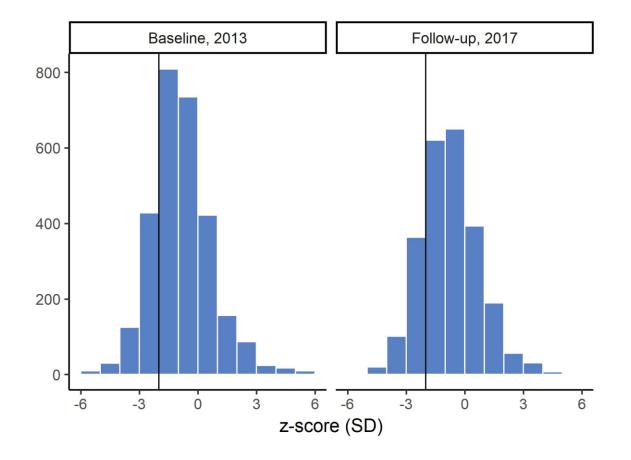


Figure E9.4: Distribution of height-for-age z-scores among children 0-59 months, unweighted

E9.2.2 Prevalence of stunting

Table E9.2 presents the prevalence of stunting in children aged 0-59 months as measured by heightfor-age. In the second follow-up, 20.5% of children under age 5 are stunted and 5.2% are severely stunted. Analysis of the indicator by age group shows that stunting is highest (24.1%) in children 24-59 months and lowest (2%) in children aged 0-5 months. Children 12-23 months old have the highest proportion of severely stunted children (5.2%) while the youngest age group (0-5 months) has the lowest proportion (1.2%). A higher proportion (21.8%) of male children is stunted compared with the proportion of female children (19.2%).



| | | Baseline | e 2013 | | Se | econd Fo | llow-Up 2 | 017 |
|--------------------|----------|------------|---------|--------|---------|----------|------------|----------|
| | n | Ν | % | SE | n | N | % | SE |
| Prevalence of stur | nting in | children | 0-59 m | onths, | by sex | and age | (< -2 SD) | |
| Male | 327 | 1433 | 24.2 | 2.0 | 271 | 1240 | 21.8 | 1.9 |
| Female | 275 | 1448 | 20.4 | 1.7 | 221 | 1199 | 19.2 | 2.2 |
| 0-5 months | 2 | 279 | 0.9 | 0.7 | 6 | 192 | 2.0 | 1.0 |
| 6-11 months | 21 | 298 | 6.9 | 1.5 | 18 | 214 | 7.8 | 2.2 |
| 12-23 months | 122 | 602 | 21.7 | 2.3 | 114 | 508 | 22.6 | 2.8 |
| 24-59 months | 457 | 1702 | 28.5 | 2.1 | 354 | 1525 | 24.1 | 2.5 |
| 0-59 months | 602 | 2881 | 22.3 | 1.6 | 492 | 2439 | 20.5 | 1.8 |
| 6-23 months | 143 | 900 | 16.8 | 1.7 | 132 | 722 | 18.2 | 2.: |
| Prevalence of seve | ere stu | nting in c | hildren | 0-59 n | nonths, | by sex a | and age (< | : -3 SD) |
| Male | 101 | 1433 | 7.6 | 1.0 | 75 | 1240 | 6.1 | 1.: |
| Female | 74 | 1448 | 5.8 | 0.8 | 50 | 1199 | 4.3 | 0.9 |
| 0-5 months | 2 | 279 | 0.9 | 0.7 | 3 | 192 | 1.2 | 0. |
| 6-11 months | 3 | 298 | 1.0 | 0.6 | 5 | 214 | 2.1 | 1.0 |
| 12-23 months | 33 | 602 | 5.7 | 1.0 | 30 | 508 | 5.2 | 1.4 |
| 24-59 months | 137 | 1702 | 9.0 | 1.1 | 87 | 1525 | 6.1 | 1.2 |
| 0-59 months | 175 | 2881 | 6.7 | 0.7 | 125 | 2439 | 5.2 | 0.9 |
| 6-23 months | 36 | 900 | 4.1 | 0.7 | 35 | 722 | 4.3 | 1.0 |

Table E9.2: Prevalence of stunting in children aged 0-59 months

E9.3 Weight-for-Height

The weight-for-height indicator measures body mass in relation to body height or length and describes current nutritional status. Children with z-scores below minus two standard deviations (-2 SD) are considered thin (wasted) or acutely malnourished. Wasting represents the failure to receive adequate nutrition in the period immediately preceding the survey and may be the result of inadequate food intake or a recent episode of illness causing loss of weight and the onset of malnutrition. Children with a weight-for-height index below minus three standard deviations (-3 SD) are considered severely wasted. This weight-for-height indicator also provides data on over-weight and obesity. Children more than two standard deviations (+2 SD) above the median weight-for-height are considered overweight or obese.

E9.3.1 Distribution of weight-for-height z-scores

Figure E9.5 shows the distribution of weight-for-height z-scores among all children aged 0-59 months whose measurements were taken. The vertical black lines in the figure denote minus two standard deviations – children to the left of the line are classified as wasted.



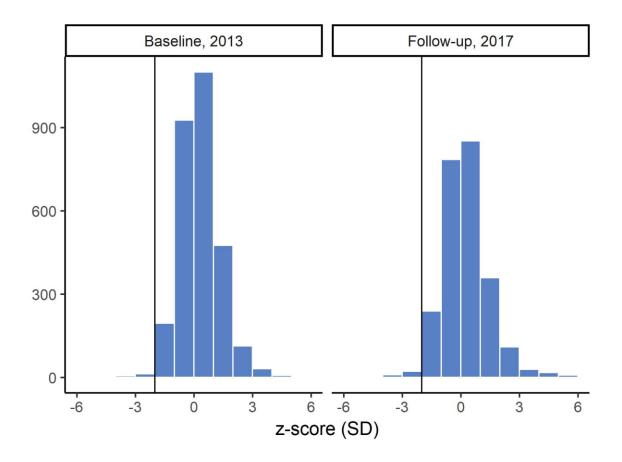


Figure E9.5: Distribution of weight-for-height z-scores among children 0-59 months, unweighted

E9.4 Prevalence of Wasting

Table E9.3 shows the breakdown of nutritional status of children aged 0-59 months as measured by weight-for-height by age groups and sex. In the second follow-up, 3% of children are wasted and 0.9% of children are severely wasted. Analysis of the indicator by age group shows that wasting is highest (4%) in children 12-23 months old and lowest (5.3%) in children aged 6-11 months. Male children are more likely to be wasted than female children (3.6% to 2.4%). Male children are slightly more likely to be severely wasted (0.9%) than females (0.8%).

Overweight and obesity affect a greater proportion of children in SMI areas Honduras than wasting. In this sample, 5.5% of children are overweight or obese (weight-for-height more than +2 SD). The coexistence of both growth retardation and obesity reveals the burden of malnutrition in Honduras.



Table E9.3: Prevalence of underweight in children aged 0-59 months

| | | Baseline | e 2013 | | Se | econd Fo | llow-Up 2 | 017 |
|--------------------|---------|------------|---------|--------|---------|----------|------------|--------|
| | n | Ν | % | SE | n | Ν | % | SE |
| Prevalence of was | ting in | children | 0-59 m | onths, | by sex | and age | (< -2 SD) | |
| Male | 28 | 1432 | 2.1 | 0.4 | 37 | 1238 | 3.6 | 1.0 |
| Female | 10 | 1448 | 0.8 | 0.3 | 27 | 1199 | 2.4 | 0.6 |
| 0-5 months | 3 | 279 | 1.1 | 0.7 | 6 | 191 | 4.2 | 1.5 |
| 6-11 months | 5 | 298 | 2.3 | 1.1 | 6 | 214 | 5.3 | 2.0 |
| 12-23 months | 16 | 602 | 2.7 | 0.7 | 21 | 508 | 4.0 | 1.0 |
| 24-59 months | 14 | 1701 | 0.9 | 0.3 | 31 | 1524 | 2.2 | 0.5 |
| 0-59 months | 38 | 2880 | 1.5 | 0.2 | 64 | 2437 | 3.0 | 0.5 |
| 6-23 months | 21 | 900 | 2.6 | 0.6 | 27 | 722 | 4.4 | 1.0 |
| Prevalence of seve | ere was | ting in c | hildren | 0-59 m | nonths, | by sex a | nd age (< | -3 SD) |
| Male | 11 | 1432 | 0.8 | 0.3 | 9 | 1238 | 0.9 | 0.4 |
| Female | 5 | 1448 | 0.4 | 0.2 | 10 | 1199 | 0.8 | 0.3 |
| 0-5 months | 1 | 279 | 0.7 | 0.7 | 3 | 191 | 2.4 | 1.3 |
| 6-11 months | 2 | 298 | 0.6 | 0.4 | 1 | 214 | 1.0 | 0.9 |
| 12-23 months | 5 | 602 | 0.7 | 0.3 | 6 | 508 | 1.3 | 0.6 |
| 24-59 months | 8 | 1701 | 0.5 | 0.2 | 9 | 1524 | 0.5 | 0.2 |
| 0-59 months | 16 | 2880 | 0.6 | 0.2 | 19 | 2437 | 0.9 | 0.2 |
| 6-23 months | 7 | 900 | 0.7 | 0.3 | 7 | 722 | 1.2 | 0.5 |
| Prevalence of ove | rweigh | t in child | ren 0-5 | 9 mon | ths, by | sex and | age (> 2 S | D) |
| Male | 64 | 1432 | 4.4 | 0.5 | 81 | 1238 | 5.9 | 0.8 |
| Female | 77 | 1448 | 5.4 | 0.6 | 64 | 1199 | 5.1 | 0.9 |
| 0-5 months | 29 | 279 | 10.0 | 2.0 | 26 | 191 | 13.6 | 3.4 |
| 6-11 months | 28 | 298 | 9.8 | 1.7 | 11 | 214 | 5.9 | 1.8 |
| 12-23 months | 28 | 602 | 4.8 | 0.9 | 24 | 508 | 4.2 | 0.9 |
| 24-59 months | 56 | 1701 | 3.3 | 0.5 | 84 | 1524 | 4.8 | 0.8 |
| 0-59 months | 141 | 2880 | 4.9 | 0.5 | 145 | 2437 | 5.5 | 0.7 |
| 6-23 months | 56 | 900 | 6.4 | 0.9 | 35 | 722 | 4.7 | 0.8 |

E9.5 Anemia

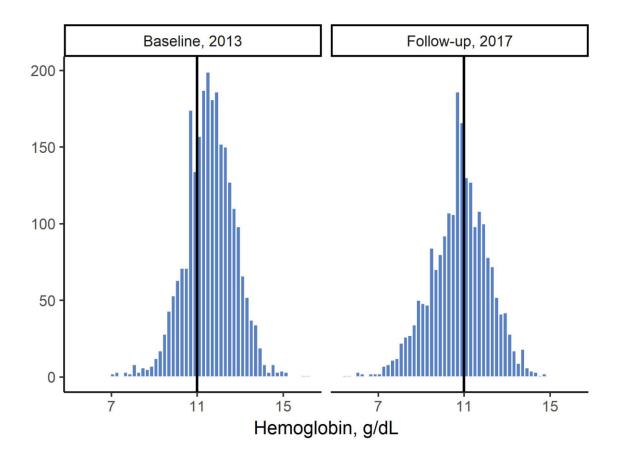
Anemia is a condition characterized by low concentration of hemoglobin in the blood. Hemoglobin is necessary for transporting oxygen to tissues and organs in the body. The reduction in oxygen available to organs and tissues when hemoglobin levels are low is responsible for most of the symptoms experienced by anemic persons. The consequences of anemia include general body weakness, frequent tiredness, and lowered resistance to disease. It is of concern in children because anemia is associated with impaired mental and motor development. Overall, morbidity and mortality risks increase for individuals suffering from anemia.

Common causes of anemia include inadequate intake of iron, folate, vitamin B12, or other nutrients. This form of anemia is commonly referred to as iron-deficiency anemia and is the most widespread form of anemia in the world. Anemia can also be the result of thalassemia, sickle cell disease, malaria, or intestinal worm infestation.

E9.5.1 Distribution of hemoglobin values

Figure E9.6 shows the distribution of hemoglobin values (in g/dL) among children 0-59 months of age. The vertical black lines in the figure denote a hemoglobin concentration of 11.0 g/dL – children to the left of the line are classified as anemic.

Figure E9.6: Distribution of altitude-adjusted hemoglobin values among children 0-59 months, unweighted



E9.5.2 Prevalence of anemia

Levels of anemia were classified as severe (<7.0 g/dL) and any (<11.0 g/dL) based on the hemoglobin concentration in the blood. The cutpoints for anemia are adjusted (raised) in settings where altitude is more than 1,000 meters above sea level, to account for lower oxygen partial pressure, a reduction in oxygen saturation of blood, and an increase in red blood cell production. Although some regions of Honduras are mountainous and well above 1,000 meters, the majority of the population resides at lower levels. The highest elevation of a surveyed household at the second follow-up was 1,989 meters above sea level; 19% of children (unweighted) lived above 1,000 meters. Correction for elevation was applied to anemia diagnosis where data collectors measured altitude over 1,000m (using a handheld GPS device).



Children whose hemoglobin levels are below 11 g/dL are considered anemic, and children who have hemoglobin levels below 7 g/dL are considered severely anemic. Table E9.4 indicates that 52.5% of children under age 5 in Honduras are anemic. Overall, the anemia prevalence is mostly mild to moderate (52%), with only 0.5% of children under 5 years presenting as severely anemic. Anemia prevalence is highest among children aged 0-5 months (74.9%) compared with the other children. More than 67.4% of all children aged 6-23 months, our targeted population for anemia intervention, were found to be anemic.

Table E9.4: Prevalence of anemia, children aged 0-59 months

| | | Baseline | e 2013 | | Seco | nd Follov | w-Up 20 |)17 |
|--------------------|----------|-----------|---------|--------|----------|-----------|---------|-----|
| | n | Ν | % | SE | n | Ν | % | SE |
| Prevalence of ane | mia in (| children | 0-59 m | onths, | by sex a | nd age | | |
| Male | 351 | 1236 | 28.0 | 1.8 | 581 | 1090 | 55.7 | 1.9 |
| Female | 290 | 1256 | 23.3 | 1.7 | 506 | 1042 | 49.0 | 1.9 |
| 0-5 months | 19 | 47 | 38.9 | 6.7 | 32 | 42 | 74.9 | 7.1 |
| 6-11 months | 133 | 284 | 46.2 | 3.9 | 152 | 188 | 81.6 | 3.0 |
| 12-23 months | 205 | 591 | 34.0 | 2.3 | 285 | 475 | 61.8 | 2.7 |
| 24-59 months | 284 | 1570 | 18.4 | 1.5 | 618 | 1427 | 44.9 | 1.9 |
| 0-59 months | 641 | 2492 | 25.6 | 1.5 | 1087 | 2132 | 52.5 | 1.5 |
| 6-23 months | 338 | 875 | 37.9 | 2.3 | 437 | 663 | 67.4 | 2.2 |
| Prevalence of seve | ere ane | mia in cl | hildren | 0-59 m | onths, b | y sex an | d age | |
| Male | 0 | 1236 | 0.0 | - | 5 | 1090 | 0.3 | 0.2 |
| Female | 0 | 1256 | 0.0 | - | 6 | 1042 | 0.7 | 0.3 |
| 0-5 months | 0 | 47 | 0.0 | - | 0 | 42 | 0.0 | - |
| 6-11 months | 0 | 284 | 0.0 | - | 1 | 188 | 0.4 | 0.4 |
| 12-23 months | 0 | 591 | 0.0 | - | 6 | 475 | 1.6 | 0.7 |
| 24-59 months | 0 | 1570 | 0.0 | - | 4 | 1427 | 0.2 | 0.1 |
| 0-59 months | 0 | 2492 | 0.0 | - | 11 | 2132 | 0.5 | 0.2 |
| 6-23 months | 0 | 875 | 0.0 | - | 7 | 663 | 1.2 | 0.5 |

E10 CHAPTER 10: SMI HOUSEHOLD INDICATORS

Table E10.1: Performance of payment indicators, SMI-Honduras Second Follow-up Survey

| | | | Baselin | e 2013 | | Second Follow-Up 2017 | | | | |
|------|--|-----|---------|--------|-----|-----------------------|------|------|-----|--|
| | Indicator | n | Ν | % | | n | Ν | % | SE | |
| 4010 | Women (age 15-49) delivered in CMI/hospital with skilled attendant in their most recent pregnancy in the last two years | 923 | 1313 | 69.0 | 2.4 | 847 | 1019 | 81.5 | 2.3 | |
| 4030 | Women (age 15-49) who received postpartum care within 7 days with skilled personnel in their most recent pregnancy in the last two years | 666 | 1305 | 49.4 | 2.2 | 654 | 1020 | 66.3 | 3.0 | |
| NA | Children (6-23 months) consumed at least 50 doses of micronutrients in the last 6 months | 1 | 926 | 0.1 | 0.1 | 157 | 720 | 17.6 | 1.9 | |

Table E10.2: Performance of monitoring indicators, SMI-Honduras Follow-up Survey

| | | | Baseline | 2013 | | Seco | ond Follo | w-Up 20 | 17 |
|------|---|------|----------|------|-----|------|-----------|---------|-----|
| | Indicator | n | Ν | % | SE | n | Ν | % | SE |
| 2010 | Women (age 15-49) currently using (or whose partner is using) a modern method of family planning | 1302 | 1861 | 66.4 | 2.6 | 1313 | 1738 | 75.1 | 2.2 |
| 1080 | Women aged 15-49 with a live birth in the last year | 564 | 3537 | 10.5 | 0.5 | 361 | 3099 | 7.3 | 0.6 |
| 1090 | Women aged 15-19 with a live birth in the last year | 118 | 699 | 12.0 | 1.4 | 77 | 595 | 7.4 | 1.3 |
| 2020 | Women (age 15-49) who did not wish to become pregnant and who were not using/not have access to family planning methods (temporary and permanent) | 559 | 1861 | 33.6 | 2.6 | 425 | 1738 | 24.9 | 2.2 |
| 2030 | Women (age 15-49) who report having stopped using a method of family planning during the previous year | 42 | 1471 | 3.5 | 0.8 | 48 | 1397 | 3.4 | 1.0 |
| 4110 | Women (age 15-49) with a birth in the last two years who can recognize at least 5 danger signs in newborns | 234 | 1132 | 21.7 | 2.0 | 279 | 852 | 33.5 | 3.3 |
| 6010 | Women 15-49 who report having any illness in the past two weeks | 816 | 3535 | 24.3 | 1.4 | 581 | 3095 | 22.1 | 1.5 |
| 6020 | Women (age 15-49) who report having any illness in the past two weeks but did not seek health care | 521 | 816 | 62.3 | 2.5 | 381 | 581 | 63.3 | 3.4 |
| 6130 | Women who reported satisfaction with health care services at their most recent visit to a health facility | 1765 | 1865 | 95.1 | 0.7 | 1881 | 1975 | 96.0 | 0.6 |
| 6140 | Women who reported satisfaction with cleanliness of the facility at their most recent visit to a health facility | 1166 | 1871 | 62.1 | 2.1 | 1455 | 1975 | 76.2 | 1.9 |
| 6150 | Women who reported satisfaction with competence of the medical personnel at their most recent visit to a health facility | 1781 | 1836 | 97.4 | 0.5 | 1899 | 1968 | 97.6 | 0.5 |
| 6160 | Women who reported they were treated with respect at their most recent visit to a health facility | 1204 | 1874 | 66.5 | 1.8 | 1437 | 1979 | 76.1 | 2.0 |
| 3010 | Women (age 15-49) who received at least one antenatal care visit by skilled personnel in their most recent pregnancy in the last two years | 1115 | 1313 | 84.7 | 1.7 | 956 | 1020 | 93.0 | 1.5 |
| 3020 | Women (age 15-49) who received at least four antenatal care visits by skilled personnel in their most recent pregnancy in the last two years | 938 | 1301 | 71.1 | 2.1 | 867 | 1005 | 85.3 | 1.8 |
| 4020 | Women (age 15-49) who received postpartum care by skilled personnel within the first 48 hours in their most recent pregnancy in the last two years | 565 | 1305 | 42.1 | 2.1 | 444 | 1020 | 47.8 | 3.4 |
| 4035 | Women (age 15-49) who received postpartum care by skilled personnel between 7 and 42 days after delivery in their most recent pregnancy in the last two years | 229 | 1305 | 16.7 | 1.7 | 342 | 1020 | 35.5 | 3.2 |



(continued)

| | | | Baseline | 2013 | | Seco | ond Follo | w-Up 20 | 17 |
|------|--|------|----------|------|-----|------|-----------|---------|-----|
| | Indicator | n | Ν | % | SE | n | Ν | % | SE |
| 4040 | Women (age 15-49) who received postpartum care by skilled personnel within 24 hours after delivery, a second check before 7 days, and a third check between 7 and 42 days after delivery in their most recent pregnancy in the last two years | 24 | 1305 | 1.5 | 0.5 | 39 | 1020 | 4.5 | 1.1 |
| 4100 | Infants receiving neonatal care by skilled personnel in a health facility within 48 hours of birth in the last two years | 544 | 1259 | 41.7 | 2.1 | 332 | 906 | 39.1 | 4.4 |
| 4101 | Infants receiving neonatal care by skilled personnel in a health facility within 24 hours of birth in the last two years | 431 | 1259 | 33.1 | 1.9 | 236 | 906 | 27.8 | 3.4 |
| 5050 | Children born in the last two years who were breastfed within one hour after birth | 1059 | 1392 | 75.8 | 1.8 | 820 | 1030 | 78.6 | 1.9 |
| 5060 | Children 0-59 months who received ORS and zinc in the last episode of diarrhea in the past two weeks | 4 | 149 | 3.2 | 1.5 | 4 | 90 | 3.8 | 2.1 |
| 4145 | Children (0-59 months) with pneumonia symptoms who received antibiotics | 192 | 276 | 68.8 | 3.9 | 115 | 195 | 59.1 | 5.4 |
| NA | Children (0-59 months) fully vaccinated for age, according to vaccine card and recall | 1126 | 2812 | 39.8 | 1.4 | 1569 | 2358 | 65.6 | 2.2 |
| 5010 | Children 12-59 months who received 2 doses of deworming in the last year | 923 | 2364 | 39.8 | 1.5 | 566 | 1993 | 30.3 | 1.5 |
| 5040 | Children 0-5 months who were exclusively breastfed on the previous day | 131 | 285 | 47.1 | 3.7 | 88 | 200 | 39.8 | 4.9 |
| 5075 | Children 6-23 months who consumed at least 60 packets of micronutrients (complete dose) in the last 6 months | 0 | 927 | 0.0 | - | 137 | 720 | 15.5 | 1.9 |
| 5080 | Children 12-15 months who were breastfed on the previous day | 171 | 212 | 80.7 | 2.8 | 127 | 174 | 71.7 | 4.2 |
| 5090 | Children 6-8 months who received solid or semi-solid food on the previous day | 135 | 155 | 86.2 | 2.9 | 81 | 92 | 90.7 | 3.4 |
| 5100 | Children 6-23 months who received foods from 4 or more food groups during the previous day | 439 | 936 | 45.8 | 2.1 | 467 | 735 | 66.7 | 2.9 |
| 5110 | Children 6-23 months breastfed or complimentary feeding who received solid, semi-solid, or soft foods the minimum number of times or more during the previous day | 560 | 900 | 62.2 | 2.2 | 493 | 725 | 69.2 | 2.4 |
| 5120 | Children 6-23 months who received the minimum acceptable diet (apart from breastmilk) during the previous day | 273 | 922 | 29.2 | 2.0 | 317 | 731 | 45.3 | 2.7 |
| 5130 | Children 6-23 months who received iron-rich or iron-fortified foods during the previous day | 470 | 936 | 48.4 | 2.3 | 459 | 735 | 62.3 | 2.9 |
| 6030 | Children (0-59 months) who had any illness in the past two weeks, according to report of mother or caregiver | 1108 | 3045 | 37.3 | 1.3 | 774 | 2490 | 32.5 | 1.8 |
| 6040 | Children (0-59 months) who had any illness in the past two weeks but did not seek health care, according to report of mother or caregiver | 10 | 1089 | 0.9 | 0.3 | 4 | 769 | 0.5 | 0.3 |
| 1060 | Children 6-23 months with hemoglobin <110g/L | 338 | 875 | 37.9 | 2.3 | 437 | 663 | 67.4 | 2.2 |
| 1070 | Children 0-59 months with height < -2 SD of the mean of the reference population for age | 602 | 2881 | 22.3 | 1.6 | 492 | 2439 | 20.5 | 1.8 |



| | | В | aseline 20 | 13 | Secon | d Follow-U | p 2017 |
|------|--|------|------------|-------|-------|------------|--------|
| | Indicator | N | mean | SE | N | mean | SE |
| 6090 | Average out-of-pocket household itemized health expenditure for the last month (L) | 2921 | 224.3 | 44.2 | 2433 | 298.0 | 47.4 |
| 6100 | Average household itemized expenditure for the last month (L) | 2966 | 3866.3 | 139.2 | 2437 | 5048.5 | 268.9 |
| 6080 | Average travel time to nearest health facility (min) | 3401 | 51.2 | 4.3 | 2983 | 46.2 | 5.0 |
| 6085 | Average distance to nearest health facility (km) | 910 | 3.9 | 0.5 | 2003 | 4.8 | 0.8 |
| 6120 | Average wait time at most recent visit to a health facility (min) | 1828 | 86.2 | 4.9 | 1890 | 95.5 | 5.8 |
| 6082 | Average travel time to delivery location for most recent birth in the last two years (min) | 1015 | 143.0 | 8.8 | 891 | 145.4 | 12.2 |