

SM2015-Nicaragua

Baseline Household Census & Survey

Final Report

January 2014



Table of Contents

TABLES AND FIGURES	5
Tables	5
Figures	10
CHAPTER 1: INTRODUCTION	13
1.1 Objectives	13
1.2 Design	13
1.2.1 Sample selection	13
1.2.2 Instruments for data collection	16
1.2.3 Training of data collectors	17
1.2.4 Data collection	18
1.2.5 Data entry and data analysis	19
1.2.6 Final sample description	19
CHAPTER 2: CHARACTERISTICS OF HOUSEHOLDS	23
2.1 Characteristics of Non-Participating Households	23
2.2 Characteristics of Participating Households	23
2.3 Household Composition	23
2.3.1 Age and sex composition	23
2.3.2 Housing composition	24
2.4 Drinking Water Access and Treatment	26
2.4.1 Sanitation facilities and waste disposal	26
2.4.2 Cooking fuel sources	28
2.4.3 Household wealth	29
2.5 Household Expenditures	33
2.5.1 Total expenditures by type	33
2.5.2 Health expenditures	
2.5.3 Source of health expenditure financing	37
CHAPTER 3: GENERAL CHARACTERISTICS OF RESPONDENTS	39
3.1 Demographic Characteristics	39
3.1.1 Age, marital status, relation to head of household	39
3.1.2 Residence	40
3.2 Educational Attainment and Literacy	42
3.3 Employment	
3.4 Exposure to Mass Media	
3.5 Access to Health Services	
3.5.1 Proximity to health care facilities	46
3.6 Health Status	
3.6.1 Current health status	
3.6.2 Recent illness	
3.6.3 Utilization of health services	51
3.6.4 Insurance coverage	
3.6.5 Other barriers to health care access	
CHAPTER 4: FERTILITY	58
4.1 Fertility Rates	
4.1.1 Age-specific fertility rates	
4.1.2 Total fertility rate	
4.2 Age at first birth	
4.2.1 Age at first birth	
4.3 Birth Intervals	
4.3.1 Intervals between births	60



4.4 Fertility Preferences	62
4.4.1 Desire for more children	62
4.4.2 Ideal birth interval	63
CHAPTER 5: FAMILY PLANNING	65
5.1 Knowledge of the Fertile Period	65
5.2 Use of Family Planning Methods	65
5.2.1 Current use	65
5.3 Sources of Family Planning Methods	68
5.4 Non-Use and Interruption of Use of Family Planning Methods	73
5.4.1 Prevalence	73
5.4.2 Reasons	75
5.5 Family Planning Intentions and Decision-Making	78
5.5.1 Participation in family planning decision	78
5.5.2 Informed choice	79
5.6 Exposure to Family Planning Information	79
5.6.1 Family planning messages delivered by health care providers	79
CHAPTER 6: MATERNAL HEALTH CARE	81
6.1 Antenatal Care	81
6.1.1 Antenatal care coverage	81
6.1.2 Frequency of antenatal care visits	84
6.1.3 Content of antenatal care	85
6.1.4 Coverage of tetanus toxoid vaccinations during pregnancy	87
6.1.5 Exposure to safe pregnancy messages	89
6.2 Delivery Care	91
6.2.1 Place of delivery	91
6.2.2 Assistance at delivery	93
6.2.3 Complications	
6.2.4 Birth size and weight	98
6.3 Postnatal Care	99
6.3.1 Postnatal Checkup for the Mother	99
6.3.2 Postnatal Checkup for the Baby	
CHAPTER 7: CHILD HEALTH	104
7.1 Health Status	104
7.1.1 Current health status	104
7.1.2 Recent illness	
7.1.3 Utilization of health services for recent illness	
7.2 Acute Respiratory Infection	110
7.2.1 Prevalence of acute respiratory infection and fever	
7.2.2 Utilization of health services for acute respiratory infection	112
7.2.3 Utilization of medications for acute respiratory infection	
7.2.4 Feeding practices during acute respiratory infection	
7.3 Diarrhea	
7.3.1 Prevalence	
7.3.2 Utilization of health services for diarrhea	
7.3.3 Utilization of treatments for diarrhea	
7.3.4 Feeding practices during diarrhea	
7.4 Immunization against common childhood illnesses	
7.5 De-worming treatment	
CHAPTER 8: INFANT AND YOUNG CHILDREN FEEDING PRACTICES	
8.1 Breastfeeding	
8.1.1 Early initiation of breastfeeding	
8.1.2 Exclusive breastfeeding	129



8.1.3 Continued breastfeeding at 1 year	
8.2 Solid Foods	131
8.2.1 Introduction of solid, semi-solid or soft foods	131
8.2.2 Dietary diversity	131
8.2.3 Meal frequency	131
8.2.4 Minimum acceptable diet	131
8.2.5 Consumption of iron-rich or iron-fortified foods	131
8.3 Micronutrient Supplementation	133
8.3.1 Vitamin A	133
8.3.2 Iron	133
8.3.3 Packets of micronutrients	133
CHAPTER 9: NUTRITIONAL STATUS IN CHILDREN	. 135
9.1 Weight-for-Age	137
9.1.1 Distribution of weight-for-age z-scores	137
9.1.2 Prevalence of underweight	138
9.2 Height-for-Age	138
9.2.1 Distribution of height-for-age z-scores	138
9.2.2 Prevalence of stunting	139
9.3 Weight-for-Height	139
9.3.1 Distribution of weight-for-height z-scores	139
9.3.2 Prevalence of wasting	140
9.4 Anemia	140
9.4.1 Distribution of hemoglobin values	141
9.4.2 Prevalence of anemia	141
CHAPTER 10: EXPOSURE TO HEALTH SYSTEM INTERVENTIONS	. 143
10.1 Exposure to Community Health Workers	143
10.2 Exposure to Breastfeeding Interventions	146
10.3 Exposure to Child Nutrition Interventions	146
10.4 Exposure to Child Health Interventions	146
10.5 Satisfaction with community health workers	147
CHAPTER 11: NEONATAL, INFANT, AND CHILD MORTALITY	. 149
11.1 Neonatal Mortality	149
11.2 Infant Mortality	
11.3 Mortality in Children Under Five Years of Age	150
APPENDIX A. SAMPLING DESIGN AND METHODOLOGY	. 153
A.1 Sample Size and Statistical Power Calculations	153
A.1.1 Sample sizes	153
A.1.2 Prior levels of indicators	154
A.1.3 Statistical power calculation	154
A.2 Sampling Procedures	154
A.2.1 Primary sample	155
APPENDIX B. SURVEY WEIGHTS, SAMPLING ERRORS, AND DESIGN EFFECTS	. 156
B.1 Weighting Methodology	156
B.2 Sampling Errors	157
B.3 Design Effects for Key Indicators	157
APPENDIX C. SM2015 HOUSEHOLD INDICATORS	
APPENDIX D. CHARACTERISTICS OF RESPONDENTS OVERALL (IN INTERVENTION AND CONTROL SEGMENTS) .	. 163
APPENDIX F. CHARACTERISTICS OF RESPONDENTS IN CONTROL SEGMENTS	. 253



TABLES AND FIGURES

Tables Table 1.2.6 Number of households, number of eligible women, number of eligible children, and response rates by Table 1.2.7 Number of households, women and children selected and interviewed22 Table 2.3.1 Household composition: age and sex24 Table 3.1.2 Department and municipality of residence of respondents41 Table 3.2.1 Educational attainment and literacy.......42 Table 3.5.1a Proximity to health care facilities: nearest health facility.......47 Table 3.5.1b Proximity to health care facilities: usual health facility47 Table 3.5.1c Proximity to health care facilities: health facility for delivery......48 Table 3.6.1 Current health status49 Table 3.6.4 Insurance coverage54 Table 3.6.5 Other barriers to health care utilization56 Table 4.1.1 Age-specific fertility rates58 Table 4.1.2 Total fertility rate59 Table 4.2.1 Parity and age at first birth60 Table 5.1.1 Knowledge of the fertile period65 Table 5.2.1c Current use of modern family planning methods68 Table 5.3.1a Source of family planning methods69 Table 5.3.1b Source of family planning methods70 Table 5.3.1c Source of family planning methods......71 Table 5.3.1d Source of family planning methods72 Table 5.4.1 Interruption and non-use of family planning methods......74



Table 5.5.2a Family planning decision-making - informed choice	79
Table 5.6.1 Family planning messages delivered by health care providers	80
Table 6.1.1a Antenatal care coverage for the most recent birth in the last two years	82
Table 6.1.1b Antenatal care coverage for the most recent birth in the last two years	83
Table 6.1.1c Antenatal care coverage for the most recent birth in the last two years	84
Table 6.1.2 Frequency of antenatal care visits	
Table 6.1.3a Content of antenatal care visits - best practices	
Table 6.1.3b Content of antenatal care visits - other services provided	
Table 6.1.4 Coverage of tetanus toxoid vaccinations during pregnancy	
Table 6.1.5 Exposure to safe pregnancy messages	
Table 6.2.1 Place of delivery	
Table 6.2.2a Assistance at delivery: type of attendants	
Table 6.2.2b Assistance at delivery: number of attendants	
Table 6.2.2c Assistance at delivery: in-facility delivery with skilled birth attendant	
Table 6.2.3 Mode of delivery and complications	
Table 6.2.4 Birth size and weight	
Table 6.3.1a Postnatal checkup for the mother	
Table 6.3.1b Postnatal checkup for the mother: providers	
Table 6.3.2a Postnatal checkup for the mounter.	
Table 6.3.2b Postnatal checkup for the neonate: providers	
Table 0.5.2b Fostilatal checkup for the heoriate, providers	
Table 7.1.1 Current health status	
Table 7.1.2 Recent illness	
Table 7.1.3 Utilization of health services for recent illness	
Table 7.2.1 Prevalence of acute respiratory infection and fever	
Table 7.2.2 Utilization of health services for acute respiratory infection	
Table 7.2.3a Utilization of medications for acute respiratory infection	
Table 7.2.4 Feeding practices during acute respiratory infection	
Table 7.3.1 Prevalence of diarrhea	
Table 7.3.2 Utilization of health services for diarrhea	
Table 7.3.3a Utilization of treatments for diarrhea	
Table 7.3.3b Utilization of oral rehydration solution and zinc for diarrhea	
Table 7.3.4 Feeding practices during diarrhea	
Table 7.4a Immunization against common childhood illnesses	
Table 7.4b Immunization against common childhood illnesses, according to age group	
Table 7.5 De-worming treatment	
Table 8.1 Breastfeeding	
Table 8.2 Solid foods	
Table 8.3 Micronutrient supplements	
Table 9 Age and sex of children measured	
Table 9.2 Prevalence of underweight in children aged 0-59 months	
Table 9.4.2 Prevalence of anemia in children aged 0-59 month	
Table 10.1.1 Exposure to community health workers	
Table 10.1.2 Services provided by community health workers	
Table 10.4.1 Exposure to breastfeeding, child nutrition, and child health interventions	
Table 10.4.2 Exposure to child health interventions, by source	
Table 10.5 Satisfaction with community health workers	
Table 11.3a Mortality in children under 5 years of age in the target area of the initiative	
Table 11.3b Mortality in children under 5 years of age at the national-level	151
Table A.1.1 Comparison of characteristics for households visited and not visited	154
Table B.1 Design effects, SM2015-Nicaragua Baseline Household Survey, 2013	159



Table C.1 Performance of payment and non-payment indicators among intervention areas, SM20:	
Baseline Household Survey, 2013	
Table C.2 Performance of payment and non-payment indicators overall (intervention and control are	
Nicaragua Baseline Household Survey, 2013	
Table C.3 Performance of payment and non-payment indicators among control areas, SM2015-Nicara	
Household Survey, 2013	
Table D.2.3.1 Household composition: age and sex	163
Table D.2.3.2 Household composition	164
Table D.2.4.1a Household characteristics: water source	
Table D.2.4.1b Household characteristics: sanitation	166
Table D.2.4.2 Household characteristics: cooking fuel	
Table D.2.4.3a Availability of assets: household effects	
Table D.2.4.3b Availability of assets: means of transportation	
Table D.2.4.3c Availability of assets: other assets	
Table D.2.5.1a Total household expenditures per person	
Table D.2.5.1b Household expenditures by type	
Table D.2.5.1c Household health care expenditures by type	
Table D.2.5.2 Household medical expenditures by type	
Table D.2.5.3 Household medical expenditures by source of financing	
Table D.3.1.1 Demographic characteristics of respondents	
Table D.3.1.2 Department and municipality of residence of respondents	
Table D.3.2.1 Educational attainment and literacy	
Table D.3.3 Employment	
Table D.3.4.1 Exposure to mass media	
Table D.3.5.1a Proximity to health care facilities: nearest health facility	
Table D.3.5.1b Proximity to health care facilities: usual health facility	
Table D.3.5.1c Proximity to health care facilities: health facility for delivery	
Table D.3.5.1d Proximity to health care facilities: health facility for recent illness	
Table D.3.6.1 Current health status	
Table D.3.6.2 Recent illness	
Table D.3.6.3 Utilization of health services	
Table D.3.6.4 Insurance coverage	
Table D.3.6.5 Other barriers to health care utilization	
Table D.4.2.1 Parity and age at first birth	
Table D.4.3.1 Intervals between births	
Table D.4.4.1 Desire for more children	
Table D.5.1.1 Knowledge of the fertile period	
· · · · · · · · · · · · · · · · · · ·	
Table D.5.2.1a Current use of family planning methods	
Table D.5.2.1b Current use of family planning methods, by type of method	
• • • • • • • • • • • • • • • • • • • •	
Table D.5.3.1a Source of family planning methods	
Table D.5.3.1c Source of family planning methods	
Table D.5.3.1d Source of family planning methods	
Table D.5.4.1 Interruption and non-use of family planning methods	
Table D.5.4.2 Reasons for interruption and non-use of family planning methods	
Table D.5.4.2b Reasons for interruption and non-use of family planning methods	
Table D.5.5.1 Participation in family planning decision-making	
Table D.5.5.2a Family planning decision-making - informed choice	
Table D.5.6.1 Family planning messages delivered by health care providers	
Table D.6.1.1a Antenatal care coverage for the most recent birth in the last two years	



Table D.6.1.1b Antenatal care coverage for the most recent birth in the last two years	207
Table D.6.1.1c Antenatal care coverage for the most recent birth in the last two years	208
Table D.6.1.2 Frequency of antenatal care visits	209
Table D.6.1.3a Content of antenatal care visits - best practices	210
Table D.6.1.3b Content of antenatal care visits - other services provided	211
Table D.6.1.4 Coverage of tetanus toxoid vaccinations during pregnancy	212
Table D.6.1.5 Exposure to safe pregnancy messages	213
Table D.6.2.1 Place of delivery	214
Table D.6.2.2a Assistance at delivery: type of attendants	215
Table D.6.2.2b Assistance at delivery: number of attendants	216
Table D.6.2.2c Assistance at delivery: in-facility delivery with skilled birth attendant	217
Table D.6.2.3 Mode of delivery and complications	218
Table D.6.2.4 Birth size and weight	219
Table D.6.3.1a Postnatal checkup for the mother	220
Table D.6.3.1b Postnatal checkup for the mother: providers	
Table D.6.3.2a Postnatal checkup for the neonate	
Table D.6.3.2b Postnatal checkup for the neonate: providers	223
Table D.7.1 Age and sex of children	
Table D.7.1.1 Current health status	
Table D.7.1.2 Recent illness	225
Table D.7.1.3 Utilization of health services for recent illness	226
Table D.7.2.1 Prevalence of acute respiratory infection and fever	227
Table D.7.2.2 Utilization of health services for acute respiratory infection	
Table D.7.2.3a Utilization of medications for acute respiratory infection	
Table D.7.2.4 Feeding practices during acute respiratory infection	
Table D.7.3.1 Prevalence of diarrhea	231
Table D.7.3.2 Utilization of health services for diarrhea	232
Table D.7.3.3a Utilization of treatments for diarrhea	233
Table D.7.3.3b Utilization of oral rehydration solution for diarrhea	237
Table D.7.3.4 Feeding practices during diarrhea	237
Table D.7.4a Immunization against common childhood illnesses	
Table D.7.4b Immunization against common childhood illnesses, according to age group	
Table D.7.5 De-worming treatment	240
Table D.8.1 Breastfeeding	
Table D.8.2 Solid foods	
Table D.8.3 Micronutrient supplements	242
Table D.9 Age and sex of children measured	243
Table D.9.2 Prevalence of underweight in children aged 0-59 months	245
Table D.9.4.2 Prevalence of anemia in children aged 0-59 month	
Table D.10.1.1 Exposure to community health workers	
Table D.10.1.2 Services provided by community health workers	
Table D.10.4.1 Exposure to breastfeeding, child nutrition, and child health interventions	249
Table D.10.4.2 Exposure to child health interventions, by source	250
Table D.10.5 Satisfaction with community health workers	
Table D.11.3a Mortality in children under 5 years of age in the target area of the initiative	252
Table E.2.3.1 Household composition: age and sex	
Table E.2.3.2 Household composition	
Table E.2.4.1a Household characteristics: water source	
Table E.2.4.1b Household characteristics: sanitation	256
Table E.2.4.2 Household characteristics: cooking fuel	257
Table E.2.4.3a Availability of assets: household effects	



Table E.2.4.3b Availability of assets: means of transportation	259
Table E.2.4.3c Availability of assets: other assets	260
Table E.2.5.1a Total household expenditures per person	261
Table E.2.5.1b Household expenditures by type	
Table E.2.5.1c Household health care expenditures by type	
Table E.2.5.2 Household medical expenditures by type	
Table E.2.5.3 Household medical expenditures by source of financing	
Table E.3.1.1 Demographic characteristics of respondents	
Table E.3.1.2 Department and municipality of residence of respondents	
Table E.3.2.1 Educational attainment and literacy	
Table E.3.3 Employment	
Table E.3.4.1 Exposure to mass media	
Table E.3.5.1a Proximity to health care facilities: nearest health facility	
Table E.3.5.1b Proximity to health care facilities: usual health facility	
Table E.3.5.1c Proximity to health care facilities: health facility for delivery	
Table E.3.5.1d Proximity to health care facilities: health facility for recent illness	
Table E.3.6.1 Current health status	
Table E.3.6.2 Recent illness	
Table E.3.6.3 Utilization of health services	
Table E.3.6.4 Insurance coverage	
Table E.3.6.5 Other barriers to health care utilization	
Table E.4.2.1 Parity and age at first birth	
Table E.4.3.1 Intervals between births	
Table E.4.4.1 Desire for more children	
Table E.4.4.2 Ideal interval for most recent birth	
Table E.5.1.1 Knowledge of the fertile period	
Table E.5.2.1a Current use of family planning methods	
Table E.5.2.1b Current use of family planning methods, by type of method	
Table E.5.2.1c Current use of modern family planning methods	
Table E.5.3.1a Source of family planning methods	
Table E.5.3.1b Source of family planning methods	
Table E.5.3.1c Source of family planning methods	
Table E.5.3.1d Source of family planning methods	
Table E.5.4.1 Interruption and non-use of family planning methods	
Table E.5.4.2a Reasons for interruption and non-use of family planning methods	
Table E.5.4.2b Reasons for interruption and non-use of family planning methods	
Table E.5.5.1 Participation in family planning decision-making	
Table E.5.5.2a Family planning decision-making - informed choice	
Table E.5.6.1 Family planning messages delivered by health care providers	
Table E.6.1.1a Antenatal care coverage for the most recent birth in the last two years	
Table E.6.1.1b Antenatal care coverage for the most recent birth in the last two years	
Table E.6.1.1c Antenatal care coverage for the most recent birth in the last two years	
Table E.6.1.2 Frequency of antenatal care visits	
Table E.6.1.3a Content of antenatal care visits - best practices	
Table E.6.1.3b Content of antenatal care visits - other services provided	
Table E.6.1.4 Coverage of tetanus toxoid vaccinations during pregnancy	
Table E.6.1.5 Exposure to safe pregnancy messages	
Table E.6.2.1 Place of delivery	
Table E.6.2.2a Assistance at delivery: type of attendants	
Table E.6.2.2b Assistance at delivery: number of attendants	
Table E.6.2.2c Assistance at delivery: in-facility delivery with skilled birth attendant	
Table E.6.2.3 Mode of delivery and complications	
Table E.O.Z.3 WIGGE OF GETIVETY AND COMPTICATIONS	



Table E.6.2.4 Birth size and weight	308
Table E.6.3.1a Postnatal checkup for the mother	
Table E.6.3.1b Postnatal checkup for the mother: providers	310
Table E.6.3.2a Postnatal checkup for the neonate	311
Table E.6.3.2b Postnatal checkup for the neonate: providers	312
Table E.7.1 Age and sex of children	313
Table E.7.1.1 Current health status	
Table E.7.1.2 Recent illness	
Table E.7.1.3 Utilization of health services for recent illness	315
Table E.7.2.1 Prevalence of acute respiratory infection and fever	
Table E.7.2.2 Utilization of health services for acute respiratory infection	317
Table E.7.2.3a Utilization of medications for acute respiratory infection	318
Table E.7.2.4 Feeding practices during acute respiratory infection	320
Table E.7.3.1 Prevalence of diarrhea	321
Table E.7.3.2 Utilization of health services for diarrhea	322
Table E.7.3.3a Utilization of treatments for diarrhea	
Table E.7.3.3b Utilization of oral rehydration solution for diarrhea	327
Table E.7.3.4 Feeding practices during diarrhea	327
Table E.7.4a Immunization against common childhood illnesses	328
Table E.7.4b Immunization against common childhood illnesses, according to age group	329
Table E.7.5 De-worming treatment	
Table E.8.1 Breastfeeding	
Table E.8.2 Solid foods	331
Table E.8.3 Micronutrient supplements	332
Table E.9 Age and sex of children measured	333
Table E.9.2 Prevalence of underweight in children aged 0-59 months	335
Table E.9.4.2 Prevalence of anemia in children aged 0-59 month	336
Table E.10.1.1 Exposure to community health workers	336
Table E.10.1.2 Services provided by community health workers	337
Table E.10.4.1 Exposure to breastfeeding, child nutrition, and child health interventions	339
Table E.10.4.2 Exposure to child health interventions, by source	340
Table E.10.5 Satisfaction with community health workers	340
Table E.11.3a Mortality in children under 5 years of age in the target area of the initiative	342
Figures	
Figure 1.1 Map of Mesoamerica with Nicaragua highlighted	
Figure 1.2.1 Map of Nicaragua with targeted municipalities highlighted	14
Figure 1.2.2 Schematic diagram of SM2015 survey implementation	16
Figure 9.1.1 Distribution of weight-for-age z-scores among children aged 0-59 months	137
Figure 9.2.1 Distribution of height-for-age z-scores among children aged 0-59 months	
Figure 9.3.1 Distribution of weight-for-height z-scores among children aged 0-59 months	
Figure 9.4.1 Distribution of hemoglobin values among children aged 0-59 months	
Figure 11.1 Neonatal mortality estimated from complete birth history data obtained from the SM2015-	
Baseline Household Survey, 2013	149
Figure 11.2 Infant mortality estimated from complete birth history data obtained from the SM2015-	Nicaragua
Baseline Household Survey, 2013	
Figure 11.3 Mortality in children under five years of age estimated from complete birth history data obta	ined from
the SM2015-Nicaragua Baseline Household Survey, 2013	150
Figure D.9.1.1 Distribution of weight-for-age z-scores among children aged 0-59 months	243
Figure D.9.2.1 Distribution of height-for-age z-scores among children aged 0-59 months	244
Figure D.9.3.1 Distribution of weight-for-height z-scores among children aged 0-59 months	244



Figure D.9.4.1 Distribution of hemoglobin values among children aged 0-59 months	245
Figure D.11.1 Neonatal mortality estimated from complete birth history data obtained from the SM2	2015-Nicaragua
Baseline Household Survey, 2013	251
Figure D.11.2 Infant mortality estimated from complete birth history data obtained from the SM2	2015-Nicaragua
Baseline Household Survey, 2013	251
Figure D.11.3 Mortality in children under five years of age estimated from complete birth history	data obtained
from the SM2015-Nicaragua Baseline Household Survey, 2013	252
Figure E.9.1.1 Distribution of weight-for-age z-scores among children aged 0-59 months	333
Figure E.9.2.1 Distribution of height-for-age z-scores among children aged 0-59 months	334
Figure E.9.3.1 Distribution of weight-for-height z-scores among children aged 0-59 months	334
Figure E.9.4.1 Distribution of hemoglobin values among children aged 0-59 months	335
Figure E.11.1 Neonatal mortality estimated from complete birth history data obtained from the SM2	2015-Nicaragua
Baseline Household Survey, 2013	341
Figure E.11.2 Infant mortality estimated from complete birth history data obtained from the SM2	2015-Nicaragua
Baseline Household Survey, 2013	341
Figure E.11.3 Mortality in children under five years of age estimated from complete birth history	data obtained
from the SM2015-Nicaragua Baseline Household Survey, 2013	342



This Final Report on the SM2015-Nicaragua Baseline Household Census and Survey was produced in agreement with the Inter-American Development Bank (IDB). All analyses and report writing were performed 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 more knowledgeable decision-making and higher achievements in health. To that end, we strive to build the needed base of objective evidence about what does and does not improve health conditions and health systems 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.

Lead authors

Marielle C. Gagnier, BS Post-Bachelor Fellow, IHME

K. Ellicott Colson, BA Post-Bachelor Fellow, IHME

Bernardo Hernández Prado, MS, DSc Clinical Associate Professor, IHME

Rafael Lozano, MD, MS Professor, IHME

Ali H. Mokdad, PhD Professor, IHME

Contributing authors

Brent Anderson, BA Project Officer, IHME

Annie Haakenstad, MA Project Officer II, IHME

Erin Palmisano, BA Data Analyst, IHME

Dharani Ranganathan, BA Data Analyst, IHME

Gulnoza Usmanova MPH, MD Post-Graduate Fellow, IHME

Acknowledgements

Thanks to ECOSUR for their participation in data collection for this project.



CHAPTER 1: INTRODUCTION

This chapter provides a general overview of the objectives, design, and implementation of the SM2015-Nicaragua Baseline Household Census and the SM2015-Nicaragua Baseline Household Survey.

1.1 Objectives

The Salud Mesoamerica 2015 Initiative (SM2015) is an innovative public/private partnership which seeks to reduce health equity gaps in Mesoamerica faced by those living in extreme poverty.

The principal objective of the SM2015-Nicaragua Baseline Household Survey was to collect baseline data on household characteristics, household expenditures, and numerous reproductive health, maternal and neonatal health, immunization, and nutrition indicators (including physical measurements) related to the strategic areas of the Initiative in Nicaragua (Figure 1.1).



Figure 1.1 Map of Mesoamerica with Nicaragua highlighted

1.2 Design

1.2.1 Sample selection

The sample for the SM2015-Nicaragua Baseline Household Survey was designed to provide estimates of the coverage of key health interventions and indicators among the lowest wealth quintile of the population.

The primary administrative units in Nicaragua are departments and autonomous regions, each subdivided into municipalities. There are a total of 15 departments and 2 autonomous regions. For SM2015, there will be two phases, the first targeting municipalities with the highest rates of unsatisfied basic needs, and the second targeting municipalities that belong to 3 local health systems or SILAIS. In Nicaragua, IDB has identified 19 intervention municipalities in which to conduct the baseline SM2015 Household Survey for the Initiative on the basis of their high concentration

of residents in the country's lowest wealth quintile, and 4 control municipalities with similar socio-economic characteristics and ethnic composition (Figure 1.2.1). From these 23 municipalities, a random sample of eligible households was selected to reach the sample size of 2,464 households (1,714 intervention and 750 control households). A detailed description of the sampling procedure can be found in Appendix A.

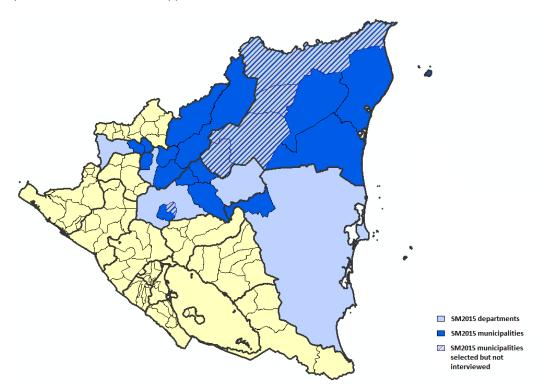


Figure 1.2.1 Map of Nicaragua with targeted municipalities highlighted

Briefly, the 23 targeted municipalities were divided into segments. From this list, a representative sample of 90 segments was selected. Segments were randomly-selected with probability proportional to size, where size was represented by the number of occupied households within the segment, as captured on the 2005 Nicaragua Population Census. In addition, 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 for any reason (e.g., security concerns or high proportion of absent households). The total number of segments represented in the final dataset is shown in Table 1.2.1.



Table 1.2.1 Number of segments, by municipality

		Number of
Department	Municipality	segments
Interviewed		
Jinotega	El Cua	3
	Jinotega	13
	San Sebastián de Yali	3
	Santa Maria de Pantasma	4
	Wiwili	3
	San Juan Río Coco	6
	Telpaneca	6
Matagalpa	Matiguás	3
	Rancho Grande	2
	Terrabona	1
	Tuma - La Dalia	10
Region Atlantico Norte	Bocana de Paiwas	2
	Mulukuku	2
	Prinzapolka	1
	Puerto Cabezas	8
	Rosita	1
Selected but not intervie	ewed	
Region Atlantico Norte	Waspan	5
	Bonanza	3
	Waslala	6
	Siuna	4
	Prinzapolka	1
	Rosita	1
Region Atlantico Sur	El Ayote	2

Immediately prior to the SM2015-Nicaragua Baseline Household Survey, the SM2015-Nicaragua Baseline Household Census was conducted in order to identify eligible women and children for the survey. The SM2015-Nicaragua Baseline Household Census was carried out in each of the randomly-selected segments. Using demographic data collected during the household listing exercise, households were then systematically selected for participation in the survey (i.e., if ageeligible women and children were listed as residents). All women aged 15-49 years who were residents of the selected household were eligible for the physical measurement module. A schematic diagram of the survey implementation is shown in Figure 1.2.2.

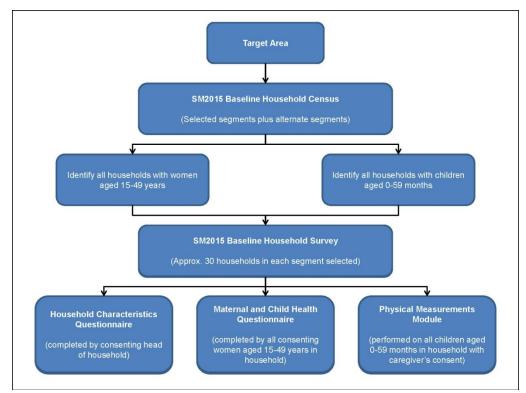


Figure 1.2.2 Schematic diagram of SM2015 survey implementation

Additional details pertaining to eligibility and selection for the survey are summarized in Appendix A.

1.2.2 Instruments for data collection

The baseline SM2015 Household Survey was used to generate a rapid assessment of current coverage rates of health interventions in the strategic areas of the Initiative (reproductive, maternal and neonatal health, immunization, and nutrition). Standardized questionnaires as well as surveys of health facilities and data from the health information systems were used to provide the information needed to establish the baseline.

There were three components to the SM2015-Nicaragua Baseline Household Survey (in addition to the SM2015 Household Census): the Household Characteristics Questionnaire, the Maternal and Child Health Questionnaire, and the Physical Measurements Module.

The content of the household questionnaires was developed to measure the coverage of key health interventions and indicators, and many items were adapted from existing Demographic and Health Surveys (DHS). The questionnaires were initially developed in English, and then translated to Spanish. 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 pilot study (described below). The revised Spanish-language surveys were then back-translated to English. Study areas included a substantial proportion of indigenous populations; many of them also Spanish speakers. Although it was expected that it would be possible to apply most surveys in Spanish, the household survey was also translated and back-translated to the most common indigenous languages in the study areas.



The SM2015-Nicaragua Household Census and Household Survey were conducted using a computer-assisted personal interview (CAPI). CAPI is programmed using DataStat Illume and installed into computer netbooks which are used by the surveyors at all times of the interview. CAPI supports skip patterns, inter-question answer consistency, and data entry ranges. The aim of introducing CAPI to the field is to reduce survey time by prompting only relevant questions, to maintain a logical answering pattern across different questions, and to decrease data entry errors. The use of CAPI also allows instantaneous data transfer via a secure link to IHME. Data can be continuously monitored, and modifications to the instrument can be updated remotely.

The SM2015 Household Census was used to capture the age and sex distribution of all of the usual members of all of the households in the selected segments. Basic information including relationship to the head of the household and marital status was also collected. Children aged 0-59 months who had one or more parent residing in the same household were linked to their mother and/or father by way of unique household member identification codes.

As previously mentioned, data from the SM2015 Household Census were then used to systematically select households for the detailed interviews and the physical measurements module (Figure 1.2.2). Selected households were re-visited typically within one month of the census and these questionnaires were completed during this visit.

The Household Characteristics Questionnaire collected 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 was used to collect information from all women of reproductive age (15-49 years). These women were asked questions on the following topics: background characteristics (including education, occupation, and exposure to media), access to health care, current health status, recent history of illness and associated medical expenses, birth history (including relevant questions about pregnancies that ended in miscarriage, stillbirth, or abortion), antenatal, delivery, and postpartum care, fertility preferences, knowledge and use of family planning methods (including barriers to use), exposure to health system interventions, and satisfaction with community health workers. Those with children aged 0-5 years were asked detailed questions in reference to each child born in the past five years on topics such as: birth spacing, antenatal care, labor and delivery, postpartum care, breastfeeding and infant feeding practices, 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 captured weight, height/length, and hemoglobin levels of children aged 0-59 months. Portable scales and stadiometers were used for the anthropometric measurements and hemoglobin levels were assessed in the field using a portable HemoCue[™] machine. In addition, samples of capillary blood are collected using the dry blood spot (DBS) technique from children 12-23 months. Medically trained personnel (i.e., professional nurses) performed all assessments.

1.2.3 Training of data collectors

A total of 26 people (male and female) were recruited and trained to serve as supervisors, interviewers or to conduct physical measures, and reserves for the household census and survey. All field staff were required to have formal education through high school and exhibited sufficient literacy and speaking abilities in the language of the survey, as well as basic arithmetic skills. Per-



sonnel in charge of physical measures were nurses, required to have previous medical training and experience.

A five-day training exercise was undertaken in December 2012 in Estelí, Nicaragua. The first three days were devoted to classroom training for all field staff, including application of questionnaires and physical measurement practices. The final two days were devoted to field training and pilot testing. Staff from El Colegio de la Frontera Sur (ECOSUR-Mexico) and the Centro de Investigación y Estudios en Salud of the University of Nicaragua (CIES-UNAN) the agencies in charge of data collection in Nicaragua, and invited experts from IHME led the training, which was conducted in Spanish and included a variety of lectures, presentations, demonstrations, and role-playing exercises. Nutrition experts from IHME led the training sessions on height and weight measurements and hemoglobin testing for the professional nurses who were hired to perform the physical assessments of children. A practice session took place with children attending a medical unit during the second day. These personnel were trained to perform standardized anthropometric and hemoglobin measurements using standard techniques.

During the classroom training sessions, supervisors and interviewers were briefed on the Salud Mesoamerica 2015 Initiative (SM2015) and the specific survey instruments developed for the Initiative. Supervisors and interviewers then received training on survey implementation using electronic devices (including the use of the CAPI and interviewing skills), and fieldwork procedures (including map reading for locating selected households), reviewed the content of the household questionnaires in close detail, and received basic instruction on the principles of, and strategies for, data quality monitoring, team communication and problem-solving. Household teams engaged in role-playing scenarios to practice administering the initial census survey and the full household questionnaire. A specialized team was trained in anthropometry and collection of a blood specimen. Trainers and supervisors provided feedback on the practice interviews. Specific issues noted during observation of the practice interviews were discussed with the whole group.

Field training and pilot sessions were initiated on day four of the training period in a popular neighborhood in Estelí. Household teams and anthropometry teams spent two days in the field collecting data. This field practice provided the interviewers with an opportunity to become aware of any issues with the survey that they did not previously understand. The field training sessions also provided an opportunity to conduct cognitive testing of the survey among target respondents. At the end of each day, the trainers and trainees reviewed the questionnaires and discussed any problems that arose. Minor revisions to the questionnaires were implemented based on feedback from the field training sessions.

All field staff were evaluated on survey concepts and procedures by means of short tests following completion of the classroom training sessions and field training sessions. In addition to these evaluations, all field staff were observed by the trainers in order to fully assess their ability to administer the questionnaires.

1.2.4 Data collection

The SM2015-Nicaragua Baseline Household Census, which captured basic demographic characteristics of all usual household occupants, was carried out between March 1, 2013 and August 29, 2013 in each of the randomly-selected segments. For quality assurance, the data collected during the SM2015 Baseline Census were compared to data from the 2005 Nicaragua Population Census on an on-going basis. When 20% fewer than expected households or people are captured on the SM2015 Baseline Census, or when more than 5% of households are classified as "absent", field staff are instructed to return to segments and attempt to capture missing households.



Data collection for the SM2015-Nicaragua Baseline Household Survey began on May 1, 2013 and was completed on September 3, 2013. To assure completeness of the sample, field staff were instructed to return to selected households up to three times (on different days, and at different times during the day) in an attempt to complete the Household Characteristics Questionnaire, the Maternal and Child Health Questionnaire, and the Physical Measurements Module.

Six data collection teams, consisting of a total of five interviewers (male and female) were deployed to conduct the SM2015 Household Census and the SM2015 Household Survey. Supervisors were responsible for reviewing all questionnaires for quality and consistency prior to departing each segment. There were six supervisors overseeing the SM2015 Household Census and SM2015 Household Survey.

All data collection instruments and procedures were approved by the Ethics Committee of ECOSUR and CIES-UNAN.

The data collection process was complicated due to safety issues in the Department of Jinotega, and especially in the North Atlantic Region (RAAN). A very threatening event occurred in the RAAN, where interviewers were assaulted, threatened and tied. Although fortunately there were no personnel injured, this very salient event posed us as an easy target for future violent events in the regions, and forced us to stop activities in that region. We recalculated power estimates for the evaluation indicators, showing that with the attained sample we have enough power for this evaluation. In addition, analysis was conducted to assure that it did not affect the validity of our results. In the results sections we present the composition of the sample actually visited, and in Appendix A we include a comparison of the characteristics of visited and non-visited areas. This analysis shows no major differences between visited and non-visited areas, supporting that no bias was introduced because of this.

1.2.5 Data entry and data analysis

Information that is collected by each survey component is monitored by both field supervisors and analysts at IHME to ensure data quality and adherence to survey protocols. Data files are uploaded to a secure FTP site where they can be accessed by the data analysis team at IHME. After census, household, and health facility data is received, data is rigorously reviewed for quality with regards to consistency, clarity, and completeness. Prompt evaluation of data quality allows for clarification from data collectors regarding inadequacies and irregularities, and rapid correction of procedural errors.

1.2.6 Final sample description

Table 1.2.6 shows the total number of completed interviews with heads of households and women of reproductive age, and the total number of physical measurements of children aged 0-59 months performed, with corresponding response rates, by municipality. Response rates were calculated using the following formula: ([# complete] ÷ [# eligible participants]). High non-response may affect the reliability of the estimates.

According to the 2005 Nicaragua Population Census, we expected a total of 11,525 occupied households in the 90 selected segments. The SM2015 household listing exercise found 8,867 households that were occupied in the 68 segments that were ultimately interviewed. Of the 8,867 occupied households, 8,864 completed the SM2015 Household Census, yielding a response rate of essentially 100 percent for this portion of the survey.



Based on information collected during the SM2015 Household Census, a subset of households was visited for individual interviews. A total of 2,200 households were visited for the individual interviews. Of these, a total of 2,071 Household Characteristics Questionnaires were completed with heads of households, yielding a household response rate of just over 94 percent.

Using the household roster completed as part of the SM2015 Household Survey, 3,060 women of reproductive age (15-49 years) were identified from the sub-sample of interviewed households as eligible for the Maternal and Child Health Questionnaire. Of these, 2,823 successfully completed the questionnaire (92 percent). The household roster completed as part of the SM2015 Household Survey was also used to identify 2,265 children aged 0-59 months as eligible for the Physical Measurements Module among the interviewed households. 2,236 of these children were measured (99 percent).

Among those households that were occupied but did not complete the SM2015 Household Census, the majority of the non-response for households and individuals was due to household members refusing the interview or being absent.

Table 1.2.7 summarizes the differences between the number of originally designated sample of segments, households, women and children versus the number actually interviewed. While less households were interviewed than originally intended, more than 1.5 times the expected number of women and children were interviewed.



Table 1.2.6 Number of households, number of eligible women, number of eligible children, and response rates by municipality

Table 1.2.6 Number of nouseholds	,	CI OI CI	igibic w	oilicii, i	Idilibei	Of Cligit	oic cillic	ii Cii, aii	и гезре	Jiise rate	3 by illu	пстрап	<u>ty</u>			
Questionnaire type	Bocana de Paiwas	El Cua	Jinotega	Matiguás	Mulukuku	Prinzapolka	Puerto Cabezas	Rancho Grande	C+1.50	Nosita San Juan Río Coco	San Sebastián de Yali	Santa Maria de Pantasma	ŀ	reipaneca Terrabona	Tuma - La Dalia	Wiwil í
Household census																
No. of households	205	477	1617	427	251	108	1157	267	120	700	347	545	858	110	1258	428
No. of households occupied	205	477	1614	427	251	108	1156	267	120	700	347	545	855	110	1257	428
No. of households censused ^a	205	477	1612	427	251	108	1155	267	120	700	347	545	855	110	1257	428
Response rate ^b , %	100	100	99.9	100	100	100	99.9	100	100	100	100	100	100	100	100	100
Household characteristics questionn	aire															
No. of households visited	61	93	422	96	64	38	281	60	35	192	94	127	189	30	320	98
No. of households interviewed ^a	60	90	407	91	60	31	242	60	31	183	91	122	181	30	302	90
Response rate ^b , %	98.4	96.8	96.4	94.8	93.8	81.6	86.1	100	88.6	95.3	96.8	96.1	95.8	100	94.4	91.8
Women's questionnaire																
No. of eligible women ^c	86	120	652	132	83	41	383	89	37	284	122	170	264	33	438	126
No. of eligible women interviewed ^a	85	115	592	122	81	36	327	87	35	268	114	156	243	33	411	118
Response rate ^b , %	98.8	95.8	90.8	92.4	97.6	87.8	85.4	97.8	94.6	94.4	93.4	91.8	92	100	93.8	93.7
Child questionnaire and measurements																
No. of eligible children ^d	70	102	443	86	64	27	250	75	30	204	96	144	195	34	347	98
No. of eligible children measured	70	101	434	86	64	26	245	75	30	198	96	143	193	34	344	97
Response rate ^b , %	100	99	98	100	100	96.3	98	100	100	97.1	100	99.3	99	100	99.1	99

^aIncludes only units with completed interviews Number of completes out of total number of eligible units (i.e., occupied households or age-eligible women and children) Women aged 15-49 years who reside in the interviewed households, based on the household roster completed as part of Household Characteristics Questionnaire dhildren aged 0-59 months who reside in the interviewed households, based on the household roster completed as part of Household Characteristics Questionnaire



Table 1.2.7 Number of households, women and children selected and interviewed

	Designated		
	sample	Interviewed	Coverage
Segments	90	68	76%
Households (total)	2464	2052	83%
Households (intervention)	1714	1292	75%
Women, 15-49 years	1136	1713	151%
Children, 0-23 months	378	590	156%
Children, 0-59 months	861	1403	163%

The subsequent chapters present characteristics of the surveyed SM2015-Nicaragua population from intervention areas, unless otherwise stated. Each table is additionally presented for overall (intervention and control segments) in Appendix D and control segments in Appendix E.



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 SM2015-Nicaragua Baseline Household Survey. This represents only populations in the intervention segments. Results for the whole sample and for control areas will be presented in Appendix D and Appendix E, respectively.

2.1 Characteristics of Non-Participating Households

Data on selected households that were absent or declined to participate in the SM2015 Household Survey are drawn from the SM2015 Household Census. A total of 209 (10 percent) of the 1,429 households that were visited did not complete the SM2015 Household Survey. This non-response varies by municipality, from a low of 0 percent to a high of 18 percent non-response. Those households that did not complete the SM2015 Household Survey are hereafter referred to as "replaced" households because they were replaced by other households in the segment, when possible.

Replaced households consisted of 2 to 12 members (median 5 members). Fifty-eight percent of these households were headed by a man and the remaining households were headed by a woman. Nearly all replaced households (98 percent) had a woman of reproductive age as a usual member and most (90 percent) of households had a child under the age of five as a usual member.

2.2 Characteristics of Participating Households

A total of 1,300 households in Nicaragua completed the household characteristics questionnaire. 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.

2.3 Household Composition

2.3.1 Age and sex composition

The distribution of the de facto household population in the surveyed households in Nicaragua is shown in Table 2.3.1 by five-year age groups and by sex. Nicaragua has a larger proportion of its population in the younger age groups than in the older age groups. Table 2.3.1 indicates that 37 percent of the population is under age 15 years, 60 percent of the population is in the economically productive age range (15-64), and the remaining 3 percent is age 65 and above.



Table 2.3.1 Household composition: age and sex

Percent distribution of the de facto household population by five-year age groups based on the household roster completed as part of the SM2015 Household Survey

Age	Male (%)	Female (%)	Total (%)
<5	12.7	12.1	12.4
5-9	11.7	11.5	11.6
10-14	13.1	12.6	12.9
15-19	12.2	12.5	12.4
20-24	11.2	10.4	10.8
25-29	7.9	8.2	8.1
30-34	7.3	7.3	7.3
35-39	5.5	5.8	5.6
40-44	4.6	4.7	4.7
45-49	3.4	3.9	3.7
50-54	3.1	3.2	3.2
55-59	2.1	2.3	2.2
60-64	1.7	1.7	1.7
65-69	1.1	1.2	1.2
70-74	0.9	1	0.9
75-79	0.8	0.7	0.7
80+	0.7	0.8	0.8
Total	100	100	100
N	13019	13685	26704

2.3.2 Housing composition

The number of households, women and children in the sample; and the percent distribution of households by sex of head of the household, number of usual members and marital status are shown in Table 2.3.2.

Males are the head of the household in 73 percent of surveyed households in Nicaragua, with females as the head of household in the remaining 27 percent. There were four households that did not list anyone on the household roster as the head of the household. The large majority of households (71 percent) have 3-6 members, with another 9 percent of households having nine or more members. Among household members age 15 years and older, the majority are married or partnered (63 percent), with the rest being single (32 percent) or widowed, divorced, or separated (5 percent).



Table 2.3.2 Household composition

Number of households, women and children; and percent distribution											
of households by sex of head of the hou	of households by sex of head of the household, number of usual										
members, and marital status of member	members, and marital status of members 15+										
Household characteristic	N	%	SE								
Number of households	1300										
Number of women	1720										
Number of children	1407										
Sex of the head of the household											
Male	951	73.2	1.2								
Female	349	26.8	1.2								
DK/DTR	0										
Missing	0										
Total	1300	100									
Number of usual members											
1	1	0.1	0.1								
2	40	3.1	0.5								
3	247	19	1.1								
4	263	20.2	1.1								
5	242	18.6	1.1								
6	177	13.6	1								
7	129	9.9	0.8								
8	89	6.8	0.7								
9+	112	8.6	0.8								
DK/DTR	0										
Missing	0										
Total	1300	100									
Marital status of members of the house	hold										
Single	1256	31.9	0.7								
Married	1243	31.5	0.7								
Open union / partnered	1237	31.4	0.7								
Widow / divorced / separated	203	5.2	0.4								
Other	1	0	0								
DK/DTR	1										
Missing	0										
Total	3941	100									



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 and location of water source is shown in Table 2.4.1a. The majority of surveyed households (60 percent) use piped water and 21 percent of households have to go outside their home or yard to a water source.

Table 2.4.1b includes information about sanitation facilities. Seventy-six percent of surveyed households use a latrine or pit toilet, 11 percent use no toilet, and 10 percent use a flushing toilet.



Table 2.4.1a Household characteristics: water source

Percent distribution of households by source of drinking water,								
location of water source and round trip	time to ob	tain drinki	ng water					
		Weighted	Weighted					
Household characteristic	N	%	SE					
Source of drinking water								
Pipes that lead to the house	568	42.6	5					
Pipes that lead to the patio/yard	238	17.6	2.9					
Public pump	24	2	0.6					
Tube or drilled well	39	3.6	1.1					
Protected dug well	161	14.4	3.1					
Unprotected dug well	109	7.8	1.4					
Protected spring	52	3.7	0.8					
Unprotected spring	37	2.5	0.7					
Rainwater	19	2	1.1					
Water tank truck	0	0						
Car with a small tank	0	0						
Surface water	19	1.4	0.5					
Bottled water	9	1	0.6					
Waterjug	2	0.3	0.2					
Other	18	1.2	0.3					
DK/DTR	0							
Missing	5							
Total	1300	100						
Location of water source								
In own house/home	653	50.7	4.4					
In own patio/yard	367	28.8	3					
Elsewhere	275	20.5	2.4					
DK/DTR	0							
Missing	5							
Total	1300	100						
Time to obtain drinking water (round tr	ip)							
Water on premesis	1011	80.4	2.5					
Less than 30 minutes	244	18.1	2.3					
30 minutes or longer	22	1.5	0.4					
DK/DTR	0							
Missing	23							
Total	1300	100						



Table 2.4.1b Household characteristics: sanitation

Percent distribution of households by sanitation facility type and if the facility is shared									
the facility is shared		Weighted	Weighted						
Household characteristic	N	%	SE						
Sanitation facility									
Flushing toilet	127	10.3	2.1						
Toilet with water poured from gourds	24	1.8	0.4						
Latrine / pit toilet	974	76	2.2						
Dry toilet	3	0.3	0.2						
No toilet, bushes, field	163	11.2	1.9						
Other	4	0.3	0.2						
DK/DTR	0								
Missing	5								
Total	1300	100							
Shared toilet/facilities, among househo	olds using a	ny type of	toilet						
Yes	167	15.9	1.7						
No	961	84.1	1.7						
DK/DTR	0								
Missing	0								
Total	1128	100							

2.4.2 Cooking fuel sources

Cooking fuel source and the location for cooking food are included in Table 2.4.2. The percentage of households with a separate kitchen is also shown. The two most commonly reported cooking fuel sources used in households are wood (78 percent) and gas tank (35 percent). Among those households with non-missing responses as to what cooking fuel sources they use, 68 percent report normally cooking food in the house, 29 percent normally cook food in a separate building, and 3 percent normally cook food outside the house. Seventy-one percent of households that cook in the home have a separate kitchen.



Table 2.4.2 Household characteristics: cooking fuel

Percent distribution of households by cooking fuel source and the												
location for cooking food; and percentage of households with a												
separate kitchen												
		Weighted	Weighted									
Household characteristic	N	%	SE									
Cooking fuel source (the respondent was to select all sources that												
applied)												
Electricity	29	2.4	0.7									
Gas tank	391	34.5	6									
Coal	35	3.4	1.3									
Wood	1057	78.1	5									
Straw/twigs/grass	31	2.4	0.5									
Agricultural crops	18	1.4	0.4									
No food is cooked at home	2	0.2	0.1									
Other	1	0.1	0.1									
DK/DTR	0											
Missing	5											
Total	1300											
Location for cooking food, among those	who repo	rted a cool	king fuel									
source												
In the house	877	68.4	2.3									
In a separate building	376	28.7	2.3									
Outside	39	2.9	0.5									
Other	0	0										
DK/DTR	0											
Missing	1											
Total	1293	100										
Separate kitchen, among those who rep	orted a co	oking fuel	source									
and cook in the home												
Yes	640	71.2	2.2									
No	236	28.8	2.2									
DK/DTR	1											
Missing	0											
Total	877	100										

2.4.3 Household wealth

The availability of durable consumer goods is a good indicator of a household's socioeconomic status. Table 2.4.3 shows the availability of selected consumer goods by household. Three-quarters of households have electricity, and the most commonly owned items are radios (67 percent), cell phones (67 percent), and televisions (56 percent). One-quarter of households own a bicycle and 9 percent own a motorcycle or scooter; less than 3 percent own a car or truck.



Most households have one (45 percent) or two (35 percent) rooms used for sleeping. Just under one-quarter of the households own agricultural land and 9 percent of households rent agricultural land. Five percent of households have a bank account.

Table 2.4.3a Availability of assets: household effects

Percent distrib				fic household e	ffects					
Household		Weighted	Weighted	Household		Weighted	Weighted			
characteristic	N	%	SE	characteristic	N	%	SE			
Electricity				Refrigerator						
Yes	949	75.8	3.9	Yes	285	23	2.5			
No	345	24.2	3.9	No	1009	77	2.5			
DK/DTR	1			DK/DTR	1					
Missing	5			Missing	5					
Total	1300	100		Total	1300	100				
Radio				Computer						
Yes	881	67.2	1.7	Yes	60	5	1.4			
No	413	32.8	1.7	No	1234	95	1.4			
DK/DTR	1			DK/DTR	1					
Missing	5			Missing	5					
Total	1300	100		Total	1300	100				
Television				Wristwatch						
Yes	702	56.2	3.7	Yes	413	32.4	1.3			
No	592	43.8	3.7	No	881	67.6	1.3			
DK/DTR	1			DK/DTR	1					
Missing	5			Missing	5					
Total	1300	100		Total	1300	100				
Cell phone				Guitar						
Yes	848	66.7	2.7	Yes	42	3.1	0.5			
No	446	33.3	2.7	No	1252	96.9	0.5			
DK/DTR	1			DK/DTR	1					
Missing	5			Missing	5					
Total	1300	100		Total	1300	100				
Telephone (lan	idline)									
Yes	15	1.2	0.4							
No	1278	98.8	0.4							
DK/DTR	2									
Missing	5									
Total	1300	100								



Table 2.4.3b Availability of assets: means of transportation

Percentage of households with specific means of transport										
Household characteristic N % SE										
	N	%	SE							
Bicycle										
Yes	283	23.6	2.4							
No	1011	76.4	2.4							
DK/DTR	1									
Missing	5									
Total	1300	100								
Motorcycle / scooter										
Yes	123	9.1	1.1							
No	1171	90.9	1.1							
DK/DTR	1									
Missing	5									
Total	1300	100								
Animal-driven cart										
Yes	7	0.5	0.2							
No	1287	99.5	0.2							
DK/DTR	1									
Missing	5									
Total	1300	100								
Car										
Yes	37	2.6	0.6							
No	1257	97.4	0.6							
DK/DTR	1									
Missing	5									
Total	1300	100								
Truck										
Yes	8	0.5	0.3							
No	1286	99.5	0.3							
DK/DTR	1									
Missing	5									
Total	1300	100								



Table 2.4.3c Availability of assets: other assets

Percentage distribution of number of rooms used for sleeping, and percentage of households with ownership of bank account, agricultural land and animals

account, agricultural failu affu aff	1111015	Weighted	Weighted
Household characteristic	N	%	SE
Rooms used for sleeping			
Zero	22	1.6	0.5
One	599	45.2	2.4
Two	451	35.2	1.5
Three or more	223	18	1.8
DK/DTR	0		
Missing	5		
Total	1300	100	
Ownership of bank account			
Yes	60	5.2	1.1
No	1232	94.8	1.1
DK/DTR	3		
Missing	5		
Total	1300	100	
Ownership of agricultural land			
Yes, own	314	22.7	2.5
Yes, rent	123	8.6	1.4
Yes, share/community share	63	4.3	0.9
No	790	64.4	4
DK/DTR	5		
Missing	5		
Total	1300	100	
Ownership of animals (bull or co	w, mule, g	oat, chicke	n, or pig)
Yes	820	58.7	4.8
No	474	41.3	4.8
DK/DTR	1		
Missing	5		
Total	1300	100	



2.5 Household Expenditures

2.5.1 Total expenditures by type

Households were surveyed about the amount the family unit living in the household spent over the last month. Table 2.5.1a shows the monthly expenditures per person living in the household. All data are presented in córdobas. About one third of households (31 percent) spent under C\$400 per person over the last month. The median expenditures per person is C\$597 and the mean is C\$1010, which is affected by a few households with high expenditure.

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 2.5.1b shows the expenditures on each category as a percentage of the total household expenditures, and Table 2.5.1c shows the health care expenditures as a percentage of total household expenditures. For example, if a household spent C\$100 in the last month, and reported spending C\$20 on food, then that household would have spent 20 percent of their total household expenditures on food, and therefore fall into the 10-24 percent category.

Table 2.5.1b shows that 83 percent of households spend more than half of their monthly expenditures on food. The majority of households spend less than 10 percent of their monthly expenditure on education (89 percent of households). Table 2.5.1c shows that most households spent no money on medical care (79 percent), social security (96 percent), private insurance (over 99 percent), and other expenses for access to healthcare (such as transportation, housing, or childcare services needed to get healthcare) (over 99 percent of households).

Table 2.5.1a Total household expenditures per person

Percent distribution of households by monthly total expenditure											
per person											
		Weighted	Weighted								
Characteristic	N	%	SE								
Monthly expenditure per person (có	rdobas)										
Less than C\$200	110	7.9	1.1								
C\$200 - <400	305	21.8	1.9								
C\$400 - <600	270	20.7	1.4								
C\$600 - <800	174	13.6	0.9								
C\$800 - <1000	112	8.7	0.9								
C\$1000+	323	27.2	3.2								
Missing	6										
Total	1300	100									



Table 2.5.1b Household expenditures by type

Percent distrib					a proportio	n of total h	nousehold	monthly expen	diture			
Expenditure				Expenditure				Expenditure		Weighted	Weighted	
category	N	%	SE	category	N	%	SE	category	N	%	SE	
Food				Housing, gas, e	lectricity,	and water		Transportation				
0%	22	1.7	0.4	0%	356	24.7	3.8	0%	723	57.5	2.1	
0.1% - 9%	3	0.2	0.1	0.1% - 9%	585	45	3.1	0.1% - 9%	390	30.2	1.7	
10% - 24%	26	2.1	0.4	10% - 24%	271	24.1	3.8	10% - 24%	137	9.8	0.9	
25% - 49%	171	13.5	1.2	25% - 49%	56	5	1.1	25% - 49%	28	2.1	0.4	
50% - 74%	404	32.7	1.8	50% - 74%	10	0.8	0.3	50% - 74%	6	0.4	0.2	
75% - 89%	371	28.6	1.5	75% - 89%	3	0.2	0.1	75% - 89%	0	0		
≥90%	281	21.2	2.1	≥90%	3	0.2	0.1	≥90%	0	0		
DK/DTR	15			DK/DTR	9			DK/DTR	7			
Missing	7			Missing	7			Missing	9			
Total	1300	100		Total	1300	100		Total	1300	100		
Alcoholic beve	rages, toba	acco, and n	arcotics	Clothing and fo	otwear			Communication	า			
0%	1085	84	1.4	0%	917	69.8	2.1	0%	722	56.1	2.5	
0.1% - 9%	136	10.9	1.2	0.1% - 9%	112	9.6	1.2	0.1% - 9%	504	39.6	2.3	
10% - 24%	55	4.3	0.6	10% - 24%	143	11.7	0.9	10% - 24%	54	4	0.5	
25% - 49%	9	0.7	0.3	25% - 49%	96	7.4	0.9	25% - 49%	4	0.3	0.2	
50% - 74%	0	0		50% - 74%	17	1.4	0.3	50% - 74%	0	0		
75% - 89%	0	0		75% - 89%	0	0		75% - 89%	0	0		
≥90%	0	0		≥90%	1	0.1	0.1	≥90%	0	0		
DK/DTR	5			DK/DTR	4			DK/DTR	7			
Missing	10			Missing	10			Missing	9			
Total	1300	100		Total	1300	100		Total	1300	100		
				Furniture, hou	sehold equ	uipment ar	nd routine					
Education tuiti	on, fees an	id school s	upplies	household ma	intenance			Recreation, cul	ture, resta	urants and	hotels	
0%	519	40.2	2	0%	1215	94.5	0.7	0%	1243	97.1	0.6	
0.1% - 9%	607	48.6	2.2	0.1% - 9%	48	3.9	0.6	0.1% - 9%	36	2.8	0.6	
10% - 24%	121	8.5	1.1	10% - 24%	17	1.2	0.3	10% - 24%	1	0.1	0.1	
25% - 49%	26	1.9	0.4	25% - 49%	6	0.4	0.2	25% - 49%	1	0.1	0.1	
50% - 74%	4	0.4	0.2	50% - 74%	1	0.1	0.1	50% - 74%	0	0		
75% - 89%	2	0.2	0.2	75% - 89%	0	0		75% - 89%	0	0		
≥90%	3	0.2	0.1	≥90%	0	0		≥90%	0	0		
DK/DTR	8			DK/DTR	2			DK/DTR	8			
Missing	10			Missing	11			Missing	11			
Total	1300	100		Total	1300	100		Total	1300	100		



Table 2.5.1c Household health care expenditures by type

Percent distrib	ution of ho	useholds	health care		by type, as	a proporti	on of			
total househol Expenditure	d monthly			Expenditure		Mariaba ad	144 - 1 - 1 - 4 1			
category	N	weighted %	Weighted SE	category	N	Weighted %	weighted SE			
Out-of-pocket	health care	9		Private insurance premiums						
0%	1016	78.8	1.7	0%	1287	99.9	0.1			
0.1% - 9%	140	11.6	1.4	0.1% - 9%	1	0.1	0.1			
10% - 24%	79	5.6	0.8	10% - 24%	0	0				
25% - 49%	45	3.3	0.5	25% - 49%	0	0				
50% - 74%	7	0.5	0.2	50% - 74%	0	0				
75% - 89%	1	0.1	0.1	75% - 89%	0	0				
≥90%	0	0		≥90%	0	0				
DK/DTR	2			DK/DTR	2					
Missing	10			Missing	10					
Total	1300	100		Total	1300	100				
Social security	nremiums			Other costs associated with accessing health care						
0%	1242	95.9	1	0%	1286	99.9	0.1			
0.1% - 9%	32	3		0.1% - 9%	1	0	0.1			
10% - 24%	10	1.1		10% - 24%	0	0				
25% - 49%	0	0		25% - 49%	1	0.1	0.1			
50% - 74%	0	0		50% - 74%	0	0				
75% - 89%	0	0		75% - 89%	0	0				
≥90%	0	0		≥90%	0	0				
DK/DTR	7			DK/DTR	2					
Missing	9			Missing	10					
Total	1300	100		Total	1300	100				

2.5.2 Health expenditures

Of the 1,300 total households in the survey, 273 (21 percent) reported having health expenditures in the last four weeks. Among these households, health expenditures over the last four weeks ranged from a minimum of C\$11 to a maximum of C\$10,750. The weighted median expenditure was C\$538 and the weighted mean was C\$818, which was inflated by a few households that paid very high medical expenses.

Table 2.5.2 shows the expenditures on each category of medical care as a percentage of the total household monthly medical expenditures. Drugs and medicine represents the largest percentage of total medical spending for many households. Roughly one-third of all households with medical expenditures (36 percent) report spending 90 percent or more of their medical expenditures on prescribed drugs or medicines.



Table 2.5.2 Household medical expenditures by type

				enditures by ty		as a propor	tion of tota	al household m	onthly heal	th expend	liture, amo	ong households	with any r	enorted ou	it-of-
pocket health			-			.o u p.opo.			,	с слрсто				- po c a o a	
Expenditure				Expenditure		Weighted	Weighted	Expenditure		Weighted	Weighted	Expenditure		Weighted	Weighted
category	N	%	SE	category	N	%	SE	category	N	%	SE	category	N	%	SE
Care that requi	red overni	ight stay in	a	Care by traditi	onal or alte	ernative he	ealers, or	Care by pharm		edications	bought	Diagnostic and	laboratory	tests such	as X-rays
hospital or hea				traditional bird			,	from a pharma			U	or blood tests	,		,.
0%	266		1.7	0%	271		0.7	0%	173	63.8		0%	250	92.6	1.7
0.1% - 9%	2			0.1% - 9%	0			0.1% - 9%	9	3		0.1% - 9%	1		
10% - 24%	0			10% - 24%	0	0		10% - 24%	7	2.5		10% - 24%	9	2.8	
25% - 49%	0	0		25% - 49%	1	0.5	0.5	25% - 49%	8	3		25% - 49%	5		
50% - 74%	1	0.7	0.7	50% - 74%	0	C		50% - 74%	7	2.5	0.9	50% - 74%	0	0	
75% - 89%	0	0		75% - 89%	0	C		75% - 89%	1	0.4	0.4	75% - 89%	0	0	
≥90%	4	2.1	1.2	≥90%	1	0.5	0.5	≥90%	68	24.8	2.9	≥90%	8	2.7	0.9
DK/DTR	0			DK/DTR	0			DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0			Missing	0			Missing	0		
Total	273	100		Total	273	100		Total	273	100		Total	273	100	
Other costs ass	ociated wi	ith staying o	overnight					Health care pr	oducts such	prescripti	on				
in a hospital or		, ,	ŭ	Dentists				•		•		Other health o	are produc	ts or servic	es
0%	267	97	1.5	0%	264	96.5	1.1	0%	269	98.6		0%	271		
0.1% - 9%	1	0.7	0.7	0.1% - 9%	0	C		0.1% - 9%	0	0		0.1% - 9%	1	0.3	0.3
10% - 24%	1	0.5	0.5	10% - 24%	2	1.1	0.8	10% - 24%	0	0		10% - 24%	1	0.3	0.3
25% - 49%	1	0.7	0.7	25% - 49%	3	0.9	0.5	25% - 49%	0	0		25% - 49%	0	0	
50% - 74%	0	0		50% - 74%	1	0.3	0.3	50% - 74%	1	0.4	0.4	50% - 74%	0	0	
75% - 89%	0	0		75% - 89%	0	0		75% - 89%	1	0.3	0.3	75% - 89%	0	0	
≥90%	3	1.2	0.7	≥90%	3	1.1	0.7	≥90%	2	0.7	0.5	≥90%	0	0	
DK/DTR	0			DK/DTR	0			DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0			Missing	0			Missing	0		
Total	273	100		Total	273	100		Total	273	100		Total	273	100	
Care by doctors	s, nurses, o	or other hea	alth												
workers that di	id not requ	uire overnig	ht stay	Medications p	rescribed b	y health p	ersonnel								
0%	266	97.7	0.9	0%	140	52.9	3.9								
0.1% - 9%	0	0		0.1% - 9%	4	1.4	0.7								
10% - 24%	4	1.3	0.6	10% - 24%	4	1.6	0.8								
25% - 49%	1	0.3	0.3	25% - 49%	9	3.2	1.1								
50% - 74%	1	0.4	0.4	50% - 74%	12	3.7	1								
75% - 89%	1	0.3	0.3	75% - 89%	4	1.7	0.8								
≥90%	0	0		≥90%	100	35.5	3.9								
DK/DTR	0			DK/DTR	0										
Missing	0			Missing	0										
Total	273	100		Total	273	100									



2.5.3 Source of health expenditure financing

Of the 1,300 total households in the survey, 215 (17percent) reported that members of the household went to a hospital and stayed overnight at least once during the last 12 months. Of those 215 households with overnight stays, 125 reported a non-zero amount paid for all of the expenses associated with the overnight stays. Among these 125 households, the amount paid for overnight stays over the last 12 months ranged from a minimum of C\$12 to a maximum of C\$100,000. The weighted median amount paid was C\$1,000 and the weighted mean was C\$2,491, which was inflated by a few households that paid very high expenses. Overall, 90 percent of households with expenditures for overnight stays reported paying C\$3,500 or less.

Table 2.5.3 shows the source of financing for medical expenditures as a percentage of the total household medical expenditures for overnight hospital stays. More than half of all households (54 percent) use current income to fund a portion or all of the household's medical expenditures, with 48 percent of households using current income to fund 90 percent or more of the total medical expenses. Approximately 16 percent of households used savings, 16 percent used money from friends or family members, and 11 percent used money loaned from someone who is not a friend or family member. Fewer than 5 percent of households financed medical expenses through selling property, reducing household spending, health insurance plan payments, political donations or grants, remittances from family or friends abroad, or other alternative sources.



Table 2.5.3 Household medical expenditures by source of financing

Percent distrib	ution of ho	useholds	by source	of medical exp	enditures a	s a percen	tage of rep	orted total ho	usehold me	dical expe	nditures fo	or overnight h	ospital stays	in the last	12
months, amon	g those hou			ght hospital sta	ays										
Financing		Weighted	Weighted	Financing		Weighted	Weighted	Financing		Weighted	Weighted	Financing		Weighted	Weighted
source	N	%	SE	source	N	%	SE	source	N	%	SE	source	N	%	SE
Any of the hou	sehold me	mbers' cur	rent	Health insurar	nce plan pa	yment or									
income				reimbursemei	nt			Property sold				Political dona	itions or gra	nts	
0%	56	46.1	5.1	0%	125	100		0%	124	98.9	1	0%	125	100	
0.1% - 9%	0	0		0.1% - 9%	0	C		0.1% - 9%	0	0		0.1% - 9%	0	0	
10% - 24%	0	0		10% - 24%	0	C		10% - 24%	0	0		10% - 24%	0	0	
25% - 49%	4	3	1.4	25% - 49%	0	C		25% - 49%	0	0		25% - 49%	0	0	
50% - 74%	2	1.6	1.1	50% - 74%	0	C		50% - 74%	0	0		50% - 74%	0	0	
75% - 89%	1	0.9	0.9	75% - 89%	0	C		75% - 89%	0	0		75% - 89%	0	0	
≥90%	62	48.3	5.2	≥90%	0	C		≥90%	1	1.1	1	≥90%	0	0	
DK/DTR	0			DK/DTR	0			DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0			Missing	0			Missing	0		
Total	125	100		Total	125	100		Total	125	100		Total	125	100	
				Items sold (e.	g., furniture	e, animals,	or	Money from r	elatives or f	riends wh	o do not				
Savings (e.g. b	ank accoun	t)		jewelry)				belong to the	household			Another sour	ce		
0%	105	83.6	3.3	0%	114	91.5	2.7	0%	107	84.2	3	0%	121	97.8	1.3
0.1% - 9%	0	0		0.1% - 9%	0	0		0.1% - 9%	0	0		0.1% - 9%	0	0	
10% - 24%	0	0		10% - 24%	0	C		10% - 24%	0	0		10% - 24%	0	0	
25% - 49%	2	1.4	1	25% - 49%	1	0.9	0.9	25% - 49%	0	0		25% - 49%	0	0	
50% - 74%	0	0		50% - 74%	2	1.4	1	50% - 74%	6	4.8	1.8	50% - 74%	0	0	
75% - 89%	0	0		75% - 89%	0	C		75% - 89%	0	0		75% - 89%	0	0	
≥90%	18	15	3.3	≥90%	8	6.2	2.1	≥90%	12	10.9	2.7	≥90%	4	2.2	1.3
DK/DTR	0			DK/DTR	0			DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0			Missing	0			Missing	0		
Total	125	100		Total	125	100		Total	125	100		Total	125	100	
				Money loaned	from som	eone who	is not a	Remittances f	rom family	members	or friends				
Reducing othe	r househol	d spending	g	friend of the f				abroad	,						
0%	123	97.1		0%	114	89.3	2.7	0%	123	98.2	1.3				
0.1% - 9%	0	0		0.1% - 9%	0			0.1% - 9%	0	0					
10% - 24%	0	0		10% - 24%	0	0		10% - 24%	0	0					
25% - 49%	0	0		25% - 49%	0	0		25% - 49%	0	0					
50% - 74%	0	0		50% - 74%	0	0		50% - 74%	0	0					
75% - 89%	0	0		75% - 89%	0	-		75% - 89%	0	0					
≥90%	2	2.9		≥90%	11			≥90%	2	1.8					
DK/DTR	0		_	DK/DTR	0			DK/DTR	0	2.0	2.0				
Missing	0			Missing	0			Missing	0						
Total	125	100		Total	125			Total	125	100					



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 SM2015-Nicaragua Baseline 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 residing in the surveyed households in Nicaragua is shown in Table 3.1.1 by five-year age groups. Sixty-two percent of all women participating in the baseline SM2015 Household Survey were younger than 30 years of age, 25 percent were between the ages of 30 and 39, and 13 percent were between the ages of 40 and 49. While the majority of women reported being married (30 percent) or partnered (35 percent), 30 percent indicated they were never married. Approximately 25 percent of women reported being the spouse/partner of the head of the sampled household, 24 percent reported being the biological daughter of the head of the household, 22 percent reported being the life partner of the head of the household, and 12 percent reported being the head of the household.



Table 3.1.1 Demographic characteristics of respondents

Percent distribution of the household		y age, mari	ital
status and respondent's relationship to	o the head of	the house	hold
Background characteristic	N	%	SE
Age		•	
15-19 years	367	21.3	1
20-24 years	410	23.8	1
25-29 years	294	17.1	0.9
30-34 years	245	14.2	0.8
35-39 years	182	10.6	0.7
40-44 years	128	7.4	0.6
45-49 years	94	5.5	0.5
Missing	0		
Total	1720	100	
Marital status			
Single	510	29.7	1.1
Married	518	30.1	1.1
Open union / partnered	603	35.1	1.2
Divorced	2	0.1	0.1
Separated	68	4	0.5
Widowed	19	1.1	0.3
Other	0	0	
DK/DTR	0		
Missing	1720	100	
Total	5016	100	
Respondent's relationship to the head	of household	d	
Head of the household	212	12.3	0.8
Spouse	423	24.6	1
Biological child	411	23.9	1
Adopted / step child	21	1.2	0.3
Grandchild	38	2.2	0.4
Niece / nephew	22	1.3	0.3
Mother / father	4	0.2	0.1
Sister / brother	28	1.6	0.3
Daughter-in-law / son-in-law	117	6.8	0.6
Sister-in-law / brother-in-law	14	0.8	0.2
Grandparent	0	0	
Mother-in-law / father-in-law	1	0.1	0.1
Other relative	4	0.2	0.1
Non-relative	37	2.2	0.3
Life partner	386	22.4	1
Other	2	0.1	0.1
Missing	0		
Total	1720	100	

3.1.2 Residence



Department and municipality of residence are summarized in Table 3.1.2 below. The original sampling scheme dictated that segments would be selected with probability proportional to size. The highest numbers of women were surveyed from the municipalities of Tuma-La Dalia and Puerto Cabezas. Fewer than 40 women were surveyed from the municipalities of Prinzapolka, Rosita, or Terrabona.

Table 3.1.2 Department and municipality of residence of respondents

Municipality	No. of women
Bocana de Paiwas	85
El Cua	115
Matiguás	122
Mulukuku	81
Prinzapolka	36
Puerto Cabezas	327
Rancho Grande	87
Rosita	35
San Sebastián de Yali	114
Santa Maria de Pantasma	156
Terrabona	33
Tuma - La Dalia	411
Wiwili	118



3.2 Educational Attainment and Literacy

Eighty-six percent of survey participants had attended school (Table 3.2.1). For the majority of these women (47 percent), 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." About 75 percent of women surveyed were able to read the whole sentence. Eleven percent of women could not read the sentence at all.

Table 3.2.1 Educational attainment and literacy

Percentage of women age 15-49 who attended school; percentage of
women who attended a literacy course; percent distribution by
highest level of education attended, among those who attended
school: and literacy of women

school; and literacy of women			
Education discussion		Weighted	Weighted
Education characteristic	N	%	SE
Education			
Attended school	1469	85.6	1.8
Did not attend school	243	14.4	1.8
DK/DTR	1		
Missing	7		
Total	1720	100	
Literacy course			
Attended literacy course	131	8	1.2
Did not attend literacy course	1582	92	1.2
DK/DTR	0		
Missing	7		
Total	1720	100	
Highest level of education, among those	e who atte	nded scho	ol
Primary	777	47.2	4.2
Secondary	485	35.9	2
Middle or high school	34	2.2	0.5
University	151	13	2.6
Technical school	21	1.6	0.5
DK/DTR	1		
Missing	0		
Total	1469	100	
Literacy			
Cannot read at all	190	10.8	1.4
Able to read parts of sentence	233	13.5	1.3
Able to read whole sentence	1281	75.4	2.2
Blind or visually impaired	7	0.3	0.1
DK/DTR	2		
Missing	7		
Total	1720	100	



3.3 Employment

As summarized in Table 3.3, the vast majority of respondents were homemakers (71 percent). Of the 171 women who reported being employed and working at the time of the interview, nearly all (96 percent) identified "employee" as their occupational role.

Table 3.3 Employment

Percent distribution of women age 15-49 by employment status and						
role						
Fire all assessments also are at a silvation		Weighted %	Weighted SE			
Employment characteristic	N	76	SE			
Employment status						
Employed and being paid for work	171	11.6	1.7			
Employed but did not work in the last w	4	0.4	0.3			
Employed by a family member without	2	0.2	0.2			
Student	168	12.2	1.6			
Homemaker	1300	70.6	3.1			
Retired	1	0	0			
Unable to work due to disability	7	0.3	0.1			
DK/DTR	57	4.5	1.2			
Missing	3	0.1	0.1			
Total	0					
Occupational role, among women empl	oyed and b	peing paid	for work			
Employee	167	96	2.1			
Employer	3	2.4	1.6			
Owner	0	0				
Self-employed	1	1.6	1.5			
DK/DTR	0					
Missing	0					
Total	171	100				



3.4 Exposure to Mass Media

Respondents were asked about their exposure to several common types of mass media: newspapers, radio, and television. As displayed in Table 3.4.1, below, among women who demonstrated full or partial literacy, half had weekly exposure to newspapers. About 72 percent of all women had weekly exposure to radio, and 65 percent had weekly exposure to television.



Table 3.4.1 Exposure to mass media

Percent distribution of women by expo			
television; percentage exposed to all the	ree forms	of media a	and to any
form of media at least once a week			
Characteristic	N	Weighted %	Weighted SE
Newspapers, among fully or partially lit	erate won	nen	
≥1 time per week	727	49.2	2.6
<1 time per week	200	12.4	1.3
Never	583	38.4	2.4
Not applicable	1	0	(
DK/DTR	3		
Missing	0		
Total	1514	100	
Radio			
≥1 time per week	1241	71.5	2.4
<1 time per week	142	8.1	1.2
Never	308	19.3	2.2
Not applicable	21	1.1	0.4
DK/DTR	1		
Missing	7		
Total	1720	100	
Television			
≥1 time per week	989	64.6	3.3
<1 time per week	111	6.3	
Not applicable	546	25.6	3.1
Never	63	3.4	1.2
DK/DTR	4		
Missing	7		
Total	1720	100	
Exposed to all three forms of media at I	east once	oer week,	among
fully or partially literate women		,	
Yes	424	31.4	2.8
No	1056	66.7	2.9
Not applicable	31	1.9	0.6
DK/DTR	3		
Missing	0		
Total	1514	100	
Exposed to any form of media at least of	nce per we		
Yes	424	28.6	2.8
No	1195	68.8	2.8
Not applicable	44	2.6	0.9
DK/DTR	3		5
Missing	54		
Total	1720	100	



3.5 Access to Health Services

3.5.1 Proximity to health care facilities

Tables 3.5.1a-d display the responses to several survey questions that were used to assess proximity 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.

Not counting the 152 women who were unable to estimate the distance to the closest health facility, 67 percent of women reported living within 5 kilometers of a health facility (Table 3.5.1a). Approximately one quarter of the sample indicated that it took less than 30 minutes to reach this facility by the usual means of transportation. One quarter of women estimated the travel time from their household to the closest health facility to be an hour 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 150 women who did not know the distance to the facility, 67 percent of women were within 5 kilometers and 51 percent of women could travel there in less than 30 minutes (Table 3.5.1b).

Women that had given birth during the past five years were asked about the proximity to the health facility used to deliver. Of these 580 women, 132 did not know the distance (Table 3.5.1c). Almost half of the women (47 percent) reported travelling more than 10 km. Over half of women (60 percent) travelled more than one hour to the facility to deliver.

Of the 1,552 women who reported a recent health facility visit for their child or themselves, most traveled less than 5 kilometers for care (65 percent). Nineteen percent travelled more than 10 kilometers for care. About half of women travelled for less than 30 minutes (49 percent), and 29 percent spend one hour or more travelling for care.



Table 3.5.1a Proximity to health care facilities: nearest health facility

Percent distribution of women according to distance and travel time						
to health care facility closest to household						
Weighted Weighted						
Distance and time	N	%	SE			
Distance						
<1 km	191	15.7	3			
1 to <5 km	803	52.9	3.8			
5 to <10 km	311	17.6	3.1			
≥10 km	256	13.7	2.9			
DK/DTR	152					
Missing	7					
Total	1720	100				
Travel time						
<15 min	382	26.2	4.7			
15 to <30 min	433	27	3.3			
30 to <45 min	332	20.1	2.6			
45 to <60 min	39	2.1	0.6			
≥60 min	459	24.5	3.7			
DK/DTR	8					
Missing	67					
Total	1720	100				

Table 3.5.1b Proximity to health care facilities: usual health facility

Percent distribution of women according to distance and travel time							
to health care facility that the head of h	to health care facility that the head of household usually attends						
		Weighted	Weighted				
Distance and time	N	%	SE				
Distance							
<1 km	165	13.4	2.7				
1 to <5 km	748	53.7	4				
5 to <10 km	280	16.8	3				
≥10 km	270	16.1	3.2				
DK/DTR	150						
Missing	0						
Total	1613	100					
Travel time							
<15 min	358	24	4.4				
15 to <30 min	408	27	3.5				
30 to <45 min	322	20.5	2.5				
45 to <60 min	41	2.3	0.6				
≥60 min	475	26.3	3.9				
DK/DTR	6						
Missing	3						
Total	1613	100					



Table 3.5.1c Proximity to health care facilities: health facility for delivery

Percent distribution of women according to distance and travel time					
to health care facility attended for most recent delivery in the last					
two years					
		Weighted	Weighted		
Distance and time	N	%	SE		
Distance					
<1 km	17	3.9	1.5		
1 to <5 km	138	37.6	6.8		
5 to <10 km	55	11.5	2.1		
≥10 km	238	47	7		
DK/DTR	132				
Missing	0				
Total	580	100			
Travel time					
<15 min	104	21.7	4		
15 to <30 min	62	11.2	1.7		
30 to <45 min	36	6.7	1.4		
45 to <60 min	4	0.9	0.8		
≥60 min	368	59.6	4.7		
DK/DTR	6				
Missing	0				
Total	580	100			

Table 3.5.1d Proximity to health care facilities: health facility for recent illness

Percent distribution of women according to distance and travel time

to health care facility attended for respondent's recent illness or					
child's recent illness					
		Weighted	Weighted		
Distance and time	N	%	SE		
Distance					
<1 km	141	11.6	2.2		
1 to <5 km	704	53.4	4.2		
5 to <10 km	260	16.4	3		
≥10 km	298	18.6	3		
DK/DTR	149				
Missing	0				
Total	1552	100			
Travel time					
<15 min	325	22.4	3.7		
15 to <30 min	385	26.4	3.3		
30 to <45 min	303	19.9	2.4		
45 to <60 min	36	2	0.5		
≥60 min	495	29.3	4		
DK/DTR	2				
Missing	6				
Total	1552	100			



3.6 Health Status

3.6.1 Current health status

Table 3.6.1 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, 47 percent reported that their health was "about the same". While 45 percent reported that their health had improved, 8 percent reported worse health on the day of the interview, compared to last year. Eighty-seven percent could "easily" perform their daily activities (e.g., work, housework, and child care). About 13 percent of women reported at least some degree of difficulty performing these tasks that was related to their health status.

Table 3.6.1 Current health status

Percent distribution of women age 15-49 by self-rated current health						
status relative to the health status last year and percentage who can						
easily perform daily activities						
		Weighted	Weighted			
Characteristic	N	<u></u> %	SE			
Current health relative to health last ye	ar					
Better	707	44.5	1.5			
Worse	174	8.4	0.7			
About the same	831	47.1	1.5			
DK/DTR	1					
Missing	7					
Total	1720	100				
Ability to perform daily activities						
Easily	1471	86.5	1.1			
With some difficulty	217	12.4	1			
With much difficulty	23	1	0.2			
Unable to do	2	0.1	0.1			
DK/DTR	0					
Missing	7					
Total	1720	100				

3.6.2 Recent illness

Women were asked a series of questions about any illnesses or health problems they might have had in the two weeks preceding the interview. Approximately 23 percent of women reported being sick during that time (Table 3.6.2). Of the 413 women who reported a recent illness, headache (26 percent), fever (12 percent), and abdominal pain (9 percent) were the most commonly elicited specific complaints. Twenty-seven percent of women had an illness other than those on the list provided.



Table 3.6.2 Recent illness

Percentage of women age 15-49 who w	ere sick in	the last tw	o weeks;
and among those who were sick, percei	nt distribut	ion by typ	e of
recent illness			
		Weighted	Weighted
Characteristic	N	%	SE
Respondent was sick during the past tw			
Yes	413	22.7	1.7
No	1298	77.3	1.7
DK/DTR	2		
Missing	7		
Total	1720	100	
Type of illness, among those sick in the	past two w	veeks	
Fever	52	12.4	2.6
Malaria	1	0.2	0.2
Cough / chest infection	32	6	1.5
Tuberculosis	0	0	
Asthma	3	0.6	0.4
Bronchitis	1	0.3	0.2
Pneumonia	1	0.2	0.2
Diarrhea without blood	2	0.3	0.2
Diarrhea with blood	0	0	
Diarrhea with vomiting	2	0.4	0.3
Vomiting	4	1.9	1.4
Abdominal pain	41	9.1	2.3
Anemia	0	0	
Skin rash / infection	4	0.6	0.3
Eye / ear infection	4	0.9	0.4
Measles	0	0	
Jaundice	1	0.1	0.1
Headache	98	25.6	3.3
Toothache	11	1.5	0.5
Stroke	0	0	
Hypertension	11	6.3	2.5
Diabetes	2	2	1.5
HIV/AIDS	0	0	
Paralysis	0	0	
Gynecologic problems	17	4.1	1.2
Obstetric problems	1	0.2	0.2
Other	125	27.3	3.5
DK/DTR	0		
Missing	0		
Total	413	100	



3.6.3 Utilization of health services

Table 3.6.3 summarizes data regarding the utilization of health services among the 413 women who reported an illness in the two weeks preceding the interview. Among these women, 166 (43 percent) sought care at a health care facility. Many of these women attended a public health center/clinic (34 percent); another 32 percent attended a public hospital, and 23 percent attended a public health unit. Only 4 percent women of women who sought care were admitted to a hospital for their recent illness.



Table 3.6.3 Utilization of health services

Among women who reported sick in the last two weeks, percentage of women who sought care for the illness; and among women who sought care, percent distribution by timing of care-seeking after onset of illness

of illness			
Ch and the right is	N.	Weighted	_
Characteristic	N	%	SE
Sought care for recent illness	1.00	42.4	4.1
Yes	166	43.4	4.1
No	247	56.6	4.1
DK/DTR	0		
Missing	0	100	
Total	413	100	
Type of health facility where care was s	_	-	_
Public hospital	50	31.5	7.6
Public health unit	50	23.1	4.4
Public health center / clinic	53	33.7	6.9
Public mobile clinic	1	0.7	0.7
Other public health facility	0	0	
Private hospital	1	0.6	0.6
Private health center / clinic	2	1.4	1
Private office	5	4.7	3.4
Private mobile clinic	0	0	
Other private health facility	1	0.3	0.3
Pharmacy	1	0.5	0.5
Community health worker	0	0	
Traditional healer	0	0	
Other	2	3.6	3.2
DK/DTR	0		
Missing	0		
Total	166	100	
Admitted to hospital for care, among w	omen who	sought car	re at a
public or private: hospital, health cente	r / clinic, n	nobile clini	c, or
other health facility; public health unit;	private of	fice; or pha	armacy
Yes	8	4.1	1.4
No	156	95.9	1.4
DK/DTR	0		
Missing	0		
Total	164	100	



3.6.4 Insurance coverage

Most women are covered by health insurance (Table 3.6.4). Most women are not insured. Less than five percent of women have insurance from each of: INSS, government/military.



Table 3.6.4 Insurance coverage

Percentage distribution of insurance st	tatus among	g all wome	n, women
who reported sick in the last two week	ks, and wom	nen who re	ported
sick in the last two weeks but did not s	eek care		
		Weighted	Weighted
Insurance status	N	%	SE
Insurance among all women			
MINSA	0	0	
INSS	66	5.4	1.6
Government / military	3	0.1	0.1
Private insurance	0	0	
Other	0	0	
None	1644	94.4	1.6
DK/DTR	0		
Missing	7		
Total	1720	100	
Insurance among women who were sig	ck in the pas	st two wee	ks
MINSA	0	0	
INSS	13	4.6	1.6
Government / military	1	0.2	0.2
Private insurance	0	0	
Other	0	0	
None	399	95.2	1.6
DK/DTR	0		
Missing	0		
Total	413	100	
Insurance among women who were sig	ck in the pas	st two wee	ks but did
not seek care	•		
MINSA	0	0	
INSS	9	6.6	2.8
Government / military	1	0.3	0.3
Private insurance	0	0	
Other	0	0	
None	237	93.1	2.8
DK/DTR	0		
Missing	0		
Total	247	100	



3.6.5 Other barriers to health care access

There are many other barriers to accessing health care. Women were presented with 20 specific factors that might have prevented themselves or their family from receiving health care when it was needed. Table 3.6.5 summarizes the responses to this section. The most commonly cited factor influencing health care access is that women had a preference for treatment at home (45 percent). About 18 percent of women said the health center did not have enough drugs, and 16 percent did not believe they were ill enough to seek treatment.



Table 3.6.5 Other barriers to health care utilization

Table 3.6.5 Other ba				riers to health care	utilization	n, among a	mong	
_		•		eeks but did not se		., aa.		
Reason for not	ted semig			Reason for not	e c it dui c	Weighted	Weighted	
seeking care	N	weighted %	SE	seeking care	N	weighted %	SE	
Not sick enough to		tment		The health center's staff is not knowledgeab				
Yes	33	15.6	3.8	Yes	2	0.6	•	
No	214	84.4		No	245	99.4		
DK/DTR	0	_		DK/DTR	0		_	
Missing	0			Missing	0			
Total	247	100		Total	247	100		
Treated self at hor	me			Do not trust the st	aff			
Yes 92 44.5				Yes	3	3.5	2.4	
No	155	55.5	5.9	No	244	96.5		
DK/DTR	0			DK/DTR	0			
Missing	0			Missing				
Total	247	100		Total	247	100		
Care is too expens	sive			Was previously mi	istreaded			
Yes	10	3.4	1.1	Yes	10	3.3	1.2	
No	237	96.6	1.1	No	237	96.7	1.2	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	247	100		Total	247	100		
Health center is to	o far away			Tried, but was refused care				
Yes	10	4	1.9	Yes	9	3.8	1.6	
No	237	96	1.9	No	238	96.2	1.6	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	247	100		Total	247	100		
Could not find tran	nsportatio	า		Did not get permis	ssion to go	to the doc	tor	
Yes	7	1.9	0.7	Yes	1	0.3	0.3	
No	240	98.1	0.7	No	246	99.7	0.3	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	247	100		Total	247	100		
Could not afford to	ransportat	ion		Did not want to go	alone			
Yes	33	10.4	3.3	Yes	3	0.9	0.6	
No	214	89.6	3.3	No	244	99.1	0.6	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	247	100		Total	247	100		



Table 3.6.5 continued

Reason for not		Weighted	Weighted	Reason for not		Weighted	Weighted	
seeking care	N	%	SE	seeking care	N	%	SE	
				Too busy with work, children, and other				
Did not know whe	re to go			commitments				
Yes	0	0		Yes	21	8.5	2.9	
No	247	100		No	226	91.5	2.9	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	247	100		Total	247	100		
Health center infra	astructure	is poor		Religious / cultura	al beliefs			
Yes	5	1.6	0.9	Yes	3	0.8	0.4	
No	242	98.4	0.9	No	244	99.2	0.4	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	247	100		Total	247	100		
Health center doe	s not have	enough dr	ugs	No one present at	one present at the center when visited			
Yes	58	17.7	2.7	Yes	2	0.5	0.4	
No	189	82.3	2.7	No	245	99.5	0.4	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	247	100		Total	247	100		
Health center is no	ot well equ	iipped		Other				
Yes	9	2.7	1	Yes	18	5.3	1.3	
No	238	97.3	1	No	229	94.7	1.3	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	247	100		Total	247	100		
It is difficult to dea	al with hea	lth center						
personnel								
Yes	15	5.3	1.8					
No	232	94.7	1.8					
DK/DTR	0							
Missing	0							
Total	247	100						



CHAPTER 4: FERTILITY

This chapter summarizes several indicators related to fertility based on self-reported data from women of reproductive age (15-49 years) participating in the SM2015-Nicaragua Baseline Household Survey.

4.1 Fertility Rates

The fertility rates summarized below were derived from the United Nations Population Divisiongenerated time series for Nicaragua.

4.1.1 Age-specific fertility rates

Age-specific fertility rates (ASFR) are calculated for each five-year age group from 15-19 to 45-49, presented as an annual rate. Births to women at ages less than 15 years, or greater than 49, at the time of the birth are not included. Table 4.1.1 summarizes the five-year age-specific fertility rates in Nicaragua since 1990, at the national level.

Table 4.1.1 Age-specific fertility rates

Number of births per 1,000 women, 1990-2010, from World Population							
Prospects: The 2012 Revision, United Nations Population Division							
Age group, years		Ye	ar				
	1990-1995 1995-2000 2000-2005 2005-2010						
15-19	156.6	132.6	119.4	112.7			
20-24	229.9	198.4	158.9	145.6			
25-29	197.1	161.6	139.3	126.7			
30-34	154.3	120.4	98.5	89.4			
35-39	100.4	71.4	56.4	51.3			
40-44	48.6	29.0	21.4	19.6			
45-49	13.1	6.6	6.2	5.7			

4.1.2 Total fertility rate

The total fertility rate (TFR) is an age-period fertility rate for a synthetic cohort of women surviving from birth through the end of their reproductive period. It measures the average number of births a group of women would have by the time they reach age 50 if they were to give birth at the current age-specific fertility rates (for women aged 15-49) and survive to age 50. The TFR is expressed as the average number of births per woman, and is a better indicator of population fertility because it does not depend on the age structure of the population. However, since this indicator is based on a synthetic cohort of women, it does not necessarily reflect the average number of children women currently aged 15-49 will have, since fertility rates may change in the future. Table 4.1.2 displays the total fertility rates in Nicaragua since 1990, at the national level.



Table 4.1.2 Total fertility rate

Average number of births per woman, 1990-2010, from World Population							
Prospects: The 2012 Revision, United Nations Population Division							
	Year						
	1990-1995 1995-2000 2000-2005 2005-2010						
Total fertility rate	4.50 3.60 3.00 2.						

4.2 Age at first birth

4.2.1 Age at first birth

Seventy percent of respondents had ever given birth (Table 4.2.1). Of these, 70 percent were between 12 and 19 years old when their first child was born. Only 7 percent of women were 25 years old or older when their first child was born. Approximately 9 percent of women reported a history of stillbirth, miscarriage, and/or abortion.



Table 4.2.1 Parity and age at first birth

Percent of women age 15-49 who have ever given birth, their age at				
first birth, and the percent of women w	ho have had a miscarriage,			
stillbirth, or abortion				
	Weighted Weighted			

stillshift, of abortion		Weighted	Weighted
Characteristic	N	%	SE
Ever given birth			
Yes	1403	75	1.6
No	310	25	1.6
DK/DTR	0		
Missing	7		
Total	1720	100	
Age at first birth, among parous women			
12-14 years	83	5.1	0.7
15-19 years	900	64.6	2.4
20-24 years	338	23.6	2.3
25-29 years	66	6	1
30-34 years	10	0.6	0.2
35-39 years	2	0.1	0.1
40-44 years	0	0	
45-49 years	0	0	
DK/DTR	0		
Missing	4		
Total	1403	100	
Ever had a stillbirth, miscarriage, or abo	rtion		
Yes	162	8.7	1
No	1550	91.3	1
DK/DTR	1		
Missing	7		
Total	1720	100	

4.3 Birth Intervals

4.3.1 Intervals between births

Intervals between births (defined as the number of months between successive births) were calculated using the reported ages of all live births. Reported intervals of less than 9 months were reclassified as missing. Mean birth intervals were then calculated by averaging the derived birth intervals for each woman. Table 4.3.1 displays the distribution of birth intervals, stratified by number of live births.



Table 4.3.1 Intervals between births

Among women with two or more child	lren, percen	it distributi	ion by
duration of the birth intervals			
		Weighted	Weighted
Mean birth interval	N	%	SE
Among women with more than one ch			
9-11 months	1	0.1	0.1
12-23 months	42	5.7	1.2
24-35 months	199	27.1	2.6
36-47 months	213	20.7	1.7
48-59 months	167	14.9	1.6
≥60 months	295	31.6	2.3
Missing	30		
Total	947	100	
Among women with two children			
9-11 months	1	0.2	0.2
12-23 months	18	7.5	2.6
24-35 months	43	18.9	3.6
36-47 months	36	10.9	1.9
48-59 months	41	10.2	1.8
≥60 months	151	52.3	4.4
Missing	18		
Total	308	100	
Among women with three or four child	dren		
9-11 months	0	0	
12-23 months	13	5.6	2
24-35 months	54	20.5	3.7
36-47 months	75	19.9	3.1
48-59 months	92	20.3	3
≥60 months	132	33.7	2.9
Missing	5		
Total	371	100	
Among women with five or more child			
9-11 months	0	0	
12-23 months	11	3.8	1.3
24-35 months	102	47.5	2.0
36-47 months	102	33.2	3.7
48-59 months	34	11.2	2.1
≥60 months	12	4.3	1.7
Missing	7	7.3	1.7
Total	268	100	



4.4 Fertility Preferences

4.4.1 Desire for more children

Desire for more children was captured in several places on the Maternal and Child Health Questionnaire. With respect to each live birth in the last five years and with respect to the current pregnancy (among 51 women who reported being pregnant on the day of the interview), women were asked to report whether or not they wanted to become pregnant at that time. Lastly, all women participating in the survey were asked if they wanted more children in the future. Responses to these questions are summarized in Table 4.4.1.

With respect to the most recent pregnancy in the last two years, approximately one third of parous women reported that they did not want to become pregnant. Eight percent did not want more or any children, and 24 percent would have preferred to wait longer before becoming pregnant. The prevalence of these preferences was similar when women were asked to think about their current pregnancy: 9 percent of these women did not want to become pregnant and 22 percent would have preferred to wait longer before becoming pregnant.

Table 4.4.1 Desire for more children

Among women with a pregnancy in the two years preceding the						
interview, percent distribution by desire of	the most r	ecent pre	gnancy in			
the last two years; and among all women, p	ercentage	who desire	e more			
children						
		Weighted	Weighted			
Characteristic	N	%	SE			
Respondent desired their most recent preg	nancy in th	e past two	years			
Yes	485	68.8	2			
No, wanted to wait	148	23.6	2.2			
No, did not want (more) children	59	7.7	1.2			
DK/DTR	0					
Missing	10					
Total	702	100				
Respondent desires current pregnancy						
Yes	34	68.6	10.8			
No, wanted to wait	14	22.1	7.2			
No, did not want (more) children	2	9.3	7.7			
DK/DTR	1					
Missing	0					
Total	51	100				



4.4.2 Ideal birth interval

Women who indicated that they would have preferred to wait before becoming pregnant with their most recent birth in the last five years were asked to report how long they would have wanted to wait. The preferred birth intervals were calculated by adding the desired length of time mothers would have preferred to wait to the actual birth interval. Table 4.4.2 displays the distribution of ideal birth intervals for the most recent birth in the last five years, stratified by the total number of live births reported by the mother.



Table 4.4.2 Ideal interval for most recent birth

Percent distribution of women with 2		•	
interval for most recent birth, according	ng to the nu		
Ch ave at a vieti a	N.	Weighted	Weighted
Characteristic	N :Id	%	SE
Among women with more than one ch		0	
9-11 months	0	0	0.7
12-23 months	18	3	0.7
24-35 months	41	6.4	0.9
36-47 months	53	8.3	1.1
48-59 months	78	11.4	1.1
≥60 months	380	57.4	2.4
Did not want to have another child	94	13.4	1.8
Missing	25		
Total	689	100	
Among women with two children			
9-11 months	0	0	
12-23 months	5	1.8	0.8
24-35 months	19	8.6	1.8
36-47 months	20	8.4	2.1
48-59 months	37	14	2.5
≥60 months	151	62.8	3.2
Did not want to have another child	12	4.4	1.4
Missing	16		
Total	260	100	
Among women with three or four child	dren		
9-11 months	0	0	
12-23 months	5	2.6	1.3
24-35 months	12	4.4	1.4
36-47 months	21	9	2.1
48-59 months	29	11.2	2
≥60 months	159	60.5	3.3
Did not want to have another child	33	12.3	1.9
Missing	4		
Total	263	100	
Among women with five or more child		200	
9-11 months	0	0	
12-23 months	8	5.6	1.8
24-35 months	10	6.1	2.1
36-47 months	12	7.1	2.1
48-59 months	12	7.1	2.2
≥60 months	70	44.1	4.2
Did not want to have another child	49	29.3	4.5
Missing	5	23.3	4.3
		100	
Total	166	100	



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 SM2015-Nicaragua Baseline Household Survey.

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 were certain days when a woman is more likely to become pregnant, and when during the menstrual cycle those days occurred. Responses to these questions are summarized in Table 5.1.1. Three quarters of women indicated that there were certain days when a woman is more likely to become pregnant, and of these women, 18 percent identified the correct timing of the fertile period (halfway between two periods).

Table 5.1.1 Knowledge of the fertile period

Percentage of all currently married or partnered women age 15-49 who know the timing of the fertile period								
Characteristic	N	Weighted %	Weighted SE					
Are there certain days when a woman is		, -						
pregnant?	s more nike	Ty to become	TIC .					
Yes	778	77.6	2.1					
No	230	22.4	2.1					
DK/DTR	107							
Missing	6							
Total	1121	100						
Is this time just before her period begir	ns, during h	er period,	right					
after her period has ended, or halfway	between t	wo periods	?					
Just before her period begins	186	24.7	2.8					
During her period	44	6.6	1.3					
Right after her period has ended	389	49.4	3.7					
Halfway between two periods	138	18.4	2.6					
Other	6	0.9	0.3					
DK/DTR	15							
Missing	0							
Total	778	100						

5.2 Use of Family Planning Methods

5.2.1 Current use

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



fertility. Women who said they had heard of a family planning method were then asked if they were currently using that method. Table 5.2.1a 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. Nearly 70 percent of all survey respondents reported current use of at least one family planning method.

Table 5.2.1a Current use of family planning methods

Percentage of all currently married or p	artnered w	omen age	15-49
using family planning methods			
		Weighted	Weighted
Characteristic or method	N	%	SE
Current use of any method			
Yes	825	69	2.2
No	290	31	2.2
DK/DTR	0		
Missing	6		
Total	1121	100	
Current use of any method, among won	nen in nee	d of contra	ceptives
Yes	815	82.1	1.8
No	148	17.9	1.8
DK/DTR	0		
Missing	0		
Total	963	100	
Current use of more than one method			
Yes	4	0.5	0.3
No	1111	99.5	0.3
DK/DTR	0		
Missing	6		
Total	1121	100	
Number of methods the respondent is	currently u	sing	
0 methods	290	31	2.2
1 method	821	68.5	2.3
2 methods	4	0.5	0.3
3 or more methods	6	0	
DK/DTR	0		
Missing	0		
Total	1121	100	

Table 5.2.1b displays the percentage of all women using specific family planning methods. The methods most commonly in use are injectables (42 percent) and female sterilization (17 percent).



Table 5.2.1b Current use of family planning methods, by type of method

				tnered wo				family plai	nning meth	ods	
		Weighted				Weighted				Weighted	Weighted
Method	N	%	SE	Method	N	%	SE	Method	N	%	SE
Female ste	erilization			Condom				Rhythm n	nethod		
Yes	167	16.8		Yes	24	1.9		Yes	3	0.2	
No	947	83.2	1.6	No	1090	98.1	0.5	No	1112	99.8	0.2
DK/DTR	1			DK/DTR	1			DK/DTR	0		
Missing	6			Missing	6			Missing	6		
Total	1121	100		Total	1121	100		Total	1121	100	
Male steri	lization			Female co				Withdraw	val method		
Yes	0	0		Yes	0	0		Yes	3	0.2	0.1
No	1115	100		No	1115	100		No	1111	99.8	0.1
DK/DTR	0			DK/DTR	0			DK/DTR	1		
Missing	6			Missing	6			Missing	6		
Total	1121	100		Total	1121	100		Total	1121	100	
IUD				Diaphragm	1			Emergen	cy contrace		
Yes	21	1.9	0.6	Yes	0	0		Yes	0	0	
No	1093	98.1	0.6	No	1115	100		No	1113	100	
DK/DTR	1			DK/DTR	0			DK/DTR	2		
Missing	6			Missing	6			Missing	6		
Total	1121	100		Total	1121	100		Total	1121	100	
Injectable	S			Sponge, sp	permicide			Other modern method			
Yes	523	41.6	2.1	Yes	0	0		Yes	0	0	
No	592	58.4	2.1	No	1115	100		No	1115	100	
DK/DTR	0			DK/DTR	0			DK/DTR	0		
Missing	6			Missing	6			Missing	6		
Total	1121	100		Total	1121	100		Total	1121	100	
Implants				Lactationa	l amenorri	hea metho	d	Other tra	ditional me	thod	
Yes	0	0		Yes	1	0.1	0.1	Yes	0	0	
No	1114	100		No	1113	99.9	0.1	No	1113	100	
DK/DTR	1			DK/DTR	1			DK/DTR	1		
Missing	6			Missing	6			Missing	7		
Total	1121	100		Total	1121	100		Total	1121	100	
Pill											
Yes	87	6.9	1.2								
No	1026	93.1	1.2								
DK/DTR	2										
Missing	6										
Total	1121	100									



Women considered "in need" of family planning methods are those who report the following characteristics: does not have sexual relations, virgin, menopausal, hysterectomy, pregnant, or wants to become pregnant. Table 5.2.1c shows the uptake of modern family planning methods among all women (67 percent), and among women considered "in need" of contraception (82 percent).

Table 5.2.1c Current use of modern family planning methods

Percentage of all currently married or partnered women age 15-49								
using modern methods of family planni	ng							
		Weighted	Weighted					
Characteristic	N	%	SE					
Among all women								
Yes	819	68.6	2.2					
No	296	31.4	2.2					
DK/DTR	0							
Missing	6							
Total	1121	100						
Among women in need of contraceptive	es							
Yes	809	81.6	1.8					
No	154	18.4	1.8					
DK/DTR	0							
Missing	0							
Total	963	100						

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 (both initially, and most recently, if applicable) are summarized in Tables 5.3.1a-d.

The public sector is the source most commonly reported by users of most modern family planning methods, including female sterilization and injectables. Pharmacies are important sources for the pill and male condoms.



Table 5.3.1a Source of family planning methods

		Weighted	Weighted			Weighted	Weighted
Source	N	%	SE	Source	N	%	SE
Female sterilization				IUD			
Public hospital	141	86.2	3.7	Public hospital	13	40.9	14.4
Public health unit	11	4.8	2	Public health unit	7	54.8	16.2
Public health center / clinic	7	3.7	1.8	Public health center / clinic	1	4.2	4.3
Public mobile clinic	0	0		Public mobile clinic	0	0	
Other public health facility	0	0		Other public health facility	0	0	
Private hospital	0	0		Private hospital	0	0	
Private health center / clinic	5	2.3	1	Private health center / clinic	0	0	
Private office	2	2.7	2.3	Private office	0	0	
Private mobile clinic	1	0.3	0.3	Private mobile clinic	0	0	
Other private health facility	0	0		Other private health facility	0	0	
Pharmacy	0	0		Pharmacy	0	0	
Community health worker	0	0		Community health worker	0	0	
Traditional healer	0	0		Traditional healer	0	0	
Store	0	0		Store	0	0	
Market	0	0		Market	0	0	
Church	0	0		Church	0	0	
Friend / relative	0	0		Friend / relative	0	0	
Other	0	0		Other	0	0	
DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0		
Total	167	100		Total	21	100	
Male sterilization				Injectables			
Public hospital	0	0	0	Public hospital	130	24.8	3.5
Public health unit	0	0		Public health unit	179	35.2	3.7
Public health center / clinic	0	0		Public health center / clinic	112	19.9	2.7
Public mobile clinic	0	0		Public mobile clinic	0	0	
Other public health facility	0	0		Other public health facility	2	0.2	0.2
Private hospital	0	0		Private hospital	1	0.2	0.2
Private health center / clinic	0	0		Private health center / clinic	5	1.1	0.8
Private office	0	0		Private office	3	0.9	0.6
Private mobile clinic	0	0		Private mobile clinic	1	0.1	0.1
Other private health facility	0	0		Other private health facility	1	0.1	0.1
Pharmacy	0	0		Pharmacy	48	11.2	2.7
Community health worker	0	0		Community health worker	34	5.2	1.4
Traditional healer	0	0		Traditional healer	0	0	1.4
Store	0	0		Store	1	0.2	0.2
Market	0	0		Market	0	0.2	0.2
Church	0	0		Church	0	0	
Friend / relative	0	0		Friend / relative	3		0.2
Other	0	0		Other	3	0.4	0.2
DK/DTR		U	U	DK/DTR	0	0.5	0.3
·	0	^			-		
Missing Total	0	0		Missing Total	0 523	100	



Table 5.3.1b Source of family planning methods

	currently	using sele	cted mod	ern methods of family planning	g, by locati	ion where	current
method was obtained							
Source	N	Weighted %	Weighted SE	Source	N	Weighted %	Weighted SE
Implants				Condom			
Public hospital	0	0	0	Public hospital	3	23	12.8
Public health unit	0	0	0	Public health unit	7	20.8	7.6
Public health center / clinic	0	0	0	Public health center / clinic	8	30	10.3
Public mobile clinic	0	0	0	Public mobile clinic	0	0	
Other public health facility	0	0	0	Other public health facility	0	0	
Private hospital	0	0	0	Private hospital	1	3.7	3.8
Private health center / clinic	0	0	0	Private health center / clinic	0	0	
Private office	0	0	0	Private office	0	0	
Private mobile clinic	0	0	0	Private mobile clinic	0	0	
Other private health facility	0	0	0	Other private health facility	0	0	
Pharmacy	0	0	0	Pharmacy	5	22.6	9.9
Community health worker	0	0	0	Community health worker	0	0	
Traditional healer	0	0	0	Traditional healer	0	0	
Store	0	0	0	Store	0	0	
Market	0	0	0	Market	0	0	
Church	0	0	0	Church	0	0	
Friend / relative	0	0	0	Friend / relative	0	0	
Other	0	0	0	Other	0	0	
DK/DTR	0			DK/DTR	0		
Missing	0	0		Missing	0		
Total	0	0		Total	24	100	
Pill				Female condom			
Public hospital	11	10.6	3.9	Public hospital	0	0	0
Public health unit	34	28.7	6.5	Public health unit	0	0	0
Public health center / clinic	18	16.6	4.6	Public health center / clinic	0	0	0
Public mobile clinic	0	0		Public mobile clinic	0	0	0
Other public health facility	1	0.7	0.7	Other public health facility	0	0	0
Private hospital	0	0		Private hospital	0	0	0
Private health center / clinic	1	1.4	1.4	Private health center / clinic	0	0	0
Private office	0	0		Private office	0	0	0
Private mobile clinic	0	0		Private mobile clinic	0	0	0
Other private health facility	0	0		Other private health facility	0	0	0
Pharmacy	17	37.8	10.1	Pharmacy	0	0	0
Community health worker	4	3.6	1.8	Community health worker	0	0	0
Traditional healer	0	0		Traditional healer	0	0	0
Store	0	0		Store	0	0	0
Market	0	0		Market	0	0	0
Church	0	0		Church	0	0	0
Friend / relative	0	0		Friend / relative	0	0	0
Other	1	0.6	0.6	Other	0	0	0
DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0	0	
Total	87	100		Total	0	0	



Table 5.3.1c Source of family planning methods

method was obtained		Weighted	Weighted			Weighted	Weighted
Source	N	%	SE	Source	N	%	SE
Diaphragm				Lactational amenorrhea metho	od		
Public hospital	0	0	0	Public hospital	1	100	
Public health unit	0	0	0	Public health unit	0	0	
Public health center / clinic	0	0	0	Public health center / clinic	0	0	
Public mobile clinic	0	0	0	Public mobile clinic	0	0	
Other public health facility	0	0	0	Other public health facility	0	0	
Private hospital	0	0	0	Private hospital	0	0	
Private health center / clinic	0	0	0	Private health center / clinic	0	0	
Private office	0	0	0	Private office	0	0	
Private mobile clinic	0	0	0	Private mobile clinic	0	0	
Other private health facility	0	0	0	Other private health facility	0	0	
Pharmacy	0	0	0	Pharmacy	0	0	
Community health worker	0	0	0	Community health worker	0	0	
Traditional healer	0	0	0	Traditional healer	0	0	
Store	0	0	0	Store	0	0	
Market	0	0	0	Market	0	0	
Church	0	0	0	Church	0	0	
Friend / relative	0	0	0	Friend / relative	0	0	
Other	0	0	0	Other	0	0	
DK/DTR	0			DK/DTR	0		
Missing	0	0		Missing	0		
Total	0	0		Total	1	100	
Sponge, spermicide				Rhythm method			
Public hospital	0	0	0	Public hospital	0	0	
Public health unit	0	0	0	Public health unit	0	0	
Public health center / clinic	0	0	0	Public health center / clinic	0	0	
Public mobile clinic	0	0	0	Public mobile clinic	0	0	
Other public health facility	0	0	0	Other public health facility	0	0	
Private hospital	0	0	0	Private hospital	0	0	
Private health center / clinic	0	0	0	Private health center / clinic	0	0	
Private office	0	0	0	Private office	0	0	
Private mobile clinic	0	0	0	Private mobile clinic	0	0	
Other private health facility	0	0	0	Other private health facility	0	0	
Pharmacy	0	0	0	Pharmacy	0	0	
Community health worker	0	0	0	Community health worker	0	0	
Traditional healer	0	0	0	Traditional healer	0	0	
Store	0	0		Store	0	0	
Market	0	0	0	Market	0	0	
Church	0	0	0	Church	1	25	37.5
Friend / relative	0	0		Friend / relative	2	75	37.5
Other	0	0	0	Other	0	0	
DK/DTR	0			DK/DTR	0		
Missing	0	0		Missing	0		
Total	0	0		Total	3	100	



Table 5.3.1d Source of family planning methods

method was obtained	· carrerrery	doing sere	eccu mou	ern methods of family planning	,, 27 10040	ion where	carrette
Source	N	Weighted %	Weighted SE	Source	N	Weighted %	Weighted SE
Withdrawal method				Other modern method			
Public hospital	0	0		Public hospital	0	0	0
Public health unit	1	34.6	34	Public health unit	0	0	0
Public health center / clinic	0	0		Public health center / clinic	0	0	0
Public mobile clinic	0	0		Public mobile clinic	0	0	0
Other public health facility	0	0		Other public health facility	0	0	0
Private hospital	0	0		Private hospital	0	0	0
Private health center / clinic	0	0		Private health center / clinic	0	0	0
Private office	1	35.8	34.5	Private office	0	0	0
Private mobile clinic	0	0		Private mobile clinic	0	0	0
Other private health facility	0	0		Other private health facility	0	0	0
Pharmacy	0	0		Pharmacy	0	0	0
Community health worker	0	0		Community health worker	0	0	0
Traditional healer	0	0		Traditional healer	0	0	0
Store	0	0		Store	0	0	0
Market	0	0		Market	0	0	0
Church	0	0		Church	0	0	0
Friend / relative	0	0		Friend / relative	0	0	0
Other	1	29.6	31.3	Other	0	0	0
DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0	0	
Total	3	100		Total	0	0	
Emergency contraception				Other traditional method			
Public hospital	0	0	0	Public hospital	0	0	0
Public health unit	0	0	0	Public health unit	0	0	0
Public health center / clinic	0	0	0	Public health center / clinic	0	0	0
Public mobile clinic	0	0	0	Public mobile clinic	0	0	0
Other public health facility	0	0	0	Other public health facility	0	0	0
Private hospital	0	0	0	Private hospital	0	0	0
Private health center / clinic	0	0	0	Private health center / clinic	0	0	0
Private office	0	0	0	Private office	0	0	0
Private mobile clinic	0	0	0	Private mobile clinic	0	0	0
Other private health facility	0	0	0	Other private health facility	0	0	0
Pharmacy	0	0	0	Pharmacy	0	0	0
Community health worker	0	0	0	Community health worker	0	0	0
Traditional healer	0	0	0	Traditional healer	0	0	0
Store	0	0	0	Store	0	0	0
Market	0	0	0	Market	0	0	0
Church	0	0	0	Church	0	0	0
Friend / relative	0	0	0	Friend / relative	0	0	0
Other	0	0	0	Other	0	0	0
DK/DTR	0			DK/DTR	0		
Missing	0	0		Missing	0	0	
Total	0	0		Total	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

The prevalence of interruption and non-use of family planning methods is summarized in Table 5.4.1. Of women participating in this survey, 83 percent are considered "in need" of contraception (i.e., they did not report any of the following: does not have sexual relations, virgin, menopausal, hysterectomy, pregnant, or wants to become pregnant). Among these women in need, 3 percent reported any interruption in the use of family planning methods in the previous year, and 18 percent reported not using any modern methods at the time of the interview.



Table 5.4.1 Interruption and non-use of family planning methods

Percentage of women with interruptions last		on, percent	tage not
using contraception, and percentage in need	of contraception		
Ch avanta viatia	A.	Weighted	_
Characteristic	N	%	SE
Currently in need of contraceptives	0.50	02.0	4.0
Yes 	963	82.8	1.9
No	152	17.2	1.9
DK/DTR	0		
Missing	6		
Total	1121	100	
Discontinuation rate: any interruption in use contraceptives	during the last year, among wo	men in ne	ed of
Yes	32	3.4	0.8
No	931	96.6	0.8
DK/DTR	0		
Missing	0		
Total	963	100	
Number of interruptions in use during the las	st year, among women in need	of contrac	eptives
0	931	96.6	0.8
1	32	3.4	0.8
2-6	0	0	
7-12	0	0	
13 or more	0	0	
DK/DTR	0		
Missing	0		
Total	963	100	
Not currently using any modern method			
Yes	296	31.4	2.2
No	819	68.6	2.2
DK/DTR	0		
Missing	6		
Total	1121	100	
Unmet need: Not currently using any moderr		eed" of	
contraceptives			
Yes	154		1.8
No	809	81.6	1.8
DK/DTR	0		
Missing	0		
Total	963	100	



5.4.2 Reasons

Women who interrupted use of family planning methods in the year preceding the interview, and those who indicated they were not using any methods on the day of the interview were asked to identify reasons for interruption and/or non-use from a list of 30 different options (Tables 5.4.2a-b). The most commonly cited reasons for non-use at the time of the interview where: method affects respondent's health (27 percent), and the respondent wanted to become pregnant (22 percent).



Table 5.4.2a Reasons for interruption and non-use of family planning methods

Percent distribution of	f women who are			ning methods by reaso	on for non-use		
Reason	N	Weighted %	Weighted SE	Reason	N	Weighted %	Weighter SE
Unmarried			-	Did not have a menstr	rual period since la	st birth	-
Yes	7	2.1	0.9	Yes	5	1.6	0.
No	238	97.9	0.9	No	240	98.4	0.
DK/DTR	2			DK/DTR	2		
Missing	40			Missing	40		
Total	287	100		Total	287	100	
Married				Was breastfeeding			
Yes	1	0.4	0.4	Yes	10	2.4	0.
No	244	99.6		No	235		0.
DK/DTR	2			DK/DTR	2		
Missing	40			Missing	40		
Total	287	100		Total	287		
Does not have sexual r		100		Goes against religion	207	100	
Yes	20	7.4	າ	Yes	4	5.4	2.
No	225	92.6		No	241	94.6	2.
DK/DTR	223	92.0		DK/DTR	241		۷.
	40			•	40		
Missing Total		100		Missing Total	287		
	287	100				100	
Virgin	4	0.2	0.2	Respondent is oppose		4.0	0
Yes	1	0.2		Yes	8		0.
No	244	99.8	0.2	No	237	98.1	0.
DK/DTR	2			DK/DTR	2		
Missing	40			Missing	40		
Total	287	100		Total	287	100	
Has sexual relations in				Husband / partner is o			
Yes	11	5.7		Yes	6		0.
No	234	94.3	2.4	No	239		0.
DK/DTR	2			DK/DTR	2		
Missing	40			Missing	40		
Total	287	100		Total	287	100	
Menopausal				Others are opposed to	o use		
Yes	12	3.9	1.6	Yes	0	0	
No	233	96.1	1.6	No	245	100	
DK/DTR	2			DK/DTR	2		
Missing	40			Missing	40		
Total	287	100		Total	287	100	
Hysterectomy/surgery	on the uterus			Knows no method			
Yes	3	0.8	0.5	Yes	2	0.8	0.
No	242	99.2		No	243		0.
DK/DTR	2			DK/DTR	2		
Missing	40			Missing	40		
Total	287	100		Total	287		
Cannot become pregna		100		Knows no source for g		100	
Yes	14	8.5	2	Yes	0	0	
No	231	91.5		No	245		
DK/DTR	251	31.3		DK/DTR	243		
	40			Missing	40		
Missing Total	287	100		Total	287		



Table 5.4.2b Reasons for interruption and non-use of family planning methods

Percent distribution of wome	n who are			ning methods by reason t	for non-use				
Reason	N	Weighted %	Weighted SE	Reason	N	Weighted %	Weighted SE		
Concerned about side effects		70	JL	No trust in health facility		70	JL		
Yes	9	2.3	1	Yes	0	0			
No	236	97.7		No	245	100			
DK/DTR	2	37.7		DK/DTR	2 .3	100			
Missing	40			Missing	40				
Total	287	100		Total	287	100			
Facility is too far	20,	100		Uncomfortable to use	207	100			
Yes	1	0.2	0.2	Yes	1	0.2	0.2		
No	244	99.8		No	244	99.8	0.2		
DK/DTR	2	33.0	0.2	DK/DTR	2	33.0	0.2		
Missing	40			Missing	40				
Total	287	100		Total	287	100			
Could not find transportation				Interferes with normal b		100			
Yes	0	0		Yes	17	5.4	1.5		
No	245	100		No	228	94.6	1.5		
DK/DTR	2.3	100		DK/DTR	2	3 1.0			
Missing	40			Missing	40				
Total	287	100		Total	287	100			
Could not afford transportation		100		Affects health / does not like them					
Yes	3	0.9	0.5	Yes	59	27	4.6		
No	242	99.1		No	186	73	4.6		
DK/DTR	2	33.1	0.5	DK/DTR	2	/3	7.0		
Missing	40			Missing	40				
Total	287	100		Total	287	100			
Costs too much	207	100		Was pregnant	207	100			
Yes	2	0.6	0.6	Yes	15	6.7	2.3		
No	243	99.4		No	230	93.3	2.3		
DK/DTR	2-13	33.4	0.0	DK/DTR	2	55.5	2		
Missing	40			Missing	40				
Total	287	100		Total	287	100			
Preferred method is not avail		100		Wanted to become pregi		100			
Yes	1	0.4	0.4	Yes	41	22.4	4		
No	244	99.6		No	204	77.6			
DK/DTR	244		0.4	DK/DTR	204		-		
Missing	40			Missing	40				
Total	287			Total	287	100			
No method is available	207	100		Other	267	100			
Yes	0	0		Yes	25	7.7	1.9		
No No	245			No	220	92.3	1.9		
DK/DTR	243			DK/DTR	220		1.5		
Missing	40			Missing	40				
Total	287	100		Total	287	100			
Health facility has staff that a				Total	207	100			
Yes	e nard to t		0.4						
No	243		0.4						
DK/DTR	243	99.5	0.4						
	40								
Missing	287								



5.5 Family Planning Intentions and Decision-Making

5.5.1 Participation in family planning decision

In this setting, most women (74 percent) report that decisions about family planning methods are jointly made by the respondent and her partner. In a minority of cases (6 percent), the decision to use family planning methods is up to the respondent's partner.

Table 5.5.1 Participation in family planning decision-making

Percent distribution of women currently using family planning methods							
according to who makes the decision to use family planning							
Weighted Weighte							
Characteristic	N	%	SE				
Who makes the decision to use family planning methods?							
Mostly the respondent	143	19.4	2.2				
Mostly the husband / partner	59	6	1				
Joint decision	619	74.2	2.2				
Other	3	0.3	0.2				
DK/DTR/NA	1						
Missing	0						
Total	825	100					



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 5.5.2a shows the percent of women currently using family planning methods who were told about other options for contraception (65 percent).

Table 5.5.2a Family planning decision-making - informed choice

Percentage of all women currently using family planning methods to whom a health						
care worker described other methods that can be used						
		Weighted	Weighted			
Characteristic	N	%	SE			
Did a doctor, nurse, or community health worker ever tell you about other methods						
of family planning that you could use?						
Yes	530	65	3.2			
No	294	35	3.2			
DK/DTR	1					
Missing	0					
Total	825	100				

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 5.6.1). Approximately one-third of women reported being advised about family planning at the health care facility they attend during the past 12 months. Eight percent of respondents indicated that they had been visited by a health promoter who provided information about family planning in the last 12 months. Six percent 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 5.6.1 Family planning messages delivered by health care providers

Percentage of married or partnered women exposed to family planning messages							
delivered by health care providers at a health care facility or at home, ever and in							
the last 12 months	the last 12 months						
Weighted Weight							
Characteristic	N		SE				
In the last 12 months, did any staff member at a health	h facility sp	eak to you	about				
family planning methods?							
Yes	417	35.9	2.6				
No	698	64.1	2.6				
DK/DTR	0						
Missing	6						
Total	1121	100					
In the last 12 months, did a health promoter visit you	to speak to	you about	family				
planning methods?							
Yes	99	7.5	1				
No	1011	92.5	1				
DK/DTR	5						
Missing	6						
Total	1121	100					
Among respondents who had not visited a health facil	lity seekinį	g care for					
themselves or their children in the last 12 months:							
In the last 12 months, did a health promoter visit you	to speak to	you about	family				
planning methods?							
Yes	23	5.7	1.7				
No	340	94.3	1.7				
DK/DTR	0						
Missing	0						
Total	363	100					



CHAPTER 6: MATERNAL HEALTH CARE

This chapter summarizes key indicators pertaining to antenatal care, delivery care, and postpartum care for the most recent birth in the last two years as reported by women of reproductive age (15-49 years) participating in the SM2015-Nicaragua Baseline Household Survey.

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 very important in assessing the physical status of women during pregnancy. These visits 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 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 6.1.1a. The antenatal care received from specific antenatal care providers is detailed in Table 6.1.1b and the type of facility where antenatal care was sought is detailed in Table 6.1.1c.

Among women with a child under the age of two, 97 percent attended at least one antenatal care visit and 96 percent with a doctor or professional nurse. However, less than half of women had an antenatal care visit during the first trimester (first 12 weeks) with a doctor or professional nurse.

As can be seen in Table 6.1.1b, 64 percent of women with a birth in the last two years attended at least one antenatal care visit with a medical doctor for the most recent birth. No women reported visits with a midwife.

Regarding the type of facility where antenatal care was sought (Table 6.1.1c), most women who attended antenatal care for their most recent delivery in the last two years sought care in a public health unit (38 percent), public health center/clinic (29 percent), or public hospital (27 percent). Only 5 percent of women sought antenatal care in a private facility.



Table 6.1.1a Antenatal care coverage for the most recent birth in the last two years

Table 6.1.1a Antenatal care coverage for the most recent bir			ast one			
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 among those who received any						
antenatal care, percent distribution by timing of care	ing those v	viio receive	eu arry			
Weighted Weighted						
Characteristic	N	%	SE			
Attended at least one antenatal care visit	-					
Yes	632	97	0.8			
No	22	3	0.8			
DK/DTR	0					
Missing	21					
Total	675	100				
Attended at least one antenatal care visit with doctor	or profess	ional nurse	j			
Yes	625	96.1	0.8			
No	29	3.9	0.8			
DK/DTR	0					
Missing	21					
Total	675	100				
First trimester (first 12 weeks) antenatal care visit wit	h doctor o	professio	nal nurse			
Yes	278	44.1	2.7			
No	373	55.9	2.7			
DK/DTR	0					
Missing	24					
Total	675	100				
Month of gestation of first ANC visit, among women w	ho receive	ed any ante	enatal			
care						
1	132	21.9	2.8			
2	151	24.1	1.8			

2	151	24.1	1.8
3	145	21.8	2.1
4	98	15.6	1.9
5	51	7.6	1.2
6	31	5.1	1.1
7	16	2.6	0.6
8	7	1.4	0.5
9	0	0	
DK/DTR	1		
Missing	0		
Total	632	100	



Table 6.1.1b Antenatal care coverage for the most recent birth in the last two years

Table 6.1.1b Percentage discare visit for the	stribution o	f attendan						o years who att	tended at le	ast one an	tenatal
Attendant	N	Weighted %	Weighted SE	Attendant	N	Weighted %	Weighted SE	Attendant	N	Weighted %	Weighted SE
			Midwife / Cor		,,	<u> </u>	Relative	.,	,,	<u> </u>	
0 visits	230	36	3 5	0 visits	632	100		0 visits	632	100	
1 visit	86			1 visit	0	0		1 visit	0		
2 visits	47			2 visits	0	0		2 visits	0		
3 visits	41			3 visits	0	0		3 visits	0		
4 visits	41			4 visits	0	0		4 visits	0		
5 visits	47			5 visits	0	0		5 visits	0		
6 visits	48			6 visits	0	0		6 visits	0		
7 visits	39			7 visits	0	0		7 visits	0		
8 visits	53			8 visits	0	0		8 visits	0		
Missing	0		1.3	Missing	0	U		Missing	0		
Total	632			Total	632	100		Total	632		
		100						Other	032	100	
Professional n	urse 258	40.8	2.7	Community h		100		0 visits	622	100	
0 visits	32				632				632		
1 visit				1 visit	0	0		1 visit	0		
2 visits	28			2 visits	0	0		2 visits	0		
3 visits	41			3 visits	0	0		3 visits	0		
4 visits	61			4 visits	0	0		4 visits	0		
5 visits	61			5 visits	0	0		5 visits	0		
6 visits	55			6 visits	0	0		6 visits	0		
7 visits	57			7 visits	0	0		7 visits	0	-	
8 visits	39		1.3	8 visits	0	0		8 visits	0	-	
Missing	0			Missing	0			Missing	0		
Total	632	100		Total	632	100		Total	632	100	
Auxiliary nurse				Pharmacy assistant				Didn't know attendant or declined to respond			
0 visits	605			0 visits	632	100		0 visits	631	99.9	0.1
1 visit	11			1 visit	0	0		1 visit	1		0.1
2 visits	4			2 visits	0	0		2 visits	0		
3 visits	1			3 visits	0	0		3 visits	0		
4 visits	5	0.8		4 visits	0	0		4 visits	0	0	
5 visits	1			5 visits	0	0		5 visits	0	0	
6 visits	3	0.4	0.2	6 visits	0	0		6 visits	0	0	
7 visits	0	0		7 visits	0	0		7 visits	0	0	
8 visits	2	0.3	0.2	8 visits	0	0		8 visits	0	0	
Missing	0			Missing	0			Missing	0		
Total	632	100		Total	632	100		Total	632	100	
Laboratory tec	hnician			Traditional he	aler						
0 visits	631	99.8	0.2	0 visits	632	100					
1 visit	1	0.2	0.2	1 visit	0	0					
2 visits	0	0		2 visits	0	0					
3 visits	0	0		3 visits	0	0					
4 visits	0	0		4 visits	0	0					
5 visits	0	0		5 visits	0	0					
6 visits	0	0		6 visits	0	0					
7 visits	0	0		7 visits	0	0					
8 visits	0			8 visits	0						
Missing	0			Missing	0						
Total	632	100		Total	632	100					



Table 6.1.1c Antenatal care coverage for the most recent birth in the last two years

Percentage distribution of usual location of antenatal care for women with a birth in the last two years who attended at least one antenatal care visit for the most recent birth

		Weighted	Weighted
Location	N	%	SE
Usual location for antenatal care visits			
Public hospital	159	27.1	4.7
Public health unit	248	38.3	4.1
Public health center / clinic	184	28.6	3.7
Public mobile clinic	1	0.1	0.1
Other public health facility	3	0.3	0.2
Private hospital	3	0.5	0.3
Private health center / clinic	14	2.6	0.9
Private office	16	1.9	0.6
Private mobile clinic	1	0.1	0.1
Other private health facility	0	0	
Pharmacy	0	0	
Community health worker	0	0	
Traditional healer	1	0.2	0.2
Other	2	0.3	0.2
DK/DTR	0		
Missing	0		
Total	632	100	

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 to delivery. Under normal circumstances, the World Health Organization recommends that pregnant women have at least four antenatal care visits to provide sufficient care. The frequency of antenatal care visits are summarized in Table 6.1.2. The table also includes the percentage of women with four or more visits with at least one with a professional and according to best practices.

More than three-quarters of women reported having four or more antenatal care visits during their most recent pregnancy in the last two years. Over one-third 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. Approximately 41 percent of all women had four or more antenatal care visits, including at least one visit with a doctor or professional nurse, and with each of ten defined best practices performed at least once during pregnancy (i.e., measurement of blood type, test for anemia, test for syphilis, test for HIV, test for proteinuria, measurement of maternal blood pressure, measurement of maternal weight, measurement of fundal height, measurement of fetal heartbeat).



Table 6.1.2 Frequency of antenatal care visits

Percent distribution of women with a birth in the last two years by number of					
antenatal care visits for the most recent birth and percentage of women with four or					
more visits with at least one with a professional	Ŭ				
·		Weighted	Weighted		
Characteristic	N	%	SE		
Number of antenatal care visits					
None	22	3	0.8		
1-3 visits	90	13.8	1.2		
4-6 visits	303	45.3	2.3		
7-9 visits	238	37.7	2.4		
10+ visits	1	0.1	0.1		
DK/DTR	0				
Missing	21				
Total	675	100			
Attended at least four antenatal care visits					
Yes	542	83.2	1.5		
No	112	16.8	1.5		
DK/DTR	0				
Missing	21				
Total	675	100			
Attended at least four antenatal care visits with doctor or professional nurse					
Yes	528	81.4	1.5		

Attended at least four antenatal care visits with doctor or professional nurse according to best practices (measuring blood type, anemia, syphilis, HIV, proteinuria, blood pressure, weight, fundual height, fetal heartbeat)

Yes	255	40.8	2.7
No	399	59.2	2.7
DK/DTR	0		
Missing	21		
Total	675	100	

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 6.1.3a and Table 6.1.3b). 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.

No

DK/DTR

Missing

Total

126

0

21

675

18.6

100

1.5



There was variation in performance of the nine "best practice" procedures: measurement of blood type (79 percent), test for anemia (83 percent), test for syphilis (62 percent), test for HIV (75 percent), test for proteinuria (79 percent), measurement of maternal blood pressure (99 percent), measurement of maternal weight (99 percent), measurement of fundal height (95 percent), and measurement of fetal heartbeat (95 percent).

Most women had a blood specimen (91 percent) or a urine specimen (93 percent) collected during their antenatal care visits for the most recent birth during the past two years. Half of women recall being tested for diabetes.

Table 6.1.3a Content of antenatal care visits - best practices

Percentage dist	ribution of	content d	uring anter	natal visit among	women w	ith a birth	in the last		
two years with a	at least one	antenatal	care visit						
_		Weighted	_	_		Weighted	-		
Procedure	N	%	SE	Procedure	N	%	SE		
Measured blood	type			Tested for proteinuria					
Yes	492	79.2	2.4	Yes	478	79.4	2.4		
No	129	20.8	2.4	No	129	20.6	2.4		
DK/DTR	11			DK/DTR	25				
Missing	0			Missing	0				
Total	632	100		Total	632	100			
Tested for anem	nia			Measured mate	rnal blood	pressure			
Yes	516	83.2	2.2	Yes	622	98.7	0.4		
No	100	16.8	2.2	No	9	1.3	0.4		
DK/DTR	16			DK/DTR	1				
Missing	0			Missing	0				
Total	632	100		Total	632	100			
Tested for syphi	llis			Measured materal weight					
Yes	368	61.8	3.4	Yes	625	99	0.4		
No	242	38.2	3.4	No	7	1	0.4		
DK/DTR	22			DK/DTR	0				
Missing	0			Missing	0				
Total	632	100		Total	632	100			
Tested for HIV				Measured fundal height					
Yes	467	75.1	2.6	Yes	598	94.7	1.1		
No	161	24.9	2.6	No	32	5.3	1.1		
DK/DTR	4			DK/DTR	2				
Missing	0			Missing	0				
Total	632	100		Total	632	100			
				Measured fetal	heartbeat				
				Yes	598	95.3	1		
				No	34	4.7	1		
				DK/DTR	0				
				Missing	0				
				Total	632	100			



Table 6.1.3b Content of antenatal care visits - other services provided

Percentage dist	Percentage distribution of content during antenatal visit among women with a birth in the last								
two years with a	at least one	antenatal	care visit						
		Weighted	Weighted			Weighted	Weighted		
Procedure	N	%	SE	Procedure	N	%	SE		
Collected blood specimen				Tested for diabe	tes				
Yes	582	90.7	1.9	Yes	309	51.2	2.6		
No	50	9.3	1.9	No	304	48.8	2.6		
DK/DTR	0			DK/DTR	19				
Missing	0			Missing	0				
Total	632	100		Total	632	100			
Collected urine	specimen			Performed an ultrasound					
Yes	585	93.1	1.3	Yes	520	82	1.6		
No	47	6.9	1.3	No	112	18	1.6		
DK/DTR	0			DK/DTR	0				
Missing	0			Missing	0				
Total	632	100		Total	632	100			
Measured blood	glucose								
Yes	407	73.5	2.2						
No	156	26.5	2.2						
DK/DTR	19								
Missing	50								
Total	632	100							

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.

Among women with prenatal care for a birth in the last two years, the percentage of women with prenatal care for a birth in the last two years who received a tetanus vaccinations during pregnancy and the percent distribution by number of vaccinations received and by time since last tetanus vaccination are included in Table 6.1.4.

As shown in table 6.1.4, the coverage of tetanus toxoid vaccinations during pregnancy was 90 percent among women who received antenatal care. Two-thirds of women had received one vaccination and 21 percent had received two. Among women with prenatal care, 56 percent have never been vaccinated before and 38 percent had received a vaccine in the last 10 years. Among women who were not vaccinated during prenatal care visits, approximately half had never been vaccinated.



Table 6.1.4 Coverage of tetanus toxoid vaccinations during pregnancy

Among women with prenatal care for a birth in the las	st two year	s, percenta	age who
received a tetanus vaccinations during pregnancy and	percent di	stribution	by
number of vaccinations received and by time since las	st tetanus v	vaccination	
Characteristic	N	Weighted %	Weighted SE
Received tetanus injection during pregnancy			
Yes	577	90.2	1.5
No	75	9.8	1.5
DK/DTR	2		
Missing	21		
Total	675	100	
Number of tetanus vaccinations during pregnancy			
None	82	11.1	1.7
1	423	65.5	2.3
2	114	20.6	2.5
3	15	2.4	0.6
4	2	0.2	0.1
5	1	0.2	0.2
DK/DTR	17		
Missing	21		
Total	675	100	
Time since last tetanus vaccination			
Never vaccinated	261	55.8	3
<10 years ago	188	38.3	3
≥10 years ago	28	5.9	1.4
DK/DTR	177		
Missing	21		
Total	675	100	
Time since last tetanus vaccination, among women w	ho were no	t vaccinate	ed during
pregnancy			
Never vaccinated	30	51.7	8.2
<10 years ago	24	45.7	8.5
≥10 years ago	1	2.6	2.5
DK/DTR	20		
Missing	0		
Total	75	100	



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 6.1.5).

Table 6.1.5 shows that 79 percent of women were offered an HIV test. At least eighty percent of women were exposed to the following messages: counseled about pregnancy (94 percent); told about signs to watch out for what could indicate a problem with the pregnancy (93 percent); counseled about nutrition during pregnancy (89 percent); advised to deliver in a facility (88 percent); given information about in-facility delivery (88 percent); given information about the proper ways to breastfeed (86 percent); counseled about contraception after delivery (85 percent); counseled about child care (80 percent).

Thirty-nine percent of women were advised to have a Caesarian section. Less than one-quarter of women were counseled about making a transportation plan for the delivery.



Table 6.1.5 Exposure to safe pregnancy messages

pregnancy messages		atai care ic	n a Dirtirii	the last two years, p	rercentage exp	oseu to spe	ecific sale		
pregnancy messages		Weighted	Weighted			Weighted	Weighted		
Characteristic	N	%	SE	Characteristic	N	%	SE		
Counseled about pre	egnancy			Advised to have a Caesarean section					
Yes	593	94.3	1	Yes	236	39	3.2		
No	39	5.7	1	No	396	61	3.2		
DK/DTR	0			DK/DTR	0				
Missing	0			Missing	0				
Total	632	100		Total	632	100			
Told about signs to v	vatch out for th	at could in	dicate a	Counseled about ma	aking a transpo	rtation pla	n for the		
problem with the pr	egnancy			delivery					
Yes	587	92.5	1.4	Yes	138	22.7	2.3		
No	45	7.5	1.4	No	494	77.3	2.3		
DK/DTR	0			DK/DTR	0				
Missing	0			Missing	0				
Total	632	100		Total	632	100			
Offered an HIV test				Counseled about co	ntraception aft	er delivery	,		
Yes	492	78.9	2.9	Yes	532	84.5	2.1		
No	136	21.1	2.9	No	100	15.5	2.1		
DK/DTR	4			DK/DTR	0				
Missing	0			Missing	0				
Total	632	100		Total	632	100			
Counseled about nu	trition during p	regnancy		Counseled about chi	ild care				
Yes	554	88.9	1.3	Yes	496	80.1	2.6		
No	76	11.1	1.3	No	136	19.9	2.6		
DK/DTR	2			DK/DTR	0				
Missing	0			Missing	0				
Total	632	100		Total	632	100			
Given information al	bout in-facility	delivery		Given information a	bout proper wa	ays to brea	st feed		
Yes	543	87.6	1.7	Yes	544	86.3	2.1		
No	87	12.4	1.7	No	85	13.7	2.1		
DK/DTR	2			DK/DTR	3				
Missing	0			Missing	0				
Total	632	100		Total	632	100			
Advised to delivery i	in a facility								
Yes	551	88.4	1.7						
No	81	11.6							
DK/DTR	0								
Missing	0								
Total	632	100							



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 children born 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 6.2.1. The majority of births occurred in public hospitals (76 percent). Ten percent of women reported giving at home. Deliveries in private sector facilities were rare (less than 5 percent). Among women who delivered in a facility, 45 percent indicated that they used a public vehicle for transport.



Table 6.2.1 Place of delivery

Percent distribution of women with a birth in the last two years by location of most recent birth and percent distribution of women with in-facility deliveries by means of transportation used to get to the facility for delivery

delivery							
			Weighted			Weighted	Weighted
Characteristic	N	%	SE	transportation	N	%	SE
Delivery location for most red	cent birth			On foot			
Respondent's house	66	10.5	2.2	Yes	78	15.2	2.7
Another person's house	5	0.7	0.3	No	501	84.8	2.7
Public hospital	486	76	3.1	DK/DTR	1		
Public health center / clinic	72	8.9	1.7	Missing	0		
Public medical ward	0	0		Total	580	100	
Other public health facility	7	0.7	0.3	Private vehicle			
Private hospital	5	0.6	0.3	Yes	130	22	2.1
Private health center / clinic	10	2	0.7	No	449	78	2.1
Private medical ward	0	0		DK/DTR	1		
Other private health facility	0	0		Missing	0		
Other	3	0.7	0.4	Total	580	100	
DK/DTR	0			Ambulance			
Missing	20			Yes	133	20.6	2.5
Total	674	100		No	446	79.4	2.5
In-hospital delivery				DK/DTR	1		
Yes	491	76.6	3.1	Missing	0		
No	163	23.4	3.1	Total	580	100	
DK/DTR	0			Other public vehicle	e		
Missing	20			Yes	254	45.3	3.2
Total	674	100		No	325	54.7	3.2
In-facility delivery				DK/DTR	1		
Yes	580	88.2	2.4	Missing	0		
No	74	11.8	2.4	Total	580	100	
DK/DTR	0						
Missing	20						
Total	674	100					



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 (99 percent of all births), the percentage by type of delivery attendant is detailed in Table 6.2.2a. 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 6.2.2a, most in-facility deliveries were accompanied by a doctor (86 percent) or professional nurse (79 percent). Fewer deliveries were attended by an auxiliary nurse (18 percent) or midwife (7 percent). For 10 percent of the deliveries a relative was an attendant.

Eighteen percent of women delivered with one attendant, 63 percent with two attendants, and 19 percent with three or more attendants (Table 6.2.2b). For women's most recent live birth in the past two years, 87 percent of deliveries had a skilled attendant present and 76 percent delivered with a skilled attendant in a health facility (Table 6.2.2c).



Table 6.2.2a Assistance at delivery: type of attendants

For women's mo	st recent b	irth in the	past two y	ears, percentage	by type of	delivery a	ttendants		
		Weighted	Weighted			Weighted	_		
Characteristic	N	%	SE	Characteristic	N	%	SE		
Medical doctor				Community health worker					
Yes	561	85.6	2.3	Yes	1	0.2	0.2		
No	93	14.4	2.3	No	652	99.8	0.2		
DK/DTR	0			DK/DTR	1				
Missing	22			Missing	22				
Total	676	100		Total	676	100			
Professional nur	se			Pharmacist					
Yes	526	79.4	2.2	Yes	3	0.7	0.4		
No	128	20.6	2.2	No	650	99.3	0.4		
DK/DTR	0			DK/DTR	1				
Missing	22			Missing	22				
Total	676	100		Total	676	100			
Auxiliary nurse				Traditional healer					
Yes	112	18.4	2.3	Yes	1	0.2	0.2		
No	539	81.6	2.3	No	651	99.8	0.2		
DK/DTR	3			DK/DTR	2				
Missing	22			Missing	22				
Total	676	100		Total	676	100			
Laboratory techr	nician			Relative					
Yes	11	2	0.6	Yes	66	10.4	1.4		
No	627	98	0.6	No	586	89.6	1.4		
DK/DTR	16			DK/DTR	2				
Missing	22			Missing	22				
Total	676	100		Total	676	100			
Midwife / Coma	drona			Other					
Yes	49	7.2	1.7	Yes	5	2.1	1.2		
No	595	92.8	1.7	No	646	97.9	1.2		
DK/DTR	10			DK/DTR	3				
Missing	22			Missing	22				
Total	676	100		Total	676	100			



Table 6.2.2b Assistance at delivery: number of attendants

For women's most recent live birth in the past two years, the number of attendants									
during delivery and the presence of skilled attendants									
		Weighted	Weighted						
Characteristic	N	%	SE						
Delivered alone									
Yes	3	0.8	0.5						
No	651	99.2	0.5						
DK/DTR	0								
Missing	21								
Total	675	100							
Number of categories of personnel in attendance at delivery									
None	3	0.8	0.5						
One	112	17.5	2.1						
Two	426	62.8	2.7						
Three	87	14.4	1.9						
Four or more	26	4.4	0.9						
DK/DTR	0								
Missing	21								
Total	675	100							
Delivery with a skilled birth attendant									
Yes	582	88.3	2.3						
No	72	11.7	2.3						
DK/DTR	0								
Missing	21								
Total	675	100							



Table 6.2.2c Assistance at delivery: in-facility delivery with skilled birth attendant

For women's most recent live birth in the past two years, the presence of skilled									
attendants at delivery in a health facility or hospital									
Characteristic Weighted Weighted N % SE									
In-facility delivery with a skilled birth attendant									
Yes	577	87.3	2.4						
No	77	12.7	2.4						
DK/DTR	0								
Missing	21								
Total	675	100							
In-hospital delivery with a skilled birth attendant									
Yes	488	75.8	3						
No	166	24.2	3						
DK/DTR	0								
Missing	21								
Total	675	100							

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 are detailed in Table 6.2.3. The table also includes the percentage of women with specific complications and the percentage of women with an in-facility delivery for whom the delivery at the facility was planned.

As previously described, most births occurred in institutional settings. In 62 percent of these cases, women indicated that they attended the facility for emergency care. Few women reported seizures prior to delivery (3 percent). Approximately 6 percent of infants were transferred to an intensive care unit after delivery, and 16 percent of women reported excessive bleeding after delivery (more than 1 cup over a 2 day period of time).



Table 6.2.3 Mode of delivery and complications

For women's most recent live birth in the past two	years, the mo	de of deli	very and
complications during delivery			,
		Weighted	Weighted
Characteristic	N	%	SE
Mode of delivery			
Vaginal	540	82.3	1.9
Planned Caesarean section	35	5.6	0.9
Emergency Caesarean section	79	12.1	1.8
DK/DTR	0		
Missing	21		
Total	675	100	
Reason for attending a health facility for delivery, a	mong in-faci	lity births	
Planned	228	38	2.4
Emergency	351	61.8	2.4
Other	1	0.2	0.2
DK/DTR	0		
Missing	0		
Total	580	100	
Respondent had seizures prior to delivery			
Yes	19	2.8	0.6
No	633	97.2	0.6
DK/DTR	2		
Missing	21		
Total	675	100	
Child entered neonatal intensive care unit after del	ivery		
Yes	43	5.8	1
No	610	94.2	1
DK/DTR	1		
Missing	21		
Total	675	100	
Respondent had excessive bleeding in the first day	following the	e delivery	
Yes	116	16.4	1.8
No	538		
DK/DTR	0		
Missing	21		
Total	675	100	



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 6.2.4).

Most women perceived their infant to be average in size (84 percent). Most newborns (90 percent) were weighed at birth. Among those who were weighed, 12 percent were classified as low birth weight (<2.5 kilograms).

Table 6.2.4 Birth size and weight

For women's most recent live birth in the past two years, the size and weight of the									
child at birth									
		Weighted	Weighted						
Characteristic	N	%	SE						
Mother's estimate of the size of the child at birth									
Very large	10	1.6	0.6						
Larger than average	44	7.1	1.2						
Average	545	83.5	2						
Smaller than average	38	6.8	1.8						
Very small	6	0.9	0.4						
DK/DTR	11								
Missing	22								
Total	676	100							
Child's weight was measured at birth									
Yes	575	90	2						
No	68	10	2						
DK/DTR	11								
Missing	22								
Total	676	100							
Child's birth weight, among those who were weighed									
<2.5 kg (low birth weight)	60	12	2.1						
≥2.5 kg	482	88	2.1						
DK/DTR	28								
Missing	5								
Total	575	100							



6.3 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 (6 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.

6.3.1 Postnatal Checkup for the Mother

Data on postnatal care for the mother are summarized in Table 6.3.1a and Table 6.3.1b. Table 6.3.1a 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.

About two-thirds of women recalled being checked after delivery, and 58 percent reported being checked one week after delivery by a health care provider. Only 25 percent of women with an institutional birth recalled being checked every 15 minutes for the first hour post-partum.

Table 6.3.1b shows the percent distribution of women who were checked at any time after delivery by type of personnel. Among women with postnatal care visits, most received care from a medical doctor (82 percent) or professional nurse (19 percent).



Table 6.3.1a Postnatal checkup for the mother

For women's most recent live birth in the past two years, postpartum care received									
by the respondent									
		Weighted	Weighted						
Characteristic	N	%	SE						
Respondent was checked after delivery									
Yes	426	62.9	3						
No	228	37.1	3						
DK/DTR	0								
Missing	22								
Total	676	100							
Respondent was checked every 15 minutes during	the first hour	after deliv	ery while						
still at health facility, among in-facility births									
Yes	149	25.2	2.2						
No	431	74.8	2.2						
DK/DTR	0								
Missing	0								
Total	580	100							
Respondent was checked within one week after d	elivery by a he	alth provid	der						
Yes	394	57.8	2.9						
No	260	42.2	2.9						
DK/DTR	0								
Missing	22								
Total	676	100							



Table 6.3.1b Postnatal checkup for the mother: providers

Percentage discare visit for ti	stribution o	f attendan				a birth in t	he last two	years who att	ended at le	ast one po	stnatal
Attendant	N		Weighted SE	Attendant	N	Weighted %	Weighted SE	Attendant	N	Weighted %	Weighted SE
Medical docto		,	<u> </u>	Midwife / Cor		7-	, , , ,	Relative			<u> </u>
0 visits	76	18.1	1 9	0 visits	424	99.6	0.3	0 visits	426	100	
1 visit	239			1 visit	2			1 visit	0	0	
2 visits	85			2 visits	0	0.1		2 visits	0	0	
3 visits	21			3 visits	0			3 visits	0	0	
4 visits	3			4 visits	0			4 visits	0	0	
5 visits	1			5 visits	0			5 visits	0	0	
6 visits	0			6 visits	0			6 visits	0	0	
7 visits	0			7 visits	0			7 visits	0	0	
8 visits	1			8 visits	0	0		8 visits	0	0	
Missing	0		0.2	Missing	0			Missing	0	U	
Total	426			Total	426	100		Total	426	100	
Professional n		100		Community he				Other	420	100	
0 visits	345	81	2.1	0 visits	426	100		0 visits	426	100	
1 visits	57			1 visits	0	0		1 visits	0	0	
2 visits	19			2 visits	0			2 visits	0	0	
3 visits	3			3 visits	0			3 visits	0	0	
4 visits	0			4 visits	0			4 visits	0	0	
5 visits	0			5 visits	0			5 visits	0	0	
6 visits	1			6 visits	0			6 visits	0	0	
7 visits	0			7 visits	0			7 visits	0	0	
	1			8 visits	0			8 visits	0	0	
8 visits	0		0.2		0				0	U	
Missing				Missing				Missing Total	-	100	
Total	426	100		Total	426	100			426	100	
Auxiliary nurs		00.0	0.5	Pharmacy assi		400		Didn't know at			
0 visits	421			0 visits	426			0 visits	424	99.4	0.4
1 visit	4			1 visit	0			1 visit	2	0.6	0.4
2 visits	1			2 visits	0			2 visits	0	0	
3 visits	0	-		3 visits	0			3 visits	0	0	
4 visits	0			4 visits	0			4 visits	0	0	
5 visits	0			5 visits	0			5 visits	0	0	
6 visits	0			6 visits	0			6 visits	0	0	
7 visits	0			7 visits	0			7 visits	0	0	
8 visits	0			8 visits	0			8 visits	0	0	
Missing	0			Missing	0			Missing	0	400	
Total	426	100		Total	426	100		Total	426	100	
Laboratory ted		00.7	0.0	Traditional he		400					
0 visits	425			0 visits	426						
1 visit	1			1 visit	0						
2 visits	0			2 visits	0						
3 visits	0			3 visits	0						
4 visits	0			4 visits	0						
5 visits	0			5 visits	0						
6 visits	0			6 visits	0						
7 visits	0			7 visits	0						
8 visits	0			8 visits	0						
Missing	0			Missing	0						
Total	426	100		Total	426	100					



6.3.2 Postnatal Checkup for the Baby

The results regarding postnatal care for the neonate are shown in Table 6.3.2a: 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 percent of women reported that their infant was checked at any time after delivery. Among all deliveries, 35 percent of women reported that a qualified medical professional checked on their infant within 24 hours of delivery. Table 6.3.2b shows the attendants for neonatal postnatal care. Most women indicated that a medical doctor performed a checkup (85 percent). Professional nurses were also reported, though much less frequently.

Table 6.3.2a Postnatal checkup for the neonate

For women's most recent live birth in the past two years, postpartum care received								
by the baby								
		Weighted	Weighted					
Characteristic	N	%	SE					
Baby was checked after delivery								
Yes	550	83.7	2.4					
No	102	16.3	2.4					
DK/DTR	2							
Missing	21							
Total	675	100						
Baby was checked within 24 hours after delivery by a health provider								
Yes	226	34.9	2.7					
No	383	65.1	2.7					
DK/DTR	2							
Missing	64							
Total	675	100						
Baby was checked within one week after delivery by a	health pro	ovider						
Yes	459	75.3	3.2					
No	150	24.7	3.2					
DK/DTR	2							
Missing	64							
Total	675	100						



Table 6.3.2b Postnatal checkup for the neonate: providers

Percentage dis			ts at postn	atal care, for w	omen with	a birth in t	he last two	years who att	ended at le	ast one po	stnatal
care visit for ti	ne most rec	Weighted	Weighted			Weighted	Weighted	<u> </u>		Weighted	Weighted
Attendant	N	%	SE	Attendant	N	%	SE	Attendant	N	%	SE
Medical doctor				Midwife / Comadrona				Relative			
0 visits	83	14.9	2.2	0 visits	550	100		0 visits	550	100	
1 visit	327	61.2	2.6	1 visit	0	0		1 visit	0	0	
2 visits	110	18.7	1.6	2 visits	0	0		2 visits	0	0	
3 visits	22	4.1	0.9	3 visits	0	0		3 visits	0	0	
4 visits	4	0.6	0.3	4 visits	0	0		4 visits	0	0	
5 visits	1	0.1	0.1	5 visits	0	0		5 visits	0	0	
6 visits	1	0.1	0.1	6 visits	0	0		6 visits	0	0	
7 visits	1	0.2		7 visits	0	0		7 visits	0	0	
8 visits	1	0.2	0.2	8 visits	0	0		8 visits	0	0	
Missing	0			Missing	0			Missing	0		
Total	550			Total	550	100		Total	550	100	
Professional n				Community he				Other			
0 visits	459	82	2	0 visits	549	99.9	0.1	0 visits	550	100	
1 visit	76			1 visit	1	0.1		1 visit	0	0	
2 visits	10			2 visits	0	0.1		2 visits	0	0	
3 visits	2			3 visits	0	0		3 visits	0	0	
4 visits	0		0.2	4 visits	0	0		4 visits	0	0	
5 visits	1		0.1	5 visits	0	0		5 visits	0	0	
6 visits	0		0.1	6 visits	0	0		6 visits	0	0	
7 visits	1		0.1	7 visits	0	0		7 visits	0	0	
8 visits	1			8 visits	0	0		8 visits	0	0	
	0		0.2	Missing	0	U		Missing	0		
Missing Total	550			Total	550	100		Total	550	100	
		100				100					
Auxiliary nurs 0 visits	544	99	0.4	Pharmacy assistant 4 0 visits 550 100				Didn't know attendant or declined to respond 0 visits 549 99.8 0.3			
	4				550	0			1		
1 visit	1			1 visit	0			1 visit 2 visits			
2 visits	0		0.2	2 visits	0	0			0		
3 visits			0.3	3 visits	0	0		3 visits	0	0	
4 visits	1		0.2	4 visits	0			4 visits	-	0	
5 visits	0			5 visits	0	0		5 visits	0	0	
6 visits	0			6 visits	0			6 visits	0	0	
7 visits	0			7 visits	0			7 visits	0		
8 visits	0			8 visits	0	0		8 visits	0		
Missing	0			Missing	0			Missing	0		
Total	550	100		Total	550	100		Total	550	100	
Laboratory ted				Traditional he							
0 visits	550			0 visits	549						
1 visit	0			1 visit	1						
2 visits	0			2 visits	0						
3 visits	0			3 visits	0						
4 visits	0			4 visits	0						
5 visits	0			5 visits	0						
6 visits	0			6 visits	0						
7 visits	0			7 visits	0						
8 visits	0			8 visits	0	0					
Missing	0			Missing	0						
Total	550	100		Total	550	100					



CHAPTER 7: CHILD HEALTH

This chapter summarizes the health status of children aged 0-59 months whose mothers participated in the SM2015-Nicaragua Baseline Household Survey. All data summarized in this chapter are based on the mother's report.

7.1 Health Status

The age and sex distribution of the de facto population of children aged 0-59 months whose mothers resided in the surveyed households in Nicaragua is shown in Table 7.1 by 6 or 12 month age groups. Twenty percent of these children were under one year of age at the time of the interview. The age distributions of female and male children are similar.

Table 7.1 Age and sex of children

Percent distribution of the de facto population of children aged 0-59 months								
in the SM2015 baseline survey								
	Fem	ale	Ma	ale	Total			
	N % N		%	N	%			
Age, in months								
0-5 months	72	10.3	62	8.7	134	9.5		
6-11 months	81	11.6	79	11.1	160	11.3		
12-23 months	154	22.1	144	20.3	298	21.1		
24-35 months	122	17.5	143	20.2	266	18.9		
36-47 months	137	19.6	143	20.2	282	20		
48-59 months	132	18.9	138	19.5	271	19.2		
Total	698	100	709	100	1411	100		

7.1.1 Current health status

Table 7.1.1 shows the current health status of all children aged 0-59 months, as reported by their mothers. The table also includes mother's evaluation of current health relative to health the previous year; and the percentage of children who can easily perform daily activities. Approximately 72 percent of mothers considered their children's health to be "good", "very good", or "excellent".

When asked to evaluate their children's current health status relative to the past year, 39 percent reported that their children's health was "about the same". While 56 percent reported that their children's health had improved, 5 percent reported worse health on the day of the interview, compared to last year. Ninety-three percent could "easily" perform their daily activities (e.g., playing and going to school). Seven percent of mothers reported that their children had at least some degree of difficulty performing these activities.



Table 7.1.1 Current health status

Percent distribution of children aged 0-59 months, as reported by								
their mothers								
Characteristic	N	Weighted %	Weighted SE					
Current health								
Excellent	217	16.4	1.8					
Very good	321	22.5	1.8					
Good	464	32.8	1.7					
Fair	343	24.6	1.8					
Poor	53	3.7	0.7					
DK/NR	1							
Missing	12							
Total	1411	100						
Current health relative to health last ye	ar							
Better	598	55.8	2.1					
Worse	50	5.3	0.9					
About the same	423	38.9	2					
DK/NR	0							
Missing	12							
Total	1083	100						
Ability to perform daily activities								
Easily	1306	92.8	1					
With some difficulty	61	4.7	0.7					
With much difficulty	4	0.3	0.2					
Unable to do	26	2.1	0.4					
DK/NR	2							
Missing	12							
Total	1411	100						



7.1.2 Recent illness

Mothers were asked a series of questions about any illnesses or health problems that their children might have had in the two weeks preceding the interview. Approximately one-third of children were reported as sick during that time (Table 7.1.2). Of the 467 children who were recently ill, fever (27 percent), cough / chest infection (27 percent), diarrhea without blood (20 percent), and a problem other than one on the provided list (14 percent), were the most commonly elicited specific complaints.

It is interesting to note that although the health status of these young children, as reported by their mothers (Table 7.1.1), tended to be somewhat better than the health status of women participating in the survey (Table 3.6.1), a larger proportion of children were sick immediately prior to the interview (Table 7.1.2) compared to the proportion of women who were sick (Table 3.6.2).



Table 7.1.2 Recent illness

Percent distribution of children aged 0-	59 months	, as report	ed by						
their mothers									
		Weighted	Weighted						
Characteristic	N	%	SE						
Child was sick recently (in the last two weeks)									
Yes	467	32.8	1.9						
No	934	66.6	1.9						
DK/NR	0								
Missing	2								
Total	1403	100							
Recent illness									
Fever	125	27.2	2.1						
Malaria	0	0							
Cough/chest infection	130	26.9	2.4						
Tuberculosis	0	0							
Asthma	7	1.9	0.9						
Bronchitis	2	0.5	0.4						
Pneumonia	14	3.4	0.9						
Diarrhea without blood	92	19.9	1.9						
Diarrhea with blood	5	0.9	0.4						
Vomiting	4	0.9	0.4						
Abdominal pain	1	0.2	0.2						
Anemia	1	0.3	0.3						
Skin rash/infection	13	2.6	0.7						
Eye/ear infection	3	0.6	0.4						
Measles	1	0.3	0.3						
Jaundice	0	0							
Headache	3	0.5	0.3						
Stroke	0	0							
Diabetes	0	0							
HIV/AIDS	0	0							
Paralysis	0	0							
Other	66	13.9	1.7						
DK/NR	0								
Missing	0								
Total	467	100							



7.1.3 Utilization of health services for recent illness

Table 7.1.3 summarizes data regarding the utilization of health services among the 467 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.

Care was sought for 55 percent of these cases. Care was typically sought at a public health center / clinic (26 percent), public hospital (25 percent), or public health unit (23 percent); approximately 10 percent attended private health centers. Only 13 children were hospitalized for their recent illness (approximately 4 percent of those who sought care).



Table 7.1.3 Utilization of health services for recent illness

Percent distribution of children 0-59 months who were sick in the last				
two weeks				
		Weighted	Weighted	
Utilization of health services	N	%	SE	
Sought care for recent illness				
Yes	259	54.9	3.3	
No	208	45.1	3.3	
DK/NR	0			
Missing	0			
Total	467	100		
Type of medical facility where care was	sought			
Public hospital	59	25.3	4.7	
Public health unit	62	23.2	2.9	
Public clinic/health center	69	26.4	3.7	
Public mobile clinic	0	0		
Other public health center	0	0		
Private hospital	2	0.8	0.5	
Private clinic/health center	4	1.8	1.1	
Private office	18	6.9	1.5	
Private mobile clinic	0	0		
Other private health center	0	0		
Pharmacy	32	11.1	2.5	
Community health worker	2	0.5	0.4	
Traditional healer	1	0.5	0.6	
Other	10	3.6	1.3	
DK/NR	0			
Missing	0			
Total	259	100		
Child was hospitalized for recent illness	;			
Yes	13	3.5	1.1	
No	454	96.5	1.1	
DK/NR	0			
Missing	0			
Total	467	100		



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 a large proportion of deaths resulting from pneumonia, a common acute respiratory disease. The prevalence of acute respiratory infection was estimated by asking mothers 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 had symptoms of an acute respiratory infection, the mother 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, acute respiratory infection, and fever among children aged 0-59 months, as reported by their mothers, is displayed in Table 7.2.1. Twenty percent of children experienced cough, 10 percent had symptoms of an acute respiratory infection, and 19 percent had a fever in the two weeks preceding the interview.



Table 7.2.1 Prevalence of acute respiratory infection and fever

Percent distribution of children aged 0-59 months, as reported by their mothers			
		_	Weighted
Characteristic	N	%	SE
Child had cough in the last two weeks			
Yes	294		
No	1107	79.9	1.7
DK/NR	2		
Missing	8		
Total	1411	100	
Child had cough in the last two weeks, by type			
Cough with difficulty breathing due to chest problem	50	3.2	0.6
Cough with difficulty breathing due to congested or runny nose	53	3.6	0.6
Cough with difficulty breathing due to chest provlem and congested or runny nose	48	3.4	0.6
Cough with difficulty breathing due to other reason	0	0	,
Cough without difficulty breathing	143	9.9	1
No cough	1107	79.9	1.7
DK/NR	2		
Missing	8		
Total	1411	100	,
Child had acute respiratory infection in the last two weeks			
Yes	151	10.2	1.1
No	1250	89.8	1.1
DK/NR	2		
Missing	8		
Total	1411		,
Child had fever in the last two weeks			
Yes	263	18.5	1.3
No	1139	81.5	
DK/NR	1		
Missing	8		
Total	1411	100	



7.2.2 Utilization of health services for acute respiratory infection

Fifty-five percent of children with symptoms of acute respiratory infection were taken somewhere for evaluation and/or treatment of their condition (Table 7.2.2). Care for these children was most often sought in the public sector or at a pharmacy.

Table 7.2.2 Utilization of health services for acute respiratory infection

Percent distribution of children aged 0-59 motnhs who had acute			
respiratory infection in the last two weeks, as reported by their			
mothers			
Characteristic	N	Weighted %	Weighted SE
Sought care for acute respiratory infecti		/0	JL
Yes	83	55.4	4.6
No	68	44.6	4.6
DK/NR	0	44.0	4.0
	0		
Missing Total	151	100	
		100	
Type of medical facility where care was Public hospital	Sought 18	23.8	6.8
Public health unit	21	23.8	4.9
Public clinic/health center	25	30	4.9 5.1
Public mobile clinic	0	0	3.1
Other public health center	0	0	
Private hospital	0	0	
Private clinic/health center	0	0	
Private office	6	6.9	2.3
Private office Private mobile clinic	0	0.9	2.3
Other private health center	0	0	
Pharmacy	9	10.3	3.8
Community health worker	0	10.3	3.0
Traditional healer	1	1.7	1.8
Other	3	3.5	2
DK/NR	0	5.5	
,			
Missing	0	100	
Total	83	100	



7.2.3 Utilization of medications for acute respiratory infection

Eighty-two percent of children with symptoms of acute respiratory infection were given some type of medication for their condition (Table 7.2.3a). Antibiotic syrups were given to 48 percent of these cases, antibiotic pills to 9 percent, and antibiotic injections to 5 percent. Acetaminophen, ibuprofen, and aspirin were also administered. Twenty percent of children received a treatment other than those listed.



Table 7.2.3a Utilization of medications for acute respiratory infection

Percent distribution of children aged 0-59 months who had acute			
respiratory infection in the last two weeks, as reported by their			
mothers			
		Weighted	Weighted
Medication	N	%	SE
Any treatment			
Yes	125	81.7	3.7
No	26	18.3	3.7
DK/NR	0		
Missing	0		
Total	151	100	
Antibiotic injection			
Yes	5	4.8	2.3
No	119	95.2	2.3
DK/NR	1		
Missing	26		
Total	151	100	
Antibiotic pill			
Yes	11	9.1	2.7
No	113	90.9	2.7
DK/NR	1		
Missing	26		
Total	151	100	
Antibiotic syrup			
Yes	61	48	4.5

63

26

151

2

1

26

151

122

1

52

100

2

98

100

4.5

1.5

1.5

No

DK/NR

Missing

Aspirin Yes

DK/NR

Missing

Total

Total

No



Table 7.2.3a continued

Table 7.2.3a Continueu		Weighted	Weighted
	N	%	SE
Acetaminofen			
Yes	71	57.8	4.1
No	53	42.2	4.1
DK/NR	1		
Missing	26		
Total	151	100	
Ibuprofen			
Yes	4	2.3	1.4
No	120	97.7	1.4
DK/NR	1		
Missing	26		
Total	151	100	
Oral rehydration therapy			
Yes	5	4.5	2
No	119	95.5	2
DK/NR	1		
Missing	26		
Total	151	100	
Other			
Yes	24	19.5	3.9
No	100	80.5	3.9
DK/NR	1		
Missing	26		
Total	151	100	

7.2.4 Feeding practices during acute respiratory infection

Data on feeding practices during the recent episode of acute respiratory infection are summarized in Table 7.2.4. The table shows the volume of fluids and the volume of solids given during the illness. Only 1 percent of children were given more fluids than usual. Over three-quarters of children were offered less fluid than usual (or none at all). Twenty percent of children were offered the same volume of solid food as usual during their illness. Approximately three-quarters of children were given less than the usual amount of solid food (or none at all).



Table 7.2.4 Feeding practices during acute respiratory infection

Percent distribution of children aged 0-59 months who had acute			
respiratory infection in the last two weeks, as reported by their			
mothers			
		Weighted	Weighted
Amount given	N	%	SE
Volume of fluids (including breast milk)	given dur	ing illness	
No fluids	6	4.5	1.9
Much less	28	18.8	3.4
Somewhat less	84	55.9	4.3
About the same	30	19.5	3.2
More	2	1.2	0.9
DK/NR	1		
Missing	0		
Total	151	100	
Volume of solid foods given during illne	ess		
No solids	5	2.9	1.3
Much less	22	15.5	3.6
Somewhat less	91	61.3	4.1
About the same	32	20.2	3.3
More	0	0	
DK/NR	1		
Missing	0		_
Total	151	100	

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 mothers whether their children aged 0-59 months had had diarrhea in the two weeks preceding the interview. If the child had had diarrhea, the mother was asked about what was done to treat the diarrhea and feeding practices during the diarrheal episode.

7.3.1 Prevalence

Table 7.3.1 shows the proportion of children aged 0-59 months with diarrhea in the two weeks preceding the interview, as reported by their mothers (13 percent). Less than one percent of children had bloody diarrhea.



Table 7.3.1 Prevalence of diarrhea

Percent distribution of children aged 0-59 months, as reported by			
their mothers			
		Weighted	Weighted
Characteristic	N	%	SE
Child had diarrhea in the last two week	s		
Yes	175	12.7	1.3
No	1223	87.3	1.3
DK/NR	1		
Missing	4		
Total	1403	100	
Child had diarrhea in the last two week	s, by type		
Diarrhea with blood	9	0.6	0.2
Diarrhea without blood	166	12.1	1.2
No diarrhea	1223	87.3	1.3
DK/NR	1		
Missing	4		
Total	1403	100	



7.3.2 Utilization of health services for diarrhea

Over half of children with diarrhea were taken somewhere for evaluation and/or treatment of their condition (Table 7.3.2). Care for these children was most often sought in the public sector or pharmacies.

Table 7.3.2 Utilization of health services for diarrhea

Percent distribution of children aged 0-59 months who had diarrhea in				
the last two weeks, as reported by their	the last two weeks, as reported by their mothers			
Characteristic	N	Weighted %	Weighted SE	
Sought care for diarrhea				
Yes	100	51.2	4.6	
No	97	48.8	4.6	
DK/NR	0			
Missing	0			
Total	197	100		
Type of medical facility where care was	sought			
Public hospital	25	27.9	6.2	
Public health unit	12	10.5	3.3	
Public clinic/health center	32	31.1	4.9	
Public mobile clinic	0	0		
Other public health center	0	0		
Private hospital	0	0		
Private clinic/health center	2	2	1.4	
Private office	8	8.9	2.7	
Private mobile clinic	0	0		
Other private health center	0	0		
Pharmacy	13	11.9	3.8	
Community health worker	1	0.7	0.7	
Traditional healer	0	0		
Other	7	7	2.9	
DK/NR	0			
Missing	0			
Total	100	100		

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 may be administered as well.



Although care was sought in only 51 percent of cases, over 80 percent of cases were given some form of treatment. Oral serums prepared from commercially-available powders were the most common form oral rehydration therapy (44 percent). Less than 5 percent of children were given zinc pills or zinc syrup.

Table 7.3.3a Utilization of treatments for diarrhea

Percent distribution of children age 0-59	9 months v	vho had di	arrhea in
the last two weeks, as reported by their mother			
Treatment given	N	Weighted %	Weighted SE
Any treatment given			
Yes	142	82.1	3
No	33	17.9	3
DK/NR	0		
Missing	0		
Total	175	100	
Powdered oral serum			
Yes	75	43.7	4.3
No	100	56.3	4.3
DK/NR	0		
Missing	0		
Total	175	100	
Bottled oral serum			
Yes	16	10.4	3
No	159	89.6	3
DK/NR	0		
Missing	0		
Total	175	100	
Homemade fluid recommended by hea	lth authori	ties	
Yes	9	5.9	2.5
No	166	94.1	2.5
DK/NR	0		
Missing	0		
Total	175	100	
Antibiotic pill			
Yes	20	12.1	3.3
No	155	87.9	3.3
DK/NR	0		
Missing	0		
Total	175	100	



Table 7.3.3a continued

Table 7.3.3a continued		Weighted	Weighted
Treatment given	N	%	SE
Antidiarrheal pill			
Yes	12	7.2	2.4
No	163	92.8	2.4
DK/NR	0		
Missing	0		
Total	175	100	
Zinc pill			
Yes	1	0.7	0.7
No	174	99.3	0.7
DK/NR	0		
Missing	0		
Total	175	100	
Other type of pill			
Yes	9	5.8	1.7
No	166	94.2	1.7
DK/NR	0		
Missing	0		
Total	175	100	
Unknown pill			
Yes	20	11.6	2.7
No	155	88.4	2.7
DK/NR	0		
Missing	0		
Total	175	100	
Antibiotic injection			
Yes	2	0.9	0.6
No	173	99.1	0.6
DK/NR	0		
Missing	0		
Total	175	100	



Table 7.3.3a continued

Table 7.3.3a continued		Weighted	Weighted
Treatment given	N	%	SE
Non-antibiotic injection			
Yes	0	0	
No	174	100	
DK/NR	1		
Missing	0		
Total	175	100	
Unknown injection			
Yes	1	0.5	0.5
No	173	99.5	0.5
DK/NR	1		
Missing	0		
Total	175	100	
Intravenous therapy			
Yes	1	0.5	0.5
No	173	99.5	0.5
DK/NR	1		
Missing	0		
Total	175	100	
Home remedy / herbal medicine			
Yes	32	17.2	3.5
No	142	82.8	3.5
DK/NR	1		
Missing	0		
Total	175	100	
Antibiotic syrup			
Yes	45	25.5	4
No	129	74.5	4
DK/NR	1		
Missing	0		
Total	175	100	
Antidiarrheal syrup			
Yes	9	4.7	1.4
No	164	95.3	1.4
DK/NR	2		
Missing	0		
Total	175	100	



Table 7.3.3a continued

Treatment given	N	Weighted %	Weighted SE
Zinc syrup			
Yes	4	2.3	1.1
No	171	97.7	1.1
DK/NR	0		
Missing	0		
Total	175	100	
Other syrup			
Yes	10	5.6	1.5
No	165	94.4	1.5
DK/NR	0		
Missing	0		
Total	175	100	
Unknown syrup			
Yes	2	1.5	1.1
No	173	98.5	1.1
DK/NR	0		
Missing	0		
Total	175	100	



The use of oral rehydration solution with zinc was given to less than 2 percent of the children with diarrhea (Table 7.3.3b).

Table 7.3.3b Utilization of oral rehydration solution and zinc for diarrhea

Percent distribution of children aged 0-59 months who had diarrhea in							
the last two weeks, as reported by their mothers							
		Weighted	Weighted				
Treatment given	N	%	SE				
Oral rehydration solution and zinc, amo	ng all child	lren with d	iarrhea				
Yes	3	1.4	0.8				
No	194	98.6	0.8				
DK/NR	0						
Missing	0						
Total	197	100					
Oral rehydration solution and zinc, amo	ng those g	iven any tr	eatment				
Yes	3	1.8	1				
No	157	98.2	1				
DK/NR	0						
Missing	37						
Total	197	100					



7.3.4 Feeding practices during diarrhea

Mothers 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 7.3.4. The table shows the volume of fluids and the volume of solids given during the illness. Only 3 percent of children were given more fluids than usual. Just over 70 percent of children were offered less fluid than usual (or none at all). Approximately 30 percent of children were offered the same volume of solid food as usual during their illness. Approximately two-thirds of children were given less than the usual amount of solid food (or none at all).

Table 7.3.4 Feeding practices during diarrhea

Percent distribution of children aged 0-59 months who had diarrhea in							
the last two weeks, as reported by their mothers							
	Weighted	Weighted					
Amount given	N	%	SE				
Volume of fluids (including breastmilk)	given duri	ng illness					
No fluids	4	2.5	1.2				
Much less	34	17.1	2.6				
Somewhat less	98	50.6	2.6				
About the same	55	27.2	2.6				
More	6	2.7	1.1				
DK/NR	0						
Missing	0						
Total	197	100					
Volume of solid foods given during illne	ess						
No solids	10	5.2	1.5				
Much less	28	14.4	2.8				
Somewhat less	98	50.1	2.9				
About the same	58	29.6	2.8				
More	2	0.8	0.6				
DK/NR	1						
Missing	0						
Total	197	100					

7.4 Immunization against common childhood illnesses

Information on immunization coverage was collected for all children aged 0-59 months whose mothers were participating in the survey. Both mother's report and review of vaccination card (if present) were used to determine coverage. A vaccination card was available for review for 1,099 children (78 percent of the sample, unweighted). In Table 7.4a, 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 at the time of the interview.



Table 7.4a Immunization against common childhood illnesses

Percent distribution of children ag	ed 0-59 m	onths, as re	eported by	their motl	hers	
		Recall		Va	ccination c	ard
		Weighted	Weighted		Weighted	Weighted
Immunization	N	%	SE	N	%	SE
BCG vaccine (tuberculosis), among	g children ()-59 month	S			
None recalled/recorded	42	3.4	0.9	73	7.2	1.3
1 dose	1196	95.8	0.9	1026	92.8	1.3
2+ doses	11	0.8	0.3	0	0	
DK/NR, missing	162			312		
Total	1411	100		1411	100	
Oral polio vaccine, among children	n 6-59 mon	ths				
None recalled/recorded	42	3.7	1	58	6.5	1.4
1 dose	135	12.6	1.1	35	4.2	0.9
2 doses	115	9.7	1.1	50	5.1	1
3+ doses	822	74	2	834	84.1	2.2
DK/NR, missing	163			300		
Total	1277	100		1277	100	
Pentavalent vaccine (DPT, HepB, F			6-59 month			
None recalled/recorded	45	4.2	0.8	64	7.1	1.2
1 dose	98	9.6	1.6	33	3.6	0.8
2 doses	91	7.9	1.1	71	7.1	1.3
3+ doses	889	78.3	2.3	810		2.1
DK/NR, missing	154	70.0		299		
Total	1277	100		1277	100	
Pneumoccal conjugate vaccine, an			ths who w			r
None recalled/recorded	35	11.9	2.3	16	5.7	1.8
1 dose	36	12.7	2.2	19	7.2	2.3
2 doses	21	7	1.6	25	8.4	1.8
3+ doses	203	68.4	3.5	240	78.6	3.1
DK/NR, missing	72			67		
Total	367	100		367	100	
Rotavirus vaccine, among children				30.	200	
None recalled/recorded	126	11.9	1.4	106	11.3	1.5
1 dose	114	11.4	1.3	52	5.9	1.2
2 doses	87	8.6	1.1	98	10.9	1.4
3+ doses	734	68.1	2.6	720		2.8
DK/NR, missing	216	00.1		301	, 2.0	
Total	1277	100		1277	100	
Diphtheria, tetanus and pertussis						
None recalled/recorded	135	16.7	2	153	22.9	2.4
1 dose	642	77.4	2	567	77.1	2.4
2+ doses	52	5.9	1.1	0		۷.٦
DK/NR, missing	145	5.5	1.1	254	U	
Total	974	100		974	100	
Measles, mumps, and rubella (MM			nildren 12-			
None recalled/recorded	133	, among ci 14.2	2	113		2
1 dose	683	73	2.3	723		2
2+ doses	129		1.4	723		
DK/NR, missing	172	12.0	1.4	281	U	
-	1117	100		1117	100	
Total	111/	100		111/	100	



The coverage of two key vaccine indicators was calculated according to age groups (Table 7.4b). Based on maternal recall, 83 percent of children aged 12-23 months had received at least one dose of the measles, mumps, and rubella (MMR) vaccine. Among children in this age group with a vaccine card available for review, coverage of this indicator was 71 percent. When vaccine card data was supplemented by maternal recall, estimated coverage of one dose of MMR vaccine was 86 percent among children aged 12-23 months.

Based on maternal recall, only 54 percent of children aged 18-59 were classified as fully immunized. Among the subset with a vaccine card available for review, full immunization coverage in this age group was 42 percent. When vaccine card data was supplemented by maternal recall, 64 percent of children 12-59 were estimated to be "fully" immunized for age. Rates of complete vaccination for age are higher when including all children 0-59 months. When considering only mothers' recall, 59 percent of children are fully immunized for age. Card-based coverage is 48 percent, and when combined with recall-based information, the estimate of full vaccination for age among children 0-59 months is 67 percent.



Table 7.4b Immunization against common childhood illnesses, according to age group

Percent distribution of children, as reported by their mothers										
		Recall Vaccination card ^a Vacci			Vaccinat	nation card ^a plus recall				
		Weighted	Weighted		Weighted	Weighted		Weighted	Weighted	
Immunization	N	%	SE	N	%	SE	N	%	SE	
Measles, mumps, an	d rubella (MMR) vacc	ine, at leas	st 1 dose a	mong child	lren 12-23 r	months			
Yes	209	82.9	2.8	213	70.9	3.8	242	86	2.7	
No	43	17.1	2.8	83	29.1	3.8	39	14	2.7	
DK/NR, missing	46			2			17			
Total	298	100		298	100		298	100		
Fully immunized ^b , ar	nong child	ren 18-59 r	nonths							
Yes	435	54.1	2.9	422	41.7	3.1	590	63.6	3.1	
No	355	45.9	2.9	536	58.3	3.1	317	36.4	3.1	
DK/NR, missing	184			16			67			
Total	974	100		974	100		974	100		
Fully immunized ^b , ar	nong child	ren 0-59 m	onths							
Yes	682	58.6	2.6	704	48	3.2	910	67.4	2.9	
No	463	41.4	2.6	690	52	3.2	411	32.6	2.9	
DK/NR, missing	266			17			90			
Total	1411	100		1411	100		1411	100		

^aAmong 1,778 children aged 0-59 months who had a vaccine card available for review (80 percent of the sample, unweighted) b Full immunization for age is defined as follows: 0-2 months (BCG x1); >2-4 months (BCG x1, OPV x1, Penta x1, Pneum x1, Rota x1); >4-6 months (BCG x1, OPV x2, Penta x2, Pneum x2, Rota x2); >6-12 months (BCG x1, OPV x3, Penta x3, Pneum x3, Rota x3); >12-18 months (BCG x1, OPV x3, Penta x3, Pneum x3, Rota x3, MMR x1); >18-59 months (BCG x1, OPV x3, Penta x3, Pneum x3, Rota x3, MMR x1, DPT x1). All Pneum compliance is calculated among children born 2012 or later.



7.5 De-worming treatment

Administration of de-worming treatment every six months has been shown to reduce the prevalence of anemia in children. Only 32 percent of children aged 12-59 months had received at least two doses of de-worming treatment in the year preceding the interview (Table 7.5).

Table 7.5 De-worming treatment

	Table 718 De Worlding Greatment						
Percent distribution of children, as reported by their mothers							
		Weighted	Weighted				
Treatment given	N	%	SE				
De-worming treatment given at least two times in the last 12 months,							
among children age 12-59 months							
Yes	346	31.9	1.3				
No	724	68.1	1.3				
DK/NR	1						
Missing	12						
Total	1083	100					



CHAPTER 8: INFANT AND YOUNG CHILDREN FEEDING PRACTICES

This chapter summarizes the feeding practices of infants and children aged 0-59 months whose mothers participated in the SM2015-Nicaragua Baseline Household Survey. All data summarized in this chapter are based on the mother's report.

8.1 Breastfeeding

8.1.1 Early initiation of breastfeeding

Early initiation of breastfeeding is defined as the percentage of children born in the 24 months prior to the survey (<24 months old) who were put to the breast within one hour of birth. In Nicaragua, 821 children are in the specified age range (<24 months old) and 811 have adequate responses to determine their breastfeeding status. Table 8.1 shows that 82 percent of children are breastfed within one hour after birth.

8.1.2 Exclusive breastfeeding

Exclusive breastfeeding is defined as the percentage of infants born in the 6 months prior to the survey who received only breast milk during the previous day. This information is obtained through a 24-hour dietary recall which asks the mother what the child consumed during the previous day or night. In Nicaragua, 134 children are in the specified age range and all have sufficiently complete dietary recall information to determine whether they are exclusively breastfed. Table 8.1 shows that 60 percent of children are exclusively breastfed.

8.1.3 Continued breastfeeding at 1 year

Continued breastfeeding at 1 year is defined as the percentage of children 12-15 months old who received breast milk during the previous day. This information is obtained through a 24-hour dietary recall which asks the mother what the child consumed during the previous day or night. In Nicaragua, 95 children are in the specified age range and all have adequate responses to determine their breastfeeding status. Table 8.1 shows that 57 percent of children continue to receive breast milk at 1 year.



Table 8.1 Breastfeeding

Percentage of children								
Characteristic	N	Weighted %	Weighted SE					
		,,,	-					
Early initiation of breastfeeding (among children <24 months)								
Yes	667	82.4	1.7					
No	144	17.6	1.7					
Missing, DK/NR	10							
Total	821	100						
Exclusive breastfeeding (among childre	n 0-5 mont	ths)						
Yes	78	59.5	5.6					
No	56	40.5	5.6					
Missing, DK/NR	0							
Total	134	100						
Continued breastfeeding at 1 year (amo	ng childre	n 12-15 mc	nths)					
Yes	57	56.5	6.1					
No	38	43.5	6.1					
Missing, DK/NR	0							
Total	95	100						



8.2 Solid Foods

8.2.1 Introduction of solid, semi-solid or soft foods

The 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. This information is obtained through a 24-hour dietary recall which asks the mother what the child consumed during the previous day or night. In Nicaragua, 59 children are in the specified age range and all have sufficiently complete dietary recall information. Table 8.2 shows that 80 percent of children consume solid or semi-soft foods.

8.2.2 Dietary diversity

The 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. This information is obtained through a 24-hour dietary recall which asks the mother what the child consumed during the previous day or night. In Nicaragua, 458 children are in the specified age range and 456 have sufficiently complete dietary recall information. Table 8.2 shows that 43 percent of children achieved the minimum dietary diversity during the previous day.

8.2.3 Meal frequency

The 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 number of times 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 of times is four times for all children 6-23 months of age. This information is obtained through a 24-hour dietary recall which asks the mother what the child consumed during the previous day or night. In Nicaragua, 458 children are in the specified age range and 437 have sufficiently complete dietary recall information. Table 8.2 shows that 49 percent of children achieved the minimum meal frequency during the previous day.

8.2.4 Minimum acceptable diet

The 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 a 24-hour dietary recall which asks the mother what the child consumed during the previous day or night. In Nicaragua, 458 children are in the specified age range and 450 have sufficiently complete dietary recall information. Table 8.2 shows that 22 percent 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) or a food that is specially designed for infants and young children, or that is fortified in the home with a product that included iron during the previous day. This information is obtained through a 24-hour dietary recall which asks the mother what the child consumed during the previous day or night. In Nicaragua, 458 children



are in the specified age range and 456 have sufficiently complete dietary recall information. Table 8.2 shows that 35 percent of children consumed an iron-rich food during the previous day.

Table 8.2 Solid foods

Percentage of children			
Characteristic	N	Weighted %	Weighted SE
Introduction of solid foods (among child	dren 6-8 m	onths)	
Yes	49	80.4	6.1
No	10	19.6	6.1
Missing, DK/NR	0		
Total	59	100	
Minimum dietary diversity (among child	dren 6-23 n	nonths)	
Yes	204	43.1	3.1
No	252	56.9	3.1
Missing, DK/NR	2		
Total	458	100	
Minimum meal frequency (among child	ren 6-23 m	onths)	
Yes	221	48.6	2.8
No	216	51.4	2.8
Missing, DK/NR	21		
Total	458	100	
Minimum acceptable diet (among child	ren 6-23 m	onths)	
Yes	103	21.6	2.3
No	347	78.4	2.3
Missing, DK/NR	8		
Total	458	100	
Consumption of iron-rich foods (among	children 6	-23 month	s)
Yes	157	34.8	3.1
No	299	65.2	3.1
Missing, DK/NR	2		
Total	458	100	



8.3 Micronutrient Supplementation

8.3.1 Vitamin A

Interviewers showed the woman being interviewed common types of bottles, capsules, or syrups and asked if their child received a dose of vitamin A in the last six months. Table 8.3 shows that 37 percent of children 0-59 months of age received a dose of vitamin A in the last six months.

8.3.2 Iron

Interviewers showed the woman being interviewed 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 5 percent of children 0-59 months of age received a dose of iron in the last day.

8.3.3 Packets of micronutrients

Interviewers showed the woman being interviewed a card with packets of micronutrient ("chispitas") and asked how many packets their child has received and consumed in the last six months. Table 8.3 shows that nearly all children 6-23 months of age received no packets of micronutrients in the last six months.



Table 8.3 Micronutrient supplements

Table 8.3 Micronutrient supplements Percentage of children who received the supplement						
refeemage of children who received th	Сэцрист	Weighted	Weighted			
Type of supplement	N	%	SE			
Vitamin A in the last six months (among	children a	ged 0-59 n	nonths)			
Yes	499	36.5	2.4			
No	893	63.5	2.4			
DK/NR	7					
Missing	12					
Total	1411	100				
Iron in the last day (among children age	d 0-59 mor	nths)				
Yes	74	5.3	0.9			
No	1323	94.7	0.9			
DK/NR	2					
Missing	12					
Total	1411	100				
Packets of micronutrients in the last six	months (a	mong child	dren aged			
6-23 months)						
0 times	453	99.8	0.2			
1-10 times	0	0				
11-20 times	0	0				
21-30 times	0	0				
31-40 times	0	0				
41-50 times	0	0				
51-59 times	0	0				
60+ times	1	0.2	0.2			
DK/NR	1					
Missing	2					
Total	457	100				



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 SM2015-Nicaragua Baseline 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) 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-forage, 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.

According to the household roster data collected as part of the SM2015 Household Characteristics Questionnaire, a total of 1,411 children aged 0-59 months were eligible to be weighed, measured, and tested for anemia. In practice, 1,407 children aged 0-59 months underwent the physical measurement module. Height and weight data are presented for 96.9 percent (1,363) of these children: 44 children had invalid values for height or weight. Hemoglobin was measured in 1,218 children (86.6 percent): less than four percent were not measured or had invalid measurements, parental consent was refused for one percent and about nine percent had other reasons (couldn't extract enough blood, other). The age and sex distribution of children participating in the physical measurement module is displayed in Table 9.



Table 9 Age and sex of children measured

Percent distribution of the de facto population of children age 0-59 months who underwent the Physical Measurement Module, by sex and type of measurement, unweighted data

and type of measurement, and	eigittea aata			
	Fema	le	Total	
Measurement	(%)		(%)	(%)
Height and weight				
0-5	1	0.7	9	9.8
6-11	1	1.7	11.2	11.4
12-23	2	1.9	20.5	21.2
24-35	1	7.2	19.9	18.6
36-47	1	9.7	19.8	19.7
48-59	1	8.8	19.6	19.2
Total		100	100	100
Number of children	(575	688	1363
Anemia				
0-5		0.7	0.5	0.6
6-11	1	2.8	12.1	12.5
12-23	2	4.5	22	23.2
24-35	1	9.2	22.2	20.7
36-47	2	1.8	21.7	21.8
48-59		21	21.5	21.3
Total		100	100	100
Number of children	(500	618	1218



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 Distribution of weight-for-age z-scores

Figure 9.1.1 shows the distribution of weight-for-age z-scores among all children aged 0-59 months whose measurements were taken. Overall, 5 percent of measured children are underweight (have low weight-for-age) and 1 percent are severely underweight.

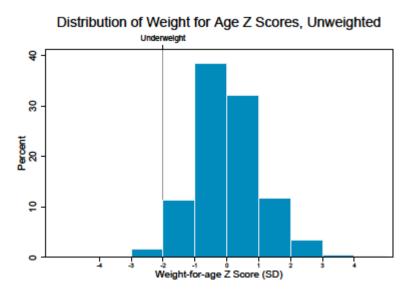


Figure 9.1.1 Distribution of weight-for-age z-scores among children aged 0-59 months



9.1.2 Prevalence of underweight

As shown in Table 9.2, 4.5 percent of children aged 0-59 months are underweight (have low weight-for-age) and 1 percent are severely underweight. The proportion of underweight children is highest (6.2 percent) in the age groups 24 to 59 months and lowest (1.5 percent) among those 6-23 months old, a significant result (P=0.004). Female children (5 percent) are slightly more likely to be underweight than male children (4 percent), but the difference is not statistically significant (P=0.30).

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 9.2.1 presents the distribution of height-for-age z-scores among all children aged 0-59 months whose measurements were taken. Overall, 13 percent of measured children are stunted, and the proportion of severely stunted children is 4 percent.

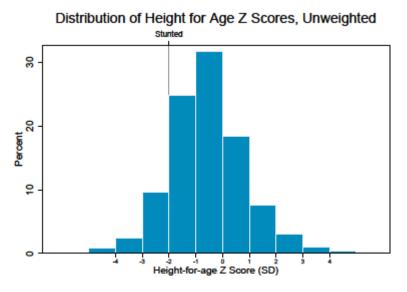


Figure 9.2.1 Distribution of height-for-age z-scores among children aged 0-59 months



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. Overall, 13 percent of children under age five are stunted and 4 percent are severely stunted. Analysis of the indicator by age group shows that stunting is highest (18 percent) in children 24-59 months and lowest (1 percent) in children aged 0-5 months (P<0.001). Severe stunting shows a similar pattern (P=0.009), where the age group of children 24-59 months old has the highest proportion of severely stunted children (6 percent) while the youngest age group (0-5 months) has the lowest proportion (0 percent). Female children slightly less likely to be stunted (12 percent) than male children (15 percent) but this difference was not statistically significant (P=0.08).

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 overweight 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 9.3.1 shows the distribution of weight-for-height z-scores among all children aged 0-59 months whose measurements were taken. Overall, 2 percent of children are wasted and less than 1 percent of children are severely wasted. Overweight and obesity affect a greater proportion of children in Nicaragua than wasting. In this sample representative of the poorest areas, 6 percent of children are shown to be overweight or obese (weight-for-height more than +2 SD).

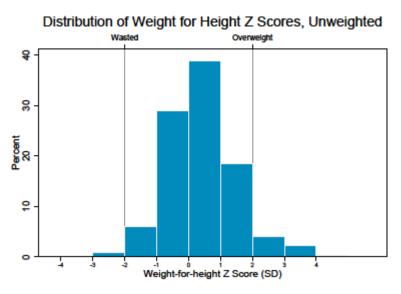


Figure 9.3.1 Distribution of weight-for-height z-scores among children aged 0-59 months



9.3.2 Prevalence of wasting

Table 9.2 shows the breakdown of nutritional status of children aged 0-59 months as measured by weight-for-height by age groups and sex. Overall, 2 percent of children are wasted and less than 1 percent of children are severely wasted. Analysis of the indicator by age group shows that wasting is highest (over 4 percent) in children 0-5 months old and lowest (less than 1 percent) in children aged 6-23 months, a statistically significant difference (P=0.04). Male children are less likely to be wasted than female children (1.4 percent versus less than 1.6 percent; this is not significant, P=0.79). Likewise, male children are slightly less likely to be severely wasted (less than half of 1 percent) than females (just under 1 percent), but the difference is not significant (P=0.79).

Overweight and obesity affect a greater proportion of children in Nicaragua than wasting. In this sample of poorest areas of Nicaragua, 6 percent 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 Nicaragua.

Table 9.2 Prevalence of underweight in children aged 0-59 months

Percentage of children under five years classified as malnourished according to three anthropometric indices of									
nutritional status: weight-for-height, height-for-age, and weight-for-age, by age and sex									
	Weight for age (underweight)			Height-for-age (stunting)		Weight-for-height (wasting)			
	Percent <	Percent <	Percent >	Percent <	Percent <	Percent <	Percent <	Percent >	Number of
Characteristic	-3 SD	-2 SD	+2 SD	-3 SD	-2 SD	-3 SD	-2 SD	+2 SD	children
Total	1	4.5	3.8	3.9	13.3	0.6	1.5	6.1	1411
Sex									
Male	0.8	3.7	4	5	15	0.4	1.4	7.5	709
Female	1.2	5.4	3.5	2.7	11.6	0.8	1.6	4.7	698
Age in months									
0-5	1.3	2.6	9.6	0	0.6	2.3	4.2	5.9	134
6-23	1.1	1.5	6.9	1.1	4.5	0	0.5	8.3	160
12-23	0	2.5	5.4	2.1	12	0	1.2	7.8	298
24-59	1.2	6.2	1.6	5.9	18.1	0.6	1.2	5.1	786

9.4 Anemia

Anemia is a condition characterized by a decrease in the 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.



9.4.1 Distribution of hemoglobin values

Figure 9.4.1 shows the distribution of hemoglobin values (in g/dL) among children 0-59 months of age.

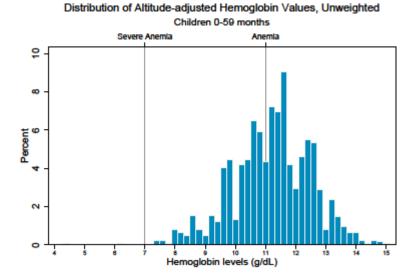


Figure 9.4.1 Distribution of hemoglobin values among children aged 0-59 months

9.4.2 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 should be adjusted (raised) in settings where altitude is >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. There is large variation in the altitudes in Nicaragua. The lowest elevation of a surveyed household was 10 meters and the highest elevation was 1,341 meters. Correction for elevation was applied to hemoglobin measurements taken over 1,000 meters.

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 9.4.2 indicates that 39 percent of children under age five in Nicaragua are anemic. Overall, the anemia prevalence is mostly mild to moderate, with 0.2 percent of children under five years presenting as severely anemic. Anemia prevalence is highest among children aged 0-5 months (71 percent) compared with the other children. More than half of all children aged 6-23 months, our targeted population for anemia intervention, were found to be anemic (54 percent). For all children under five years of age, male children are about as likely to be anemic as female children (both about 39 percent), and the difference is not statistically significant (P=0.64).



Table 9.4.2 Prevalence of anemia in children aged 0-59 month

		Weighted Anemia Prevalence					
Characteristic	teristic N						
Age in months							
0-5	134	0	70.6				
6-11	160	0.6	67.4				
12-23	298	0.3	46.9				
24-59	819	0	30				
0-59	1411	0.2	38.8				
6-23	458	0.4	53.9				
Sex							
Male	709	0.2	39				
Female	698	0.2	38.7				



CHAPTER 10: EXPOSURE TO HEALTH SYSTEM INTERVENTIONS

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

10.1 Exposure to Community Health Workers

Respondents were asked about their exposure to community health workers. Less than 2 percent of women reported meeting with a community health working in the month preceding the interview (Table 10.1.1).

Table 10.1.1 Exposure to community health workers

Percent distribution of women									
Characteristic	N	Weighted %	Weighted SE						
Met with a community health worker in the last month									
Yes	29	1.5	0.4						
No	1683	98.5	0.4						
DK/NR	1								
Missing	7								
Total	1720	100							
Number of times respondent met with the last month	a commun	ity health v	worker in						
Did not meet	1683	98.5	0.4						
One time	20	1	0.4						
Two times	6	0.3	0.1						
Three times	2	0.1	0.1						
Four or more times	1	0.1	0.1						
DK/NR	1								
Missing	7								
Total	1720	100							

Referral and advice services provided by community health workers are summarized in Table 10.1.2. Among women who met with a community health worker in the last month, advice about family planning and contraception was the most frequently reported (79 percent). Advice about child nutrition (55 percent) and child vaccination (51 percent) were also frequently reported.



Table 10.1.2 Services provided by community health workers

Percent distribution of women who met with a community health worker in the last month			
Referral for prenatal care	.,	,.	
Yes	13	35.4	9.9
No	16	64.6	9.9
DK/NR	0	04.0	3.3
Missing	0		
Total	29	100	
Referral for in-facility delivery	23	100	
Yes	9	27	9.4
No	20	73	9.4
DK/NR	0	73	J
Missing	0		
Total	29	100	
Referral for postnatal care	23	100	
Yes	10	28.8	9.2
No	19	71.2	9.2
DK/NR	0	7 1.2	3.2
Missing	0		
Total	29	100	
Referral for voluntary counseling			ion of
HIV/syphilis transmission from r	_	ne prevent	.1011 01
Yes	9	26.6	8.9
No	20	73.4	8.9
DK/NR	0	7511	0.5
Missing	0		
Total	29	100	
Advice about family planning an		100	
Yes	23	78.9	9
No	6	21.1	9
DK/NR	0		
Missing	0		
Total	29	100	
Child vaccination	23	130	
Yes	19	50.6	13.6
No	10	49.4	13.6
DK/NR	0	13.7	15.0
Missing	0		
Total	29	100	



Percent distribution of women who met with a community health							
worker in the last month							
		Weighted	Weighted				
Type of service	N	%	SE				
Advice about child nutrition							
Yes	21	55.3	13.8				
No	8	44.7	13.8				
DK/NR	0						
Missing	0						
Total	29	100					
Information, education, and communica	ation sessi	ons					
Yes	11	34.2	11				
No	18	65.8	11				
DK/NR	0						
Missing	0						
Total	29	100					
Other							
Yes	8	26.9	9.7				
No	21	73.1	9.7				
DK/NR	0						
Missing	0						
Total	29	100					



10.2 Exposure to Breastfeeding Interventions

Respondents were asked about their exposure to breastfeeding interventions. Approximately 26 percent of women reported receiving guidance or advice about breastfeeding in the 12 months preceding the interview (Table 10.4.1).

10.3 Exposure to Child Nutrition Interventions

Respondents were asked about their exposure to child nutrition interventions. Approximately 24 percent of women reported receiving guidance or advice about child nutrition in the 12 months preceding the interview (Table 10.4.1).

10.4 Exposure to Child Health Interventions

Respondents were asked about their exposure to child health interventions. Approximately 25 percent of women reported receiving guidance or advice about danger signs for children's health in the 12 months preceding the interview (Table 10.4.1).

Table 10.4.1 Exposure to breastfeeding, child nutrition, and child health interventions

Percent distribution among women with children under 5							
		Weighted	Weighted				
Characteristic	N	%	SE				
Received guidance or advice about breastfeeding in the last 12							
months							
Yes	286	25.8	2				
No	869	72.5	2				
DK/NR	1						
Missing	7						
Total	1163	100					
Received guidance or advice about child	d nutrition	in the last	12				
months							
Yes	267	23.8	1.8				
No	888	74.5	1.8				
DK/NR	1						
Missing	7						
Total	1163	100					
Received guidance or advice about dang	ger signs fo	or children	's health				
in the last 12 months							
Yes	272	24.6	1.9				
No	883	73.7	1.9				
DK/NR	1						
Missing	7						
Total	1163	100					



Most of women receiving guidance or advice about breastfeeding (97 percent), child nutrition (95 percent), or danger signs for children's health (95 percent) indicated that this occurred at a public hospital, public health unit, or public health center / clinic (Table 10.4.2). Less than one percent of women received guidance from a community health worker.

Table 10.4.2 Exposure to child health interventions, by source

Percentage of women with children under 5 who received guidance or advice about breastfeeding, child nutrition and danger signs for children's health in the last 12 months, and among them, the percentage of women with guidance or advice from specific sources

	Intervention type			
	Breast-	Child		
Characteristic	feeding	nutrition	health	
Received guidance or advice about interventions for				
children's health in the last 12 months (%)	26.3	24.2	25	
Number of women	1164	1164	1164	
Source of advice (%)				
Public hospital	31.2	27.7	26.7	
Public health unit	48.5	48.4	50.8	
Public health center/clinic	17	19.2	17.7	
Public mobile clinic	0	0	0.4	
Other public health center	0.4	0.5	0.5	
Private hospital	1.3	0.9	0.8	
Private health center/clinic	2.3	2.2	2.4	
Private office	1.2	0.9	0.5	
Private mobile clinic	0	0	0	
Other private health center	0.3	0.3	0.3	
Pharmacy	0	0	0	
Community health worker	0.5	0	0	
Traditional healer	0	0	0	
Other	0.6	0.9	1.3	
DK/NR, missing	0	0	0	
Number of women	286	267	272	

10.5 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 received from community health workers, knowledge and training of community health workers, information provided by community health workers, and respectfulness of community health workers. Results are displayed in Table 10.5.



Table 10.5 Satisfaction with community health workers

Percent distribution of women who met with a community health worker in the last month by level of satisfaction in different fields

	Level of satisfaction					
	Very dis-	s- Dis- Very				
Field of satisfaction	satisfied	satisfied	Satisfied	satisfied	Total	
Number of visits received from community health workers	2.5	4.2	80.6	12.7	:	100
Knowledge and training of community health workers	2.6	4.3	83.4	9.8	:	100
Information provided by community health workers	5.6	2.1	76.9	15.4	:	100
Respectfulness shown by community health workers	5.6	2.1	82.8	9.5		100



CHAPTER 11: NEONATAL, INFANT, AND CHILD MORTALITY

This chapter summarizes estimates of neonatal, infant, and child mortality within the target area for the initiative in Nicaragua. The complete birth histories of women of reproductive age (15-49 years) captured in the SM2015-Nicaragua Baseline Household Survey provided the requisite data necessary to calculate probability of death using direct methods: date of birth of children, their survival status, and the dates of death or ages at death of deceased children. For the sake of comparison, at the end of this chapter national-level estimates of neonatal, infant, and child mortality in Nicaragua, produced by IHME are included.

11.1 Neonatal Mortality

Neonatal mortality is defined as the number of deaths during the first 28 completed days of life per 1,000 live births in a given year or period. Figure 11.1 displays the weighted point estimates and 95% confidence intervals for neonatal mortality in the intervention areas of the initiative during all 5-year periods preceding the survey for which data were reported.

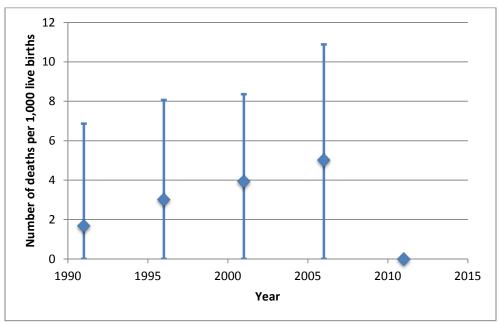


Figure 11.1 Neonatal mortality estimated from complete birth history data obtained from the SM2015-Nicaragua Baseline Household Survey, 2013

11.2 Infant Mortality

Infant mortality is defined as the number of deaths during the first year of life per 1,000 live births in a given year or period. Figure 11.2 displays the weighted point estimates and 95% confidence intervals for infant mortality in the intervention areas of the initiative during all 5-year periods preceding the survey for which data were reported.

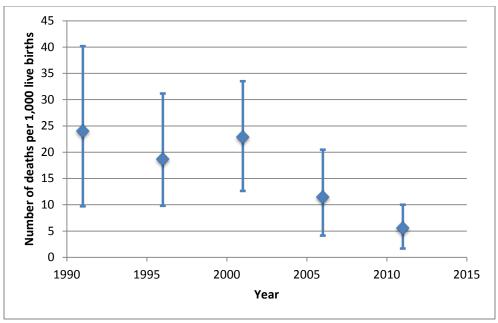


Figure 11.2 Infant mortality estimated from complete birth history data obtained from the SM2015-Nicaragua Baseline Household Survey, 2013

11.3 Mortality in Children Under Five Years of Age

Mortality in children under five years of age is defined as the number of deaths during the first five years of life per 1,000 live births in a given year or period. Figure 11.3 displays the weighted point estimates and 95% confidence intervals for under-five child mortality in the intervention areas of the initiative during all 5-year periods preceding the survey for which data were reported.

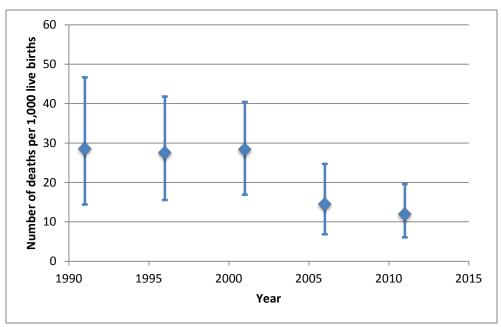


Figure 11.3 Mortality in children under five years of age estimated from complete birth history data obtained from the SM2015-Nicaragua Baseline Household Survey, 2013



A summary of the most recent five year period estimates for neonatal, infant, and under-five child mortality in the target area based on complete birth history data from the SM2015 Household Survey is shown in Table 11.3a.

Table 11.3a Mortality in children under 5 years of age in the target area of the initiative

Based on complete birth history data from the five years preceding						
the interview, among study areas, Mexico 2013						
Deaths per 1,000						
Child mortality indicator	live births	95% CI				
Neonatal mortality	0.0	(0.0-0.0)				
Infant mortality	5.6	(1.7-10.0)				
Under-5 mortality	12.0	(6.1-19.6)				

The estimates produced from the complete birth histories displayed above are compared to the IHME-generated time series of national-level estimates in Table 11.3b.

Table 11.3b Mortality in children under 5 years of age at the national-level

Table 11.3b Mortality in children under 5 years of age at the national-level						
Based on IHME-generated tim	ne series, Global Burd	len of Disease				
	Deaths per 1,000					
Child mortality indicator	live births	95% CI				
Neonatal mortality						
2007	12.0	(9.5-14.5)				
2008	12.3	(9.9-14.6)				
2009	12.7	(10.4-15.0)				
2010	13.1	(10.9-15.4)				
2011	13.5	(11.3-15.7)				
Infant mortality						
2007	21.5	(17.4-26.1)				
2008	22.1	(18.0-26.6)				
2009	23.1	(19.1-27.2)				
2010	24.1	(20.3-28.1)				
2011	25.2	(21.8-28.7)				
Under-5 mortality						
2007	25.8	(21.0-31.4)				
2008	26.6	(21.9-31.8)				
2009	27.8	(23.2-32.9)				
2010	29.0	(24.8-33.6)				
2011	30.3	(26.6-34.2)				

To calculate the IHME-generated time series for mortality in children younger than five years of age, data were derived from a range of sources, including vital registration systems, sample registration systems, summary birth histories in censuses and surveys, and complete birth histories. We compiled a database of measurements for 187 countries (excluding those countries with populations of less than 50,000) from 1970 to 2011.



For each country, we generated a time series of estimates of under-5 mortality by synthesizing the empirical data estimates with an analytical technique called Gaussian process regression (GPR). Details of the implementation of this technique can be found in: Rajaratnam JK et al. Neonatal, postneonatal, childhood, and under-5 mortality for 187 countries, 1970—2010: a systematic analysis of progress towards Millennium Development Goal 4. *Lancet*. 2010;375:1988-2008. A subsequent update to the 2010 publication, including updated data, methods, and new estimates from 1990 to 2011 can be found in: Lozano R, Wang H, Foreman KJ, Rajaratnam JK, Naghavi M, Marcus JR, Dwyer-Lindgren L, Lofgren KT, Phillips D, Atkinson C, Lopez AD, Murray CJL. Progress towards Millennium Development Goals 4 and 5 on maternal and child mortality: an updated systematic analysis. *The Lancet*. 2011; 378:1139-1165 and in Wang H*, Dwyer-Lindgren L, Lofgren KT, Rajaratnam JK, Marcus JR, Levin-Rector A, Levitz C, Lopez AD, Murray CJL. Age-specific and sex-specific mortality in 187 countries, 1970–2010: a systematic analysis for the Global Burden of Disease Study 2010. *The Lancet*. 2012; 380: 2071–2094.

Briefly, we applied Loess regression of the log of under-5 mortality in a country as a function of time and an indicator variable for measurements from vital registration data to allow for underregistration of child deaths. This predicted series was then updated by the data within each country by use of GPR. Our GPR model has better out-of-sample predictive validity than do previous methods for measuring child mortality and captures uncertainty caused by sampling and non-sampling error across data types. We computed yearly rates of change in under-5 mortality and examined rates over time for each country.

We divided the estimates of under-5 mortality generated by GPR into estimates of neonatal (the probability of death before age 1 month), postneonatal (the probability of death before age 1 year conditional on surviving to age 1 month), and childhood (the probability of death from age 1 year to age 5 years conditional on surviving to age 1 year) risks of death by use of a two-step modeling process in which we first predicted sex-specific under-5 mortality and then predicted the sex-specific neonatal, postneonatal, and childhood risks of death.

To compute aggregate numbers of deaths, we combined estimates of neonatal and postneonatal mortality to obtain an estimate of the infant mortality rate. We obtained deaths in infants younger than 1 year by applying the infant mortality rate (the probability of death from birth to age 1 year) to the number of births in the current and previous years. We used a similar method to estimate deaths in children aged between 1 year and 5 years. Deaths in children younger than 5 years were the sum of deaths in infants younger than 1 year and deaths in children aged between 1 year and 5 years.



APPENDIX A. SAMPLING DESIGN AND METHODOLOGY

A.1 Sample Size and Statistical Power Calculations

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

Please note that the sample size and statistical power calculations described in this Appendix are for the comparison of baseline and follow-up percentages of indicators in the treatment population. The power calculations do not pertain to control group comparisons.

A.1.1 Sample sizes

Using the 2005 Nicaragua Population Census for reference, we assumed that among the 1,714 households there would be there would be 517 children under 2 years, 1,320 children under 5 years, 2,023 women aged 15-49 years, and 388 women aged 15-49 years with live births in the last 2 years. This sample size is necessary to attain 80% power, with an alpha value of 0.05, to detect a change from 50% to 59% in the indicator proportion of women delivering in a health facility with a skilled attendant in the last two years. The indicator definition and baseline value are in accordance with the payment indicator matrix provided by IDB. Of the payment indicators relying on the household survey, the skilled institutional delivery indicator is the most restrictive and hence, drives the sample size. We sampled an additional 10%, or 1,886 total households, to account for non-response.

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 63 randomly selected segments in intervention areas (28 segments in control areas). More specifically, we drew a sample of 30 randomly-selected households with age-eligible children as residents and 10 randomly-selected backup households with age-eligible women as residents. To do so, listings of all households with age-eligible women or children were assembled in random-order for each segment. Naturally, there was a substantial degree of overlap between houses listed on the "woman-resident" list and houses listed on the "child-resident" list. Interviewers sought to interview the 30 households with children first. In some cases, selected households were absent or declined to participate in the SM2015 Household Survey. These households were replaced by other households from the backup list of households with age-eligible women from the same segment. When selected households were visited, the survey was applied to all present and eligible women and children. Because multiple interviewers worked the sample simultaneously, in a handful of instances more than 30 surveys were completed. This occurred in 10 segments in intervention areas and 11 segments in control areas, where between 31 and 36 households completed surveys.

As previously explained, data collection was carried out in 1,300 households (43 segments) in intervention areas and 771 households (25 segments) in control areas due to safety concerns and an early termination of data collection. 5 municipalities in intervention areas and 1 municipality in control areas were not visited at all. Tables 1.2.1 and 1.2.7 in chapter 1 summarize these differences. We compared the characteristics of visited and not visited areas, finding no major differences between them (Table A.1.1), suggesting that there is no significant bias introduced due to this adjustment. We also recalculated power estimates for the evaluation indicators, showing that with the attained sample we have enough power for this evaluation.



Table A.1.1 Comparison of characteristics for households visited and not visited

	Households	Households
	visited	not visited
Percent of households with electricity	0	0
Percent of households with improved wall type	90.2	86.2
Percent of living structures that are improvised	0.6	0.1
Poverty index	68.7	73.1
Percent of population aged 1-5 years	12.5	12.9
Percent of population aged 15-49 years	23.6	23.0
Average distance to nearest health facility	5.6	7.1
Coverage of 4 antenatal care visits	50.4	61.0
Coverage of institutional delivery	55	49.4
Institutional births per 1000 inhabitants	17.2	16.2

A.1.2 Prior levels of indicators

Where possible, we used IHME's estimates of the national levels of indicator coverage in 2010, multiplied by 0.9, to obtain estimates of coverage and prevalence among the poorest 20% of the population. Where these data were not available, and for the malnutrition indicators, we used the 2008 estimates of coverage and prevalence among the poorest 20% of the population provided to us by IDB.

A.1.3 Statistical power calculation

All calculations were done using the "sampsi" command in Stata version 12.1. Calculations assumed a two-tailed two-sample proportions test with an alpha level of 0.05 corresponding to a 95% confidence interval, and a beta level of 0.20 corresponding to an 80% power level.

A.2 Sampling Procedures

In total, 19 municipalities were identified by IDB as the "target area" for the initiative, and 4 municipalities were identified as control areas. Clusters (segments) were randomly-selected from a list of all segments within the targeted municipalities, with probability proportional to size, where size was represented by the number of occupied households within the segment, based on data from the 2005 National Population Census. 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. Additional information about the selection of eligible households is described in Section A.1.1 "Sample sizes".

In this section, we describe the random sampling procedures for selecting the segments from the target area that were surveyed. An alternate 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 Primary sample

The primary sample of 63 intervention and 28 control clusters (segments) were randomly-selected from a total of 1,174 intervention segments in 19 municipalities and 281 control segments in 4 municipalities which, based on data from the 2005 National Population Census, contained 137,829 and 32,992 occupied households respectively. As stated previously, segments were selected in each study arm with probability proportional to size, as follows:

We put the segments in a random order and generated a variable representing the cumulative number of households by that segment. We divided the total number of households by the number of segments we meant to sample, to obtain an interval length " Δ " (2188 in intervention areas; 1178 in control areas). 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 first segment whose cumulative number of households was greater than $\Sigma + (n-1)^*\Delta$.



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

B.1 Weighting Methodology

As previously described, cluster sampling was performed using the segment as the primary sampling unit. There were 43 intervention segments and 25 control segments interviewed. Design weights for households, women and children were generated 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

$$p(selecting\ Segment\ X) = \frac{\#\ occupied\ households\ in\ Segment\ X\ in\ 2005}{Total\ \#\ occupied\ households\ in\ target\ municipalities\ in\ 2005}*\#\ draws$$

and the number of draws corresponds to the number of originally designated segments in the corresponding study arm (63 for intervention areas and 28 in control areas), and the total number of occupied households in target municipalities in 2005 corresponds to 137,829 households in the intervention arm and 32,992 households in the control arm, and

if the household includes children under five according to the SM2015 census:

```
p(selecting\ household\ Y\ in\ segment\ X) = \frac{\#\ households\ with\ age-eligible\ children\ interviewed\ for\ SM2015\ in\ segment\ X}{\#\ occupied\ households\ with\ age-eligible\ children\ in\ Segment\ X\ from\ SM2015\ census}
```

or if the household does not include children under five according to the SM2015 census:

```
p(selecting\ household\ Y\ in\ segment\ X) = \frac{\#\ households\ with\ eligible\ women\ but\ no\ eligible\ children\ interviewed\ for\ SM2015\ in\ segment\ X}{\#\ occupied\ households\ with\ age\ -\ eligible\ women\ but\ no\ children\ in\ Segment\ X\ from\ SM2015\ 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\ SM2015\ census} *p(selecting\ Woman\ Z\ in\ household\ Y)
```

where the average number of women 15-49 years old per household in the sample was 1.4309946 in intervention areas and 1.5568627 in control areas (according to the SM2015 Household Census), and

if the household includes children under five according to the SM2015 census:

```
p(selecting\ Household\ Y\ in\ Segment\ X) = \frac{\#\ households\ with\ eligible\ children\ completing\ women'shealth\ survey\ for\ SM2015\ in\ Segment\ X}{\#\ occupied\ households\ with\ age-eligible\ children\ in\ Segment\ X\ from\ SM2015\ census},
```

or if the household does not include children under five according to the SM2015 census:



```
p(selecting\ Household\ Y\ in\ Segment\ X) = \frac{\#\ household\ with\ eligible\ women\ but\ not\ children\ completing\ women'shealth\ survey\ for\ SM2015\ in\ Segment\ X}{\#\ occupied\ household\ with\ age\ -\ eligible\ women\ but\ not\ children\ in\ Segment\ X\ from\ SM2015\ census}, and p(selecting\ Woman\ Z\ in\ Household\ Y) = \frac{\#\ women\ in\ Household\ Y\ completing\ the\ survey}{\#\ women\ 15\ -\ 49\ years\ old\ residing\ in\ Household\ Y\ from\ SM2015\ 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 1.0956052 in intervention areas and 1.0993464 in control areas (according to the SM2015 Household Census), and

```
p(selecting\ Household\ Y\ in\ Segment\ X)\\ = \frac{\#\ households\ completing\ children'\ shealth\ survey\ for\ SM2015\ in\ Segment\ X}{\#\ occupied\ households\ with\ age\ -\ eligible\ children\ in\ Segment\ X\ from\ SM2015\ census'} and p(selecting\ Child\ W\ in\ Household\ Y)\\ = \frac{\#\ children\ in\ Household\ Y\ completing\ the\ survey}{\#\ children\ 0\ -\ 59\ months\ residing\ in\ Household\ Y\ from\ SM2015\ 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 ultimately selected from each of 43 clusters (segments) in intervention areas and 25 clusters in control areas (though 63 and 28 segments were originally designated, respectively) which had been randomly-sampled with probability proportional to size from the target intervention and control areas of the initiative which consisted of 1174 and 281 segments respectively. 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 account for this intra-class correlation, using Taylor-linearized variance estimation. Standard errors for key indicators being assessed as part of the SM2015 initiative are summarized in Table B, below.

B.3 Design Effects for Key Indicators

As described above, cluster-sampling yields a sample of observations that are not completely independent of one another. The effective sample size is therefore reduced because there is less variation in the selected sample than in a simple random sample. The design effect represents the impact of cluster-sampling on the effective sample size, expressed as the ratio of the actual variance observed to the variance computed under the assumption of simple random sampling, given the sample size obtained. For a DEFF of 2.0, based on data from 2,023 women, we would conclude that the observed sample variance is twice as large as it would be if we had selected 2,023 women completely at random from the target area.



In other words, under simple random sampling, we would only need half as many women (1,012) in order to produce the same results. The design effect (DEFF) is calculated as follows:

DEFF = $1 + \delta$ (n – 1), where δ = intra-class correlation and n = average size of the cluster

Design effects, therefore, increase as the intra-class correlation increases and as the size of the clusters increases. Because the intra-class correlation depends on the characteristic being assessed, the design effects vary across the range of indicators assessed in this survey.

Another measure that can be used to assess design effects is the square root of DEFF (hereafter abbreviated as DEFT), which is, naturally, less variable than DEFF. The DEFT represents the increase in the standard error (and therefore, the confidence interval) that is associated with the use of cluster sampling rather than simple random sampling for a fixed sample size. For a DEFT of 2.0, the standard error would be twice as large, and the confidence interval would be twice as wide under cluster sampling as compared to a simple random sample of the same size.

For well-designed surveys, estimates of design effects should be in the range of 1.0 to 3.0. However, depending on the characteristic being assessed, design effects may be 10.0 or larger. Design effects for key indicators being assessed as part of the SM2015 initiative are summarized in Table B, below. As expected, most design effects were minimal.



Table B.1 Design effects, SM2015-Nicaragua Baseline Household Survey, 2013

-,	indicators		Mainhead I	Mainhead		
Number	Indicator	N	Weighted %	Weighted SE	DEFF	DEFT
	Niños 0-59 meses con esquema de vacunación completo para su edad, según el esquema oficial del	IN	76	JE.	DEFF	DEFI
5020		1411	40	2.1	5.5	2
040	Programa Nacional de Inmunización (PNI) Niños de 0 a 5 meses que fueron alimentados exclusivamente con leche materna el día anterior	134	59.5	3.1 5.6	1.8	2.
5040	·		39.3			
5030	Niños de 12 a 59 meses que recibieron 2 dosis de tratamiento antiparasitario en el último año	1117	32	1.3	0.8	0.
5060	Madres que dieron a sus niños de 0 a 59 meses SRO y zinc en el último episodio de diarrea en las	1.111	1.4	0.0	0.0	0
2040	últimas dos semanas	1411	1.4	0.8	0.9	0.
2010	Mujeres en edad reproductiva (15-49) que actualmente utilizan (o cuya pareja utiliza) un método					
	moderno de planificación familiar (mujeres sexualmente activas que no buscan embarazo, se					
	excluyen mujeres con menopausia, histerectomía, vírgenes, embarazadas o desean quedar	0.50				
	embarazadas).	963	81.6	1.8	2	1
4010	Mujeres en edad reproductiva (15-49) cuyo parto mas reciente fue realizado por personal calificado	045	0-	2.0	2.0	
	en una unidad de salud en los ultimos dos años	815	87	2.3	3.9	
4035	Mujeres en edad reproductiva (15-49) que recibieron cuidado de post-parto por personal calificado					
	dentro de las primeras 10 dias en su embarazo más reciente en los dos últimos años	815	59.5	2.9	2.3	1.
4105	Neonatos que recibieron atención neonatal por personal calificado en una unidad de salud dentro					
	de las 10 dias siguientes a su nacimiento durante los últimos dos años	815	78.2	2.9	3.1	1
	ment indicators, full sample					
1050	Niños de 0-59 meses con niveles de hemoglobina < 110 g/L	1411	38.8	1.9	1.9	1.
1060	Niños de 6-23 meses con niveles de hemoglobina < 110 g/L	458	53.9	2.9	1.5	1.
1070	Niños 0-59 meses con talla <-2 SD de la media de la población de referencia de longitud para edad					
		1411	13.3	1.4	2.2	1.
5025	Niños de 12 a 23 meses de edad con vacuna para Sarampión, Paperas y Rubeola (SPR)	298	70.9	3.8	2	1.
5070	Niños entre 6 y 23 meses cuyas madres informan haber consumido al menos 50 sobres de					
	micronutrientes en polvo durante los últimos 6 meses	458	0.2	0.2	1	
6030	Mujeres en edad reproductiva (15-49) que informan haber tenido un hijo enfermo (0-59 meses) en					
	las últimas dos semanas	1411	32.9	1.9	2.4	1.
6040	Mujeres en edad reproductiva (15-49) que informan haber tenido un hijo (0-59 meses) enfermo en					
	las últimas dos semanas pero que no buscaron atención de salud	467	1	0.5	1.2	1.
5010	Niños de 12 a 23 meses de edad con vacuna para Sarampión medida a través de DBS (seroconversión					
	positiva)					
1090	Número de nacimientos con vida por cada 1.000 mujeres de edades comprendidas entre los 15 -19					
	años, en un año dado	364	139.2	20.2	1.2	1.
2020	Mujeres en edad reproductiva (15-49) (mujeres sexualmente activas que no buscan embarazo, se					
	excluyen mujeres con menopausia, histerectomía, vírgenes, embarazadas o desean quedar					
	embarazadas) que no deseaban quedar embarazadas y que no estaban usando/no tenían acceso a					
	métodos de planificación familiar	963	18.4	1.8	2	1.
2030	Mujeres en edad reproductiva (15-49) (mujeres sexualmente activas que utillizaron el ano pasado un					
	metodo de PF, que no buscan embarazo, se excluyen mujeres con menopausia, histerectomía,					
	vírgenes, embarazadas o desean quedar embarazadas) que informan haber interrumpido el uso de					
	un método de planificación familiar durante el año anterior	854	3.9	0.9	2	1.
4110	Madres (15-49) que pueden reconocer al menos 5 signos de peligro en el recién nacido para su parto					
	más reciente en los dos últimos años	551	33.9	2.2	1.2	1.
6010	Mujeres en edad reproductiva (15-49) que informan haber sufrido alguna una enfermedad en las					
	últimas dos semanas	1720	22.7	1.7	2.8	1.
6080	Tiempo de viaje promedio hasta el centro de atención de salud más próximo durante la última visita					
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1720	34.5	3.1	12.5	3.
3010	Mujeres en edad reproductiva (15-49) que recibieron por lo menos a una atención prenatal por					
3010	personal calificado en su embarazo más reciente en los últimos dos años	815	95.1	0.9	1.5	1.
3020	Mujeres en edad reproductiva (15-49) que recibieron por lo menos 4 controles prenatales en su	013	33.1	0.5	2.0	
3020	embarazo más reciente por personal calificado en los últimos dos años	815	81.1	1.5	1.1	1.
4020	Mujeres en edad reproductiva (15-49) que recibieron cuidado de post-parto por personal calificado	013	01.1	1.3	1.1	1.
1020	dentro de las primeras 48 horas en su embarazo más reciente en los dos últimos años	815	48.7	2.8	2	1.
1030	Mujeres que recibieron cuidado de post-parto por personal calificado antes de los 7 dias despues de	013	40.7	2.0	2	1
1030		015	F7.0	2.0	2.2	1
1040	su parto mas reciente en los dos ultimos años	815	57.8	2.9	2.2	1
1040	Mujeres en edad reproductiva (15-49) que recibieron control postnatal dentro de las 24 horas					
	inmediatas al nacimiento, un control adicional antes de los 7 días y otro control antes de los 42 días					
	por personal calificado en unidad de salud cuyo parto mas reciente ocurrio en los dos ultimos anos					
		815	0.4	0.2	0.9	
5050	Niños nacidos en los últimos 24 meses que fueron puestos al seno materno durante la primera hora					
	después del parto	821	82.4	1.7	1.7	1
810	Mujeres (15-49 años) que durante su embarazo más reciente en los últimos dos años utilizaron la casa					
			44.0	17	2.4	1
	materna	815	11.2	1.7	2.4	1 2

N=Size of denominator; SE=Standard error; DEFF=Design effect; DEFT=Square root of design effect



APPENDIX C. SM2015 HOUSEHOLD INDICATORS

<u>Table C.1 Performance of payment and non-payment indicators among intervention areas, SM2015-Nicaragua</u> Baseline Household Survey, 2013

Weighted Weighted Number Indicator Ν SE 5020 Niños 0-59 meses con esquema de vacunación completo para su edad, según el esquema oficial del 1411 48 Programa Nacional de Inmunización (PNI) 3.1 Niños de 0 a 5 meses que fueron alimentados exclusivamente con leche materna el día anterior 59.5 5.6 134 5030 Niños de 12 a 59 meses que recibieron 2 dosis de tratamiento antiparasitario en el último año 1117 32 1.3 Madres que dieron a sus niños de 0 a 59 meses SRO y zinc en el último episodio de diarrea en las 5060 últimas dos semanas 1411 0.8 2010 Mujeres en edad reproductiva (15-49) que actualmente utilizan (o cuya pareja utiliza) un método moderno de planificación familiar (mujeres sexualmente activas que no buscan embarazo, se excluyen mujeres con menopausia, histerectomía, vírgenes, embarazadas o desean quedar 963 81.6 1.8 4010 Mujeres en edad reproductiva (15-49) cuyo parto mas reciente fue realizado por personal calificado en una unidad de salud en los ultimos dos años 815 87 2.3 4035 Mujeres en edad reproductiva (15-49) que recibieron cuidado de post-parto por personal calificado dentro de las primeras 10 dias en su embarazo más reciente en los dos últimos años 815 59.5 2.9 4105 Neonatos que recibieron atención neonatal por personal calificado en una unidad de salud dentro de las 10 dias siguientes a su nacimiento durante los últimos dos años 815 78 2 29 Non-payment indicators 38 R 1.9 1411 1050 Niños de 0-59 meses con niveles de hemoglobina < 110 g/L 1060 Niños de 6-23 meses con niveles de hemoglobina < 110 g/L 458 53.9 2.9 1070 Niños 0-59 meses con talla <-2 SD de la media de la población de referencia de longitud para edad 1411 13.3 1.4 5025 Niños de 12 a 23 meses de edad con vacuna para Sarampión, Paperas y Rubeola (SPR) 298 70.9 3.8 5070 Niños entre 6 y 23 meses cuyas madres informan haber consumido al menos 50 sobres de micronutrientes en polvo durante los últimos 6 meses 458 0.2 0.2 6030 Muieres en edad reproductiva (15-49) que informan haber tenido un hijo enfermo (0-59 meses) en las últimas dos semanas 1411 32.9 1.9 6040 Mujeres en edad reproductiva (15-49) que informan haber tenido un hijo (0-59 meses) enfermo en las últimas dos semanas pero que no buscaron atención de salud 467 0.5 5010 Niños de 12 a 23 meses de edad con vacuna para Sarampión medida a través de DBS (seroconversión positiva) 1090 Número de nacimientos con vida por cada 1.000 mujeres de edades comprendidas entre los 15-19 139.2 años, en un año dado 364 20.2 Mujeres en edad reproductiva (15-49) (mujeres sexualmente activas que no buscan embarazo, se 2020 excluyen mujeres con menopausia, histerectomía, vírgenes, embarazadas o desean quedar embarazadas) que no deseaban quedar embarazadas y que no estaban usando/no tenían acceso a métodos de planificación familiar 963 18.4 1.8 2030 Mujeres en edad reproductiva (15-49) (mujeres sexualmente activas que utillizaron el ano pasado un metodo de PF, que no buscan embarazo, se excluyen mujeres con menopausia, histerectomía, vírgenes, embarazadas o desean quedar embarazadas) que informan haber interrumpido el uso de un método de planificación familiar durante el año anterior 854 3.9 0.9 4110 Madres (15-49) que pueden reconocer al menos 5 signos de peligro en el recién nacido para su parto más reciente en los dos últimos años 551 33.9 2.2 6010 Mujeres en edad reproductiva (15-49) que informan haber sufrido alguna una enfermedad en las 22.7 últimas dos semanas 1720 17 6080 Tiempo de viaje promedio hasta el centro de atención de salud más próximo durante la última visita 1720 34.5 3.1 3010 Mujeres en edad reproductiva (15-49) que recibieron por lo menos a una atención prenatal por personal calificado en su embarazo más reciente en los últimos dos años 815 95.1 0.9 3020 Mujeres en edad reproductiva (15-49) que recibieron por lo menos 4 controles prenatales en su embarazo más reciente por personal calificado en los últimos dos años 815 81.1 1.5 4020 Mujeres en edad reproductiva (15-49) que recibieron cuidado de post-parto por personal calificado dentro de las primeras 48 horas en su embarazo más reciente en los dos últimos años 815 48.7 2.8 4030 Mujeres que recibieron cuidado de post-parto por personal calificado antes de los 7 dias despues de 815 57.8 su parto mas reciente en los dos ultimos años 2.9 4040 Mujeres en edad reproductiva (15-49) que recibieron control postnatal dentro de las 24 horas inmediatas al nacimiento, un control adicional antes de los 7 días y otro control antes de los 42 días por personal calificado en unidad de salud cuyo parto mas reciente ocurrio en los dos ultimos anos 815 0.4 0.2 5050 Niños nacidos en los últimos 24 meses que fueron puestos al seno materno durante la primera hora 821 82.4 6810 Muieres (15-49 años) que durante su embarazo más reciente en los últimos dos años utilizaron la casa materna 815 11.2 1.7 6100 Monto promedio del gasto familiar el mes pasado 1300 4205.9 343.9



Table C.2 Performance of payment and non-payment indicators overall (intervention and control areas),

SM2015-Nicaragua Baseline Household Survey, 2013

· ayment	indicators		Weighted	Weighted
Number	Indicator	N	%	SE
5020	Niños 0-59 meses con esquema de vacunación completo para su edad, según el esquema oficial del			
	Programa Nacional de Inmunización (PNI)	2236	49.9	2.6
5040	Niños de 0 a 5 meses que fueron alimentados exclusivamente con leche materna el día anterior	220	55.6	4.6
5030	Niños de 12 a 59 meses que recibieron 2 dosis de tratamiento antiparasitario en el último año	1775	32.6	1.1
5060	Madres que dieron a sus niños de 0 a 59 meses SRO y zinc en el último episodio de diarrea en las			
	últimas dos semanas	2236	2.4	0.8
2010	Mujeres en edad reproductiva (15-49) que actualmente utilizan (o cuya pareja utiliza) un método			
	moderno de planificación familiar (mujeres sexualmente activas que no buscan embarazo, se			
	excluyen mujeres con menopausia, histerectomía, vírgenes, embarazadas o desean quedar			
	embarazadas).	1558	83.6	1.4
4010	Mujeres en edad reproductiva (15-49) cuyo parto mas reciente fue realizado por personal calificado			
	en una unidad de salud en los ultimos dos años 1323		87.9	1.9
4035	Mujeres en edad reproductiva (15-49) que recibieron cuidado de post-parto por personal calificado			
	dentro de las primeras 10 dias en su embarazo más reciente en los dos últimos años	1323	62.8	2.5
4105	Neonatos que recibieron atención neonatal por personal calificado en una unidad de salud dentro			
	de las 10 dias siguientes a su nacimiento durante los últimos dos años	1323	76.8	2.4
Non-payn	nent indicators			
1050	Niños de 0-59 meses con niveles de hemoglobina < 110 g/L	2236	40.5	1.9
1060	Niños de 6-23 meses con niveles de hemoglobina < 110 g/L	716		
1070	Niños 0-59 meses con talla < -2 SD de la media de la población de referencia de longitud para edad			
	g	2236	14	1.1
5025	Niños de 12 a 23 meses de edad con vacuna para Sarampión, Paperas y Rubeola (SPR)	475		
5070	Niños entre 6 y 23 meses cuyas madres informan haber consumido al menos 50 sobres de	.,,	75.5	512
3070	micronutrientes en polvo durante los últimos 6 meses	716	0.4	0.3
6030	Mujeres en edad reproductiva (15-49) que informan haber tenido un hijo enfermo (0-59 meses) en	710	0.4	0.5
0030	las últimas dos semanas	2236	32.5	1.6
6040	Mujeres en edad reproductiva (15-49) que informan haber tenido un hijo (0-59 meses) enfermo en	2230	32.3	1.0
0040	las últimas dos semanas pero que no buscaron atención de salud	719	0.9	0.4
5010	Niños de 12 a 23 meses de edad con vacuna para Sarampión medida a través de DBS (seroconversión	713	0.9	0.4
3010	positiva)			
1090	Número de nacimientos con vida por cada 1.000 mujeres de edades comprendidas entre los 15 -19			
1030	años, en un año dado	579	123	10.0
2020	Mujeres en edad reproductiva (15-49) (mujeres sexualmente activas que no buscan embarazo, se	3/9	123	15.5
2020				
	excluyen mujeres con menopausia, histerectomía, vírgenes, embarazadas o desean quedar			
	embarazadas) que no deseaban quedar embarazadas y que no estaban usando/no tenían acceso a	1550	16.4	1 1
2030	métodos de planificación familiar	1558	16.4	1.4
2030	Mujeres en edad reproductiva (15-49) (mujeres sexualmente activas que utilizaron el ano pasado un			
	metodo de PF, que no buscan embarazo, se excluyen mujeres con menopausia, histerectomía,			
	vírgenes, embarazadas o desean quedar embarazadas) que informan haber interrumpido el uso de	4 447		
4440	un método de planificación familiar durante el año anterior	1417	4	0.8
4110	Madres (15-49) que pueden reconocer al menos 5 signos de peligro en el recién nacido para su parto	000	24.0	
	más reciente en los dos últimos años	869	31.9	1.9
6010	Mujeres en edad reproductiva (15-49) que informan haber sufrido alguna una enfermedad en las			
	últimas dos semanas	2823	24.7	1.6
6080	Tiempo de viaje promedio hasta el centro de atención de salud más próximo durante la última visita			
		2823	35.6	2.7
3010	Mujeres en edad reproductiva (15-49) que recibieron por lo menos a una atención prenatal por			
	personal calificado en su embarazo más reciente en los últimos dos años	1323	94.7	0.8
3020	Mujeres en edad reproductiva (15-49) que recibieron por lo menos 4 controles prenatales en su			
	embarazo más reciente por personal calificado en los últimos dos años	1323	80.6	1.5
4020	Mujeres en edad reproductiva (15-49) que recibieron cuidado de post-parto por personal calificado			
	dentro de las primeras 48 horas en su embarazo más reciente en los dos últimos años	1323	48.7	2.2
4030	Mujeres que recibieron cuidado de post-parto por personal calificado antes de los 7 dias despues de			
	su parto mas reciente en los dos ultimos años	1323	59.7	2.3
4040	Mujeres en edad reproductiva (15-49) que recibieron control postnatal dentro de las 24 horas			
	inmediatas al nacimiento, un control adicional antes de los 7 días y otro control antes de los 42 días			
	por personal calificado en unidad de salud cuyo parto mas reciente ocurrio en los dos ultimos anos			
		1323	1	0.3
5050	Niños nacidos en los últimos 24 meses que fueron puestos al seno materno durante la primera hora			
	después del parto	1333	81.7	1.5
6810	Mujeres (15-49 años) que durante su embarazo más reciente en los últimos dos años utilizaron la casa			
	materna	1323	11.6	1.5
6100	Monto promedio del gasto familiar el mes pasado	2081	4244.6	



Table C.3 Performance of payment and non-payment indicators among control areas, SM2015-Nicaragua Base-

D	line Household Survey, 2013						
Payment i	ndicators		Weighted	Maightad			
Number	Indicator	N	weighted %	SE			
5020	Niños 0-59 meses con esquema de vacunación completo para su edad, según el esquema oficial del						
	Programa Nacional de Inmunización (PNI)	825	56.8	2.9			
5040	Niños de 0 a 5 meses que fueron alimentados exclusivamente con leche materna el día anterior	86	42.7	6.2			
5030	Niños de 12 a 59 meses que recibieron 2 dosis de tratamiento antiparasitario en el último año	658	35	1.9			
5060	Madres que dieron a sus niños de 0 a 59 meses SRO y zinc en el último episodio de diarrea en las	025	_	2.2			
2010	últimas dos semanas	825	6	2.3			
2010	Mujeres en edad reproductiva (15-49) que actualmente utilizan (o cuya pareja utiliza) un método moderno de planificación familiar (mujeres sexualmente activas que no buscan embarazo, se						
	excluyen mujeres con menopausia, histerectomía, vírgenes, embarazadas o desean quedar						
	embarazadas).	595	88.9	1.5			
4010	Mujeres en edad reproductiva (15-49) cuyo parto mas reciente fue realizado por personal calificado						
	en una unidad de salud en los ultimos dos años	508	90.8	3.1			
4035	Mujeres en edad reproductiva (15-49) que recibieron cuidado de post-parto por personal calificado						
	dentro de las primeras 10 dias en su embarazo más reciente en los dos últimos años	508	73.6	2.7			
4105	Neonatos que recibieron atención neonatal por personal calificado en una unidad de salud dentro						
	de las 10 dias siguientes a su nacimiento durante los últimos dos años	508	71.8	3.6			
	nent indicators						
1050	Niños de 0-59 meses con niveles de hemoglobina < 110 g/L	825	46.4	5.3			
1060	Niños de 6-23 meses con niveles de hemoglobina < 110 g/L	258	58.2	6			
1070	Niños 0-59 meses con talla <-2 SD de la media de la población de referencia de longitud para edad	025	45.4	_			
F02F	Niños de 12 a 22 massa de adad ser usanza neve Carrenni (n. Danassa y Dykasia (CDD)	825	16.4	2.9			
5025 5070	Niños de 12 a 23 meses de edad con vacuna para Sarampión, Paperas y Rubeola (SPR) Niños entre 6 y 23 meses cuyas madres informan haber consumido al menos 50 sobres de	177	82.5	2.9			
3070	micronutrientes en polvo durante los últimos 6 meses	258	1.3	1			
6030	Mujeres en edad reproductiva (15-49) que informan haber tenido un hijo enfermo (0-59 meses) en	230	1.3				
0050	las últimas dos semanas	825	30.9	2.1			
6040	Mujeres en edad reproductiva (15-49) que informan haber tenido un hijo (0-59 meses) enfermo en	OL5	50.5				
	las últimas dos semanas pero que no buscaron atención de salud	252	0.7	0.5			
5010	Niños de 12 a 23 meses de edad con vacuna para Sarampión medida a través de DBS (seroconversión						
	positiva)						
1090	Número de nacimientos con vida por cada 1.000 mujeres de edades comprendidas entre los 15 -19						
	años, en un año dado	215	79.7	16.7			
2020	Mujeres en edad reproductiva (15-49) (mujeres sexualmente activas que no buscan embarazo, se						
	excluyen mujeres con menopausia, histerectomía, vírgenes, embarazadas o desean quedar						
	embarazadas) que no deseaban quedar embarazadas y que no estaban usando/no tenían acceso a						
	métodos de planificación familiar	595	11.1	1.5			
2030	Mujeres en edad reproductiva (15-49) (mujeres sexualmente activas que utillizaron el ano pasado un						
	metodo de PF, que no buscan embarazo, se excluyen mujeres con menopausia, histerectomía,						
	vírgenes, embarazadas o desean quedar embarazadas) que informan haber interrumpido el uso de un método de planificación familiar durante el año anterior	563	4.2	1.4			
4110	Madres (15-49) que pueden reconocer al menos 5 signos de peligro en el recién nacido para su parto	303	4.2	1.4			
4110	más reciente en los dos últimos años	318	24.9	2.5			
6010	Mujeres en edad reproductiva (15-49) que informan haber sufrido alguna una enfermedad en las	510	2.113	2.0			
	últimas dos semanas	1103	29.7	3.3			
6080	Tiempo de viaje promedio hasta el centro de atención de salud más próximo durante la última visita						
		1103	38.5	5.1			
3010	Mujeres en edad reproductiva (15-49) que recibieron por lo menos a una atención prenatal por						
	personal calificado en su embarazo más reciente en los últimos dos años	508	93.2	1.4			
3020	Mujeres en edad reproductiva (15-49) que recibieron por lo menos 4 controles prenatales en su						
	embarazo más reciente por personal calificado en los últimos dos años	508	79	3.9			
4020	Mujeres en edad reproductiva (15-49) que recibieron cuidado de post-parto por personal calificado						
	dentro de las primeras 48 horas en su embarazo más reciente en los dos últimos años	508	48.7	2.4			
4030	Mujeres que recibieron cuidado de post-parto por personal calificado antes de los 7 dias despues de						
	su parto mas reciente en los dos ultimos años	508	66	2.5			
4040	Mujeres en edad reproductiva (15-49) que recibieron control postnatal dentro de las 24 horas						
	inmediatas al nacimiento, un control adicional antes de los 7 días y otro control antes de los 42 días						
	por personal calificado en unidad de salud cuyo parto mas reciente ocurrio en los dos ultimos anos	508	2.8	0.9			
5050	Niños nacidos en los últimos 24 meses que fueron puestos al seno materno durante la primera hora	308	2.8	0.9			
3030	después del parto	512	79.5	2.5			
6810	Mujeres (15-49 años) que durante su embarazo más reciente en los últimos dos años utilizaron la casa	312	75.5	2.3			
	, z. zz (zz .z .z .z .z do) que darante su embarazo mas redente en los attimos dos anos attitzaton la casa						
0010	materna	508	13	3.3			



APPENDIX D. CHARACTERISTICS OF RESPONDENTS OVERALL (IN INTERVENTION AND CONTROL SEGMENTS)

Table D.2.3.1 Household composition: age and sex

Percent distribution of the de facto household population by five-year age groups based on the household roster completed as part of the SM2015 Household Survey

riouseriora sa	,		
Age	Male (%)	Female (%)	Total (%)
<5	12.1	11.6	11.9
5-9	11.8	11.3	11.6
10-14	12.6	12.2	12.4
15-19	12	11.9	11.9
20-24	11	10.4	10.7
25-29	8	8.4	8.2
30-34	7.5	7.6	7.5
35-39	5.6	5.8	5.7
40-44	4.7	4.9	4.8
45-49	3.7	4.1	3.9
50-54	3.3	3.4	3.4
55-59	2.3	2.5	2.4
60-64	1.8	1.8	1.8
65-69	1.1	1.4	1.3
70-74	1	1.1	1
75-79	0.7	0.8	0.8
80+	0.8	1	0.9
Total	100	100	100
N	20144	21120	41264



Table D.2.3.2 Household composition

Number of households, women and chil	ldren; and p	ercent dist	tribution				
of households by sex of head of the hou	isehold, nur	mber of usi	ual				
members, and marital status of members 15+							
Household characteristic	N	%	SE				
Number of households	2071						
Number of women	2823						
Number of children	2225						
Sex of the head of the household							
Male	1479	71.4	1				
Female	592	28.6	1				
DK/DTR	0						
Missing	0						
Total	2071	100					
Number of usual members							
1	2	0.1	0.1				
2	52	2.5	0.3				
3	379	18.3	0.8				
4	420	20.3	0.9				
5	388	18.7	0.9				
6	279	13.5	0.8				
7	213	10.3	0.7				
8	136	6.6	0.5				
9+	202	9.8	0.7				
DK/DTR	0						
Missing	0						
Total	2071	100					
Marital status of members of the housel	hold						
Single	2113	32.4	0.6				
Married	1960	30.1	0.6				
Open union / partnered	2116	32.5	0.6				
Widow / divorced / separated	325	5	0.3				
Other	1	0	0				
DK/DTR	3						
Missing	0						
Total	6518	100					



Table D.2.4.1a Household characteristics: water source

Percent distribution of households by s	ource of di	rinking wat	ter,
location of water source and round trip	time to ob		
		Weighted	Weighted
Household characteristic	N	%	SE
Source of drinking water			
Pipes that lead to the house	1044	46.2	4.2
Pipes that lead to the patio/yard	300	15.8	2.3
Public pump	37	1.9	0.5
Tube or drilled well	65	3.7	0.9
Protected dug well	234	13.5	2.5
Unprotected dug well	153	7.5	1.2
Protected spring	72	3.5	0.7
Unprotected spring	55	2.6	0.6
Rainwater	19	1.5	0.9
Water tank truck	0	0	
Car with a small tank	0	0	
Surface water	30	1.4	0.4
Bottled water	13	0.9	0.5
Water jug	7	0.4	0.2
Other	28	1.2	0.3
DK/DTR	0		
Missing	14		
Total	2071	100	
Location of water source			
In own house/home	1155	53.4	3.7
In own patio/yard	458	25.5	2.5
Elsewhere	444	21.2	2.2
DK/DTR	0		
Missing	14		
Total	2071	100	
Time to obtain drinking water (round tri	ip)		
Water on premesis	1601	79.7	2.3
Less than 30 minutes	380	18.4	2
30 minutes or longer	47	1.9	0.4
DK/DTR	0		
Missing	43		
Total	2071	100	



Table D.2.4.1b Household characteristics: sanitation

Percent distribution of households by s	anitation f	acility type	and if
the facility is shared			
		Weighted	Weighted
Household characteristic	N	%	SE
Sanitation facility			
Flushing toilet	334	13	2.1
Toilet with water poured from gourds	41	2	0.3
Latrine / pit toilet	1429	73.1	2.2
Dry toilet	6	0.3	0.1
No toilet, bushes, field	239	11.2	1.6
Other	8	0.3	0.1
DK/DTR	0		
Missing	14		
Total	2071	100	
Shared toilet/facilities, among househo	olds using a	ny type of	toilet
Yes	250	15.3	1.4
No	1559	84.7	1.4
DK/DTR	1		
Missing	0		
Total	1810	100	



Table D.2.4.2 Household characteristics: cooking fuel

Percent distribution of households by cooking fuel source and the											
location for cooking food; and percenta	ge of hous	eholds wit	th a								
separate kitchen											
		Weighted	Weighted								
Household characteristic	N	%	SE								
Cooking fuel source (the respondent was to select all sources that											
applied)											
Electricity	37	2.1	0.5								
Gas tank	610	32.3	4.9								
Coal	36	2.7	1								
Wood	1694	80	4.1								
Straw/twigs/grass	35	2	0.4								
Agricultural crops	18	1.1	0.3								
No food is cooked at home	2	0.2	0.1								
Other	1	0.1	0.1								
DK/DTR	0										
Missing	14										
Total	2071										
Location for cooking food, among those	who repo	rted a cool	king fuel								
source											
In the house	1465	70.2	1.9								
In a separate building	521	26.7	1.9								
Outside	66	3	0.5								
Other	2	0.1	0								
DK/DTR	0										
Missing	1										
Total	2055	100									
Separate kitchen, among those who rep	orted a co	oking fuel	source								
and cook in the home											
Yes	1105	73.3	1.9								
No	359	26.7	1.9								
DK/DTR	1										
Missing	0										
Total	1465	100									



Table D.2.4.3a Availability of assets: household effects

Percent distrib				fic household e	ffects						
Household				Household		Weighted	Weighted				
characteristic	N	%	SE	characteristic	N	%	SE				
Electricity				Refrigerator							
Yes	1542	75.8	3.3	Yes	497	23.4	2.2				
No	514	24.2	3.3	No	1559	76.6	2.2				
DK/DTR	1			DK/DTR	1						
Missing	14			Missing	14						
Total	2071	100		Total	2071	100					
Radio				Computer							
Yes	1390	67.3	1.5	Yes	139	5.6	1.2				
No	666	32.7	1.5	No	1917	94.4	1.2				
DK/DTR	1			DK/DTR	1						
Missing	14			Missing	14						
Total	2071	100		Total	2071	100					
Television				Wristwatch							
Yes	1176	56.9	3.1	Yes	689	33.1	1.2				
No	880	43.1	3.1	No	1367	66.9	1.2				
DK/DTR	1			DK/DTR	1						
Missing	14			Missing	14						
Total	2071	100		Total	2071	100					
Cell phone				Guitar							
Yes	1411	68	2.3	Yes	81	3.3	0.4				
No	645	32	2.3	No	1975	96.7	0.4				
DK/DTR	1			DK/DTR	1						
Missing	14			Missing	14						
Total	2071	100		Total	2071	100					
Telephone (lan	idline)										
Yes	57	1.7	0.5								
No	1997	98.3	0.5								
DK/DTR	3										
Missing	14										
Total	2071	100									



Table D.2.4.3b Availability of assets: means of transportation

Percentage of households with s			
		Weighted	_
Household characteristic	N	%	SE
Bicycle			
Yes	556	26.1	2
No	1500	73.9	2
DK/DTR	1		
Missing	14		
Total	2071	100	
Motorcycle / scooter			
Yes	242	10.5	1
No	1814	89.5	1
DK/DTR	1		
Missing	14		
Total	2071	100	
Animal-driven cart			
Yes	17	0.6	0.2
No	2039	99.4	0.2
DK/DTR	1		
Missing	14		
Total	2071	100	
Car			
Yes	90	3.4	0.6
No	1966	96.6	0.6
DK/DTR	1		
Missing	14		
Total	2071	100	
Truck			
Yes	14	0.6	0.2
No	2042	99.4	0.2
DK/DTR	1		
Missing	14		
Total	2071	100	



Table D.2.4.3c Availability of assets: other assets

Percentage distribution of number of rooms used for sleeping,
and percentage of households with ownership of bank
account, agricultural land and animals

account, agricultural land and animals												
		Weighted	Weighted									
Household characteristic	N	%	SE									
Rooms used for sleeping												
Zero	34	1.6	0.4									
One	927	45.1	2									
Two	702	34.7	1.3									
Three or more	394	18.5	1.6									
DK/DTR	0											
Missing	14											
Total	2071	100										
Ownership of bank account												
Yes	123	5.5	0.9									
No	1931	94.5	0.9									
DK/DTR	3											
Missing	14											
Total	2071	100										
Ownership of agricultural land												
Yes, own	482	22.6	2									
Yes, rent	173	8.2	1.2									
Yes, share/community share	80	3.8	0.7									
No	1317	65.4	3.2									
DK/DTR	5											
Missing	14											
Total	2071	100										
Ownership of animals (bull or co	w, mule, g	oat, chicke	n, or pig)									
Yes	1250	58.8	3.8									
No	806	41.2	3.8									
DK/DTR	1											
Missing	14											
Total	2071	100										



Table D.2.5.1a Total household expenditures per person

Percent distribution of households by monthly total expenditure												
per person												
Weighted Weight												
Characteristic	N	%	SE									
Monthly expenditure per person (córdobas)												
Less than C\$200	185	8.4	0.9									
C\$200 - <400	460	21.5	1.6									
C\$400 - <600	398	20.1	1.1									
C\$600 - <800	284	14	0.8									
C\$800 - <1000	183	8.9	0.8									
C\$1000+	546	27.1	2.6									
Missing	15											
Total	2071	100										



Table D.2.5.1b Household expenditures by type

Percent distrib	ution of ho				proportio	n of total l	nousehold	monthly expend	diture		
Expenditure		Weighted	Weighted	Expenditure		Weighted	Weighted	Expenditure		Weighted	Weighted
category	N	%	SE	category	N	%	SE	category	N	%	SE
Food				Housing, gas, e	lectricity,	and water		Transportation			
0%	32	1.7	0.3	0%	540	25.2	3.3	0%	1149	57.2	1.7
0.1% - 9%	9	0.3	0.1	0.1% - 9%	940	45.3	2.6	0.1% - 9%	619	30.1	1.4
10% - 24%	51	2.2	0.4	10% - 24%	428	23	3.1	10% - 24%	222	10.1	0.8
25% - 49%	325	14.8	1	25% - 49%	99	4.9	0.9	25% - 49%	44	2.2	0.4
50% - 74%	647	32.8	1.5	50% - 74%	19	0.9	0.3	50% - 74%	6	0.3	0.1
75% - 89%	555	27.8	1.3	75% - 89%	5	0.2	0.1	75% - 89%	2	0.1	0
≥90%	399	20.3	1.8	≥90%	12	0.4	0.1	≥90%	1	0	0
DK/DTR	37			DK/DTR	10			DK/DTR	8		
Missing	16			Missing	18			Missing	20		
Total	2071	100		Total	2071	100		Total	2071	100	
Alcoholic beve	Icoholic beverages, tobacco, and narcotic				ootwear			Communication	า		
0%	1702	83.8	1.1	0%	1409	68.9	1.7	0%	1055	53.7	2.1
0.1% - 9%	207	10.5	0.9	0.1% - 9%	192	9.6	1	0.1% - 9%	879	41.5	2
10% - 24%	102	4.7	0.5	10% - 24%	270	12.9	0.8	10% - 24%	94	4.3	0.4
25% - 49%	21	0.9	0.2	25% - 49%	141	7.2	0.7	25% - 49%	9	0.4	0.1
50% - 74%	4	0.1	0.1	50% - 74%	26	1.4	0.3	50% - 74%	1	0	0
75% - 89%	0	0		75% - 89%	0	0		75% - 89%	0	0	
≥90%	0	0		≥90%	3	0.1	0.1	≥90%	2	0.1	0.1
DK/DTR	14			DK/DTR	9			DK/DTR	11		
Missing	21			Missing	21			Missing	20		
Total	2071	100		Total	2071	100		Total	2071	100	
				Furniture, hou	sehold equ	uipment ar	d routine				
Education tuiti	on, fees ar	nd school s	upplies	household mai	intenance			Recreation, cult	ture, resta	urants and	l hotels
0%	788	39.7	1.6	0%	1896	93.8	0.6	0%	1918	96	0.6
0.1% - 9%	961	48.2	1.8	0.1% - 9%	92	4.2	0.5	0.1% - 9%	102	3.8	0.6
10% - 24%	212	9.3	0.9	10% - 24%	34	1.3	0.3	10% - 24%	6	0.2	0.1
25% - 49%	44	2	0.3	25% - 49%	14	0.5	0.2	25% - 49%	2	0.1	0.1
50% - 74%	7	0.4	0.2	50% - 74%	4	0.1	0.1	50% - 74%	0	0	
75% - 89%	2	0.1	0.1	75% - 89%	0	0		75% - 89%	0	0	
≥90%	5	0.3	0.1	≥90%	0	0		≥90%	0	0	
DK/DTR	31			DK/DTR	9			DK/DTR	21		
Missing	21			Missing	22			Missing	22		
Total	2071	100		Total	2071	100		Total	2071	100	



Table D.2.5.1c Household health care expenditures by type

Percent distrib				e expenditures	by type, as	a proporti	on of				
total househol											
Expenditure		Weighted	Weighted	Expenditure		Weighted	Weighted				
category	N	%	SE	category	N	%	SE				
Out-of-pocket	health care	9		Private insurance premiums							
0%	1546	77.1	1.5	0%	2042	99.8	0.1				
0.1% - 9%	260	12.3	1.2	0.1% - 9%	5	0.2	0.1				
10% - 24%	159	6.6	0.7	10% - 24%	0	0					
25% - 49%	69	3.3	0.5	25% - 49%	0	0					
50% - 74%	13	0.6	0.2	50% - 74%	0	0					
75% - 89%	1	0.1	0.1	75% - 89%	0	0					
≥90%	0	0		≥90%	0	0					
DK/DTR	2			DK/DTR	3						
Missing	21			Missing	21						
Total	2071	100		Total	2071	100					
				Other costs associated with accessing health							
Social security	premiums			care							
0%	1930	95	0.9	0%	2036	99.7	0.1				
0.1% - 9%	86	3.7	0.7	0.1% - 9%	10	0.3	0.1				
10% - 24%	24	1.2	0.3	10% - 24%	0	0					
25% - 49%	3	0.1	0	25% - 49%	1	0	0				
50% - 74%	0	0		50% - 74%	0	0					
75% - 89%	0	0		75% - 89%	0	0					
≥90%	0	0		≥90%	0	0					
DK/DTR	8			DK/DTR	3						
Missing	20			Missing	21						
Total	2071	100		Total	2071	100					



Table D.2.5.2 Household medical expenditures by type

<u>Table D.2.5.</u>	<u> 2 House</u>	hold me	dical ex	<u>penditures l</u>	oy type										
Percent distrib	ution of ho	ousehold h	ealth expe	enditures by typ	e of care a	s a propor	ion of tota	al household m	onthly heal	th expend	liture, amo	ong households	with any re	eported ou	t-of-
pocket health o	are expen														
Expenditure		Weighted	Weighted	Expenditure		Weighted	Weighted	Expenditure		Weighted	Weighted	Expenditure		Weighted	Weighted
category	N	%	SE	category	N	%	SE	category	N	%	SE	category	N	%	SE
Care that requi	red overni	ght stay in	a	Care by tradition	onal or alte	rnative he	alers, or	Care by pharm	acists or me	edications	bought	Diagnostic and	laboratory	tests such	as X-rays
hospital or hea	Ith facility			traditional birt	h attendan	ts		from a pharma	cy without	a prescrip	tion	or blood tests			
0%	479	95.4	1.4	0%	501	99.2	0.5	0%	300	62.1	2.4	0%	436	90	1.6
0.1% - 9%	2	0.6		0.1% - 9%	0	0		0.1% - 9%	20	3.4	0.8	0.1% - 9%	4	0.6	0.3
10% - 24%	2	0.2	0.1	10% - 24%	0	0		10% - 24%	27	3.9	0.9	10% - 24%	22	3.3	0.8
25% - 49%	3	0.3	0.2	25% - 49%	1	0.4	0.4	25% - 49%	22	3.6	0.9	25% - 49%	15	2.3	0.7
50% - 74%	3	0.8	0.5	50% - 74%	0	0		50% - 74%	12	2.3	0.7	50% - 74%	2	0.2	0.1
75% - 89%	1	0.1	0.1	75% - 89%	0	0		75% - 89%	2	0.4	0.3	75% - 89%	2	0.2	0.1
≥90%	13	2.5	1	≥90%	1	0.4	0.4	≥90%	118	24.2	2.3	≥90%	22	3.4	0.8
DK/DTR	0			DK/DTR	0			DK/DTR	3			DK/DTR	0		
Missing	1			Missing	1			Missing	0			Missing	1		
Total	504	100		Total	504	100		Total	504	100		Total	504	100	
Other costs ass	ociated wi	th staying	overnight					Health care pro	oducts such	prescripti	on				
in a hospital or	health fac	ility		Dentists				glasses, hearin	g aids, pros	sthetic dev	ices, etc.	Other health c	are produc	ts or servic	es
0%	488	96.8	1.1	0%	479	95.9	0.9	0%	486	97.7	0.6	0%	494	98.6	0.7
0.1% - 9%	5	0.9	0.5	0.1% - 9%	0	0		0.1% - 9%	0	0		0.1% - 9%	1	0.2	0.2
10% - 24%	2	0.5	0.4	10% - 24%	2	0.8	0.6	10% - 24%	1	0.1	0.1	10% - 24%	3	0.5	0.3
25% - 49%	1	0.5	0.5	25% - 49%	6	1	0.4	25% - 49%	1	0.1	0.1	25% - 49%	1	0.1	0.1
50% - 74%	1	0.1	0.1	50% - 74%	2	0.3	0.2	50% - 74%	6	0.8	0.4	50% - 74%	0	0	
75% - 89%	0	0		75% - 89%	0	0		75% - 89%	1	0.2	0.2	75% - 89%	0	0	
≥90%	6	1.2	0.5	≥90%	14	1.9	0.6	≥90%	8	1	0.4	≥90%	4	0.6	0.4
DK/DTR	0			DK/DTR	0			DK/DTR	0			DK/DTR	0		
Missing	1			Missing	1			Missing	1			Missing	1		
Total	504	100		Total	504	100		Total	504	100		Total	504	100	
Care by doctors	s, nurses, c	r other he	alth												
workers that di	d not requ	ire overni	ght stay	Medications pr	escribed b	y health p	ersonnel								
0%	480	96.6	0.8	0%	253	52.6	3								
0.1% - 9%	2	0.2	0.2	0.1% - 9%	5	1.2	0.5								
10% - 24%	6	1.1	0.5	10% - 24%	9	1.6	0.6								
25% - 49%	8	1	0.4	25% - 49%	33	5	1								
50% - 74%	1	0.3	0.3	50% - 74%	29	4.7	0.9								
75% - 89%	2	0.3	0.2	75% - 89%	8	1.6	0.7								Ì
≥90%	4	0.4	0.2	≥90%	166	33.4	2.9								ĺ
DK/DTR	0			DK/DTR	0										
Missing	1			Missing	1										ĺ
Total	504	100		Total	504	100									ĺ



Table D.2.5.3 Household medical expenditures by source of financing

Percent distrib	oution of ho	useholds	by source	of medical exp	enditures a	s a percen	tage of rep	orted total ho	usehold me	dical expe	nditures fo	or overnight ho	ospital stays	in the last	12	
months, amon	g those hou	useholds w	vith overni	ght hospital st	ays											
Financing		Weighted	Weighted	Financing		Weighted	Weighted	Financing		Weighted	Weighted	Financing		Weighted	Weighted	
source	N	%	SE	source	N	%	SE	source	N	%	SE	source	N	%	SE	
Any of the hou	isehold me	mbers' cur	rent	Health insura	nce plan pa	yment or										
income reimbursement							Property sold				Political dona	tions or gra	nts			
0%	93	44.1	4	0%	224	100		0%	221	98.7	0.8	0%	223	99.8	0.2	
0.1% - 9%	0	0		0.1% - 9%	0	0		0.1% - 9%	0	0		0.1% - 9%	0	0		
10% - 24%	1	0.3	0.3	10% - 24%	0	0		10% - 24%	0	0		10% - 24%	0	0		
25% - 49%	8	3.2	1.2	25% - 49%	0	0		25% - 49%	0	0		25% - 49%	0	0		
50% - 74%	8	2.9	1	50% - 74%	0	0		50% - 74%	0	0		50% - 74%	0	0		
75% - 89%	1	0.7	0.7	75% - 89%	0	0		75% - 89%	0	0		75% - 89%	0	0		
≥90%	113	48.8	4.1	≥90%	0	0		≥90%	3	1.3	0.8	≥90%	1	0.2	0.2	
DK/DTR	0			DK/DTR	0			DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			Missing	0			Missing	0			
Total	224	100		Total	224	100		Total	224	100		Total	224	100		
				Items sold (e.	g., furniture	e, animals,	or	Money from r	elatives or f	riends wh	o do not					
Savings (e.g. b	ank accoun	t)		jewelry)				belong to the				Another source				
0%	193	85.2	2.6	0%	211	93.4	2	0%	194	85.8	2.5	0%	213	95.8	1.6	
0.1% - 9%	1	0.2	0.2	0.1% - 9%	0	0		0.1% - 9%	0	0		0.1% - 9%	0	0		
10% - 24%	0	0		10% - 24%	0	0		10% - 24%	0	0		10% - 24%	0	0		
25% - 49%	3	1.3	0.8	25% - 49%	1	0.7	0.7	25% - 49%	3	0.7	0.5	25% - 49%	1	0.3	0.3	
50% - 74%	3	0.9	0.5	50% - 74%	2	1		50% - 74%	9	4.2	1.4	50% - 74%	0	0		
75% - 89%	0	0		75% - 89%	0	0		75% - 89%	0	0		75% - 89%	0	0		
≥90%	24	12.5	2.6	≥90%	10	4.9	1.5	≥90%	18	9.3	2.1	≥90%	10	3.9	1.5	
DK/DTR	0			DK/DTR	0			DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			Missing	0			Missing	0			
Total	224	100		Total	224	100		Total	224	100		Total	224	100		
				Money Ioane	from some	eone who	is not a	Remittances f	rom family	members o	or friends					
Reducing othe	r househol	d spending	g	friend of the f				abroad	•							
0%	211	95	1.8	0%	200	88.6	2.2	0%	217	97.6	1.1					
0.1% - 9%	0	0		0.1% - 9%	0			0.1% - 9%	0	0						
10% - 24%	0	0		10% - 24%	0	0		10% - 24%	0	0						
25% - 49%	2	0.5		25% - 49%	2	0.6	0.4	25% - 49%	0	0						
50% - 74%	0	0		50% - 74%	2			50% - 74%	1	0.2	0.2					
75% - 89%	1	0.3		75% - 89%	0			75% - 89%	0	0						
≥90%	10	4.2		≥90%	20	-		≥90%	6	2.2	1					
DK/DTR	0			DK/DTR	0			DK/DTR	0		_					
Missing	0			Missing	0			Missing	0							
Total	224	100		Total	224			Total	224	100						



Table D.3.1.1 Demographic characteristics of respondents

Percent distribution of the household			ital
status and respondent's relationship to the head of the household			
Background characteristic	N	%	SE
Age		·	
15-19 years	583	20.7	0.8
20-24 years	671	23.8	0.8
25-29 years	507	18	0.7
30-34 years	405	14.3	0.7
35-39 years	281	10	0.6
40-44 years	202	7.2	0.5
45-49 years	174	6.2	0.5
Missing	0		
Total	2823	100	
Marital status			
Single	874	31	0.9
Married	802	28.4	0.8
Open union / partnered	1023	36.2	0.9
Divorced	6	0.2	0.1
Separated	94	3.3	0.3
Widowed	23	0.8	0.2
Other	0	0	
DK/DTR	1	0	0
Missing	0		
Total	2823	100	
Respondent's relationship to the hea	d of househol	d	
Head of the household	338	12	0.6
Spouse	630	22.3	0.8
Biological child	741	26.2	0.8
Adopted / step child	38	1.3	0.2
Grandchild	67	2.4	0.3
Niece / nephew	34	1.2	0.2
Mother / father	5	0.2	0.1
Sister / brother	44	1.6	0.2
Daughter-in-law / son-in-law	211	7.5	0.5
Sister-in-law / brother-in-law	19	0.7	0.2
Grandparent	0	0	
Mother-in-law / father-in-law	1	0	0
Other relative	6	0.2	0.1
Non-relative	55	1.9	0.3
Life partner	625	22.1	0.8
Other	9	0.3	0.1
Missing	0		
Total	2823	100	



Table D.3.1.2 Department and municipality of residence of respondents

Municipality	No. of women
Bocana de Paiwas	85
El Cua	115
Jinotega	592
Matiguás	122
Mulukuku	81
Prinzapolka	36
Puerto Cabezas	327
Rancho Grande	87
Rosita	35
San Juan Río Coco	268
San Sebastián de Yali	114
Santa Maria de Pantasma	156
Telpaneca	243
Terrabona	33
Tuma - La Dalia	411
Wiwili	118
Ocotepec	42



Table D.3.2.1 Educational attainment and literacy

Percentage of women age 15-49 who attended school; percentage of women who attended a literacy course; percent distribution by highest level of education attended, among those who attended school; and literacy of women

school, and increey of women		Weighted	Weighted
Education characteristic	N	%	SE
Education			
Attended school	2458	86.2	1.5
Did not attend school	350	13.8	1.5
DK/DTR	2		
Missing	13		
Total	2823	100	
Literacy course			
Attended literacy course	283	10.1	1.1
Did not attend literacy course	2527	89.9	1.1
DK/DTR	0		
Missing	13		
Total	2823	100	
Highest level of education, among thos	e who atte	nded scho	ol
Primary	1196	46.6	3.3
Secondary	833	35.5	1.6
Middle or high school	54	2.1	0.4
University	306	13.1	2
Technical school	67	2.6	0.6
DK/DTR	2		
Missing	0		
Total	2458	100	
Literacy			
Cannot read at all	299	10.8	1.3
Able to read parts of sentence	369	13.2	1.2
Able to read whole sentence	2121	75.4	1.9
Blind or visually impaired	15	0.6	0.2
DK/DTR	6		
Missing	13		
Total	2823	100	



Table D.3.3 Employment

Percent distribution of women age 15-49 by employment status and			
role			
		Weighted	Weighted
Employment characteristic	N	%	SE
Employment status			
Employed and being paid for work	360	13.3	1.4
Employed but did not work in the last w	7	0.3	0.2
Employed by a family member without	9	0.3	0.1
Student	272	12.3	1.4
Homemaker	2025	68.5	2.5
Retired	2	0	0
Unable to work due to disability	9	0.4	0.2
DK/DTR	116	4.6	0.9
Missing	9	0.2	0.1
Total	1		
Occupational role, among women employed and being paid for work			
Employee	344	94.8	1.9
Employer	6	1.8	1
Owner	2	0.5	0.5
Self-employed	8	2.8	1.4
DK/DTR	0		
Missing	0		
Total	360	100	



Table D.3.4.1 Exposure to mass media

Percent distribution of women by expo	sure to ne	wspapers,	radio and
television; percentage exposed to all th	nree forms	of media a	nd to any
form of media at least once a week			
Characteristic	N	Weighted %	Weighted SE
Newspapers, among fully or partially lit	terate won	nen	
≥1 time per week	1153	47.8	2.3
<1 time per week	353	13.6	1.2
Never	977	38.5	2
Not applicable	3	0.1	0
DK/DTR	4		
Missing	0		
Total	2490	100	
Radio			
≥1 time per week	2076	73.9	1.9
<1 time per week	243	8.1	0.9
Never	465	17.2	1.7
Not applicable	25	0.8	0.3
DK/DTR	1		
Missing	13		
Total	2823	100	
Television			
≥1 time per week	1718	65.3	2.7
<1 time per week	188	6.8	0.8
Not applicable	814	25.1	2.6
Never	82	2.8	0.9
DK/DTR	8		
Missing	13		
Total	2823	100	
Exposed to all three forms of media at l	east once	per week,	among
fully or partially literate women			
Yes	704	31.2	2.4
No	1744	67.3	2.4
Not applicable	38	1.5	0.5
DK/DTR	4		
Missing	0		
Total	2490	100	
Exposed to any form of media at least of	nce per we	eek	
Yes	704	28.4	2.3
No	1960	69.5	2.3
Not applicable	53	2	0.7
DK/DTR	5		
Missing	101		
Total	2823	100	



Table D.3.5.1a Proximity to health care facilities: nearest health facility

Percent distribution of women according to distance and travel time							
to health care facility closest to household							
	Weighted	Weighted					
Distance and time	N	%	SE				
Distance							
<1 km	352	15.9	2.4				
1 to <5 km	1386	54.1	3.2				
5 to <10 km	438	17.1	2.5				
≥10 km	353	13	2.4				
DK/DTR	281						
Missing	13						
Total	2823	100					
Travel time							
<15 min	671	25.7	3.6				
15 to <30 min	718	26.5	2.6				
30 to <45 min	505	19.4	2				
45 to <60 min	77	3.1	0.7				
≥60 min	735	25.2	3.2				
DK/DTR	16						
Missing	101						
Total	2823	100					

Table D.3.5.1b Proximity to health care facilities: usual health facility

Percent distribution of women according to distance and travel time							
to health care facility that the head of household usually attends							
Weighted We							
Distance and time	N	%	SE				
Distance							
<1 km	301	13.4	2.1				
1 to <5 km	1301	54.7	3.3				
5 to <10 km	397	16.5	2.5				
≥10 km	388	15.4	2.6				
DK/DTR	265						
Missing	0						
Total	2652	100					
Travel time							
<15 min	616	23	3.3				
15 to <30 min	687	26.8	2.8				
30 to <45 min	492	19.8	2				
45 to <60 min	82	3.5	0.7				
≥60 min	763	26.9	3.3				
DK/DTR	6						
Missing	6						
Total	2652	100					



Table D.3.5.1c Proximity to health care facilities: health facility for delivery

Percent distribution of women according to distance and travel time
to health care facility attended for most recent delivery in the last
two years

		Weighted	Weighted
Distance and time	N	%	SE
Distance			
<1 km	24	3.5	1.2
1 to <5 km	252	36.2	5.5
5 to <10 km	78	10.7	1.7
≥10 km	396	49.6	5.7
DK/DTR	213		
Missing	0		
Total	963	100	
Travel time			
<15 min	141	18.4	3.2
15 to <30 min	111	11.3	1.4
30 to <45 min	69	7.1	1.2
45 to <60 min	16	1.6	0.7
≥60 min	612	61.6	3.8
DK/DTR	14		
Missing	0		
Total	963	100	

Table D.3.5.1d Proximity to health care facilities: health facility for recent illness

Percent distribution of women according to distance and travel time to health care facility attended for respondent's recent illness or child's recent illness

ciliu 3 lecelit illile33			
Distance and time	N	Weighted %	Weighted SE
Distance and time	IN	70	3E
Distance			
<1 km	255	11.7	1.7
1 to <5 km	1200	54.4	3.3
5 to <10 km	361	15.5	2.4
≥10 km	448	18.4	2.5
DK/DTR	279		
Missing	0		
Total	2543	100	
Travel time			
<15 min	556	21.3	2.9
15 to <30 min	624	25.5	2.6
30 to <45 min	464	19.8	1.9
45 to <60 min	70	3	0.6
≥60 min	814	30.4	3.4
DK/DTR	7		
Missing	8		
Total	2543	100	



Table D.3.6.1 Current health status

Percent distribution of women age 15-49 by self-rated current health status relative to the health status last year and percentage who can easily perform daily activities

		Weighted	Weighted
Characteristic	N	%	SE
Current health relative to health last ye	ar		
Better	1106	42.4	1.5
Worse	324	9.8	0.7
About the same	1376	47.8	1.3
DK/DTR	4		
Missing	13		
Total	2823	100	
Ability to perform daily activities			
Easily	2317	83.6	1.2
With some difficulty	437	14.8	1
With much difficulty	50	1.5	0.4
Unable to do	5	0.1	0.1
DK/DTR	1		
Missing	13		
Total	2823	100	



Table D.3.6.2 Recent illness

Percentage of women age 15-49 who were sick in the last two weeks; and among those who were sick, percent distribution by type of recent illness

Characteristic Respondent was sick during the past two	N	Weighted %	Weighted			
	N	0/				
Respondent was sick during the past two		/0	SE			
Respondent was sick during the past two weeks						
Yes	742	24.7	1.6			
No	2066	75.3	1.6			
DK/DTR	2					
Missing	13					
Total	2823	100				
Type of illness, among those sick in the p	past two w	reeks				
Fever	71	10.1	1.9			
Malaria	1	0.1	0.1			
Cough / chest infection	57	5.8	1.1			
Tuberculosis	0	0				
Asthma	9	1.7	0.9			
Bronchitis	2	0.2	0.2			
Pneumonia	1	0.1	0.1			
Diarrhea without blood	3	0.3	0.2			
Diarrhea with blood	1	0.1	0.1			
Diarrhea with vomiting	2	0.3	0.2			
Vomiting	4	1.3	0.9			
Abdominal pain	66	9.3	1.9			
Anemia	0	0				
Skin rash / infection	5	0.4	0.2			
Eye / ear infection	7	0.8	0.3			
Measles	0	0				
Jaundice	1	0.1	0.1			
Headache	174	23.6	2.4			
Toothache	17	1.4	0.4			
Stroke	0	0				
Hypertension	18	5	1.7			
Diabetes	2	1.3	1			
HIV/AIDS	0	0				
Paralysis	1	0.1	0.1			
Gynecologic problems	24	3.1	0.9			
Obstetric problems	1	0.1	0.1			
Other	274	34.7	3.1			
DK/DTR	1	J	0.1			
Missing	0					
Total	742	100				



Table D.3.6.3 Utilization of health services

Among women who reported sick in the last two weeks, percentage of women who sought care for the illness; and among women who sought care, percent distribution by timing of care-seeking after onset of illness

of illness			
		_	Weighted
Characteristic	N	%	SE
Sought care for recent illness			
Yes	305	43.8	3.2
No	437	56.2	3.2
DK/DTR	0		
Missing	0		
Total	742	100	
Type of health facility where care was s	ought		
Public hospital	85	32.3	5.8
Public health unit	101	27.3	4.2
Public health center / clinic	80	27.6	4.9
Public mobile clinic	1	0.4	0.4
Other public health facility	0	0	
Private hospital	1	0.4	0.4
Private health center / clinic	13	3.3	1.3
Private office	14	4.9	2.5
Private mobile clinic	0	0	
Other private health facility	2	0.4	0.3
Pharmacy	2	0.5	0.3
Community health worker	0	0	
Traditional healer	0	0	
Other	6	2.9	2.1
DK/DTR	0		
Missing	0		
Total	305	100	
Admitted to hospital for care, among w	omen who	sought car	re at a
public or private: hospital, health cente	r / clinic, n	nobile clini	c, or
other health facility; public health unit;			
Yes	17	7.2	3
No	282	92.8	3
DK/DTR	0		
Missing	0		
Total	299	100	



Table D.3.6.4 Insurance coverage

Percentage distribution of insurance status among all women, women
who reported sick in the last two weeks, and women who reported
sick in the last two weeks but did not seek care

sick in the last two weeks but did not seek care Weighted Weight							
Insurance status	N	weighteu %	SE				
Insurance among all women							
MINSA	0	0					
INSS	151	6.5	1.3				
Government / military	5	0.1	0.1				
Private insurance	0	0					
Other	0	0					
None	2651	93.4	1.3				
DK/DTR	3						
Missing	13						
Total	2823	100					
Insurance among women who were sid	k in the pas	st two wee	ks				
MINSA	0	0					
INSS	54	7.8	1.7				
Government / military	1	0.1	0.1				
Private insurance	0	0					
Other	0	0					
None	686	92	1.7				
DK/DTR	1						
Missing	0						
Total	742	100					
Insurance among women who were sic	k in the pas	st two wee	ks but did				
not seek care							
MINSA	0	0					
INSS	31	9.8	2.7				
Government / military	1	0.2	0.2				
Private insurance	0	0					
Other	0	0					
None	404	90	2.7				
DK/DTR	1						
Missing	0						
Total	437	100					



Table D.3.6.5 Other barriers to health care utilization

Darsontoss of war				wi a wa ka la t- -	::::::-			
Percentage of wor		•				n, among a	mong	
women who repo	rted being				eek care			
Reason for not				Reason for not		Weighted	_	
seeking care	N	%	SE	seeking care	N	%	SE	
Not sick enough to seek treatment			The health center	_		_		
Yes	57	16		Yes	6	0.9	0.3	
No	380	84	3	No	431	99.1	0.3	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	437	100		Total	437	100		
Treated self at ho	me			Do not trust the st	taff			
Yes	150	42.2	4.1	Yes	9	3.3	1.7	
No	287	57.8	4.1	No	428	96.7	1.7	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	437	100		Total	437	100		
Care is too expens	sive			Was previously mistreaded				
Yes	25	4	0.9	Yes	14	2.6	0.8	
No	412	96	0.9	No	423	97.4	0.8	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	437	100		Total	437	100		
Health center is to	o far away			Tried, but was refused care				
Yes	21	5.7	2.2	Yes	14	3.5	1.2	
No	416	94.3		No	423	96.5	1.2	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	437	100		Total	437	100		
Could not find trai				Did not get permi				
Yes	12	1.9	0.5	Yes	3	0.4		
No	425	98.1		No	434	99.6		
DK/DTR	0	20,1	2.0	DK/DTR	0	33.0	5.0	
Missing	0			Missing	0			
Total	437	100		Total	437	100		
Could not afford t				Did not want to go				
Yes	45	8.5	23	Yes	5	0.8	0.4	
No	392	91.5		No	432	99.2		
DK/DTR	0	51.5	2.3	DK/DTR	0	المراد	0.4	
Missing	0			Missing	0			
Total	437	100		Total	437	100		
าบเสเ	437	100		IULdi	437	100		



Table D.3.6.5 continued

Reason for not		Weighted	Weighted	Reason for not		Weighted	Weighted
seeking care	N	%	SE	seeking care	N	%	SE
				Too busy with wo	rk, childrer	n, and othe	er
Did not know whe	re to go			commitments			
Yes	0	0		Yes	43	8.8	2.1
No	437	100		No	394	91.2	2.1
DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0		
Total	437	100		Total	437	100	
Health center infr	astructure	is poor		Religious / cultur	al beliefs		
Yes	5	1.1	0.6	Yes	3	0.5	0.3
No	432	98.9	0.6	No	434	99.5	0.3
DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0		
Total	437	100		Total	437	100	
Health center does not have enough drugs			No one present at the center when visited				
Yes	97	16.9	2.1	Yes	5	0.6	0.3
No	340	83.1	2.1	No	432	99.4	0.3
DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0		
Total	437	100		Total	437	100	
Health center is no	ot well equ	iipped		Other			
Yes	16	2.8	0.8	Yes	51	8.1	1.7
No	421	97.2	0.8	No	386	91.9	1.7
DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0		
Total	437	100		Total	437	100	
It is difficult to de	al with hea	lth center					
personnel							
Yes	23	5.9	1.9				
No	414	94.1	1.9				
DK/DTR	0						
Missing	0						
Total	437	100					



Table D.4.2.1 Parity and age at first birth

Percent of women age 15-49 who have ever given birth, their age at first birth, and the percent of women who have had a miscarriage, stillbirth, or abortion

stills it it, or asortion		Weighted	Weighted
Characteristic	N	%	SE
Ever given birth			
Yes	2290	74.4	1.3
No	520	25.6	1.3
DK/DTR	0		
Missing	13		
Total	2823	100	
Age at first birth, among parous women			
12-14 years	116	4.9	0.6
15-19 years	1446	64.9	1.9
20-24 years	590	24	1.8
25-29 years	112	5.5	0.8
30-34 years	17	0.5	0.1
35-39 years	3	0.1	0
40-44 years	0	0	
45-49 years	0	0	
DK/DTR	0		
Missing	6		
Total	2290	100	
Ever had a stillbirth, miscarriage, or abo	rtion		
Yes	261	9	1
No	2548	91	1
DK/DTR	1		
Missing	13		
Total	2823	100	



Table D.4.3.1 Intervals between births

Among women with two or more	ciliaren, percen	it distribut	ion by
duration of the birth intervals		18/ a ! a la ta a d	14/ - ! - - 4
Mean birth interval	N	Weighted %	Weighted SE
Among women with more than o		,.	
9-11 months	1	0.1	0.1
12-23 months	75	6.2	
24-35 months	322	26.1	2.:
36-47 months	330	21.2	1.4
48-59 months	277	15.7	1.4
≥60 months	483	30.7	
Missing	55	30.7	•
Total	1543	100	
Among women with two children		100	
9-11 months	1	0.2	0.2
12-23 months	34	7.2	1.9
24-35 months	75	19.2	3.1
36-47 months	66	11.7	1.7
48-59 months	72	11.7	1.
≥60 months	254	50	3.7
Missing Total	535	100	
		100	
Among women with three or fou 9-11 months		0	
	0	0	4
12-23 months	22	6.3	1.0
24-35 months	86	19.3	2.9
36-47 months	127	21	2.
48-59 months	151	20.6	2.!
≥60 months	209	32.7	2.0
Missing	12		
Total	607	100	
Among women with five or more		_	
9-11 months	0	0	
12-23 months	19	5	1
24-35 months	161	45.7	3.3
36-47 months	137	32.7	3.3
48-59 months	54	12.3	2.:
≥60 months	20	4.3	1.3
Missing	10		
Total	401	100	



Table D.4.4.1 Desire for more children

Among women with a pregnancy in the two years preceding the interview, percent distribution by desire of the most recent pregnancy in the last two years; and among all women, percentage who desire more children

Characteristic	N	Weighted %	Weighted SE				
Respondent desired their most recent pregnancy in the past two year							
Yes	754	68	1.6				
No, wanted to wait	267	24.5	1.7				
No, did not want (more) children	91	7.5	1				
DK/DTR	0						
Missing	26						
Total	1138	100					
Respondent desires current pregnancy							
Yes	53	69.4	8.8				
No, wanted to wait	24	23.6	6.5				
No, did not want (more) children	2	6.9	5.8				
DK/DTR	1						
Missing	0						
Total	80	100					



Table D.4.4.2 Ideal interval for most recent birth

Percent distribution of women with 2 or more children by ideal interval for most recent birth, according to the number of children									
Characteristic	N	Weighted %							
Among women with more than one ch	ild								
9-11 months	0	0							
12-23 months	29	3.2	0.6						
24-35 months	60	6.2	0.8						
36-47 months	78	8	0.9						
48-59 months	114	11.1	0.9						
≥60 months	585	57.2	1.9						
Did not want to have another child	158	14.3	1.5						
Missing	60								
Total	1084	100							
Among women with two children									
9-11 months	0	0							
12-23 months	11	2.9	1						
24-35 months	27	7.9	1.5						
36-47 months	28	7.6	1.6						
48-59 months	52	13.2	1.9						
≥60 months	258	63.6	2.6						
Did not want to have another child	23	4.9	1.1						
Missing	43								
Total	442	100							
Among women with three or four child									
9-11 months	0	0							
12-23 months	9	2.5	1.1						
24-35 months	18	4.4	1.2						
36-47 months	30	8.4	1.7						
48-59 months	44	11	1.7						
≥60 months	236	59.6	2.8						
Did not want to have another child	63	14.2	1.7						
Missing	9								
Total	409	100							
Among women with five or more child									
9-11 months	0	0							
12-23 months	9	4.9	1.6						
24-35 months	15	6.7	1.8						
36-47 months	20	8.1	1.9						
48-59 months	18	7.7	1.9						
≥60 months	91	42.1	3.6						
Did not want to have another child	72	30.4	3.8						
Missing	8	30.4	5.0						
Total	233	100							



Table D.5.1.1 Knowledge of the fertile period

Percentage of all currently married or partnered women age 15-49 who know the timing of the fertile period										
Weighted Weighte Characteristic N % SE										
Are there certain days when a woman is	<u> </u>									
pregnant?		•								
Yes	1346	80.2	1.9							
No	316	19.8	1.9							
DK/DTR	155									
Missing	8									
Total	1825	100								
Is this time just before her period begir	s, during h	er period,	right							
after her period has ended, or halfway l	between t	wo periods	5?							
Just before her period begins	284	22.4	2.3							
During her period	59	5.2	1							
Right after her period has ended	714	52.4	3							
Halfway between two periods	237	18.7	2.1							
Other	18	1.3	0.4							
DK/DTR	34									
Missing	0									
Total	1346	100								



Table D.5.2.1a Current use of family planning methods

Percentage of all currently married or partnered women age 15-49									
using family planning methods									
Weighted We									
Characteristic or method	N	%	SE						
Current use of any method									
Yes	1369	69.9	1.7						
No	448	30.1	1.7						
DK/DTR	0								
Missing	8								
Total	1825	100							
Current use of any method, among won	nen in nee	d of contra	ceptives						
Yes	1343	84.3	1.4						
No	215	15.7	1.4						
DK/DTR	0								
Missing	0								
Total	1558	100							
Current use of more than one method									
Yes	15	0.8	0.4						
No	1802	99.2	0.4						
DK/DTR	0								
Missing	8								
Total	1825	100							
Number of methods the respondent is	currently u	sing							
0 methods	448	30.1	1.7						
1 method	1354	69.1	1.8						
2 methods	15	0.8	0.4						
3 or more methods	8	0							
DK/DTR	0								
Missing	0								
Total	1825	100							



Table D.5.2.1b Current use of family planning methods, by type of method

Percentag	e of all cur			tnered wo	men age 1			amily plar	nning meth		
Method	N	Weighted %	Weighted SE	Method	N	Weighted %	Weighted SE	Method	N	Weighted %	Weighted SE
Female ste		70	JL	Condom		70	JL	Rhythm m		70	JL
Yes	308	18.3	1 /	Yes	51	2.3	0.5	Yes	10	0.3	0.1
No	1507	81.7		No	1765	97.7		No	1806		0.1
DK/DTR	2		1.7	DK/DTR	1,03		0.5	DK/DTR	1		0.1
Missing	8			Missing	8			Missing	8		
Total	1825			Total	1825			Total	1825	100	
Male steri		100		Female co		100			al method	100	
Yes	1	0	0	Yes	0	0		Yes	6	0.2	0.1
No	1815	100		No	1815	100		No	1808	99.8	0.1
DK/DTR	1			DK/DTR	2			DK/DTR	3	33.0	0.1
Missing	8			Missing	8			Missing	8		
Total	1825			Total	1825	100		Total	1825	100	
IUD	1010	200		Diaphragm		200			cy contrace		
Yes	49	2.9	0.7	Yes		0		Yes	0	0	
No	1767	97.1		No	1815	100		No	1814	100	
DK/DTR	1			DK/DTR	2			DK/DTR	3		
Missing	8			Missing	8			Missing	8		
Total	1825	100		Total	1825	100		Total	1825	100	
Injectable				Sponge, sp				Other mo	dern meth	od	
Yes	783	38.7	1.8	Yes	0	0		Yes	0	0	
No	1034	61.3		No	1816	100		No	1814	100	
DK/DTR	0			DK/DTR	1			DK/DTR	3		
Missing	8			Missing	8			Missing	8		
Total	1825	100		Total	1825	100		Total	1825	100	
Implants				Lactationa		hea metho	d	Other trac	ditional me	thod	
Yes	1	0	0	Yes	8	0.2	0.1	Yes	1	0.1	0.1
No	1815	100	0	No	1808	99.8	0.1	No	1812	99.9	0.1
DK/DTR	1			DK/DTR	1			DK/DTR	3		
Missing	8			Missing	8			Missing	9		
Total	1825	100		Total	1825	100		Total	1825	100	
Pill											
Yes	166	7.7	1								
No	1649	92.3	1								
DK/DTR	2										
Missing	8										
Total	1825	100									



Table D.5.2.1c Current use of modern family planning methods

Percentage of all currently married or partnered women age 15-49									
using modern methods of family planning									
Weighted Weighted									
Characteristic	N	%	SE						
Among all women									
Yes	1351	69.3	1.7						
No	466	30.7	1.7						
DK/DTR	0								
Missing	8								
Total	1825	100							
Among women in need of contraceptive	es								
Yes	1325	83.6	1.4						
No	233	16.4	1.4						
DK/DTR	0								
Missing	0								
Total	1558	100							



Table D.5.3.1a Source of family planning methods

Percent distribution of women method was obtained	n currently	using sele	ected mod	ern methods of family planning	g, by locati	on where	current
method was obtained		Weighted	Weighted			Weighted	Weighted
Source	N	%	SE	Source	N	%	SE
Female sterilization				IUD			
Public hospital	262	84.4	3	Public hospital	28	49.7	12.6
Public health unit	18	5.4	2	Public health unit	11	28.8	11.9
Public health center / clinic	8	2.6	1.2	Public health center / clinic	4	4.3	2.5
Public mobile clinic	0	0		Public mobile clinic	0	0	
Other public health facility	0	0		Other public health facility	0	0	
Private hospital	1	0.1		Private hospital	0	0	
Private health center / clinic	12	4.6	1.7	Private health center / clinic	3	14.4	11.7
Private office	2	1.7	1.5	Private office	1	0.6	0.7
Private mobile clinic	1	0.2	0.2	Private mobile clinic	0	0	
Other private health facility	0	0		Other private health facility	0	0	
Pharmacy	0	0		Pharmacy	0	0	
Community health worker	0	0		Community health worker	0	0	
Traditional healer	0	0		Traditional healer	0	0	
Store	0	0		Store	0	0	
Market	0	0		Market	0	0	
Church	0	0		Church	0	0	
Friend / relative	0	0		Friend / relative	0	0	
Other	4	0.9	0.6	Other	2	2.1	1.5
DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0		
Total	308	100		Total	49	100	
Male sterilization				Injectables			
Public hospital	1	100		Public hospital	185	24	3.1
Public health unit	0	0		Public health unit	289	35.8	3.1
Public health center / clinic	0	0		Public health center / clinic	150	18.6	2.2
Public mobile clinic	0	0		Public mobile clinic	0	0	
Other public health facility	0	0		Other public health facility	4	0.3	0.2
Private hospital	0	0		Private hospital	1	0.1	0.1
Private health center / clinic	0	0		Private health center / clinic	8	1.3	0.7
Private office	0	0		Private office	4	0.8	0.4
Private mobile clinic	0	0		Private mobile clinic	1	0.1	0.1
Other private health facility	0	0		Other private health facility	2	0.2	0.1
Pharmacy	0	0		Pharmacy	88	13.4	2.6
Community health worker	0	0		Community health worker	42	4.5	1.1
Traditional healer	0	0		Traditional healer	0	0	
Store	0	0		Store	1	0.1	0.1
Market	0	0		Market	0	0	
Church	0	0		Church	0	0	
Friend / relative	0	0		Friend / relative	3	0.3	0.2
Other	0	0		Other	5	0.5	0.2
DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0		
Total	1	100		Total	783	100	



Table D.5.3.1b Source of family planning methods

Source	N	Weighted %	Weighted SE	Source	N	Weighted %	Weighted SE
Implants				Condom			
Public hospital	0	0		Public hospital	6	21.2	9.1
Public health unit	0	0		Public health unit	11	27.1	9.4
Public health center / clinic	0	0		Public health center / clinic	10	19.7	7.3
Public mobile clinic	0	0		Public mobile clinic	0	0	
Other public health facility	0	0		Other public health facility	0	0	
Private hospital	0	0		Private hospital	1	2.2	2.2
Private health center / clinic	1	100		Private health center / clinic	0	0	
Private office	0	0		Private office	0	0	
Private mobile clinic	0	0		Private mobile clinic	0	0	
Other private health facility	0	0		Other private health facility	0	0	
Pharmacy	0	0		Pharmacy	21	28.2	7.2
Community health worker	0	0		Community health worker	0	0	
Traditional healer	0	0		Traditional healer	0	0	
Store	0	0		Store	0	0	
Market	0	0		Market	0	0	
Church	0	0		Church	0	0	
Friend / relative	0	0		Friend / relative	1	1	1
Other	0	0		Other	1	0.7	0.7
DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0		
Total	1	100		Total	51	100	
Pill				Female condom			
Public hospital	23	10.4	3	Public hospital	0	0	C
Public health unit	63	33.9		Public health unit	0	0	C
Public health center / clinic	36	19.6	4.1	Public health center / clinic	0	0	C
Public mobile clinic	0	0		Public mobile clinic	0	0	C
Other public health facility	1	0.4	0.5	Other public health facility	0	0	C
Private hospital	0	0		Private hospital	0	0	C
Private health center / clinic	2	1.2	1	Private health center / clinic	0	0	C
Private office	1	0.2		Private office	0	0	C
Private mobile clinic	0	0		Private mobile clinic	0	0	C
Other private health facility	0	0		Other private health facility	0	0	C
Pharmacy	35	31.6		Pharmacy	0	0	
Community health worker	4	2.3		Community health worker	0	0	
Traditional healer	0	0		Traditional healer	0	0	
Store	0	0		Store	0	0	
Market	0	0		Market	0	0	
Church	0	0		Church	0	0	C
Friend / relative	0	0		Friend / relative	0	0	C
Other	1	0.4		Other	0	0	C
DK/DTR	0	27.		DK/DTR	0		
Missing	0			Missing	0	0	
Total	166			Total	0	0	



Table D.5.3.1c Source of family planning methods

Course	N	Weighted %		Course	N.	Weighted %	_
Source	N	%	SE	Source	N	%	SE
Diaphragm Dublic bessited	0	0	0	Lactational amenorrhea metho		F1 C	22.4
Public hospital	0	0		Public hospital	3	51.6	22.4
Public health unit	0	0		Public health unit	1	13.3	13.7
Public health center / clinic	0	0		Public health center / clinic	2	24.5	17.4
Public mobile clinic	0	0		Public mobile clinic	0	0	
Other public health facility	0	0		Other public health facility	0	0	
Private hospital	0	0		Private hospital	0	0	
Private health center / clinic	0	0		Private health center / clinic	0	0	
Private office	0	0		Private office	0	0	
Private mobile clinic	0	0		Private mobile clinic	0	0	
Other private health facility	0	0		Other private health facility	0	0	
Pharmacy	0	0		Pharmacy	0	0	
Community health worker	0	0		Community health worker	1	10.7	11.3
Traditional healer	0	0		Traditional healer	0	0	
Store	0	0		Store	0	0	
Market	0	0		Market	0	0	
Church	0	0		Church	0	0	
Friend / relative	0	0		Friend / relative	0	0	
Other	0	0	0	Other	0	0	
DK/DTR	0			DK/DTR	1		
Missing	0	0		Missing	0		
Total	0	0		Total	8	100	
Sponge, spermicide				Rhythm method			
Public hospital	0	0		Public hospital	0	0	
Public health unit	0	0	0	Public health unit	0	0	
Public health center / clinic	0	0	0	Public health center / clinic	0	0	
Public mobile clinic	0	0	0	Public mobile clinic	0	0	
Other public health facility	0	0	0	Other public health facility	0	0	
Private hospital	0	0	0	Private hospital	0	0	
Private health center / clinic	0	0	0	Private health center / clinic	0	0	
Private office	0	0	0	Private office	0	0	
Private mobile clinic	0	0	0	Private mobile clinic	0	0	
Other private health facility	0	0	0	Other private health facility	0	0	
Pharmacy	0	0	0	Pharmacy	0	0	
Community health worker	0	0	0	Community health worker	1	8.3	8.2
Traditional healer	0	0	0	Traditional healer	0	0	
Store	0	0	0	Store	0	0	
Market	0	0	0	Market	0	0	
Church	0	0		Church	3	26.2	16.6
Friend / relative	0	0		Friend / relative	3	42.3	23.1
Other	0	0		Other	3	23.2	15.4
DK/DTR	0			DK/DTR	0		
Missing	0	0		Missing	0		
Total	0	0		Total	10	100	



Table D.5.3.1d Source of family planning methods

				ern methods of family planning	g, by locati	on where	current
method was obtained		Weighted	Weighted			Weighted	Weighted
Source	N	%	_	Source	N	%	SE
Withdrawal method				Other modern method			
Public hospital	0	0		Public hospital	0	0	0
Public health unit	2	29.4	21.9	Public health unit	0	0	0
Public health center / clinic	0	0		Public health center / clinic	0	0	0
Public mobile clinic	0	0		Public mobile clinic	0	0	0
Other public health facility	0	0		Other public health facility	0	0	0
Private hospital	0	0		Private hospital	0	0	0
Private health center / clinic	0	0		Private health center / clinic	0	0	0
Private office	1	23.6	22	Private office	0	0	0
Private mobile clinic	0	0		Private mobile clinic	0	0	0
Other private health facility	0	0		Other private health facility	0	0	0
Pharmacy	0	0		Pharmacy	0	0	0
Community health worker	0	0		Community health worker	0	0	0
Traditional healer	0	0		Traditional healer	0	0	0
Store	0	0		Store	0	0	0
Market	0	0		Market	0	0	0
Church	0	0		Church	0	0	0
Friend / relative	0	0		Friend / relative	0	0	0
Other	3	47	23.8	Other	0	0	0
DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0	0	
Total	6	100		Total	0	0	
Emergency contraception				Other traditional method			
Public hospital	0	0	0	Public hospital	0	0	
Public health unit	0	0	0	Public health unit	1	100	
Public health center / clinic	0	0	0	Public health center / clinic	0	0	
Public mobile clinic	0	0	0	Public mobile clinic	0	0	
Other public health facility	0	0	0	Other public health facility	0	0	
Private hospital	0	0		Private hospital	0	0	
Private health center / clinic	0	0		Private health center / clinic	0	0	
Private office	0	0	0	Private office	0	0	
Private mobile clinic	0	0	0	Private mobile clinic	0	0	
Other private health facility	0	0	0	Other private health facility	0	0	
Pharmacy	0	0		Pharmacy	0	0	
Community health worker	0	0		Community health worker	0	0	
Traditional healer	0	0	0	Traditional healer	0	0	
Store	0	0		Store	0	0	
Market	0	0		Market	0	0	
Church	0	0		Church	0	0	
Friend / relative	0	0		Friend / relative	0	0	
Other	0	0		Other	0	0	
DK/DTR	0			DK/DTR	0		
Missing	0	0		Missing	0		
Total	0	0		Total	1	100	



Table D.5.4.1 Interruption and non-use of family planning methods

Percentage of women with interruptions last	year in the use of contraceptio	n, percent	tage not
using contraception, and percentage in need	of contraception		
		Weighted	_
Characteristic	N	%	SE
Currently in need of contraceptives			
Yes	1558	80.9	
No	259	19.1	1.6
DK/DTR	0		
Missing	8		
Total	1825	100	
Discontinuation rate: any interruption in use contraceptives	during the last year, among wo	men in ne	ed of
Yes	54	3.4	0.7
No	1504	96.6	0.7
DK/DTR	0		
Missing	0		
Total	1558	100	
Number of interruptions in use during the las			
0	1504	96.6	0.7
1	47	3.1	0.6
2-6	7	0.3	0.2
7-12	0	0	
13 or more	0	0	
DK/DTR	0		
Missing	0		
Total	1558	100	
Not currently using any modern method	, 2550		
Yes	466	30.7	1.7
No	1351	69.3	1.7
DK/DTR	0	00.0	,
Missing	8		
Total	1825	100	
Unmet need: Not currently using any modern			
contraceptives	· · ·		
Yes	233	16.4	1.4
No	1325	83.6	
DK/DTR	0		
Missing	0		
Total	1558	100	



Table D.5.4.2a Reasons for interruption and non-use of family planning methods

Percent distribution of women who are not using family planning methods by reason for non-use								
Reason	N	Weighted %	Weighted SE	Reason	N	Weighted %	Weighted SE	
Unmarried	· · · · · · · · · · · · · · · · · · ·			Did not have a menstrual p	eriod since la	ast birth		
Yes	17	3.9	1.7	Yes	15		0.	
No	358	96.1		No	360		0.	
DK/DTR	4			DK/DTR	4			
Missing	64			Missing	64			
Total	443	100		Total	443			
Married				Was breastfeeding				
Yes	39	8.6	3.1	Yes	20	2.7	0.	
No	336	91.4		No	355		0.	
DK/DTR	4			DK/DTR	4			
Missing	64			Missing	64			
Total	443	100		Total	443			
Does not have sexual		200		Goes against religion	5	200		
Yes	43	10.2	2.4	Yes	4	3.9	2.:	
No	330	89.8		No	371		2.	
DK/DTR	6	33.0	2.7	DK/DTR	3/1		۷.	
Missing	64			Missing	64			
Total	443	100		Total	443			
Virgin	113	100		Respondent is opposed to		100		
Yes	1	0.1	0.1	Yes	13	1.9	0.	
No	374	99.9	0.1		362		0.	
DK/DTR	4	33.3	0.1	DK/DTR	302		0.	
	64			·	64			
Missing Total	443	100		Missing Total	443			
Has sexual relations i		100		Husband / partner is oppos		100		
	41	9.4	2.5	Yes		1.9	0.	
Yes No		90.6			365		0.	
	333	90.6	2.5	No DK/DTR	303		U.	
DK/DTR	64			·	64			
Missing		400		Missing				
Total	443	100		Total	443	100		
Menopausal	20	0	2.0	Others are opposed to use	4	0.1	0	
Yes	26	9		Yes	1		0.	
No DK (DTD	348	91	2.9	No	373		0.	
DK/DTR	5			DK/DTR	5			
Missing	64	400		Missing	64			
Total	443	100		Total	443	100		
Hysterectomy/surger				Knows no method				
Yes	9			Yes	8		0.	
No	366	98.5	0.7	No	367		0.	
DK/DTR	4			DK/DTR	4			
Missing	64			Missing	64			
Total	443	100		Total	443	100		
Cannot become pregr			_	Knows no source for getting	• ,			
Yes	20			Yes	6		0.	
No	355	92.9	2.3	No	369		0.	
DK/DTR	4			DK/DTR	4			
Missing	64			Missing	64			
Total	443	100		Total	443	100		



Table D.5.4.2b Reasons for interruption and non-use of family planning methods

Percent distribution of wome	n who are		nning methods by reason for non-use				
Reason	N	Weighted %	Weighted SE	Reason	N	Weighted %	Weighted SE
Concerned about side effects				No trust in health facility staff	1		
Yes	26	4.2	1.2	Yes	6	0.5	0.2
No	349	95.8	1.2	No	369	99.5	0.2
DK/DTR	4			DK/DTR	4		
Missing	64			Missing	64		
Total	443	100		Total	443	100	
Facility is too far				Uncomfortable to use			
Yes	4	0.9	0.5	Yes	3	0.3	0.2
No	371	99.1	0.5	No	372	99.7	0.2
DK/DTR	4			DK/DTR	4		
Missing	64			Missing	64		
Total	443			Total	443	100	
Could not find transportation	to a facility			Interferes with normal body p	rocesses		
Yes	1		0.1	Yes	25	4.7	1.1
No	374			No	350	95.3	1.1
DK/DTR	4			DK/DTR	4		
Missing	64			Missing	64		
Total	443			Total	443	100	
Could not afford transportation		100		Affects health / does not like		100	
Yes	5	0.9	0.4	Yes	95	25.7	3.8
No	370			No	280	74.3	3.8
DK/DTR	4		0.4	DK/DTR	4	74.5	3.0
Missing	64			Missing	64		
Total	443			Total	443	100	
Costs too much	443	100		Was pregnant	443	100	
Yes	2	0.5	0.4	Yes	25	7.6	2.1
No	373	99.5		No	349	92.4	2.1
	3/3	99.5	0.4		549	92.4	2.1
DK/DTR	64			DK/DTR	64		
Missing				Missing		100	
Total	443	100		Total	443	100	
Preferred method is not avail		1.4	1	Wanted to become pregnant	C	22.2	2.0
Yes	4			Yes	63	23.2	3.9
No DI (DTD	371	98.6	1	No	312	76.8	3.9
DK/DTR	4			DK/DTR	4		
Missing	64			Missing	64	400	
Total	443	100		Total	443	100	
No method is available	_			Other			
Yes	4			Yes	37	7.2	1.5
No	370		0.2	No	338	92.8	1.5
DK/DTR	5			DK/DTR	4		
Missing	64			Missing	64		
Total	443			Total	443	100	
Health facility has staff that a							
Yes	6						
No	369	99.2	0.3				
DK/DTR	4						
Missing	64						
Total	443	100					



Table D.5.5.1 Participation in family planning decision-making

Percent distribution of women currently using family planning methods										
according to who makes the decision to use family planning										
		Weighted	Weighted							
Characteristic	N	%	SE							
Who makes the decision to use family planning	methods?)								
Mostly the respondent	234	18.1	1.8							
Mostly the husband / partner	110	6.6	0.9							
Joint decision	1017	74.8	1.8							
Other	5	0.4	0.2							
DK/DTR/NA	3									
Missing	0									
Total	1369	100								

Table D.5.5.2a Family planning decision-making - informed choice

Table 5.5.5.24 Turning planning decision making informed choice									
Percentage of all women currently using family planning methods to whom a health									
care worker described other methods that can be used									
		Weighted	Weighted						
Characteristic	N	%	SE						
Did a doctor, nurse, or community health worker ever	tell you ak	out other	methods						
of family planning that you could use?									
Yes	928	66	2.5						
No	439	34	2.5						
DK/DTR	2								
Missing	0								
Total	1369	100							



Table D.5.6.1 Family planning messages delivered by health care providers

Percentage of married or partnered women exposed to family planning messages											
delivered by health care providers at a health care facility or at home, ever and in											
the last 12 months											
			Weighted								
Characteristic	N	%	SE								
In the last 12 months, did any staff member at a health	n facility sp	eak to you	ı about								
family planning methods?											
Yes	697	36.1	2.2								
No	1119	63.9	2.2								
DK/DTR	1										
Missing	8										
Total	1825	100									
In the last 12 months, did a health promoter visit you	to speak to	you about	t family								
planning methods?											
Yes	153	7.5	0.8								
No	1656	92.5	0.8								
DK/DTR	8										
Missing	8										
Total	1825	100									
Among respondents who had not visited a health facil	lity seekinį	g care for									
themselves or their children in the last 12 months:											
In the last 12 months, did a health promoter visit you	to speak to	you about	t family								
planning methods?	·	·	·								
Yes	42	5.9	1.2								
No	569	94.1	1.2								
DK/DTR	3										
Missing	0										
-											

Total

614

100



Table D.6.1.1a Antenatal care coverage for the most recent birth in the last two years

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 among those who received any antenatal care, percent distribution by timing of care

antenatal care, percent distribution by timing of care		Weighted	_
Characteristic	N	%	SE
Attended at least one antenatal care visit			
Yes	1022	96.9	0.7
No	36	3.1	0.7
DK/DTR	0		
Missing	56		
Total	1114	100	
Attended at least one antenatal care visit with doctor	-		
Yes	1005	95.5	0.8
No	53	4.5	0.8
DK/DTR	0		
Missing	56		
Total	1114	100	
First trimester (first 12 weeks) antenatal care visit wit	h doctor or	professio	nal nurse
Yes	478	44.7	2.3
No	577	55.3	2.3
DK/DTR	0		
Missing	59		
Total	1114	100	
Month of gestation of first ANC visit, among women w	ho receive	ed any ante	enatal
care			
1	231	22.3	2.2
2	252	24.3	1.5
3	238	22.4	1.7
4	140	14.4	1.5
5	77	7.6	1
6	47	5.2	1
7	23	2.4	0.5
8	10	1.3	0.4
9	3	0.2	0.1
DK/DTR	1		
Missing	0		
Total	1022	100	



Table D.6.1.1b Antenatal care coverage for the most recent birth in the last two years

			is at anten	atal care, for w	omen with	a birth in t	ne iast two	years who att	tended at le	ast one an	tenatai
care visit for th	ie most rece	Weighted	Weighted			Weighted	Weighted			Weighted	Weighted
Attendant	N	%	SE	Attendant	N	%	SE	Attendant	N	%	SE
Medical docto	r			Midwife / Com	nadrona			Relative			
0 visits	336	34.4	2.9	0 visits	1021	99.9	0.1	0 visits	1022	100	
1 visit	127	12.7	1.3	1 visit	0	0		1 visit	0	0	
2 visits	70	8.4	1.6	2 visits	0	0		2 visits	0	0	
3 visits	71	6.2	0.9	3 visits	0	0		3 visits	0	0	
4 visits	61	6.4	0.9	4 visits	0	0		4 visits	0	0	
5 visits	81	7.4	1	5 visits	0	0		5 visits	0	0	
6 visits	78	7.6	1.1	6 visits	0	0		6 visits	0	0	
7 visits	81	7.1	0.9	7 visits	1	0.1	0.1	7 visits	0	0	
8 visits	117	9.9	1.3	8 visits	0	0		8 visits	0	0	
Missing	0			Missing	0			Missing	0		
Total	1022	100		Total	1022	100		Total	1022	100	
Professional n	urse			Community he	alth worke	r		Other			
0 visits	449	42.7	3	0 visits	1022	100		0 visits	1021	99.9	0.1
1 visit	65	5.6	0.7	1 visit	0	0		1 visit	0	0	
2 visits	46	4.4	0.7	2 visits	0	0		2 visits	0	0	
3 visits	60	5.9	0.9	3 visits	0	0		3 visits	0	0	
4 visits	88	9.1	1.4	4 visits	0	0		4 visits	0	0	
5 visits	94	8.3		5 visits	0	0		5 visits	0	0	
6 visits	84	9.2	1.3	6 visits	0	0		6 visits	0	0	
7 visits	77	8.6		7 visits	0	0		7 visits	1	0.1	0.1
8 visits	59	6.1	1.1	8 visits	0	0		8 visits	0	0	
Missing	0			Missing	0			Missing	0		
Total	1022	100		Total	1022	100		Total	1022	100	
Auxiliary nurse	2			Pharmacy assis	stant		,	Didn't know a	ttendant or	declined t	o respond
0 visits	973	95.6	0.7	0 visits	1022	100		0 visits	1020		
1 visit	18	1.7	0.4	1 visit	0	0		1 visit	2	0.1	0.1
2 visits	7	0.6	0.2	2 visits	0	0		2 visits	0	0	
3 visits	2	0.1		3 visits	0	0		3 visits	0	0	
4 visits	8	0.8	0.3	4 visits	0	0		4 visits	0	0	
5 visits	3	0.2	0.1	5 visits	0	0		5 visits	0	0	
6 visits	6	0.5	0.2	6 visits	0	0		6 visits	0	0	
7 visits	2	0.1	0.1	7 visits	0	0		7 visits	0	0	
8 visits	3	0.3	0.2	8 visits	0	0		8 visits	0	0	
Missing	0			Missing	0			Missing	0		
Total	1022	100		Total	1022	100		Total	1022	100	
Laboratory tec	hnician			Traditional hea	aler						
0 visits	1021	99.9	0.1	0 visits	1022	100					
1 visit	1	0.1		1 visit	0	0					
2 visits	0			2 visits	0						
3 visits	0	0		3 visits	0	0					
4 visits	0			4 visits	0						
5 visits	0			5 visits	0						
6 visits	0			6 visits	0	0					
7 visits	0	0		7 visits	0						
8 visits	0			8 visits	0						
Missing	0			Missing	0						
Total	1022			Total	1022						



Table D.6.1.1c Antenatal care coverage for the most recent birth in the last two years

Percentage distribution of usual location of antenatal care for women with a birth in the last two years who attended at least one antenatal care visit for the most recent birth

		Weighted	Weighted
Location	N	%	SE
Usual location for antenatal care visits			
Public hospital	229	24.8	3.8
Public health unit	432	41	3.5
Public health center / clinic	281	27.6	2.9
Public mobile clinic	1	0.1	0.1
Other public health facility	8	0.5	0.2
Private hospital	3	0.4	0.2
Private health center / clinic	34	3.1	0.7
Private office	26	1.9	0.5
Private mobile clinic	1	0.1	0.1
Other private health facility	0	0	
Pharmacy	0	0	
Community health worker	0	0	
Traditional healer	2	0.2	0.2
Other	5	0.4	0.2
DK/DTR	0		
Missing	0		
Total	1022	100	



Table D.6.1.2 Frequency of antenatal care visits

Percent distribution of women with a birth in the last two years by number of antenatal care visits for the most recent birth and percentage of women with four or more visits with at least one with a professional

more visits with at least one with a professional		Weighted	Weighted
Characteristic	N	%	SE
Number of antenatal care visits			
None	36	3.1	0.7
1-3 visits	128	13.1	1.1
4-6 visits	464	44.7	1.9
7-9 visits	424	38.9	2.2
10+ visits	4	0.2	0.1
DK/DTR	2		
Missing	59		
Total	1117	100	
Attended at least four antenatal care visits			
Yes	892	83.8	1.5
No	164	16.2	1.5
DK/DTR	2		
Missing	59		
Total	1117	100	
Attended at least four antenatal care visits with docto	r or profes	sional nur	se
Yes	861	81.4	1.5
No	195	18.6	1.5
DK/DTR	2		
Missing	59		
Total	1117	100	
Attended at least four antenatal care visits with docto	r or profes	sional nur	se
according to best practices (measuring blood type, and	emia, syph	ilis, HIV,	
proteinuria, blood pressure, weight, fundual height, f	etal heartk	peat)	
Yes	417	41.2	2.4
No	639	58.8	2.4
DK/DTR	2		
Missing	59		
Total	1117	100	



Table D.6.1.3a Content of antenatal care visits - best practices

Percentage distribution of content during antenatal visit among women with a birth in the last										
two years with at least one antenatal care visit										
		Weighted	_			Weighted	_			
Procedure	N	%	SE	Procedure	N	%	SE			
Measured blood				Tested for prote						
Yes	807	79.8	2	Yes	791	80.4	2			
No	198	20.2	2	No	189	19.6	2			
DK/DTR	17			DK/DTR	42					
Missing	0			Missing	0					
Total	1022	100		Total	1022	100				
Tested for anem	nia			Measured mate	rnal blood	pressure				
Yes	830	82.5	1.8	Yes	1011	99	0.3			
No	173	17.5	1.8	No	10	1	0.3			
DK/DTR	19			DK/DTR	1					
Missing	0			Missing	0					
Total	1022	100		Total	1022	100				
Tested for syphi	lis			Measured materal weight						
Yes	596	61.2	2.7	Yes	1013	99.1	0.3			
No	392	38.8	2.7	No	9	0.9	0.3			
DK/DTR	34			DK/DTR	0					
Missing	0			Missing	0					
Total	1022	100		Total	1022	100				
Tested for HIV				Measured funda	al height					
Yes	797	77.1	2.2	Yes	968	94.7	1			
No	220	22.9	2.2	No	50	5.3	1			
DK/DTR	5			DK/DTR	4					
Missing	0			Missing	0					
Total	1022	100		Total	1022	100				
				Measured fetal	heartbeat					
				Yes	978	95.8	0.8			
				No	43	4.2	0.8			
				DK/DTR	1					
				Missing	0					
				Total	1022	100				



Table D.6.1.3b Content of antenatal care visits - other services provided

Percentage distribution of content during antenatal visit among women with a birth in the last										
two years with at least one antenatal care visit										
		Weighted	Weighted			Weighted	Weighted			
Procedure	N	%	SE	Procedure	N	%	SE			
Collected blood	specimen			Tested for diabe	etes					
Yes	952	91.6	1.5	Yes	489	49.7	2.1			
No	69	8.4	1.5	No	508	50.3	2.1			
DK/DTR	1			DK/DTR	25					
Missing	0			Missing	0					
Total	1022	100		Total	1022	100				
Collected urine	specimen			Performed an ultrasound						
Yes	963	94	1	Yes	861	82.9	1.4			
No	59	6	1	No	161	17.1	1.4			
DK/DTR	0			DK/DTR	0					
Missing	0			Missing	0					
Total	1022	100		Total	1022	100				
Measured blood	l glucose									
Yes	672	72.7	1.8							
No	257	27.3	1.8							
DK/DTR	23									
Missing	70									
Total	1022	100								



Table D.6.1.4 Coverage of tetanus toxoid vaccinations during pregnancy

Among women with prenatal care for a birth in the last two years, percentage who
received a tetanus vaccinations during pregnancy and percent distribution by
number of vaccinations received and by time since last tetanus vaccination

number of vaccinations received and by time since las	st tetanus (Weighted						
Characteristic	N	%	SE					
Received tetanus injection during pregnancy								
Yes	949	90.6	1.3					
No	105	9.4	1.3					
DK/DTR	4							
Missing	59							
Total	1117	100						
Number of tetanus vaccinations during pregnancy								
None	120	10.9	1.4					
1	676	64.9	2.1					
2	200	20.7	2					
3	31	2.8	0.5					
4	10	0.6	0.2					
5	1	0.2	0.2					
DK/DTR	20							
Missing	59							
Total	1117	100						
Time since last tetanus vaccination								
Never vaccinated	404	54.6	2.5					
<10 years ago	329	39.6	2.6					
≥10 years ago	45	5.8	1.2					
DK/DTR	280							
Missing	59							
Total	1117	100						
Time since last tetanus vaccination, among women wl	ho were no	ot vaccinate	ed during					
pregnancy								
Never vaccinated	45	54.1	6.8					
<10 years ago	32	43.4	7					
≥10 years ago	2	2.5	2					
DK/DTR	26							
Missing	0							
Total	105	100						



Table D.6.1.5 Exposure to safe pregnancy messages

Among women who	received pren	atal care fo	or a birth ir	the last two years, p	ercentage exp	osed to spe	ecific safe	
pregnancy messages	5							
Characteristic	N	Weighted %	Weighted SE	Characteristic	N	Weighted %	Weighted SE	
Counseled about pre	egnancy			Advised to have a Caesarean section				
Yes	955	93.6	1	Yes	397		2.5	
No	67	6.4			625	60.6	2.5	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	1022	100		Total	1022	100		
Told about signs to v	vatch out for th	at could ir	dicate a	Counseled about making a transportation plan for the				
problem with the pr	egnancy			delivery				
Yes	957	92.8	1.2	Yes	238	23.2	1.9	
No	64	7.2	1.2	No	783	76.8	1.9	
DK/DTR	1			DK/DTR	1			
Missing	0			Missing	0			
Total	1022	100		Total	1022	100		
Offered an HIV test				Counseled about contraception after delivery				
Yes	838	80.9	2.3	Yes	845	83.4	1.7	
No	180	19.1	2.3	No	177	16.6	1.7	
DK/DTR	4			DK/DTR	0			
Missing	0			Missing	0			
Total	1022	100		Total	1022	100		
Counseled about nu	trition during p	regnancy		Counseled about chi	ild care			
Yes	901	88.8	1.1	Yes	774	77.9	2.2	
No	117	11.2	1.1	No	246	22.1	2.2	
DK/DTR	4			DK/DTR	2			
Missing	0			Missing	0			
Total	1022	100		Total	1022	100		
Given information a	bout in-facility	delivery		Given information about proper ways to breast feed				
Yes	883	87.3	1.4	Yes	883	86.5	1.7	
No	137	12.7	1.4	No	135	13.5	1.7	
DK/DTR	2			DK/DTR	4			
Missing	0			Missing	0			
Total	1022	100		Total	1022	100		
Advised to delivery	in a facility							
Yes	885	87.4	1.5					
No	137	12.6	1.5					
DK/DTR	0							
Missing	0							
Total	1022	100						



Table D.6.2.1 Place of delivery

Percent distribution of women with a birth in the last two years by location of most recent birth and percent distribution of women with in-facility deliveries by means of transportation used to get to the facility for delivery

		Weighted	Weighted	Mode of		Weighted	Weighted
Characteristic	N	%	SE	transportation	N	%	SE
Delivery location for most re-	cent birth			On foot			
Respondent's house	82	9.2	1.8	Yes	121	14	2.2
Another person's house	6	0.6	0.2	No	841	86	2.2
Public hospital	836	78.4	2.4	DK/DTR	1		
Public health center / clinic	96	8.1	1.3	Missing	0		
Public medical ward	0	0		Total	963	100	
Other public health facility	8	0.6	0.2	Private vehicle			
Private hospital	7	0.6	0.2	Yes	221	22.3	1.7
Private health center / clinic	16	1.7	0.6	No	741	77.7	1.7
Private medical ward	0	0		DK/DTR	1		
Other private health facility	0	0		Missing	0		
Other	7	0.8	0.3	Total	963	100	
DK/DTR	0			Ambulance			
Missing	60			Yes	260	23.4	2.4
Total	1118	100		No	702	76.6	2.4
In-hospital delivery				DK/DTR	1		
Yes	843	78.9	2.4	Missing	0		
No	215	21.1	2.4	Total	963	100	
DK/DTR	0			Other public vehicle			
Missing	60			Yes	385	43.2	2.8
Total	1118	100		No	577	56.8	2.8
In-facility delivery				DK/DTR	1		
Yes	963	89.4	1.9	Missing	0		
No	95	10.6	1.9	Total	963	100	
DK/DTR	0						
Missing	60						
Total	1118	100					



Table D.6.2.2a Assistance at delivery: type of attendants

For women's most recent birth in the past two years, percentage by type of delivery attendants								
		Weighted			Weighted	Weighted		
Characteristic	N	%	SE	Characteristic	N	%	SE	
Medical doctor				Community health worker				
Yes	935	86.9	1.9	Yes	2	0.2	0.2	
No	123	13.1	1.9	No	1054	99.8	0.2	
DK/DTR	0			DK/DTR	2			
Missing	59			Missing	59			
Total	1117	100		Total	1117	100		
Professional nurs	se			Pharmacist				
Yes	858	80.1	1.8	Yes	5	0.6	0.3	
No	197	19.9	1.8	No	1050	99.4	0.3	
DK/DTR	3			DK/DTR	3			
Missing	59			Missing	59			
Total	1117	100		Total	1117	100		
Auxiliary nurse				Traditional healer				
Yes	205	19.7	1.9	Yes	1	0.2	0.2	
No	838	80.3	1.9	No	1054	99.8	0.2	
DK/DTR	15			DK/DTR	3			
Missing	59			Missing	59			
Total	1117	100		Total	1117	100		
Laboratory techn	ician			Relative				
Yes	22	2.1	0.5	Yes	125	11.9	1.3	
No	1010	97.9	0.5	No	930	88.1	1.3	
DK/DTR	26			DK/DTR	3			
Missing	59			Missing	59			
Total	1117	100		Total	1117	100		
Midwife / Comad	drona			Other				
Yes	61	6.2	1.3	Yes	15	2.2	0.9	
No	986	93.8	1.3	No	1037	97.8	0.9	
DK/DTR	11			DK/DTR	6			
Missing	59			Missing	59			
Total	1117	100		Total	1117	100		



Table D.6.2.2b Assistance at delivery: number of attendants

For women's most recent live birth in the past two years, the number of attendants									
during delivery and the presence of skilled attendants									
		Weighted	Weighted						
Characteristic	N	%	SE						
Delivered alone									
Yes	7	1	0.5						
No	1051	99	0.5						
DK/DTR	0								
Missing	59								
Total	1117	100							
Number of categories of personnel in attendance at d	elivery								
None	7	1	0.5						
One	167	16.5	1.7						
Two	649	60.9	2.2						
Three	185	16.7	1.6						
Four or more	50	4.9	0.8						
DK/DTR	0								
Missing	59								
Total	1117	100							
Delivery with a skilled birth attendant									
Yes	964	89.5	1.8						
No	94	10.5	1.8						
DK/DTR	0								
Missing	59								
Total	1117	100							



Table D.6.2.2c Assistance at delivery: in-facility delivery with skilled birth attendant

For women's most recent live birth in the past two years, the presence of skilled								
attendants at delivery in a health facility or hospital								
Characteristic	N	Weighted %	Weighted SE					
In-facility delivery with a skilled birth attendant	•							
Yes	956	88.5	1.9					
No	102	11.5	1.9					
DK/DTR	0							
Missing	58							
Total	1116	100						
In-hospital delivery with a skilled birth attendant								
Yes	837	78.1	2.3					
No	221	21.9	2.3					
DK/DTR	0							
Missing	58							
Total	1116	100						



Table D.6.2.3 Mode of delivery and complications

For women's most recent live birth in the p		de of deli	very and
complications during delivery			
Characteristic	N	Weighted %	Weighted SE
Mode of delivery			
Vaginal	811	79	1.8
Planned Caesarean section	79	6.7	0.8
Emergency Caesarean section	168	14.3	1.5
DK/DTR	0		
Missing	59		
Total	1117	100	
Reason for attending a health facility for de	elivery, among in-faci	lity births	
Planned	387	39.2	2
Emergency	570	60.4	2
Other	6	0.5	0.2
DK/DTR	0		
Missing	0		
Total	963	100	
Respondent had seizures prior to delivery			
Yes	27	2.8	0.5
No	1028	97.2	0.5
DK/DTR	3		
Missing	59		
Total	1117	100	
Child entered neonatal intensive care unit	after delivery		
Yes	91	7.5	1
No	965	92.5	1
DK/DTR	2		
Missing	59		
Total	1117	100	
Respondent had excessive bleeding in the	first day following the	e delivery	
Yes	237	19.6	1.8
No	821	80.4	1.8
DK/DTR	0		
Missing	59		
Total	1117	100	



Table D.6.2.4 Birth size and weight

For women's most recent live birth in the past two years, the size and weight of the									
child at birth	child at birth								
		Weighted	Weighted						
Characteristic	N	%	SE						
Mother's estimate of the size of the child at birth									
Very large	17	1.6	0.5						
Larger than average	81	7.7	1						
Average	873	83.1	1.6						
Smaller than average	57	6.5	1.4						
Very small	15	1.2	0.3						
DK/DTR	15								
Missing	59								
Total	1117	100							
Child's weight was measured at birth									
Yes	962	91.2	1.6						
No	83	8.8	1.6						
DK/DTR	13								
Missing	59								
Total	1117	100							
Child's birth weight, among those who were weighed									
<2.5 kg (low birth weight)	101	11.8	1.6						
≥2.5 kg	807	88.2	1.6						
DK/DTR	40								
Missing	14								
Total	962	100							



Table D.6.3.1a Postnatal checkup for the mother

For women's most recent live birth in the past two years, postpartum care received by the respondent								
Characteristic	N	Weighted %	Weighted SE					
Respondent was checked after delivery								
Yes	750	66.8	2.6					
No	308	33.2	2.6					
DK/DTR	0							
Missing	59							
Total	1117	100						
Respondent was checked every 15 minutes during the still at health facility, among in-facility births	first hour	after deliv	ery while					
Yes	294	28.4	2					
No	667	71.6	2					
DK/DTR	2							
Missing	0							
Total	963	100						
Respondent was checked within one week after deliv	ery by a he	alth provid	der					
Yes	662	59.7	2.3					
No	396	40.3	2.3					
DK/DTR	0							
Missing	59							
Total	1117	100						



Table D.6.3.1b Postnatal checkup for the mother: providers

Percentage dis care visit for th			ts at postn	atal care, for w	omen with	a birth in t	he last two	years who att	ended at le	ast one po	stnatal
Attendant	N	Weighted %	Weighted SE	Attendant	N	Weighted %	Weighted SE	Attendant	N	Weighted %	Weighted SE
Medical doctor		,		Midwife / Cor				Relative			
0 visits	129	17.8	1.5	0 visits	745	99.4	0.3	0 visits	749	99.9	0.1
1 visit	386			1 visit	5	0.6		1 visit	1		0.1
2 visits	171			2 visits	0	0		2 visits	0		
3 visits	45			3 visits	0	0		3 visits	0	0	
4 visits	9			4 visits	0	0		4 visits	0		
5 visits	4			5 visits	0	0		5 visits	0		
6 visits	2			6 visits	0	0		6 visits	0		
7 visits	1			7 visits	0	0		7 visits	0	-	
8 visits	3			8 visits	0	0		8 visits	0		
Missing	0		0.2	Missing	0			Missing	0		
Total	750			Total	750	100		Total	750		
Professional nu		100		Community h				Other	730	100	
0 visits	588	79.2	1.6	0 visits	750	100		0 visits	748	99.8	0.1
1 visit	125			1 visit	730	0		1 visit	2		0.1
2 visits	29			2 visits	0	0		2 visits	0		
	4			3 visits	0	0			0		
3 visits	2			4 visits	0	0		3 visits 4 visits	0		
4 visits			0.1								
5 visits	0		0.1	5 visits	0	0		5 visits 6 visits	0		
6 visits	1		0.1	6 visits	0				0		
7 visits	0		0.2	7 visits	0	0		7 visits	0		
8 visits	1		0.2	8 visits	0	0		8 visits	0	-	
Missing	0			Missing	0	400		Missing	0		
Total				Total 750 100 Total			750				
Auxiliary nurse		20.0		Pharmacy assi		400		Didn't know at			
0 visits	742			0 visits	750	100		0 visits	746		0.3
1 visit	6			1 visit	0	0		1 visit	4		
2 visits	2		0.2	2 visits	0	0		2 visits	0		
3 visits	0			3 visits	0	0		3 visits	0		
4 visits	0			4 visits	0	0		4 visits	0		
5 visits	0			5 visits	0	0		5 visits	0	-	
6 visits	0			6 visits	0			6 visits	0		
7 visits	0			7 visits	0			7 visits	0		
8 visits	0			8 visits	0	0		8 visits	0		
Missing	0			Missing	0			Missing	0		
Total	750	100		Total	750	100		Total	750	100	
Laboratory tech				Traditional he							
0 visits	749			0 visits	750						
1 visit	1			1 visit	0						
2 visits	0			2 visits	0						
3 visits	0			3 visits	0						
4 visits	0			4 visits	0						
5 visits	0			5 visits	0						
6 visits	0	0		6 visits	0	0					
7 visits	0	0		7 visits	0	0					
8 visits	0	0		8 visits	0	0					
Missing	0			Missing	0						
Total	750	100		Total	750	100					



Table D.6.3.2a Postnatal checkup for the neonate

For women's most recent live birth in the past two years, postpartum care received								
by the baby								
		Weighted	Weighted					
Characteristic	N	%	SE					
Baby was checked after delivery								
Yes	879	82.8	1.9					
No	177	17.2	1.9					
DK/DTR	2							
Missing	61							
Total	1119	100						
Baby was checked within 24 hours after delivery by a h	nealth prov	/ider						
Yes	348	35	2.2					
No	617	65	2.2					
DK/DTR	2							
Missing	152							
Total	1119	100						
Baby was checked within one week after delivery by a	health pro	ovider						
Yes	691	72.9	2.6					
No	274	27.1	2.6					
DK/DTR	2							
Missing	152							
Total	1119	100						



Table D.6.3.2b Postnatal checkup for the neonate: providers

care visit for the	ie most rec	Weighted	14/aiahtad			Maiabbad	Weighted			Mainhead	NA/a iabaad
Attendant	N	weighted %	SE	Attendant	N	weighted %	SE	Attendant	N	Weighted %	SE SE
Medical docto	r			Midwife / Con	nadrona			Relative			
0 visits	123	14.5	1.8	0 visits	879	100		0 visits	878	100	0
1 visit	494	58.7	2.2	1 visit	0	0		1 visit	0	0	
2 visits	190	19.8	1.5	2 visits	0	0		2 visits	1	0	0
3 visits	43	4.8	0.8	3 visits	0	0		3 visits	0	0	
4 visits	14	1.2	0.4	4 visits	0	0		4 visits	0	0	
5 visits	7	0.4	0.2	5 visits	0	0		5 visits	0	0	
6 visits	3	0.3	0.1	6 visits	0	0		6 visits	0	0	
7 visits	2	0.2	0.1	7 visits	0	0		7 visits	0	0	
8 visits	3	0.2	0.1	8 visits	0	0		8 visits	0	0	
Missing	0			Missing	0			Missing	0		
Total	879	100		Total	879	100		Total	879	100	
Professional n				Community he				Other			
0 visits	724	81.7	1.6	0 visits	878	99.9	0.1	0 visits	878	99.9	0.1
1 visit	130			1 visit	1	0.1		1 visit	1		0.1
2 visits	150	2.2		2 visits	0	0.1		2 visits	0	0.1	0.1
3 visits	5			3 visits	0	0		3 visits	0		
4 visits	0		0.2	4 visits	0	0		4 visits	0		
5 visits	2		0.1	5 visits	0	0		5 visits	0		
6 visits	0		0.1	6 visits	0	0		6 visits	0		
7 visits	2		0.1	7 visits	0	0		7 visits	0		
8 visits	1	0.2		8 visits	0	0		8 visits	0		
	0		0.1			U					
Missing Total	879			Missing Total	0 879	100		Missing Total	0 879	100	
		100				100					a racnand
Auxiliary nurse		00	0.2	Pharmacy assis		100		Didn't know at			
0 visits	871	99		0 visits	879	100		0 visits	874	99.6	0.2
1 visit	5			1 visit	0	0		1 visit	5	0.4	0.2
2 visits	1			2 visits	0	0		2 visits	0		
3 visits	1			3 visits	0	0		3 visits	0		
4 visits	1		0.1	4 visits	0	0		4 visits	0		
5 visits	0			5 visits	0	0		5 visits	0		
6 visits	0			6 visits	0	0		6 visits	0	-	
7 visits	0			7 visits	0	0		7 visits	0		
8 visits	0			8 visits	0	0		8 visits	0		
Missing	0			Missing	0			Missing	0		
Total	879	100		Total	879	100		Total	879	100	
Laboratory tec				Traditional he							
0 visits	879			0 visits	878	99.9					
1 visit	0			1 visit	1						
2 visits	0			2 visits	0	0					
3 visits	0			3 visits	0	0					
4 visits	0			4 visits	0	0					
5 visits	0	0		5 visits	0	0					
6 visits	0	0		6 visits	0	0					
7 visits	0	0		7 visits	0	0					
8 visits	0	0		8 visits	0	0					
Missing	0			Missing	0						
Total	879	100		Total	879	100					



Table D.7.1 Age and sex of children

Percent distribution of the de facto population of children aged 0-59 months									
in the SM2015 baseline survey									
	Fem	nale	Ma	ale	To	tal			
	N	%	N	%	N	%			
Age, in months									
0-5 months	107	9.7	113	10.1	220	9.8			
6-11 months	124	11.2	116	10.4	241	10.8			
12-23 months	242	21.9	232	20.7	475	21.2			
24-35 months	213	19.3	223	19.9	437	19.5			
36-47 months	211	19.1	210	18.8	426	19.1			
48-59 months	209	18.9	225	20.1	437	19.5			
Total	1106	100	1119	100	2236	100			

Table D.7.1.1 Current health status

Percent distribution of children aged 0-59 months, as reported by							
their mothers							
Characteristic	N	Weighted %	Weighted SE				
Current health							
Excellent	381	17.2	1.5				
Very good	530	23.4	1.5				
Good	682	31.7	1.4				
Fair	522	24	1.5				
Poor	81	3.7	0.5				
DK/NR	1						
Missing	39						
Total	2236	100					
Current health relative to health last ye	ar						
Better	942	55.7	1.7				
Worse	86	5.5	0.7				
About the same	656	38.8	1.6				
DK/NR	2						
Missing	32						
Total	1718	100					
Ability to perform daily activities							
Easily	2055	93.1	0.8				
With some difficulty	94	4.6	0.6				
With much difficulty	6	0.3	0.1				
Unable to do	38	2	0.3				
DK/NR	4						
Missing	39						
Total	2236	100					



Table D.7.1.2 Recent illness

Percent distribution of children aged 0-	59 months	, as reporte	ed by						
their mothers									
Characteristic	N	Weighted %	Weighted SE						
Child was sick recently (in the last two weeks)									
Yes	719	32.2	1.6						
No	1483	66.8	1.5						
DK/NR	0								
Missing	6								
Total	2208	100							
Recent illness									
Fever	178	26	1.8						
Malaria	0	0							
Cough/chest infection	209	27.9	2						
Tuberculosis	0	0							
Asthma	10	1.8	0.7						
Bronchitis	3	0.5	0.3						
Pneumonia	18	3	0.8						
Diarrhea without blood	134	19.2	1.6						
Diarrhea with blood	10	1.2	0.4						
Vomiting	11	1.2	0.4						
Abdominal pain	2	0.2	0.2						
Anemia	1	0.2	0.2						
Skin rash/infection	15	2.2	0.6						
Eye/ear infection	6	0.7	0.3						
Measles	1	0.3	0.3						
Jaundice	0	0							
Headache	3	0.4	0.2						
Stroke	0	0							
Diabetes	0	0							
HIV/AIDS	0	0							
Paralysis	0	0							
Other	118	15.2	1.5						
DK/NR	0								
Missing	0								
Total	719	100							



Table D.7.1.3 Utilization of health services for recent illness

Percent distribution of children 0-59 months who were sick in the last								
two weeks								
<u> </u>		Weighted						
Utilization of health services	N	%	SE					
Sought care for recent illness								
Yes	420	56.3	2.7					
No	299	43.7	2.7					
DK/NR	0							
Missing	0							
Total	719	100						
Type of medical facility where care was	sought							
Public hospital	87	23.5	3.8					
Public health unit	113	25.1	2.6					
Public clinic/health center	98	24.7	3					
Public mobile clinic	0	0						
Other public health center	2	0.3	0.2					
Private hospital	4	0.8	0.4					
Private clinic/health center	13	2.5	1					
Private office	32	7.1	1.2					
Private mobile clinic	0	0						
Other private health center	0	0						
Pharmacy	47	10.8	2.1					
Community health worker	3	0.5	0.3					
Traditional healer	2	0.5	0.4					
Other	19	4.1	1.2					
DK/NR	0							
Missing	0							
Total	420	100						
Child was hospitalized for recent illness	S							
Yes	21	3.4	0.9					
No	698	96.6	0.9					
DK/NR	0							
Missing	0							
Total	719	100						



Table D.7.2.1 Prevalence of acute respiratory infection and fever

Percent distribution of children aged 0-59 months, as reported by their mothers		Weighted	Weighted
Characteristic	N	%	SE
Child had cough in the last two weeks			
Yes	504	21.5	1.4
No	1701	78.5	1.4
DK/NR	3		
Missing	28		
Total	2236	100	
Child had cough in the last two weeks, by type			
Cough with difficulty breathing due to chest problem	79	3.4	0.5
Cough with difficulty breathing due to congested or runny nose	113	4.4	0.5
Cough with difficulty breathing due to chest provlem and congested or runny nose	72	3.4	0.5
Cough with difficulty breathing due to other reason	1	0	0
Cough without difficulty breathing	237	10.3	0.8
No cough	1701	78.6	1.4
DK/NR	5		
Missing	28		
Total	2236	100	
Child had acute respiratory infection in the last two weeks			
Yes	266	11.1	0.9
No	1938	88.9	0.9
DK/NR	4		
Missing	28		
Total	2236	100	
Child had fever in the last two weeks			
Yes	397	18.1	1.1
No	1810	81.9	1.1
DK/NR	1		
Missing	28		
Total	2236	100	



Table D.7.2.2 Utilization of health services for acute respiratory infection

Percent distribution of children aged 0-59 moths who had acute respiratory infection in the last two weeks, as reported by their mothers

mothers			
		Weighted	_
Characteristic	N	%	SE
Sought care for acute respiratory infecti	ion		
Yes	155	56.2	3.8
No	111	43.8	3.8
DK/NR	0		
Missing	0		
Total	266	100	
Type of medical facility where care was	sought		
Public hospital	28	20.7	5.1
Public health unit	43	25.9	3.9
Public clinic/health center	41	28.1	3.8
Public mobile clinic	0	0	
Other public health center	1	0.4	0.4
Private hospital	1	0.3	0.4
Private clinic/health center	3	0.9	0.7
Private office	11	6.8	1.9
Private mobile clinic	0	0	
Other private health center	0	0	
Pharmacy	19	11.5	3
Community health worker	1	0.2	0.2
Traditional healer	1	1.2	1.3
Other	6	3.8	1.6
DK/NR	0		
Missing	0		
Total	155	100	



Table D.7.2.3a Utilization of medications for acute respiratory infection

Percent distribution of children aged 0-59 months who had acute respiratory infection in the last two weeks, as reported by their mothers

Medication	N	Weighted %	Weighted SE
	IN	70	3E
Any treatment	224	04.4	2.0
Yes	231	84.4	2.8
No DV (ND	35	15.6	2.8
DK/NR	0		
Missing	0	400	
Total	266	100	
Antibiotic injection			
Yes	9	4.4	1.7
No	221	95.6	1.7
DK/NR	1		
Missing	35		
Total	266	100	
Antibiotic pill			
Yes	19	8.4	2
No	211	91.6	2
DK/NR	1		
Missing	35		
Total	266	100	
Antibiotic syrup			
Yes	127	52	3.5
No	103	48	3.5
DK/NR	1		
Missing	35		
Total	266	100	
Aspirin			
Yes	3	1.7	1.1
No	227	98.3	1.1
DK/NR	1		
Missing	35		
Total	266	100	



Table D.7.2.3a continued

Table D.7.2.3a continued		Weighted	Weighted
	N	%	SE
Acetaminofen			
Yes	137	59.4	3.3
No	93	40.6	3.3
DK/NR	1		
Missing	35		
Total	266	100	
Ibuprofen			
Yes	9	2.9	1.1
No	221	97.1	1.1
DK/NR	1		
Missing	35		
Total	266	100	
Oral rehydration therapy			
Yes	8	3.8	1.4
No	222	96.2	1.4
DK/NR	1		
Missing	35		
Total	266	100	
Other			
Yes	46	20.4	3.1
No	183	79.6	3.1
DK/NR	2		
Missing	35		
Total	266	100	



Table D.7.2.4 Feeding practices during acute respiratory infection

Percent distribution of children aged 0-59 months who had acute
respiratory infection in the last two weeks, as reported by their
mothers

Hiothers			
Amount given	N	Weighted %	Weighted SE
Volume of fluids (including breast milk)	given dur	ing illness	
No fluids	9	3.9	1.4
Much less	46	17.8	2.5
Somewhat less	123	50	3.7
About the same	80	26.2	3.1
More	7	2.1	0.9
DK/NR	1		
Missing	0		
Total	266	100	
Volume of solid foods given during illne	ess		
No solids	9	3	1
Much less	41	15.7	2.9
Somewhat less	141	56.7	3.6
About the same	73	24.2	2.9
More	1	0.4	0.4
DK/NR	1		
Missing	0		
Total	266	100	

Table D.7.3.1 Prevalence of diarrhea

Percent distribution of children aged 0-59 months, as reported by				
their mothers				
		Weighted	Weighted	
Characteristic	N	%	SE	
Child had diarrhea in the last two week	S			
Yes	245	11.9	1	
No	1947	88.1	1	
DK/NR	5			
Missing	11			
Total	2208	100		
Child had diarrhea in the last two week	s, by type			
Diarrhea with blood	18	0.7	0.2	
Diarrhea without blood	227	11.2	1	
No diarrhea	1947	88.1	1	
DK/NR	5			
Missing	11			
Total	2208	100		



Table D.7.3.2 Utilization of health services for diarrhea

Percent distribution of children aged 0-59 months who had diarrhea in			
the last two weeks, as reported by their mothers			
Characteristic	N	Weighted %	Weighted SE
Sought care for diarrhea			
Yes	155	50.8	3.8
No	146	49.2	3.8
DK/NR	0		
Missing	0		
Total	301	100	
Type of medical facility where care was	sought		
Public hospital	34	25.8	5.1
Public health unit	23	12.4	2.9
Public clinic/health center	43	29.2	4.2
Public mobile clinic	0	0	
Other public health center	1	0.5	0.5
Private hospital	0	0	
Private clinic/health center	6	2.9	1.3
Private office	14	9	2.2
Private mobile clinic	0	0	
Other private health center	0	0	
Pharmacy	20	12.1	3.2
Community health worker	1	0.6	0.6
Traditional healer	1	0.3	0.3
Other	12	7.4	2.6
DK/NR	0		
Missing	0		
Total	155	100	



Table D.7.3.3a Utilization of treatments for diarrhea

Percent distribution of children age 0-59 months who had diarrhea in			
the last two weeks, as reported by their mother			
		Weighted	Weighted
Treatment given	N	%	SE
Any treatment given			
Yes	206	83.4	2.6
No	39	16.6	2.6
DK/NR	0		
Missing	0		
Total	245	100	
Powdered oral serum			
Yes	106	43.6	3.8
No	139	56.4	3.8
DK/NR	0		
Missing	0		
Total	245	100	
Bottled oral serum			
Yes	24	10.4	2.6
No	221	89.6	2.6
DK/NR	0		
Missing	0		
Total	245	100	
Homemade fluid recommended by hea	lth authori	ties	
Yes	17	6.6	2.1
No	227	93.4	2.1
DK/NR	1		
Missing	0		
Total	245	100	
Antibiotic pill			
Yes	29	12	2.9
No	216	88	2.9
DK/NR	0		
Missing	0		
Total	245	100	



Table D.7.3.3a continued

Table D.7.3.3a continued		Weighted	Weighted
Treatment given	N	%	SE
Antidiarrheal pill			
Yes	18	7.8	2.2
No	227	92.2	2.2
DK/NR	0		
Missing	0		
Total	245	100	
Zinc pill			
Yes	7	1.9	0.9
No	238	98.1	0.9
DK/NR	0		
Missing	0		
Total	245	100	
Other type of pill			
Yes	13	5.9	1.5
No	232	94.1	1.5
DK/NR	0		
Missing	0		
Total	245	100	
Unknown pill			
Yes	30	12.5	2.4
No	214	87.5	2.4
DK/NR	1		
Missing	0		
Total	245	100	
Antibiotic injection			
Yes	2	0.7	0.5
No	243	99.3	0.5
DK/NR	0		
Missing	0		
Total	245	100	



Table D.7.3.3a continued

Table D.7.3.3a continued	Weighted	Weighted	
Treatment given	N	%	SE
Non-antibiotic injection			
Yes	0	0	
No	244	100	
DK/NR	1		
Missing	0		
Total	245	100	
Unknown injection			
Yes	1	0.5	0.4
No	243	99.5	0.4
DK/NR	1		
Missing	0		
Total	245	100	
Intravenous therapy			
Yes	1	0.4	0.4
No	243	99.6	0.4
DK/NR	1		
Missing	0		
Total	245	100	
Home remedy / herbal medicine			
Yes	44	16.8	3
No	200	83.2	3
DK/NR	1		
Missing	0		
Total	245	100	
Antibiotic syrup			
Yes	63	25.3	3.5
No	181	74.7	3.5
DK/NR	1		
Missing	0		
Total	245	100	
Antidiarrheal syrup			
Yes	16	5.3	1.3
No	227	94.7	1.3
DK/NR	2		
Missing	0		
Total	245	100	



Table D.7.3.3a continued

		Weighted	Weighted
Treatment given	N	%	SE
Zinc syrup			
Yes	5	2.3	1
No	240	97.7	1
DK/NR	0		
Missing	0		
Total	245	100	
Other syrup			
Yes	15	5.8	1.3
No	230	94.2	1.3
DK/NR	0		
Missing	0		
Total	245	100	
Unknown syrup			
Yes	2	1.3	0.9
No	243	98.7	0.9
DK/NR	0		
Missing	0		
Total	245	100	



Table D.7.3.3b Utilization of oral rehydration solution for diarrhea

Percent distribution of children aged 0-59 months who had diarrhea in			
the last two weeks, as reported by their mothers			
		Weighted	Weighted
Treatment given	N	%	SE
Oral rehydration solution and zinc, amo	ng all child	lren with d	iarrhea
Yes	9	2.4	0.8
No	292	97.6	0.8
DK/NR	0		
Missing	0		
Total	301	100	
Oral rehydration solution and zinc, amo	ng those g	iven any tr	eatment
Yes	9	2.9	1
No	242	97.1	1
DK/NR	0		
Missing	50		
Total	301	100	

Table D.7.3.4 Feeding practices during diarrhea

Percent distribution of children aged 0-59 months who had diarrhea in								
the last two weeks, as reported by their	r mothers							
	Weighted	Weighted						
Amount given	N	%	SE					
Volume of fluids (including breastmilk) given during illness								
No fluids	6	2.3	1					
Much less	47	16.1	2.2					
Somewhat less	134	47.3	2.4					
About the same	100	30.7	2.4					
More	14	3.6	1					
DK/NR	0							
Missing	0							
Total	301	100						
Volume of solid foods given during illne	ess							
No solids	15	5	1.3					
Much less	46	15.2	2.4					
Somewhat less	131	46.2	2.6					
About the same	104	32.5	2.5					
More	4	1.1	0.6					
DK/NR	1							
Missing	0							
Total	301	100						



Table D.7.4a Immunization against common childhood illnesses

Percent distribution of children ag	ged 0-59 mo	onths, as re	eported by	their mot	hers	
		Recall		Va	ccination c	ard
		Weighted	Weighted		Weighted	Weighted
Immunization	N	%	SE	N	%	SE
BCG vaccine (tuberculosis), among	g children C	-59 month	ıs			
None recalled/recorded	47	2.8	0.7	108	6.8	1.1
1 dose	1942	96.3	0.7	1661	93.2	1.1
2+ doses	20	0.9	0.3	0	0	
DK/NR, missing	227			467		
Total	2236	100		2236	100	
Oral polio vaccine, among children	n 6-59 mon	ths				
None recalled/recorded	53	3.2	0.8	85	6.1	1.1
1 dose	256	13.9	1	60	4.3	0.8
2 doses	135	8.2	0.9	68	4.7	0.8
3+ doses	1350	74.7	1.6	1359	84.9	1.7
DK/NR, missing	222			444		
Total	2016	100		2016	100	
Pentavalent vaccine (DPT, HepB, F	liB), among	children (6-59 month	ıs		
None recalled/recorded	58	3.6	0.7	95	6.8	0.9
1 dose	188	10.5	1.3	52		0.6
2 doses	129	7.4		116		1
3+ doses	1429	78.4		1309		1.7
DK/NR, missing	212			444		
Total	2016	100		2016		
Pneumoccal conjugate vaccine, an			ths who w			r
None recalled/recorded	51	11.5	1.9	25	5.7	1.5
1 dose	60	13.1	1.9	24		1.9
2 doses	28	6.6		40		1.6
3+ doses	319	68.8	2.9	367		2.6
DK/NR, missing	100	00.0	2.3	102		2.0
Total	558	100		558		
Rotavirus vaccine, among children				330	100	
None recalled/recorded	202	11.7	1.2	163	11	1.2
1 dose	213	12.2	1.1	78		1
2 doses	120	7.7	0.9	140		1.1
3+ doses	1202	68.4	2.1	1188		2.2
DK/NR, missing	279	00.1		447	73.3	
Total	2016	100		2016	100	
Diphtheria, tetanus and pertussis						
None recalled/recorded	198	15.7		223		2
1 dose	1076	78.5		949		
2+ doses	79	5.7	0.9	0		
DK/NR, missing	194	5.7	0.9	375		
Total	1547	100		1547		
Measles, mumps, and rubella (MN						
None recalled/recorded	175	, arriorig ci 12.6				1.6
1 dose	1178	75.3		170		
				1183		
2+ doses	190 232	12.1	1.1	0 422		
DK/NR, missing		400				
Total	1775	100		1775	100	



Table D.7.4b Immunization against common childhood illnesses, according to age group

Percent distribution	of childrer	n, as report	ed by thei	r mothers					
		Recall		Vac	cination ca	ard ^a	Vaccination card ^a plus recall		
		Weighted	Weighted		Weighted	Weighted		Weighted	Weighted
Immunization	N	%	SE	N	%	SE	N	%	SE
Measles, mumps, an	d rubella (MMR) vaco	ine, at leas	st 1 dose a	mong child	lren 12-23 r	months		
Yes	362	86.2	2.3	351	73.5	3.1	403	88.4	2.2
No	48	13.8	2.3	113	26.5	3.1	44	11.6	2.2
DK/NR, missing	65			11			28		
Total	475	100		475	100		475	100	
Fully immunized ^b , an	nong child	ren 18-59 r	nonths						
Yes	727	54.7	2.3	706	43.7	2.6	960	64.4	2.5
No	579	45.3	2.3	800	56.3	2.6	491	35.6	2.5
DK/NR, missing	241			41			96		
Total	1547	100		1547	100		1547	100	
Fully immunized ^b , an	nong child	ren 0-59 m	onths						
Yes	1134	59.3	2.1	1161	49.9	2.6	1477	68.3	2.3
No	748	40.7	2.1	1021	50.1	2.6	627	31.7	2.3
DK/NR, missing	354			54			132		
Total	2236	100		2236	100		2236	100	

^aAmong 1,778 children aged 0-59 months who had a vaccine card available for review (80 percent of the sample, unweighted) 0 Full immunization for age is defined as follows: 0-2 months (BCG x1); >2-4 months (BCG x1, OPV x1, Penta x1, Pneum x1, Rota x1); >4-6 months (BCG x1, OPV x2, Penta x2, Pneum x2, Rota x2); >6-12 months (BCG x1, OPV x3, Penta x3, Pneum x3, Rota x3); >12-18 months (BCG x1, OPV x3, Penta x3, Pneum x3, Rota x3, MMR x1); >18-59 months (BCG x1, OPV x3, Penta x3, Pneum x3, Rota x3, MMR x1, DPT x1). All Pneum compliance is calculated among children born 2012 or later.



Table D.7.5 De-worming treatment

Percent distribution of children, as reported by their mothers								
Treatment given	N	%	SE					
De-worming treatment given at least two times in the last 12 months,								
among children age 12-59 months								
Yes	561	32.6	1.1					
No	1122	67.4	1.1					
DK/NR	3							
Missing	31							
Total	1717	100						

Table D.8.1 Breastfeeding

Table D.8.1 Breastreeding								
Percentage of children								
		Weighted	Weighted					
Characteristic	N	%	SE					
Early initiation of breastfeeding (among children <24 months)								
Yes	1061	81.7	1.5					
No	244	18.3	1.5					
Missing, DK/NR	28							
Total	1333	100						
Exclusive breastfeeding (among childre	n 0-5 mont	ths)						
Yes	111	55.6	4.6					
No	104	44.4	4.6					
Missing, DK/NR	5							
Total	220	100						
Continued breastfeeding at 1 year (amo	ng childre	n 12-15 mc	nths)					
Yes	89	56.4	5					
No	61	43.6	5					
Missing, DK/NR	4							
Total	154	100						



Table D.8.2 Solid foods

Percentage of children							
Characteristic	N	Weighted %	Weighted SE				
Introduction of solid foods (among child	dren 6-8 m	onths)					
Yes	86	81.4	4.7				
No	17	18.6	4.7				
Missing, DK/NR	1						
Total	104	100					
Minimum dietary diversity (among child	dren 6-23 n	nonths)					
Yes	336	44.9	2.6				
No	369	55.1	2.6				
Missing, DK/NR	11						
Total	716	100					
Minimum meal frequency (among child	ren 6-23 m	onths)					
Yes	342	50.1	2.4				
No	309	49.9	2.4				
Missing, DK/NR	65						
Total	716	100					
Minimum acceptable diet (among child	ren 6-23 m	onths)					
Yes	162	21.9	2				
No	533	78.1	2				
Missing, DK/NR	21						
Total	716	100					
Consumption of iron-rich foods (among children 6-23 months)							
Yes	261	35.9	2.6				
No	444	64.1	2.6				
Missing, DK/NR	11						
Total	716	100					



Table D.8.3 Micronutrient supplements

Percentage of children who received	1	Weighted	Weighted
Type of supplement	N	%	SE
Vitamin A in the last six months (amo	ong children a	ged 0-59 n	nonths)
Yes	913	39.6	2
No	1267	60.4	2
DK/NR	17		
Missing	39		
Total	2236	100	
Iron in the last day (among children a	aged 0-59 mor	nths)	
Yes	130	5.6	0.7
No	2061	94.4	0.7
DK/NR	6		
Missing	39		
Total	2236	100	
Packets of micronutrients in the last	six months (a	mong child	dren aged
6-23 months)			
0 times	688	99.2	0.4
1-10 times	1	0.1	0.1
11-20 times	1	0.1	0.1
21-30 times	0	0	
31-40 times	1	0.1	0.1
41-50 times	1	0.1	0.1
51-59 times	0	0	
60+ times	3	0.4	0.3
DK/NR	8		
Missing	11		
Total	714	100	



Table D.9 Age and sex of children measured

Percent distribution of the de facto population of children age 0-59
months who underwent the Physical Measurement Module, by sex
and type of measurement, unweighted data

and type of measurement, driweighte	a aata		
	Female	Male	Total
Measurement	(%)	(%)	(%)
Height and weight			
0-5	9.9	10.3	10.1
6-11	11.4	10.4	10.9
12-23	21.8	21	21.4
24-35	19.1	19.7	19.4
36-47	19.2	18.4	18.8
48-59	18.7	20.2	19.4
Total	100	100	100
Number of children	1074	1086	2160
Anemia			
0-5	1.2	1	1.1
6-11	12.2	11.3	11.8
12-23	24.2	22.8	23.5
24-35	20.8	22.1	21.4
36-47	21	20.4	20.7
48-59	20.6	22.4	21.5
Total	100	100	100
Number of children	962	961	1923

Distribution of Weight for Age Z Scores, Unweighted

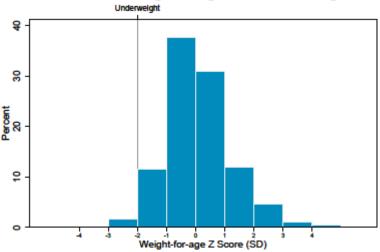


Figure D.9.1.1 Distribution of weight-for-age z-scores among children aged 0-59 months



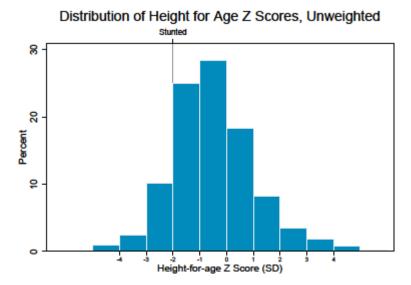


Figure D.9.2.1 Distribution of height-for-age z-scores among children aged 0-59 months

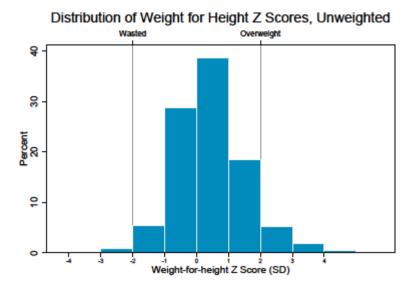


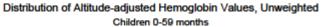
Figure D.9.3.1 Distribution of weight-for-height z-scores among children aged 0-59 months



Table D.9.2 Prevalence of underweight in children aged 0-59 months

Percentage of children under five years classified as malnourished according to three anthropometric indices of nutritional status; weight-for-height, height-for-age, and weight-for-age, by age and sex

ndthitional status. Weight-101-height, height-101-age, and weight-101-age, by age and sex									
	Weight for age (underweight)		Height- (stun	for-age ting)	Weight-for-height (wasting)				
	Percent <	Percent <	Percent >	Percent <	Percent <	Percent <	Percent <	Percent >	Number of
Characteristic	-3 SD	-2 SD	+2 SD	-3 SD	-2 SD	-3 SD	-2 SD	+2 SD	children
Total	1.1	4.3	4.7	4	14	0.6	1.5	6.7	2236
Sex									
Male	0.8	3.7	5.2	5.1	15.3	0.4	1.4	7.7	1119
Female	1.3	5	4.1	2.9	12.6	0.8	1.7	5.7	1106
Age in months									
0-5	1.3	2.5	14.3	0	0.9	2.2	4	6.3	220
6-23	0.9	1.2	8.4	1.1	4.3	0	0.4	10	241
12-23	0.1	2.1	5.8	2.5	11.5	0.2	1.4	7.6	475
24-59	1.3	6.2	1.8	6	19.5	0.5	1.2	5.8	1234



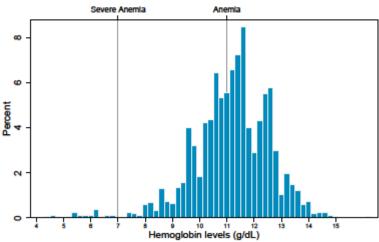


Figure D.9.4.1 Distribution of hemoglobin values among children aged 0-59 months



Table D.9.4.2 Prevalence of anemia in children aged 0-59 month

		Weighted Anemia Prevalence				
Characteristic	N <7 g/dL					
Age in months						
0-5	220	12.5	67			
6-11	241	1.3	66.6			
12-23	475	2.7	48.9			
24-59	1300	1.1	32			
0-59	2236	1.6	40.5			
6-23	716	2.2	54.8			
Sex						
Male	1119	1.6	40.6			
Female	1106	1.6	40.3			

Table D.10.1.1 Exposure to community health workers

Percent distribution of women							
		Weighted	Weighted				
Characteristic	N	%	SE				
Met with a community health worker in	onth						
Yes	63	2	0.4				
No	2745	98	0.4				
DK/NR	2						
Missing	13						
Total	2823	100					
Number of times respondent met with	a commun	ity health	worker in				
the last month							
Did not meet	2745	98	0.4				
One time	44	1.1	0.3				
Two times	15	0.7	0.3				
Three times	2	0.1	0.1				
Four or more times	2	0.1	0.1				
DK/NR	2						
Missing	13						
Total	2823	100					



Table D.10.1.2 Services provided by community health workers

worker in the last month			
			Weighted
Type of service	N	%	SE
Referral for prenatal care			
Yes	24	34.6	8
No	39	65.4	8
DK/NR	0		
Missing	0		
Total	63	100	
Referral for in-facility deliver	γ		
Yes	15	19.6	6.1
No	48	80.4	6.1
DK/NR	0		
Missing	0		
Total	63	100	
Referral for postnatal care			
Yes	23	42.8	9.1
No	40	57.2	9.1
DK/NR	0		
Missing	0		
Total	63	100	
Referral for voluntary counse	ling and testing for th	ne prevent	ion of
HIV/syphilis transmission fro		·	
Yes	20	29.9	7.8
No	43	70.1	7.8
DK/NR	0		
Missing	0		
Total	63	100	
Advice about family planning	and contraception		
Yes	42	66.2	9.8
No	21	33.8	9.8
DK/NR	0		
Missing	0		
Total	63	100	
	03	130	
Unite vaccination	40	49.8	9.7
Child vaccination Yes	10		9.7
Yes	22	50.7	
Yes No	23	50.2	3.7
Yes	23 0 0	50.2	3.7



Percent distribution of women who met with a community health					
worker in the last month					
		Weighted	Weighted		
Type of service	N	%	SE		
Advice about child nutrition					
Yes	38	59.8	9.4		
No	25	40.2	9.4		
DK/NR	0				
Missing	0				
Total	63	100			
Information, education, and communica	ation sessi	ons			
Yes	27	49.6	9.5		
No	36	50.4	9.5		
DK/NR	0				
Missing	0				
Total	63	100			
Other					
Yes	16	24.7	7.4		
No	47	75.3	7.4		
DK/NR	0				
Missing	0				
Total	63	100			



Table D.10.4.1 Exposure to breastfeeding, child nutrition, and child health interventions

Percent distribution among women with children under 5					
		Weighted	Weighted		
Characteristic	N	%	SE		
Received guidance or advice about brea	stfeeding	in the last	12		
months					
Yes	526	27.5	1.7		
No	1328	71	1.7		
DK/NR	2				
Missing	13				
Total	1869	100			
Received guidance or advice about child	d nutrition	in the last	12		
months					
Yes	504	25.9	1.5		
No	1351	72.7	1.5		
DK/NR	1				
Missing	13				
Total	1869	100			
Received guidance or advice about danger signs for children's health					
in the last 12 months					
Yes	512	26.6	1.6		
No	1343	72	1.6		
DK/NR	1				
Missing	13				
Total	1869	100			



Table D.10.4.2 Exposure to child health interventions, by source

Percentage of women with children under 5 who received guidance or advice about breastfeeding, child nutrition and danger signs for children's health in the last 12 months, and among them, the percentage of women with guidance or advice from specific sources

	Intervention type			
	Breast-	Child	Child	
Characteristic	feeding	nutrition	health	
Received guidance or advice about interventions for				
children's health in the last 12 months (%)	27.9	26.2	27	
Number of women	1871	1871	1871	
Source of advice (%)				
Public hospital	29.5	26.4	25.5	
Public health unit	48.9	48.2	50.9	
Public health center/clinic	18.5	20.5	19.2	
Public mobile clinic	0.1	0	0.3	
Other public health center	0.4	0.5	0.5	
Private hospital	0.9	0.6	0.6	
Private health center/clinic	2.2	2.1	2.2	
Private office	0.9	0.7	0.6	
Private mobile clinic	0	0.2	0.1	
Other private health center	0.2	0.2	0.2	
Pharmacy	0	0	0	
Community health worker	0.6	0.2	0.2	
Traditional healer	0	0	0	
Other	0.9	1.4	1.7	
DK/NR, missing	0	0	0	
Number of women	526	504	512	

Table D.10.5 Satisfaction with community health workers

Percent distribution of women who met with a community health worker in the last month by level of satisfaction in different fields

	Level of satisfaction				
	Very dis-	Dis-		Very	
Field of satisfaction	satisfied	satisfied	Satisfied	satisfied	Total
Number of visits received from community health workers	5.3	4	81.7	9	100
Knowledge and training of community health workers	6	3.5	83.7	6.8	100
Information provided by community health workers	8.5	2.6	76.6	12.2	100
Respectfulness shown by community health workers	8.6	2.3	81.8	7.3	100

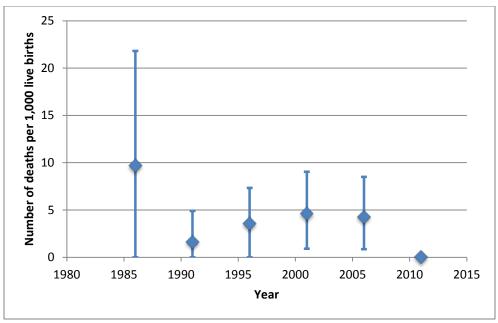


Figure D.11.1 Neonatal mortality estimated from complete birth history data obtained from the SM2015-Nicaragua Baseline Household Survey, 2013

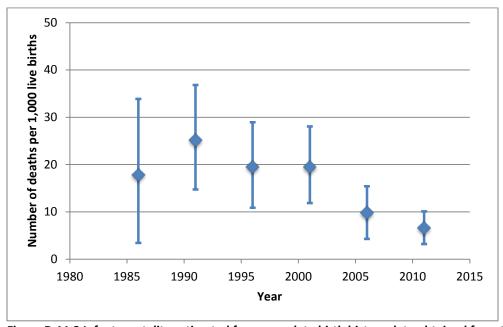


Figure D.11.2 Infant mortality estimated from complete birth history data obtained from the SM2015-Nicaragua Baseline Household Survey, 2013

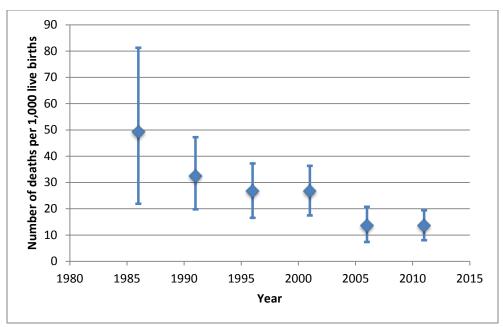


Figure D.11.3 Mortality in children under five years of age estimated from complete birth history data obtained from the SM2015-Nicaragua Baseline Household Survey, 2013

Table D.11.3a Mortality in children under 5 years of age in the target area of the initiative

Based on complete birth history data from the five years preceding			
the interview, among study areas, Mexico 2013			
Deaths per 1,000			
Child mortality indicator	live births	95% CI	
Neonatal mortality	0.0	(0.0-0.0)	
Infant mortality	6.6	(3.2-10.1)	
Under-5 mortality	13.6	(8.0-19.4)	



APPENDIX E. CHARACTERISTICS OF RESPONDENTS IN CONTROL SEGMENTS

Table E.2.3.1 Household composition: age and sex

Percent distribution of the de facto household population by five-year age groups based on the household roster completed as part of the SM2015 Household Survey

Household 3d	iivey		
Age	Male (%)	Female (%)	Total (%)
<5	11.1	10.7	10.9
5-9	11.9	11	11.4
10-14	11.7	11.4	11.5
15-19	11.6	10.7	11.1
20-24	10.5	10.3	10.4
25-29	8.1	8.7	8.4
30-34	8	8.1	8
35-39	5.8	5.8	5.8
40-44	4.8	5.1	5
45-49	4.2	4.4	4.3
50-54	3.7	3.6	3.7
55-59	2.6	2.9	2.7
60-64	2	2	2
65-69	1.2	1.7	1.5
70-74	1.1	1.3	1.2
75-79	0.7	1.1	0.9
80+	1.1	1.3	1.2
Total	100	100	100
N	7125	7435	14560



Table E.2.3.2 Household composition

Number of households, women and cl	hildren; and p	ercent dis	tribution
of households by sex of head of the h	ousehold, nui	mber of us	ual
members, and marital status of memb	ers 15+		
Household characteristic	%	SE	
Number of households	771		
Number of women	1103		
Number of children	818		
Sex of the head of the household			
Male	528	68.5	1.7
Female	243	31.5	1.7
DK/DTR	0		
Missing	0		
Total	771	100	
Number of usual members			
1	1	0.1	0.1
2	12	1.6	0.4
3	132	17.1	1.4
4	157	20.4	1.5
5	146	18.9	1.4
6	102	13.2	1.2
7	84	10.9	1.1
8	47	6.1	0.9
9+	90	11.7	1.2
DK/DTR	0		
Missing	0		
Total	771	100	
Marital status of members of the hous	sehold		
Single	857	33.3	0.9
Married	717	27.8	0.9
Open union / partnered	879	34.1	0.9
Widow / divorced / separated	122	4.7	0.4
Other	2		
DK/DTR	0		
Missing	2577	100	
Total	4353	100	



Table E.2.4.1a Household characteristics: water source

Percent distribution of households by s	ource of di	rinking wat	ter,			
location of water source and round trip time to obtain drinking water						
		Weighted	Weighted			
Household characteristic	N	%	SE			
Source of drinking water						
Pipes that lead to the house	476	59	6.3			
Pipes that lead to the patio/yard	62	8.9				
Public pump	13	1.7	0.8			
Tube or drilled well	26	3.9	1.3			
Protected dug well	73	10	2.5			
Unprotected dug well	44	6.5	2.2			
Protected spring	20	2.9	1.1			
Unprotected spring	18	3	1.3			
Rainwater	0	0				
Water tank truck	0	0				
Car with a small tank	0	0				
Surface water	11	1.5	0.6			
Bottled water	4	0.5	0.2			
Water jug	5	0.8	0.4			
Other	10	1.4	0.5			
DK/DTR	0					
Missing	9					
Total	771	100				
Location of water source						
In own house/home	502	63.1	5.6			
In own patio/yard	91	13.3	2.4			
Elsewhere	169	23.5	4.8			
DK/DTR	0					
Missing	9					
Total	771	100				
Time to obtain drinking water (round tr	ip)					
Water on premesis	590	77.2	4.9			
Less than 30 minutes	136	19.4	4.3			
30 minutes or longer	25	3.4	0.9			
DK/DTR	0					
Missing	20					
Total	771	100				



Table E.2.4.1b Household characteristics: sanitation

Percent distribution of households by sanitation facility type and if					
the facility is shared					
		Weighted	Weighted		
Household characteristic	N	%	SE		
Sanitation facility					
Flushing toilet	207	22.9	5.8		
Toilet with water poured from gourds	17	2.4	0.7		
Latrine / pit toilet	455	62.6	6		
Dry toilet	3	0.4	0.2		
No toilet, bushes, field	76	11.1	2.9		
Other	4	0.5	0.3		
DK/DTR	0				
Missing	9				
Total	771	100			
Shared toilet/facilities, among househo	olds using a	ny type of	toilet		
Yes	83	12.8	1.4		
No	598	87.2	1.4		
DK/DTR	1				
Missing	0				
Total	682	100			



Table E.2.4.2 Household characteristics: cooking fuel

Percent distribution of households by cooking fuel source and the						
location for cooking food; and percentage of households with a						
separate kitchen						
		Weighted	Weighted			
Household characteristic	N	%	SE			
Cooking fuel source (the respondent w	as to selec	t all source	s that			
applied)						
Electricity	8	1	0.3			
Gas tank	219	24.4	5.7			
Coal	1	0.1	0.1			
Wood	637	87.3	4.1			
Straw/twigs/grass	4	0.5	0.3			
Agricultural crops	0	0				
No food is cooked at home	0	0				
Other	0	0				
DK/DTR	0					
Missing	9					
Total	771					
Location for cooking food, among those	who repo	rted a cool	king fuel			
source						
In the house	588	77.1	2.8			
In a separate building	145	19.2	2.4			
Outside	27	3.4	0.8			
Other	2	0.2	0.2			
DK/DTR	0					
Missing	0					
Total	762	100				
Separate kitchen, among those who rep	orted a co	oking fuel	source			
and cook in the home						
Yes	465	79.9	2.5			
No	123	20.1	2.5			
DK/DTR	0					
Missing	0					
Total	588	100				



Table E.2.4.3a Availability of assets: household effects

Percent distrib	Percent distribution of households with specific household effects									
Household		Weighted	Weighted	Household		Weighted	Weighted			
characteristic	N	%	SE	characteristic	N	%	SE			
Electricity				Refrigerator						
Yes	593	75.6	6.5	Yes	212	24.5	4.6			
No	169	24.4	6.5	No	550	75.5	4.6			
DK/DTR	0			DK/DTR	0					
Missing	9			Missing	9					
Total	771	100		Total	771	100				
Radio				Computer						
Yes	509	67.4	2.6	Yes	79	7.8	2.7			
No	253	32.6	2.6	No	683	92.2	2.7			
DK/DTR	0			DK/DTR	0					
Missing	9			Missing	9					
Total	771	100		Total	771	100				
Television				Wristwatch						
Yes	474	59.7	5.5	Yes	276	35.4	2.6			
No	288	40.3	5.5	No	486	64.6	2.6			
DK/DTR	0			DK/DTR	0					
Missing	9			Missing	9					
Total	771	100		Total	771	100				
Cell phone				Guitar						
Yes	563	72.7	3.8	Yes	39	4.4	1			
No	199	27.3	3.8	No	723	95.6	1			
DK/DTR	0			DK/DTR	0					
Missing	9			Missing	9					
Total	771	100		Total	771	100				
Telephone (lan	idline)									
Yes	42	3.9	1.7							
No	719	96.1	1.7							
DK/DTR	1									
Missing	9									
Total	771	100								



Table E.2.4.3b Availability of assets: means of transportation

Percentage of households with s	Percentage of households with specific means of transport						
		Weighted	_				
Household characteristic	N	%	SE				
Bicycle							
Yes	273	35	3.3				
No	489	65	3.3				
DK/DTR	0						
Missing	9						
Total	771	100					
Motorcycle / scooter							
Yes	119	15.5	1.8				
No	643	84.5	1.8				
DK/DTR	0						
Missing	9						
Total	771	100					
Animal-driven cart							
Yes	10	1.1	0.4				
No	752	98.9	0.4				
DK/DTR	0						
Missing	9						
Total	771	100					
Car							
Yes	53	6.3	1.2				
No	709	93.7	1.2				
DK/DTR	0						
Missing	9						
Total	771	100					
Truck							
Yes	6	0.7	0.4				
No	756	99.3	0.4				
DK/DTR	0						
Missing	9						
Total	771	100					



Table E.2.4.3c Availability of assets: other assets

Percentage distribution of num and percentage of households account, agricultural land and a	with owner		
Household characteristic	N	Weighted %	Weighted SE

account, agricultural land and an		Weighted	Weighted
Household characteristic	N	%	SE
Rooms used for sleeping			
Zero	12	1.6	0.5
One	328	44.8	3.4
Two	251	32.9	1.9
Three or more	171	20.6	3.3
DK/DTR	0		
Missing	9		
Total	771	100	
Ownership of bank account			
Yes	63	6.6	1.7
No	699	93.4	1.7
DK/DTR	0		
Missing	9		
Total	771	100	
Ownership of agricultural land			
Yes, own	168	22.2	2.9
Yes, rent	50	6.8	1.5
Yes, share/community share	17	2.1	0.7
No	527	68.9	3.7
DK/DTR	0		
Missing	9		
Total	771	100	
Ownership of animals (bull or co	w, mule, g	oat, chicke	n, or pig)
Yes	430	59.2	4.5
No	332	40.8	4.5
DK/DTR	0		
Missing	9		
Total	771	100	



Table E.2.5.1a Total household expenditures per person

Percent distribution of households by monthly total expenditure							
per person							
		Weighted	Weighted				
Characteristic	N	%	SE				
Monthly expenditure per person (có	dobas)						
Less than C\$200	75	10.1	2				
C\$200 - <400	155	20.6	2				
C\$400 - <600	128	17.8	1.8				
C\$600 - <800	110	15.4	1.7				
C\$800 - <1000	71	9.4	1.5				
C\$1000+	223	26.8	3.6				
Missing	9						
Total	771	100					



Table E.2.5.1b Household expenditures by type

Percent distrib	ution of ho				a proportio	n of total h	nousehold	monthly expen	diture		
Expenditure		Weighted	Weighted	Expenditure		Weighted	Weighted	Expenditure		Weighted	Weighted
category	N	%	SE	category	N	%	SE	category	N	%	SE
Food				Housing, gas, e	lectricity,	and water		Transportation			
0%	10	1.3	0.4	0%	184	27.3	6.9	0%	426	56	2.4
0.1% - 9%	6	0.7	0.3	0.1% - 9%	355	46.6	5.1	0.1% - 9%	229	30	2.5
10% - 24%	25	2.7	0.8	10% - 24%	157	18.7	3.1	10% - 24%	85	11.3	1.4
25% - 49%	154	19.8	1.8	25% - 49%	43	4.9	1.3	25% - 49%	16	2.4	0.6
50% - 74%	243	33.2	2.2	50% - 74%	9	1.1	0.4	50% - 74%	0	0	
75% - 89%	184	25	2.4	75% - 89%	2	0.2	0.2	75% - 89%	2	0.3	0.2
≥90%	118	17.2	2.8	≥90%	9	1.1	0.4	≥90%	1	0.1	0.1
DK/DTR	22			DK/DTR	1			DK/DTR	1		
Missing	9			Missing	11			Missing	11		
Total	771	100		Total	771	100		Total	771	100	
Alcoholic beve	rages, toba	acco, and n	arcotics	Clothing and fo	ootwear			Communication	n		
0%	617	83	1.2	0%	492	65.7	2.5	0%	333	45.1	3.8
0.1% - 9%	71	8.9	0.8	0.1% - 9%	80	9.3	1.7	0.1% - 9%	375	48.4	3.6
10% - 24%	47	6	1.1	10% - 24%	127	17.2	1.6	10% - 24%	40	5.3	0.7
25% - 49%	12	1.6	0.4	25% - 49%	45	6.1	1.1	25% - 49%	5	0.7	0.3
50% - 74%	4	0.5	0.2	50% - 74%	9	1.2	0.5	50% - 74%	1	0.2	0.2
75% - 89%	0	0		75% - 89%	0	0		75% - 89%	0	0	
≥90%	0	0		≥90%	2	0.3	0.2	≥90%	2	0.4	0.3
DK/DTR	9			DK/DTR	5			DK/DTR	4		
Missing	11			Missing	11			Missing	11		
Total	771	100		Total	771	100		Total	771	100	
				Furniture, hou	sehold equ	ipment an	d routine				
Education tuiti	on, fees ar	nd school s	upplies	household ma	intenance			Recreation, cul	ture, resta	urants and	hotels
0%	269	38	2.5	0%	681	91.6	1.5	0%	675	92	1.9
0.1% - 9%	354	46.5	2.6	0.1% - 9%	44	5.2	1.3	0.1% - 9%	66	7.5	1.7
10% - 24%	91	12.5	1.2	10% - 24%	17	1.9	0.6	10% - 24%	5	0.5	0.3
25% - 49%	18	2.2	0.6	25% - 49%	8	1	0.4	25% - 49%	1	0.1	0.1
50% - 74%	3	0.5	0.4	50% - 74%	3	0.4	0.3	50% - 74%	0	0	
75% - 89%	0	0		75% - 89%	0	0		75% - 89%	0	0	
≥90%	2	0.3	0.2	≥90%	0	0		≥90%	0	0	
DK/DTR	23			DK/DTR	7			DK/DTR	13		
Missing	11			Missing	11			Missing	11		
Total	771	100		Total	771	100		Total	771	100	



Table E.2.5.1c Household health care expenditures by type

	Percent distribution of households health care expenditures by type, as a proportion of									
total househol				·	, ,, ,					
Expenditure		Weighted	Weighted	Expenditure		Weighted	Weighted			
category	N	%	SE	category	N	%	SE			
Out-of-pocket health care			Private insurar	ice premiu	ms					
0%	530	71.1	2.9	0%	755	99.7	0.2			
0.1% - 9%	120	14.8	2	0.1% - 9%	4	0.3	0.2			
10% - 24%	80	10.1	1	10% - 24%	0	0				
25% - 49%	24	3.2	0.7	25% - 49%	0	0				
50% - 74%	6	0.7	0.3	50% - 74%	0	0				
75% - 89%	0	0		75% - 89%	0	0				
≥90%	0	0		≥90%	0	0				
DK/DTR	0			DK/DTR	1					
Missing	11			Missing	11					
Total	771	100		Total	771	100				
				Other costs associated with accessing health						
Social security	premiums			care						
0%	688	91.8	1.8	0%	750	99	0.4			
0.1% - 9%	54	6.3	1.5	0.1% - 9%	9	1	0.4			
10% - 24%	14	1.6	0.5	10% - 24%	0	0				
25% - 49%	3	0.3	0.2	25% - 49%	0	0				
50% - 74%	0	0		50% - 74%	0	0				
75% - 89%	0	0		75% - 89%	0	0				
≥90%	0	0		≥90%	0	0				
DK/DTR	1			DK/DTR	1					
Missing	11			Missing	11					
Total	771	100		Total	771	100				



Table E.2.5.2 Household medical expenditures by type

				oenditures b											
					e of care a	s a proport	tion of tota	al household m	onthly hea	lth expend	iture, amo	ong households	with any re	eported ou	t-of-
pocket health	are expen														
Expenditure		Weighted	Weighted	Expenditure		Weighted	Weighted	Expenditure		Weighted	Weighted	Expenditure		Weighted	Weighted
category	N	%	SE	category	N	%	SE	category	N	%	SE	category	N	%	SE
Care that requi	red overni	ght stay in	a	Care by tradition	onal or alte	rnative he	alers, or	Care by pharm	acists or m	edications	bought	Diagnostic and	laboratory	tests such	as X-rays
hospital or hea	Ith facility			traditional birt	h attendan	ts		from a pharma	cy without	a prescrip	tion	or blood tests			
0%	213	93	2.2	0%	230	100		0%	127	57.4	4.9	0%	186	83	3.1
0.1% - 9%	0	0		0.1% - 9%	0	0		0.1% - 9%	11	4.6	1.3	0.1% - 9%	3	1.6	0.9
10% - 24%	2	0.6	0.4	10% - 24%	0	0		10% - 24%	20	7.9	2.1	. 10% - 24%	13	4.6	1.6
25% - 49%	3	1.2	0.8	25% - 49%	0	0		25% - 49%	14	5.4	1.8	25% - 49%	10	4.1	1.5
50% - 74%	2	1.1	0.8	50% - 74%	0	0		50% - 74%	5	1.7	1.1	50% - 74%	2	0.6	0.4
75% - 89%	1	0.4	0.4	75% - 89%	0	0		75% - 89%	1	0.5	0.5	75% - 89%	2	0.7	0.5
≥90%	9	3.8	1.3	≥90%	0	0		≥90%	50	22.7	3.5	≥90%	14	5.3	1.5
DK/DTR	0			DK/DTR	0			DK/DTR	3			DK/DTR	0		
Missing	1			Missing	1			Missing	0			Missing	1		
Total	231	100		Total	231	100		Total	231	100		Total	231	100	
Other costs ass	ociated wi	th staying	overnight					Health care pro	oducts such	prescripti	on				
in a hospital or	health faci	ility		Dentists			glasses, hearing aids, prosthetic devices, etc.			Other health c	are product	s or servic	es		
0%	221	96.3	1.6	0%	215	94.3	1.8	0%	217	95.5	1.4	0%	223	96.3	2.1
0.1% - 9%	4	1.6	1	0.1% - 9%	0	0		0.1% - 9%	0	0		0.1% - 9%	0	0	
10% - 24%	1	0.4	0.5	10% - 24%	0	0		10% - 24%	1	0.5	0.4	10% - 24%	2	1.1	0.8
25% - 49%	0	0		25% - 49%	3	1.4	0.7	25% - 49%	1	0.3	0.3	25% - 49%	1	0.4	0.4
50% - 74%	1	0.4	0.4	50% - 74%	1	0.4	0.4	50% - 74%	5	2	0.8	50% - 74%	0	0	
75% - 89%	0	0		75% - 89%	0	0		75% - 89%	0	0		75% - 89%	0	0	
≥90%	3	1.3	0.7	≥90%	11	3.9	1.4	≥90%	6	1.8	0.9	≥90%	4	2.1	1.4
DK/DTR	0			DK/DTR	0			DK/DTR	0			DK/DTR	0		
Missing	1			Missing	1			Missing	1			Missing	1		
Total	231	100		Total	231	100		Total	231	100		Total	231	100	
Care by doctors	, nurses, o	r other he	alth												
workers that di	d not requ	ire overnig	ght stay	Medications p	escribed by	y health p	ersonnel								
0%	214	93.4	1.3	0%	113	51.7	3.6								
0.1% - 9%	2	0.8	0.6	0.1% - 9%	1	0.5	0.5								
10% - 24%	2	0.8	0.6	10% - 24%	5	1.6	0.8								
25% - 49%	7	3	1	25% - 49%	24	9.7	1.8								
50% - 74%	0	0		50% - 74%	17	7.3	1.6								
75% - 89%	1	0.5	0.4	75% - 89%	4	1.4	1								
≥90%	4	1.7	0.8	≥90%	66	27.8	3								
DK/DTR	0			DK/DTR	0										
Missing	1			Missing	1										
Total	231	100		Total	231	100									



Table E.2.5.3 Household medical expenditures by source of financing

Percent distrib	ution of ho	useholds	by source	of medical expe	enditures a	s a percen	tage of rep	orted total hou	usehold me	dical expe	nditures fo	or overnight h	ospital stays	in the last	12
months, amon	g those hou	useholds w	ith overni	ight hospital sta	iys										
Financing		Weighted	Weighted	Financing		Weighted	Weighted	Financing		Weighted	Weighted	Financing		Weighted	Weighted
source	N	%	SE	source	N	%	SE	source	N	%	SE	source	N	%	SE
Any of the hou	sehold me	mbers' cur	rent	Health insuran	ce plan pa	yment or									
income				reimbursemer	nt			Property sold				Political dona	tions or gra	nts	
0%	37	38.9	5.5	0%	99	100		0%	97	98	1.4	0%	98	99.2	0.8
0.1% - 9%	0	0		0.1% - 9%	0	0		0.1% - 9%	0	0		0.1% - 9%	0	0	
10% - 24%	1	0.9	1	10% - 24%	0	0		10% - 24%	0	0		10% - 24%	0	0	
25% - 49%	4	3.7	2.3	25% - 49%	0	0		25% - 49%	0	0		25% - 49%	0	0	
50% - 74%	6	6.3	2.1	50% - 74%	0	0		50% - 74%	0	0		50% - 74%	0	0	
75% - 89%	0	0		75% - 89%	0	0		75% - 89%	0	0		75% - 89%	0	0	
≥90%	51	50.1	6	≥90%	0	0		≥90%	2	2	1.4	≥90%	1	0.8	0.8
DK/DTR	0			DK/DTR	0			DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0			Missing	0			Missing	0		
Total	99	100		Total	99	100		Total	99	100		Total	99	100	
				Items sold (e.g	., furniture	, animals,	or	Money from re	elatives or f	riends wh	o do not				
Savings (e.g. b	ank accoun	t)		iewelry)	, ,	•		belong to the				Another sour	ce		
0%	88	89.2	3.3	0%	97	98.3	1.2	0%	87	89.8	3.7	0%	92	90.8	4.1
0.1% - 9%	1	0.6	0.6	0.1% - 9%	0	0		0.1% - 9%	0	0		0.1% - 9%	0	0	
10% - 24%	0	0		10% - 24%	0	0		10% - 24%	0	0		10% - 24%	0	0	
25% - 49%	1	1	1	25% - 49%	0	0		25% - 49%	3	2.4	1.7	25% - 49%	1	1.1	1.1
50% - 74%	3	3.2	1.8	50% - 74%	0	0		50% - 74%	3	2.6	1.5	50% - 74%	0	0	
75% - 89%	0	0		75% - 89%	0	0		75% - 89%	0	0		75% - 89%	0	0	
≥90%	6	6.1	2.9	≥90%	2	1.7	1.2	≥90%	6	5.2	2.2	≥90%	6	8.1	4.1
DK/DTR	0			DK/DTR	0			DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0			Missing	0			Missing	0		
Total	99	100		Total	99	100		Total	99	100		Total	99	100	
				Money loaned	from some	eone who	is not a	Remittances fr	rom family	members	or friends				
Reducing othe	r househol	d spending	Į	friend of the fa				abroad	,						
0%	88	89.5		0%	86	86.7	3.3	0%	94	96.2	1.9				
0.1% - 9%	0	0		0.1% - 9%	0			0.1% - 9%	0	0					
10% - 24%	0	0		10% - 24%	0			10% - 24%	0	0					
25% - 49%	2	1.7	1.2	25% - 49%	2	-		25% - 49%	0	0					
50% - 74%	0	0		50% - 74%	2			50% - 74%	1	0.7					
75% - 89%	1	1		75% - 89%	0			75% - 89%	0	0.7					
≥90%	8	7.8		≥90%	9	-		≥90%	4	3.1					
DK/DTR	0	7.0	2.7	DK/DTR	0		2.3	DK/DTR	0	3.1	1.0				
Missing	0			Missing	0			Missing	0						
Total	99	100		Total	99			Total	99	100					



Table E.3.1.1 Demographic characteristics of respondents

Percent distribution of the househo	ld population b	y age, mari	tal			
status and respondent's relationship to the head of the household						
Background characteristic	N	%	SE			
Age						
15-19 years	216	19.6	1.2			
20-24 years	261	23.7	1.3			
25-29 years	213	19.3	1.2			
30-34 years	160	14.5	1.1			
35-39 years	99	9	0.9			
40-44 years	74	6.7	0.8			
45-49 years	80	7.3	0.8			
Missing	0					
Total	1103	100				
Marital status						
Single	364	33	1.4			
Married	284	25.7	1.3			
Open union / partnered	420	38.1	1.5			
Divorced	4	0.4	0.2			
Separated	26	2.4	0.5			
Widowed	4	0.4	0.2			
Other	0	0				
DK/DTR	1	0.1	0.1			
Missing	0					
Total	1103	100				
Respondent's relationship to the he	ad of household	d				
Head of the household	126	11.4	1			
Spouse	207	18.8	1.2			
Biological child	330	29.9	1.4			
Adopted / step child	17	1.5	0.4			
Grandchild	29	2.6	0.5			
Niece / nephew	12	1.1	0.3			
Mother / father	1	0.1	0.1			
Sister / brother	16	1.5	0.4			
Daughter-in-law / son-in-law	94	8.5	0.8			
Sister-in-law / brother-in-law	5	0.5	0.2			
Grandparent	0	0				
Mother-in-law / father-in-law	0	0				
Other relative	2	0.2	0.1			
Non-relative	18	1.6	0.4			
Life partner	239	21.7	1.2			
Other	7	0.6	0.2			
Missing	0					
Total	1103	100				



Table E.3.1.2 Department and municipality of residence of respondents

Municipality	No. of women				
Jinotega	592				
San Juan Río Coco	268				
Telpaneca	243				

Table E.3.2.1 Educational attainment and literacy

Percentage of women age 15-49 who attended school; percentage of women who attended a literacy course; percent distribution by highest level of education attended, among those who attended school; and literacy of women

		_	Weighted
Education characteristic	N	%	SE
Education			
Attended school	989	87.6	2.4
Did not attend school	107	12.4	2.4
DK/DTR	1		
Missing	6		
Total	1103	100	
Literacy course			
Attended literacy course	152	15.5	2
Did not attend literacy course	945	84.5	2
DK/DTR	0		
Missing	6		
Total	1103	100	
Highest level of education, among thos	e who atte	nded scho	ol
Primary	419	45.2	4.8
Secondary	348	34.4	2.9
Middle or high school	20	1.8	0.7
University	155	13.2	2.8
Technical school	46	5.3	1.5
DK/DTR	1		
Missing	0		
Total	989	100	
Literacy			
Cannot read at all	109	10.9	2.7
Able to read parts of sentence	136	12.5	2.8
Able to read whole sentence	840	75.3	3.8
Blind or visually impaired	8	1.3	0.8
DK/DTR	4		
Missing	6		
Total	1103	100	



Table E.3.3 Employment

Percent distribution of women age 15-49 by employment status and role							
Employment characteristic	N	Weighted %	Weighted SE				
Employment status							
Employed and being paid for work	189	17.5	2.5				
Employed but did not work in the last w	3	0.1	0.1				
Employed by a family member without	7	0.4	0.1				
Student	104	12.7	2.6				
Homemaker	725	62.8	4.1				
Retired	1	0.1	0.1				
Unable to work due to disability	2	0.9	0.8				
DK/DTR	59	5	1.1				
Missing	6	0.5	0.3				
Total	1						
Occupational role, among women empl	oyed and b	eing paid	for work				
Employee	177	92.7	3.6				
Employer	3	0.8	0.5				
Owner	2	1.5	1.2				
Self-employed	7	5	2.6				
DK/DTR	0						
Missing	0						
Total	189	100					



Table E.3.4.1 Exposure to mass media

Percent distribution of women by exposure to newspapers, radio and							
television; percentage exposed to all three forms of media and to any							
form of media at least once a week							
Ch ave at a vietie		Weighted	Weighted				
Characteristic	N	%	SE				
Newspapers, among fully or partially li			4.0				
≥1 time per week	426	44.3	4.8				
<1 time per week	153	16.6	2.4				
Never	394	38.9	3.9				
Not applicable	2	0.1	0.1				
DK/DTR	1						
Missing	0						
Total	976	100					
Radio							
≥1 time per week	835	80.1	1.4				
<1 time per week	101	8	1.2				
Never	157	11.7	1.3				
Not applicable	4	0.2	0.1				
DK/DTR	0						
Missing	6						
Total	1103	100					
Television							
≥1 time per week	729	67.1	5.1				
<1 time per week	77	8.2	1.6				
Not applicable	268	23.7	4.6				
Never	19	1.1	0.5				
DK/DTR	4						
Missing	6						
Total	1103	100					
Exposed to all three forms of media at	least once	per week,	among				
fully or partially literate women	•		J				
Yes	280	30.6	4.4				
No	688	69	4.3				
Not applicable	7	0.5	0.3				
DK/DTR	1						
Missing	0						
Total	976	100					
Exposed to any form of media at least of							
Yes	280	27.9	4.4				
No	765	71.5	4.3				
Not applicable	9	0.6	0.3				
DK/DTR	2	0.0	0.0				
Missing	47						
Total	1103	100					



Table E.3.5.1a Proximity to health care facilities: nearest health facility

Percent distribution of women according to distance and travel time						
to health care facility closest to household						
		Weighted	Weighted			
Distance and time	N	%	SE			
Distance						
<1 km	161	16.3	4.1			
1 to <5 km	583	57.3	6			
5 to <10 km	127	15.5	4.5			
≥10 km	97	10.9	4.2			
DK/DTR	129					
Missing	6					
Total	1103	100				
Travel time						
<15 min	289	24.4	4.8			
15 to <30 min	285	25.1	3.7			
30 to <45 min	173	17.7	2.6			
45 to <60 min	38	5.7	1.5			
≥60 min	276	27.2	6.2			
DK/DTR	8					
Missing	34					
Total	1103	100				

Table E.3.5.1b Proximity to health care facilities: usual health facility

Percent distribution of women according to distance and travel time						
to health care facility that the head of household usually attends						
Weighted Wei						
Distance and time	N	%	SE			
Distance						
<1 km	136	13.3	3.1			
1 to <5 km	553	57.5	5.8			
5 to <10 km	117	15.8	4			
≥10 km	118	13.5	4.4			
DK/DTR	115					
Missing	0					
Total	1039	100				
Travel time						
<15 min	258	20.3	3.9			
15 to <30 min	279	26.5	4			
30 to <45 min	170	18.2	2.7			
45 to <60 min	41	6.6	1.5			
≥60 min	288	28.4	6.5			
DK/DTR	0					
Missing	3					
Total	1039	100				



Table E.3.5.1c Proximity to health care facilities: health facility for delivery

Percent distribution of women according to distance and travel time to health care facility attended for most recent delivery in the last two years

		Weighted	Weighted
Distance and time	N	%	SE
Distance			
<1 km	7	2.1	1.1
1 to <5 km	114	31.9	7.2
5 to <10 km	23	8.3	2.8
≥10 km	158	57.6	6.9
DK/DTR	81		
Missing	0		
Total	383	100	
Travel time			
<15 min	37	8.3	1.9
15 to <30 min	49	11.9	2.6
30 to <45 min	33	8.5	2.6
45 to <60 min	12	3.7	1.2
≥60 min	244	67.7	4.8
DK/DTR	8		
Missing	0		
Total	383	100	

Table E.3.5.1d Proximity to health care facilities: health facility for recent illness

Percent distribution of women according to distance and travel time to health care facility attended for respondent's recent illness or child's recent illness

cima s recent imiess		Weighted	Weighted
Distance and time	N	%	SE
Distance			
<1 km	114	12	2.7
1 to <5 km	496	57.1	5.1
5 to <10 km	101	13.2	3.6
≥10 km	150	17.7	4.1
DK/DTR	130		
Missing	0		
Total	991	100	
Travel time			
<15 min	231	18.3	3.3
15 to <30 min	239	23.1	3.8
30 to <45 min	161	19.6	3.2
45 to <60 min	34	5.8	1.5
≥60 min	319	33.2	6.7
DK/DTR	5		
Missing	2		
Total	991	100	



Table E.3.6.1 Current health status

Percent distribution of women age 15-49 by self-rated current health status relative to the health status last year and percentage who can easily perform daily activities

		Weighted	Weighted
Characteristic	N	%	SE
Current health relative to health las	st year		
Better	399	36.8	3.1
Worse	150	13.5	1.7
About the same	545	49.7	2.8
DK/DTR	3		
Missing	6		
Total	1103	100	
Ability to perform daily activities			
Easily	846	75.9	2.7
With some difficulty	220	21.1	2.1
With much difficulty	27	2.8	1.1
Unable to do	3	0.1	0.1
DK/DTR	1		
Missing	6		
Total	1103	100	



Table E.3.6.2 Recent illness

Percentage of women age 15-49 who were sick in the last two weeks;
and among those who were sick, percent distribution by type of
recent illness

recent illness			
Ch	N.	Weighted	_
Characteristic	N	%	SE
Respondent was sick during the past tw		20.7	2.2
Yes	329	29.7	3.3
No	768	70.3	3.3
DK/DTR	0		
Missing	6		
Total	1103	100	
Type of illness, among those sick in the			_
Fever	19	5.2	2
Malaria	0	0	
Cough / chest infection	25	5.4	1.4
Tuberculosis	0	0	
Asthma	6	3.9	2.5
Bronchitis	1	0.1	0.1
Pneumonia	0	0	
Diarrhea without blood	1	0.3	0.3
Diarrhea with blood	1	0.2	0.2
Diarrhea with vomiting	0	0	
Vomiting	0	0	
Abdominal pain	25	9.8	3.3
Anemia	0	0	
Skin rash / infection	1	0.2	0.2
Eye / ear infection	3	0.6	0.3
Measles	0	0	
Jaundice	0	0	
Headache	76	19.8	3.2
Toothache	6	1.2	0.6
Stroke	0	0	
Hypertension	7	2.4	1.3
Diabetes	0	0	
HIV/AIDS	0	0	
Paralysis	1	0.3	0.3
Gynecologic problems	7	1.2	0.5
Obstetric problems	0	0	
Other	149	49.6	4.1
DK/DTR	1	_	
Missing	0		
Total	329	100	



Table E.3.6.3 Utilization of health services

Among women who reported sick in the last two weeks, percentage of women who sought care for the illness; and among women who sought care, percent distribution by timing of care-seeking after onset of illness

of illness								
		Weighted	_					
Characteristic	N	%	SE					
Sought care for recent illness								
Yes	139	44.6	5.2					
No	190	55.4	5.2					
DK/DTR	0							
Missing	0							
Total	329	100						
Type of health facility where care was s	_							
Public hospital	35	33.8	8.7					
Public health unit	51	35.5	8.7					
Public health center / clinic	27	15.8	3.7					
Public mobile clinic	0	0						
Other public health facility	0	0						
Private hospital	0	0						
Private health center / clinic	11	7	3.3					
Private office	9	5.4	2.9					
Private mobile clinic	0	0						
Other private health facility	1	0.5	0.5					
Pharmacy	1	0.4	0.4					
Community health worker	0	0						
Traditional healer	0	0						
Other	4	1.6	0.9					
DK/DTR	0							
Missing	0							
Total	139	100						
Admitted to hospital for care, among w	omen who	sought car	re at a					
public or private: hospital, health cente	r / clinic, m	nobile clini	c, or					
other health facility; public health unit;	private of	fice; or pha	armacy					
Yes	9	13.2	7.6					
No	126	86.8	7.6					
DK/DTR	0							
Missing	0							
Total	135	100						



Table E.3.6.4 Insurance coverage

Percentage distribution of insurance status among all women, women
who reported sick in the last two weeks, and women who reported
sick in the last two weeks but did not seek care

sick in the last two weeks but did not seek care Weighted Weigh						
Insurance status	N	weighteu %	SE			
Insurance among all women						
MINSA	0	0				
INSS	85	9.4	1.9			
Government / military	2	0.1	0.1			
Private insurance	0	0				
Other	0	0				
None	1007	90.5	2			
DK/DTR	3					
Missing	6					
Total	1103	100				
Insurance among women who were sicl	k in the pas	st two wee	ks			
MINSA	0	0				
INSS	41	14.4	3.2			
Government / military	0	0				
Private insurance	0	0				
Other	0	0				
None	287	85.6	3.2			
DK/DTR	1					
Missing	0					
Total	329	100				
Insurance among women who were sicl	k in the pas	st two wee	ks but did			
not seek care						
MINSA	0	0				
INSS	22	16.4	5.9			
Government / military	0	0				
Private insurance	0	0				
Other	0	0				
None	167	83.6	5.9			
DK/DTR	1					
Missing	0					
Total	190	100				



Table E.3.6.5 Other barriers to health care utilization

	<u>Fable E.3.6.5 Other barriers to health care utilization</u> Percentage of women according to perceived barriers to health care utilization, among among								
women who repoi						, ,	Ŭ		
Reason for not		Weighted	Weighted	Reason for not		Weighted	Weighted		
seeking care	N	%	SE	seeking care	N	%	SE		
Not sick enough to	seek trea	tment		The health center	's staff is n	ot knowle	dgeable		
Yes	24	16.7	4.8	Yes	4	1.4	0.6		
No	166	83.3	4.8	No	186	98.6	0.6		
DK/DTR	0			DK/DTR	0				
Missing	0			Missing	0				
Total	190	100		Total	190	100			
Treated self at hor	me			Do not trust the st	taff				
Yes	58	37.4	4.2	Yes	6	2.9	1.5		
No	132	62.6	4.2	No	184	97.1	1.5		
DK/DTR	0			DK/DTR	0				
Missing	0			Missing	0				
Total	190	100		Total	190	100			
Care is too expens	sive			Was previously mistreaded					
Yes	15	5.2	1.5	Yes	4	1.2	0.6		
No	175	94.8	1.5	No	186	98.8	0.6		
DK/DTR	0			DK/DTR	0				
Missing	0			Missing	0				
Total	190	100		Total	190	100			
Health center is to	o far away			Tried, but was refused care					
Yes	11	9.3	5.2	Yes	5	2.9	1.5		
No	179	90.7	5.2	No	185	97.1	1.5		
DK/DTR	0			DK/DTR	0				
Missing	0			Missing	0				
Total	190	100		Total	190	100			
Could not find tran	nsportatio	า		Did not get permi	ssion to go	to the doo	tor		
Yes	5	2	0.9	Yes	2	0.5	0.4		
No	185	98	0.9	No	188	99.5	0.4		
DK/DTR	0			DK/DTR	0				
Missing	0			Missing	0				
Total	190	100		Total	190	100			
Could not afford to	ransportat	ion		Did not want to go	alone				
Yes	. 12	4.5	1.6	Yes	2	0.6	0.5		
No	178	95.5	1.6	No	188	99.4	0.5		
DK/DTR	0			DK/DTR	0				
Missing	0			Missing	0				
Total	190	100		Total	190	100			



Table E.3.6.5 continued

Reason for not		Weighted	Weighted	Reason for not		Weighted	Weighted	
seeking care	N	%	SE	seeking care	N	%	SE	
				Too busy with work, children, and other				
Did not know where to go				commitments				
Yes	0	0		Yes	22	9.3	2.8	
No	190	100		No	168	90.7	2.8	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	190	100		Total	190	100		
Health center infr	astructure	is poor		Religious / cultur	al beliefs			
Yes	0	0		Yes	0	0		
No	190	100		No	190	100		
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	190	100		Total	190	100		
Health center doe	s not have	enough dr	ugs	No one present at the center when visited				
Yes	39	15.3	3.1	Yes	3	0.9	0.5	
No	151	84.7	3.1	No	187	99.1	0.5	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	190	100		Total	190	100		
Health center is no	ot well equ	iipped		Other				
Yes	7	2.8	1.2	Yes	33	13.9	4.1	
No	183	97.2	1.2	No	157	86.1	4.1	
DK/DTR	0			DK/DTR	0			
Missing	0			Missing	0			
Total	190	100		Total	190	100		
It is difficult to de	al with hea	Ith center						
personnel								
Yes	8	7.2	4.5					
No	182	92.8	4.5					
DK/DTR	0							
Missing	0							
Total	190	100						



Table E.4.2.1 Parity and age at first birth

Percent of women age 15-49 who have ever given birth, their age at first birth, and the percent of women who have had a miscarriage, stillbirth, or abortion

Stillbiltil, of aboltion		Weighted	Weighted					
Characteristic	N	%	SE					
Ever given birth								
Yes	887	72.9	2.3					
No	210	27.1	2.3					
DK/DTR	0							
Missing	6							
Total	1103	100						
Age at first birth, among parous women								
12-14 years	33	4.3	1.1					
15-19 years	546	65.6	2.6					
20-24 years	252	25.3	2.7					
25-29 years	46	4.3	1.2					
30-34 years	7	0.5	0.2					
35-39 years	1	0.1	0.1					
40-44 years	0	0						
45-49 years	0	0						
DK/DTR	0							
Missing	2							
Total	887	100						
Ever had a stillbirth, miscarriage, or abo	rtion							
Yes	99	9.9	2.4					
No	998	90.1	2.4					
DK/DTR	0							
Missing	6							
Total	1103	100						



Table E.4.3.1 Intervals between births

Among women with two or more	ciliaren, percen	it distribut	ion by				
duration of the birth intervals Weighted Weighted							
Mean birth interval	N	%	SE				
Among women with more than or	ne child						
9-11 months	0	0					
12-23 months	33	7.7	1.5				
24-35 months	123	23.3	3				
36-47 months	117	22.4	2.				
48-59 months	110	18.1	2.				
≥60 months	188	28.4	4.:				
Missing	25						
Total	596	100					
Among women with two children							
9-11 months	0	0					
12-23 months	16	6.4	2.3				
24-35 months	32	20	5.9				
36-47 months	30	13.6	3.				
48-59 months	31	15.8	3.9				
≥60 months	103	44.2	6.				
Missing	15						
Total	227	100					
Among women with three or four	children						
9-11 months	0	0					
12-23 months	9	8.3	2.8				
24-35 months	32	16	4.1				
36-47 months	52	24	5.!				
48-59 months	59	21.5	4.				
≥60 months	77	30.2	5				
Missing	7						
Total	236	100					
Among women with five or more	children						
9-11 months	0	0					
12-23 months	8	8.5	4.				
24-35 months	59	40.5	5.				
36-47 months	35	31.5	6.				
48-59 months	20	15.4	6.				
≥60 months	8	4.1	1.				
Missing	3						
Total	133	100					



Table E.4.4.1 Desire for more children

Among women with a pregnancy in the two years preceding the interview, percent distribution by desire of the most recent pregnancy in the last two years; and among all women, percentage who desire more children

		Weighted	Weighted
Characteristic	N	Weighted %	SE
Respondent desired their most recent preg	nancy in th	e past two	years
Yes	268	65	2.6
No, wanted to wait	120	27.8	1.9
No, did not want (more) children	32	7.1	1.7
DK/DTR	0		
Missing	16		
Total	436	100	
Respondent desires current pregnancy			
Yes	19	71.8	14.8
No, wanted to wait	10	28.2	14.8
No, did not want (more) children	0	0	
DK/DTR	0		
Missing	0		
Total	29	100	



Table E.4.4.2 Ideal interval for most recent birth

Percent distribution of women with 2 c		•						
interval for most recent birth, according to the number of children Weighted Weighted								
Characteristic	N	%	SE					
Among women with more than one child								
9-11 months	0	0						
12-23 months	11	3.8	1.3					
24-35 months	19	5.7	1.3					
36-47 months	25	6.9	1.1					
48-59 months	37	10.5	1.8					
≥60 months	206	56.1	2.2					
Did not want to have another child	64	17	2.2					
Missing	33							
Total	395	100						
Among women with two children								
9-11 months	0	0						
12-23 months	6	6.1	3.1					
24-35 months	8	5.7	2.3					
36-47 months	8	5	1.8					
48-59 months	15	10.8	2.3					
≥60 months	107	66.2	4.4					
Did not want to have another child	11	6.1	2.1					
Missing	27							
Total	182	100						
Among women with three or four child	dren							
9-11 months	0	0						
12-23 months	4	2.2	1.3					
24-35 months	6	4	1.9					
36-47 months	9	6.4	2					
48-59 months	15	10.1	3.2					
≥60 months	78	57	5.3					
Did not want to have another child	30	20.3	3.6					
Missing	4							
Total	146	100						
Among women with five or more child								
9-11 months	0	0						
12-23 months	1	1.8	1.7					
24-35 months	5	9.3	3.7					
36-47 months	8	12.2	2					
48-59 months	7	10.5	3.6					
≥60 months	21	32	4.7					
Did not want to have another child	23	34.2	5.2					
Missing	2	52	3.2					
Total	67	100						



Table E.5.1.1 Knowledge of the fertile period

Percentage of all currently married or partnered women age 15-49 who know the timing of the fertile period								
Characteristic N % SE								
Are there certain days when a woman is more likely to become								
pregnant?								
Yes	568	86.2	3.6					
No	86	13.8	3.6					
DK/DTR	48							
Missing	2							
Total	704	100						
Is this time just before her period begir	is, during h	er period,	right					
after her period has ended, or halfway l	oetween t	wo periods	;?					
Just before her period begins	98	17.3	4					
During her period	15	2.1	0.7					
Right after her period has ended	325	58.9	5.2					
Halfway between two periods	99	19.5	3.6					
Other	12	2.2	1.1					
DK/DTR	19							
Missing	0							
Total	568	100						



Table E.5.2.1a Current use of family planning methods

Percentage of all currently married or partnered women age 15-49								
using family planning methods								
		Weighted						
Characteristic or method	N	%	SE					
Current use of any method								
Yes	544	72.3	2.7					
No	158	27.7	2.7					
DK/DTR	0							
Missing	2							
Total	704	100						
Current use of any method, among won	nen in nee	d of contra	ceptives					
Yes	528	90.4	1.6					
No	67	9.6	1.6					
DK/DTR	0							
Missing	0							
Total	595	100						
Current use of more than one method								
Yes	11	1.8	1.1					
No	691	98.2	1.1					
DK/DTR	0							
Missing	2							
Total	704	100						
Number of methods the respondent is	currently u	sing						
0 methods	158	27.7	2.7					
1 method	533	70.5	2.6					
2 methods	11	1.8	1.1					
3 or more methods	2	0						
DK/DTR	0							
Missing	0							
Total	704	100						



Table E.5.2.1b Current use of family planning methods, by type of method

				tnered wo				family plan	ning meth	ods	
Method	N	Weighted %	Weighted SE	Method	N	Weighted %	Weighted SE	Method	N	Weighted %	Weighted SE
Female ste		,,	<u> </u>	Condom	.,	,,,	<u> </u>	Rhythm m		,,	
Yes	141	22.1	2.6	Yes	27	3.3	1.4	Yes	7	0.6	0.2
No	560	77.9		No	675			No	694		0.2
DK/DTR	1	7713	0	DK/DTR	0			DK/DTR	1	33.1	0.2
Missing	2			Missing	2			Missing	2		
Total	704	100		Total	704	100		Total	704	100	
Male steri				Female co				Withdraw			
Yes	1	0.1	0.1	Yes	0	0		Yes	3	0.2	0.2
No	700	99.9		No	700			No	697	99.8	0.2
DK/DTR	1		-	DK/DTR	2			DK/DTR	2		
Missing	2			Missing	2			Missing	2		
Total	704	100		Total	704			Total	704	100	
IUD				Diaphragn	า			Emergenc			
Yes	28	5.5	2	Yes	0	0		Yes	0	0	
No	674	94.5		No	700			No	701	100	
DK/DTR	0			DK/DTR	2			DK/DTR	1		
Missing	2			Missing	2			Missing	2		
Total	704	100		Total	704	100		Total	704	100	
Injectable	S			Sponge, sp	permicide			Other modern method			
Yes	260	31.5	2.8	Yes	0	0		Yes	0		
No	442	68.5	2.8	No	701	100		No	699	100	
DK/DTR	0			DK/DTR	1			DK/DTR	3		
Missing	2			Missing	2			Missing	2		
Total	704	100		Total	704	100		Total	704	100	
Implants				Lactationa	l amenorr	hea metho	d	Other trad	litional me	thod	
Yes	1	0	0	Yes	7			Yes	1	0.4	0.4
No	701	100	0	No	695	99.5	0.2	No	699	99.6	0.4
DK/DTR	0			DK/DTR	0			DK/DTR	2		
Missing	2			Missing	2			Missing	2		
Total	704	100		Total	704	100		Total	704	100	
Pill											
Yes	79	9.8	1.9								
No	623	90.2	1.9								
DK/DTR	0										
Missing	2										
Total	704	100									



Table E.5.2.1c Current use of modern family planning methods

Percentage of all currently married or partnered women age 15-49									
using modern methods of family planning									
		Weighted	Weighted						
Characteristic	N	%	SE						
Among all women									
Yes	532	71.1	2.7						
No	170	28.9	2.7						
DK/DTR	0								
Missing	2								
Total	704	100							
Among women in need of contraceptive	es								
Yes	516	88.9	1.5						
No	79	11.1	1.5						
DK/DTR	0								
Missing	0								
Total	595	100							



Table E.5.3.1a Source of family planning methods

Percent distribution of women currently using selected modern methods of family planning, by location where current										
method was obtained Weighted Weighted Weighted Weighted Weighted										
Source	N	weighted %	SE	Source	N	weighted %	SE			
Female sterilization				IUD						
Public hospital	121	81.2	4.9	Public hospital	15	57.2	18.8			
Public health unit	7	6.6		Public health unit	4	6.8	2.9			
Public health center / clinic	1	0.3		Public health center / clinic	3	4.3	3.1			
Public mobile clinic	0	0		Public mobile clinic	0	0				
Other public health facility	0	0		Other public health facility	0	0				
Private hospital	1	0.3	0.3	Private hospital	0	0				
Private health center / clinic	7	8.9		Private health center / clinic	3	26.6	19.6			
Private office	0	0		Private office	1	1.2	1.3			
Private mobile clinic	0	0		Private mobile clinic	0	0				
Other private health facility	0	0		Other private health facility	0	0				
Pharmacy	0	0		Pharmacy	0	0				
Community health worker	0	0		Community health worker	0	0				
Traditional healer	0	0		Traditional healer	0	0				
Store	0	0		Store	0	0				
Market	0	0		Market	0	0				
Church	0	0		Church	0	0				
Friend / relative	0	0		Friend / relative	0	0				
Other	4	2.7	1.8	Other	2	3.9	2.8			
DK/DTR	0			DK/DTR	0					
Missing	0			Missing	0					
Total	141	100		Total	28	100				
Male sterilization				Injectables						
Public hospital	1	100		Public hospital	55	21.6	6.5			
Public health unit	0	0		Public health unit	110	37.7	5			
Public health center / clinic	0	0		Public health center / clinic	38	14.3	3			
Public mobile clinic	0	0		Public mobile clinic	0	0				
Other public health facility	0	0		Other public health facility	2	0.7	0.7			
Private hospital	0	0		Private hospital	0	0				
Private health center / clinic	0	0		Private health center / clinic	3	1.7	1.2			
Private office	0	0		Private office	1	0.2	0.2			
Private mobile clinic	0	0		Private mobile clinic	0	0				
Other private health facility	0	0		Other private health facility	1	0.3	0.3			
Pharmacy	0	0		Pharmacy	40	20.6	6.6			
Community health worker	0	0		Community health worker	8	2.4	0.8			
Traditional healer	0	0		Traditional healer	0	0				
Store	0	0		Store	0	0				
Market	0	0		Market	0	0				
Church	0	0		Church	0	0				
Friend / relative	0	0		Friend / relative	0	0				
Other	0	0		Other	2	0.4	0.3			
DK/DTR	0			DK/DTR	0					
Missing	0			Missing	0					
Total	1	100		Total	260	100				



Table E.5.3.1b Source of family planning methods

Percent distribution of women currently using selected modern methods of family planning, by location where current method was obtained										
Source	N	Weighted %	Weighted SE	Source	N	Weighted %	Weighted SE			
Implants				Condom						
Public hospital	0	0		Public hospital	3	18.6	12.5			
Public health unit	0	0		Public health unit	4	36.1	17.8			
Public health center / clinic	0	0		Public health center / clinic	2	4.7	3.9			
Public mobile clinic	0	0		Public mobile clinic	0	0				
Other public health facility	0	0		Other public health facility	0	0				
Private hospital	0	0		Private hospital	0	0				
Private health center / clinic	1	100		Private health center / clinic	0	0				
Private office	0	0		Private office	0	0				
Private mobile clinic	0	0		Private mobile clinic	0	0				
Other private health facility	0	0		Other private health facility	0	0				
Pharmacy	0	0		Pharmacy	16	36.4	11.8			
Community health worker	0	0		Community health worker	0	0				
Traditional healer	0	0		Traditional healer	0	0				
Store	0	0		Store	0	0				
Market	0	0		Market	0	0				
Church	0	0		Church	0	0				
Friend / relative	0	0		Friend / relative	1	2.5	2.7			
Other	0	0		Other	1	1.6	1.8			
DK/DTR	0			DK/DTR	0					
Missing	0			Missing	0					
Total	1	100		Total	27	100				
Pill				Female condom						
Public hospital	12	10	4.7	Public hospital	0	0	0			
Public health unit	29	42.9		Public health unit	0	0	0			
Public health center / clinic	18	24.8	7.7	Public health center / clinic	0	0	0			
Public mobile clinic	0	0		Public mobile clinic	0	0	0			
Other public health facility	0	0		Other public health facility	0	0	0			
Private hospital	0	0		Private hospital	0	0	0			
Private health center / clinic	1	0.8	0.9	Private health center / clinic	0	0	0			
Private office	1	0.7	0.7	Private office	0	0	0			
Private mobile clinic	0	0		Private mobile clinic	0	0	0			
Other private health facility	0	0		Other private health facility	0	0	0			
Pharmacy	18	20.7	7.5	Pharmacy	0	0	0			
Community health worker	0	0		Community health worker	0	0	0			
Traditional healer	0	0		Traditional healer	0	0	0			
Store	0	0		Store	0	0	0			
Market	0	0		Market	0	0	0			
Church	0	0		Church	0	0	0			
Friend / relative	0	0		Friend / relative	0	0	0			
Other	0	0		Other	0	0	0			
DK/DTR	0			DK/DTR	0					
Missing	0			Missing	0	0				
Total	79	100		Total	0	0				



Table E.5.3.1c Source of family planning methods

Source	N	Weighted %	Weighted SE	Source	N	Weighted %	Weighted SE
Diaphragm				Lactational amenorrhea metho	bc		
Public hospital	0	0	0	Public hospital	2	30.8	20.9
Public health unit	0	0	0	Public health unit	1	19	18.5
Public health center / clinic	0	0	0	Public health center / clinic	2	34.9	21.8
Public mobile clinic	0	0	0	Public mobile clinic	0	0	
Other public health facility	0	0	0	Other public health facility	0	0	
Private hospital	0	0	0	Private hospital	0	0	
Private health center / clinic	0	0	0	Private health center / clinic	0	0	
Private office	0	0	0	Private office	0	0	
Private mobile clinic	0	0	0	Private mobile clinic	0	0	
Other private health facility	0	0	0	Other private health facility	0	0	
Pharmacy	0	0	0	Pharmacy	0	0	
Community health worker	0	0	0	Community health worker	1	15.2	15.5
Traditional healer	0	0	0	Traditional healer	0	0	
Store	0	0	0	Store	0	0	
Market	0	0	0	Market	0	0	
Church	0	0	0	Church	0	0	
Friend / relative	0	0	0	Friend / relative	0	0	
Other	0	0	0	Other	0	0	
DK/DTR	0			DK/DTR	1		
Missing	0	0		Missing	0		
Total	0	0		Total	7	100	
Sponge, spermicide				Rhythm method			
Public hospital	0	0	0	Public hospital	0	0	
Public health unit	0	0	0	Public health unit	0	0	
Public health center / clinic	0	0	0	Public health center / clinic	0	0	
Public mobile clinic	0	0	0	Public mobile clinic	0	0	
Other public health facility	0	0	0	Other public health facility	0	0	
Private hospital	0	0	0	Private hospital	0	0	
Private health center / clinic	0	0	0	Private health center / clinic	0	0	
Private office	0	0	0	Private office	0	0	
Private mobile clinic	0	0	0	Private mobile clinic	0	0	
Other private health facility	0	0	0	Other private health facility	0	0	
Pharmacy	0	0	0	Pharmacy	0	0	
Community health worker	0	0	0	Community health worker	1	15.2	12.8
Traditional healer	0	0	0	Traditional healer	0	0	
Store	0	0	0	Store	0	0	
Market	0	0		Market	0	0	
Church	0	0		Church	2	27.2	19.4
Friend / relative	0	0		Friend / relative	1	15.2	12.8
Other	0	0		Other	3	42.5	23.4
DK/DTR	0			DK/DTR	0		
Missing	0	0		Missing	0		
Total	0	0		Total	7	100	



Table E.5.3.1d Source of family planning methods

method was obtained	currently	using sere	cteu mou	ern methods of family planning	s, by locati	on where	current
Source	N	Weighted %	Weighted SE	Source	N	Weighted %	Weighted SE
Withdrawal method				Other modern method			
Public hospital	0	0		Public hospital	0	0	0
Public health unit	1	19.1	23.5	Public health unit	0	0	0
Public health center / clinic	0	0		Public health center / clinic	0	0	0
Public mobile clinic	0	0		Public mobile clinic	0	0	0
Other public health facility	0	0		Other public health facility	0	0	0
Private hospital	0	0		Private hospital	0	0	0
Private health center / clinic	0	0		Private health center / clinic	0	0	0
Private office	0	0		Private office	0	0	0
Private mobile clinic	0	0		Private mobile clinic	0	0	0
Other private health facility	0	0		Other private health facility	0	0	0
Pharmacy	0	0		Pharmacy	0	0	0
Community health worker	0	0		Community health worker	0	0	0
Traditional healer	0	0		Traditional healer	0	0	0
Store	0	0		Store	0	0	0
Market	0	0		Market	0	0	0
Church	0	0		Church	0	0	0
Friend / relative	0	0		Friend / relative	0	0	0
Other	2	80.9	23.5	Other	0	0	0
DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0	0	
Total	3	100		Total	0	0	
Emergency contraception				Other traditional method			
Public hospital	0	0	0	Public hospital	0	0	
Public health unit	0	0		Public health unit	1	100	
Public health center / clinic	0	0	0	Public health center / clinic	0	0	
Public mobile clinic	0	0	0	Public mobile clinic	0	0	
Other public health facility	0	0	0	Other public health facility	0	0	
Private hospital	0	0		Private hospital	0	0	
Private health center / clinic	0	0		Private health center / clinic	0	0	
Private office	0	0	0	Private office	0	0	
Private mobile clinic	0	0	0	Private mobile clinic	0	0	
Other private health facility	0	0	0	Other private health facility	0	0	
Pharmacy	0	0	0	Pharmacy	0	0	
Community health worker	0	0	0	Community health worker	0	0	
Traditional healer	0	0		Traditional healer	0	0	
Store	0	0	0	Store	0	0	
Market	0	0		Market	0	0	
Church	0	0		Church	0	0	
Friend / relative	0	0		Friend / relative	0	0	
Other	0	0	0	Other	0	0	
DK/DTR	0			DK/DTR	0		
Missing	0	0		Missing	0		
Total	0	0		Total	1	100	



Table E.5.4.1 Interruption and non-use of family planning methods

Percentage of women with interruptions last year in the use of c	ontraception	on, percent	tage not
using contraception, and percentage in need of contraception		, , , 3, 5511	
		Weighted	Weighted
Characteristic	N	%	SE
Currently in need of contraceptives			
Yes	595	76.2	3
No	107	23.8	3
DK/DTR	0		
Missing	2		
Total	704	100	
Discontinuation rate: any interruption in use during the last year contraceptives	, among wo	omen in ne	ed of
Yes	22	3.5	1.2
No	573	96.5	1.2
DK/DTR	0		
Missing	0		
Total	595	100	
Number of interruptions in use during the last year, among wom	en in need	of contrac	eptives
0	573	96.5	1.2
1	15	2.5	0.8
2-6	7	1.1	0.7
7-12	0	0	
13 or more	0	0	
DK/DTR	0		
Missing	0		
Total	595	100	
Not currently using any modern method			
Yes	170	28.9	2.7
No	532	71.1	2.7
DK/DTR	0		
Missing	2		
Total	704	100	
Unmet need: Not currently using any modern method, among w	omen "in n	eed" of	
contraceptives			
Yes	79	11.1	1.5
No	516	88.9	1.5
DK/DTR	0		
Missing	0		
Total	595	100	



Table E.5.4.2a Reasons for interruption and non-use of family planning methods

Percent distribution of women who are not using family planning methods by reason for non-use									
Reason	N	Weighted %	Weighted SE	Reason	N	Weighted %	Weighted SE		
Unmarried				Did not have a menstrual per	iod since la	st birth			
Yes	10	8.8	5.9	Yes	10	4.3	2.1		
No	120	91.2		No	120	95.7	2.1		
DK/DTR	2			DK/DTR	2				
Missing	24			Missing	24				
Total	156	100		Total	156	100			
Married				Was breastfeeding					
Yes	38	31.4	8.7	Yes	10	3.8	1.5		
No	92	68.6		No	120	96.2	1.5		
DK/DTR	2	00.0	0.7	DK/DTR	2	30.2	1.0		
Missing	24			Missing	24				
Total	156	100		Total	156	100			
Does not have sexual relation		100		Goes against religion	130	100			
Yes	23	18	7	Yes	0	0			
No	105	82		No	130	100			
DK/DTR	4	02	,	DK/DTR	2	100			
•	24			·	24				
Missing Total	156	100		Missing Total	156	100			
	150	100				100			
Virgin	0	0		Respondent is opposed to us		1.0			
Yes	0			Yes	5		1		
No DI (DTD	130	100		No	125	98.1	1		
DK/DTR	2			DK/DTR	2				
Missing	24			Missing	24				
Total	156	100		Total	156	100			
Has sexual relations infreque				Husband / partner is opposed					
Yes	30			Yes	4		1.8		
No	99	80.3	6.4	No	126	97	1.8		
DK/DTR	3			DK/DTR	2				
Missing	24			Missing	24				
Total	156	100		Total	156	100			
Menopausal				Others are opposed to use					
Yes	14	23		Yes	1	0.3	0.3		
No	115	77	8.8	No	128	99.7	0.3		
DK/DTR	3			DK/DTR	3				
Missing	24			Missing	24				
Total	156	100		Total	156	100			
Hysterectomy/surgery on the	uterus			Knows no method					
Yes	6	3.7	2.3	Yes	6	1.8	0.8		
No	124	96.3	2.3	No	124	98.2	0.8		
DK/DTR	2			DK/DTR	2				
Missing	24			Missing	24				
Total	156	100		Total	156	100			
Cannot become pregnant				Knows no source for getting r	method				
Yes	6	3.3	1.8	Yes	6	1.8	0.7		
No	124			No	124		0.7		
DK/DTR	2			DK/DTR	2				
Missing	24			Missing	24				
Total	156			Total	156				



Table E.5.4.2b Reasons for interruption and non-use of family planning methods

Percent distribution of women who are not using family planning methods by reason for non-use									
Reason	N	Weighted %	Weighted SE	Reason	N	Weighted %	Weighted SE		
Concerned about side effects				No trust in health facility staff					
Yes	17	9.3	3.5	Yes	6	1.8	0.8		
No	113	90.7		No	124		0.8		
DK/DTR	2			DK/DTR	2				
Missing	24			Missing	24				
Total	156	100		Total	156				
Facility is too far				Uncomfortable to use					
Yes	3	2.8	1.8	Yes	2	0.6	0.5		
No	127	97.2		No	128	99.4	0.5		
DK/DTR	2			DK/DTR	2				
Missing	24			Missing	24				
Total	156	100		Total	156	100			
Could not find transportation				Interferes with normal body p	rocesses				
Yes	1	0.3	0.3	Yes	8	2.7	0.8		
No	129	99.7		No	122		0.8		
DK/DTR	2			DK/DTR	2				
Missing	24			Missing	24				
Total	156	100		Total	156	100			
				Affects health / does not like them					
Yes	2	0.8	0.6	Yes	36	22.1	6		
No	128	99.2		No	94	77.9	6		
DK/DTR	2			DK/DTR	2				
Missing	24			Missing	24				
Total	156	100		Total	156				
Costs too much				Was pregnant					
Yes	0	0		Yes	10	10.3	4.9		
No	130	100		No	119	89.7	4.9		
DK/DTR	2			DK/DTR	3				
Missing	24			Missing	24				
Total	156	100		Total	156	100			
Preferred method is not avail				Wanted to become pregnant					
Yes	3	4.3	3.5	Yes	22	25.4	9.9		
No	127	95.7	3.5	No	108	74.6	9.9		
DK/DTR	2			DK/DTR	2				
Missing	24			Missing	24				
Total	156	100		Total	156				
No method is available				Other					
Yes	4	1.2	0.6	Yes	12	5.6	2		
No	125	98.8		No	118				
DK/DTR	3			DK/DTR	2				
Missing	24			Missing	24				
Total	156	100		Total	156	100			
Health facility has staff that ar	re hard to d	leal with							
Yes	4	1.4	0.6						
No	126	98.6	0.6						
DK/DTR	2								
Missing	24								
Total	156	100							



Table E.5.5.1 Participation in family planning decision-making

Percent distribution of women currently using family planning methods								
according to who makes the decision to use family planning								
		Weighted	Weighted					
Characteristic	N	%	SE					
Who makes the decision to use family planning methods?								
Mostly the respondent	91	15.1	2.7					
Mostly the husband / partner	51	8.1	2					
Joint decision	398	76.3	3.4					
Other	2	0.5	0.3					
DK/DTR/NA	2							
Missing	0							
Total	544	100						

Table E.5.5.2a Family planning decision-making - informed choice

Percentage of all women currently using family planning methods to whom a health								
care worker described other methods that can be used								
		Weighted	Weighted					
Characteristic	N	%	SE					
Did a doctor, nurse, or community health worker ever	Did a doctor, nurse, or community health worker ever tell you about other methods							
of family planning that you could use?								
Yes	398	68.6	4					
No	145	31.4	4					
DK/DTR	1							
Missing	0							
Total	544	100						



Table E.5.6.1 Family planning messages delivered by health care providers

Table E.5.6.1 Family planning messages delivered by health of								
Percentage of married or partnered women exposed to delivered by health care providers at a health care fac	• •	· ·						
the last 12 months	ility of at fi	ionie, ever	anu m					
Weighted Weight								
Characteristic	N	%	SE					
In the last 12 months, did any staff member at a health	h facility sp	eak to you	about					
family planning methods?								
Yes	280	36.8	4.5					
No	421	63.2	4.5					
DK/DTR	1							
Missing	2							
Total	704	100						
In the last 12 months, did a health promoter visit you	to speak to	you about	t family					
planning methods?								
Yes	54	7.6	1.3					
No	645	92.4	1.3					
DK/DTR	3							
Missing	2							
Total	704	100						
Among respondents who had not visited a health facil	lity seekinį	g care for						
themselves or their children in the last 12 months:								
In the last 12 months, did a health promoter visit you	to speak to	you about	t family					
planning methods?								
Yes	19	6.2	1.3					
No	229	93.8	1.3					
DK/DTR	3							
Missing	0							

Total

251

100



Table E.6.1.1a Antenatal care coverage for the most recent birth in the last two years

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 among those who received any antenatal care, percent distribution by timing of care

ancentral care, percent alstribution by timing or care		Weighted	
Characteristic	N	%	SE
Attended at least one antenatal care visit			
Yes	390	96.4	1.3
No	14	3.6	1.3
DK/DTR	0		
Missing	37		
Total	441	100	
Attended at least one antenatal care visit with doctor	or professi	ional nurse	9
Yes	380	93.8	1.6
No	24	6.2	1.6
DK/DTR	0		
Missing	37		
Total	441	100	
First trimester (first 12 weeks) antenatal care visit wit	h doctor or	professio	nal nurse
Yes	200	46.9	4.1
No	204	53.1	4.1
DK/DTR	0		
Missing	37		
Total	441	100	
Month of gestation of first ANC visit, among women w	vho receive	ed any ante	enatal
care			
1	99	23.6	3.3
2	101	25	2.4
3	93	24.3	2.2
4	42	10.7	1.9
5	26	7.5	1.7
6	16	5.4	2.4
7	7	1.8	0.6
8	3	0.9	0.5
9	3	0.7	0.4
DK/DTR	0		
Missing	0		
Total	390	100	



Table E.6.1.1b Antenatal care coverage for the most recent birth in the last two years

care visit for th											
Attendant	N	Weighted %	Weighted SE	Attendant	N	Weighted %	Weighted SE	Attendant	N	Weighted %	Weighted SE
Medical doctor	•			Midwife / Com	adrona			Relative			
0 visits	106	28.9	4.3	0 visits	389	99.8	0.2	0 visits	390	100	
1 visit	41	9.8	1.8	1 visit	0	0		1 visit	0	0	
2 visits	23	6.5		2 visits	0	0		2 visits	0	0	
3 visits	30	7.6		3 visits	0	0		3 visits	0	0	
4 visits	20	5.5		4 visits	0	0		4 visits	0	0	
5 visits	34	8.9	1.9	5 visits	0	0		5 visits	0	0	
6 visits	30	9		6 visits	0	0		6 visits	0	0	
7 visits	42	9.5		7 visits	1		0.2	7 visits	0	0	
8 visits	64	14.2		8 visits	0	0		8 visits	0	0	
Missing	0			Missing	0			Missing	0		
Total	390	100		Total	390	100		Total	390	100	
Professional n				Community he				Other			
0 visits	191	48.9	4	0 visits	390			0 visits	389	99.8	0.2
1 visit	33	7.6		1 visit	0	0		1 visit	0		
2 visits	18	5.7		2 visits	0	0		2 visits	0	0	
3 visits	19	4.7		3 visits	0	-		3 visits	0	-	
4 visits	27	7.1		4 visits	0			4 visits	0		
5 visits	33	8.2		5 visits	0			5 visits	0		
6 visits	29	7.5		6 visits	0			6 visits	0		
7 visits	20	5.1		7 visits	0			7 visits	1		
8 visits	20	5.2		8 visits	0			8 visits	0		
Missing	0	3.2	1.5	Missing	0			Missing	0		
Total	390	100		Total	390			Total	390		
Auxiliary nurse		100		Pharmacy assis		100		Didn't know at			
0 visits	368	94.5	1.6	0 visits	390	100		0 visits	389	99.8	
1 visit	7			1 visit	0			1 visit	1		
2 visits	3	0.8		2 visits	0			2 visits	0		
3 visits	1	0.3		3 visits	0			3 visits	0	-	
4 visits	3	0.2		4 visits	0			4 visits	0		
5 visits	2	0.8		5 visits	0	-		5 visits	0	-	
6 visits	3	0.4		6 visits	0			6 visits	0		
7 visits	2	0.6		7 visits	0			7 visits	0		
8 visits	1	0.0		8 visits	0			8 visits	0		
Missing	0	0.3	0.2	Missing	0			Missing	0		
Total	390	100		Total	390			Total	390	100	
Laboratory tecl		100		Traditional hea		100		TOtal	390	100	
•	390	100			390	100					
0 visits	390			0 visits 1 visit	390						
1 visit											
2 visits	0			2 visits	0						
3 visits	0			3 visits	0						
4 visits	0			4 visits	0						
5 visits	0			5 visits	0						
6 visits	0			6 visits	0						
7 visits	0			7 visits	0						
8 visits	0			8 visits	0						
Missing Total	390			Missing Total	390						



Table E.6.1.1c Antenatal care coverage for the most recent birth in the last two years

Percentage distribution of usual location of antenatal care for women with a birth in the last two years who attended at least one antenatal care visit for the most recent birth

		Weighted	Weighted
Location	N	%	SE
Usual location for antenatal care visits			
Public hospital	70	17.3	4.8
Public health unit	184	50	5.6
Public health center / clinic	97	24.3	3.2
Public mobile clinic	0	0	
Other public health facility	5	1	0.4
Private hospital	0	0	
Private health center / clinic	20	4.6	1.3
Private office	10	1.9	0.8
Private mobile clinic	0	0	
Other private health facility	0	0	
Pharmacy	0	0	
Community health worker	0	0	
Traditional healer	1	0.2	0.2
Other	3	0.6	0.4
DK/DTR	0		
Missing	0		
Total	390	100	



Table E.6.1.2 Frequency of antenatal care visits

Percent distribution of women with a birth in the last two years by number of antenatal care visits for the most recent birth and percentage of women with four or more visits with at least one with a professional

more visits with at least one with a professional		Weighted	Weighted
Characteristic	N	%	SE
Number of antenatal care visits			
None	14	3.7	1.3
1-3 visits	38	10.6	3
4-6 visits	161	42.7	3.2
7-9 visits	186	42.6	5.3
10+ visits	3	0.4	0.3
DK/DTR	2		
Missing	37		
Total	441	100	
Attended at least four antenatal care visits			
Yes	350	85.7	4
No	52	14.3	4
DK/DTR	2		
Missing	37		
Total	441	100	
Attended at least four antenatal care visits with docto	r or profes	sional nur	se
Yes	333	81.6	4
No	69	18.4	4
DK/DTR	2		
Missing	37		
Total	441	100	
Attended at least four antenatal care visits with docto	r or profes	sional nur	se
according to best practices (measuring blood type, and	emia, syph	ilis, HIV,	
proteinuria, blood pressure, weight, fundual height, f	etal hearth	eat)	
Yes	149	36	4.3
No	253	64	4.3
DK/DTR	2		
Missing	37		
Total	441	100	



Table E.6.1.3a Content of antenatal care visits - best practices

Percentage dist	ribution of	content d	uring anter	natal visit among	women w	ith a birth	in the last	
two years with	at least one							
_		Weighted	_	_		Weighted		
Procedure	N	%	SE	Procedure	N	%	SE	
Measured blood type			Tested for prote	inuria				
Yes	315	81.8	3.1	Yes	313	83.6	2.6	
No	69	18.2	3.1	No	60	16.4	2.6	
DK/DTR	6			DK/DTR	17			
Missing	0			Missing	0			
Total	390	100		Total	390	100		
Tested for anen	nia			Measured mate	rnal blood	pressure		
Yes	314	80.1	2.5	Yes	389	99.8	0.2	
No	73	19.9	2.5	No	1	0.2	0.2	
DK/DTR	3			DK/DTR	0			
Missing	0			Missing	0			
Total	390	100		Total	390	100		
Tested for syph	ilis			Measured materal weight				
Yes	228	59.1	3.7	Yes	388	99.5	0.4	
No	150	40.9	3.7	No	2	0.5	0.4	
DK/DTR	12			DK/DTR	0			
Missing	0			Missing	0			
Total	390	100		Total	390	100		
Tested for HIV				Measured funda	al height			
Yes	330	83.5	3.5	Yes	370	94.8	2	
No	59	16.5	3.5	No	18	5.2	2	
DK/DTR	1			DK/DTR	2			
Missing	0			Missing	0			
Total	390	100		Total	390	100		
				Measured fetal	heartbeat			
				Yes	380	97.4	0.9	
				No	9	2.6	0.9	
				DK/DTR	1			
				Missing	0			
				Total	390	100		



Table E.6.1.3b Content of antenatal care visits - other services provided

Percentage disti	ribution of	content di	uring anter	natal visit among	women w	ith a birth	in the last		
two years with a	at least one	antenatal	care visit						
		Weighted	Weighted			Weighted	Weighted		
Procedure	N	%	SE	Procedure	N	%	SE		
Collected blood	specimen			Tested for diabe	etes				
Yes	370	94.5	1.7	Yes	180	44.9	2.8		
No	19	5.5	1.7	No	204	55.1	2.8		
DK/DTR	1			DK/DTR	6				
Missing	0			Missing	0				
Total	390	100		Total	390	100			
Collected urine	specimen			Performed an ultrasound					
Yes	378	97	1	Yes	341	85.7	2.7		
No	12	3	1	No	49	14.3	2.7		
DK/DTR	0			DK/DTR	0				
Missing	0			Missing	0				
Total	390	100		Total	390	100			
Measured blood	glucose								
Yes	265	70.2	3.2						
No	101	29.8	3.2						
DK/DTR	4								
Missing	20								
Total	390	100							



Table E.6.1.4 Coverage of tetanus toxoid vaccinations during pregnancy

Among women with prenatal care for a birth in the last two years, percentage who received a tetanus vaccinations during pregnancy and percent distribution by number of vaccinations received and by time since last tetanus vaccination

number of vaccinations received and by time since last tetanus vaccination Weighted							
Characteristic	N	%	Weighted SE				
Received tetanus injection during pregnancy							
Yes	372	91.8	2.5				
No	30	8.2	2.5				
DK/DTR	2						
Missing	35						
Total	439	100					
Number of tetanus vaccinations during pregnancy							
None	38	10.1	2.8				
1	253	63.1	4.4				
2	86	20.9	3				
3	16	3.9	0.8				
4	8	1.9	0.6				
5	0	0					
DK/DTR	3						
Missing	35						
Total	439	100					
Time since last tetanus vaccination							
Never vaccinated	143	50.8	4.1				
<10 years ago	141	43.7	4.8				
≥10 years ago	17	5.5	1.9				
DK/DTR	103						
Missing	35						
Total	439	100					
Time since last tetanus vaccination, among women wh	no were no	t vaccinate	ed during				
pregnancy							
Never vaccinated	15	62.2	10.6				
<10 years ago	8	35.5	10.3				
≥10 years ago	1	2.3	2.5				
DK/DTR	6						
Missing	0						
Total	30	100					



Table E.6.1.5 Exposure to safe pregnancy messages

Among women who				the last two years, p	ercentage exp	osed to spe	ecific safe
pregnancy messages		atar care re		rene ruse ewo yeurs, p	rereemage exp	oscu to sp	
pregnancy messages		Weighted	Weighted			Weighted	Weighted
Characteristic	N	%	SE	Characteristic	N	%	SE
Counseled about pro	egnancy			Advised to have a Ca	aesarean sectio	n	
Yes	362	91.1	2.7	Yes	161	40.6	3
No	28	8.9	2.7	No	229	59.4	3
DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0		
Total	390	100		Total	390	100	
Told about signs to v	watch out for th	at could ir	idicate a	Counseled about ma	aking a transpo	rtation pla	n for the
problem with the pr	egnancy			delivery			
Yes	370	94.1	2	Yes	100	24.8	3.2
No	19	5.9	2	No	289	75.2	3.2
DK/DTR	1			DK/DTR	1		
Missing	0			Missing	0		
Total	390	100		Total	390	100	
Offered an HIV test				Counseled about co	ntraception aft	er delivery	,
Yes	346	87.2	3	Yes	313	79.7	2.4
No	44	12.8	3	No	77	20.3	2.4
DK/DTR	0			DK/DTR	0		
Missing	0			Missing	0		
Total	390	100		Total	390	100	
Counseled about nu	trition during p	regnancy		Counseled about chi	ild care		
Yes	347	88.7	2.3	Yes	278	71	3.2
No	41	11.3	2.3	No	110	29	3.2
DK/DTR	2			DK/DTR	2		
Missing	0			Missing	0		
Total	390	100		Total	390	100	
Given information a	bout in-facility	delivery		Given information a	bout proper wa	ays to brea	st feed
Yes	340	86.4	2.3	Yes	339		2.9
No	50	13.6	2.3	No	50	12.9	2.9
DK/DTR	0			DK/DTR	1		
Missing	0			Missing	0		
Total	390	100		Total	390	100	
Advised to delivery							
Yes	334	84.3	2.9				
No	56	15.7					
DK/DTR	0						
Missing	0						
Total	390	100					



Table E.6.2.1 Place of delivery

Percent distribution of women with a birth in the last two years by location of most recent birth and percent distribution of women with in-facility deliveries by means of transportation used to get to the facility for delivery

		Weighted	_	Mode of		Weighted	Weighted
Characteristic	N	%	SE	transportation	N	%	SE
Delivery location for most re	cent birth			On foot			
Respondent's house	16	5.2	2.1	Yes	43	10.3	2.6
Another person's house	1	0.2	0.2	No	340	89.7	2.6
Public hospital	350	86.1	2.3	DK/DTR	0		
Public health center / clinic	24	5.7	1.3	Missing	0		
Public medical ward	0	0		Total	383	100	
Other public health facility	1	0.5	0.5	Private vehicle			
Private hospital	2	0.3	0.2	Yes	91	23.1	2.7
Private health center / clinic	6	0.9	0.5	No	292	76.9	2.7
Private medical ward	0	0		DK/DTR	0		
Other private health facility	0	0		Missing	0		
Other	4	1.1	0.6	Total	383	100	
DK/DTR	0			Ambulance			
Missing	37			Yes	127	32.2	5.7
Total	441	100		No	256	67.8	5.7
In-hospital delivery				DK/DTR	0		
Yes	352	86.4	2.3	Missing	0		
No	52	13.6	2.3	Total	383	100	
DK/DTR	0			Other public vehicle	e		
Missing	37			Yes	131	36.7	5.4
Total	441	100		No	252	63.3	5.4
In-facility delivery				DK/DTR	0		
Yes	383	93.5	2.1	Missing	0		
No	21	6.5	2.1	Total	383	100	
DK/DTR	0						
Missing	37						
Total	441	100					



Table E.6.2.2a Assistance at delivery: type of attendants

For women's mo				ears, percentage	by type of	delivery a	ttendants	
		Weighted	Weighted			Weighted	Weighted	
Characteristic	N	%	SE	Characteristic	N	%	SE	
Medical doctor				Community heal	th worker			
Yes	374	91.2	2.6	Yes	1	0.3	0.3	
No	30	8.8	2.6	No	402	99.7	0.3	
DK/DTR	0			DK/DTR	1			
Missing	38			Missing	38			
Total	442	100		Total	442	100		
Professional nur	se			Pharmacist				
Yes	332	82.4	3	Yes	2	0.4	0.3	
No	69	17.6	3	No	400	99.6	0.3	
DK/DTR	3			DK/DTR	2			
Missing	38			Missing	38			
Total	442	100		Total	442	100		
Auxiliary nurse				Traditional healer				
Yes	93	23.8	3	Yes	0	0		
No	299	76.2	3	No	403	100		
DK/DTR	12			DK/DTR	1			
Missing	38			Missing	38			
Total	442	100		Total	442	100		
Laboratory techn	nician			Relative				
Yes	11	2.5	0.7	Yes	59	16.8	3	
No	383	97.5	0.7	No	344	83.2	3	
DK/DTR	10			DK/DTR	1			
Missing	38			Missing	38			
Total	442	100		Total	442	100		
Midwife / Coma	drona			Other				
Yes	12	3.1	1.3	Yes	10	2.3	0.8	
No	391	96.9	1.3	No	391	97.7	0.8	
DK/DTR	1			DK/DTR	3			
Missing	38			Missing	38			
Total	442	100		Total	442	100		



Table E.6.2.2b Assistance at delivery: number of attendants

For women's most recent live birth in the past two years, the number of attendants									
during delivery and the presence of skilled attendants									
		Weighted	Weighted						
Characteristic	N	%	SE						
Delivered alone									
Yes	4	1.6	1						
No	400	98.4	1						
DK/DTR	0								
Missing	38								
Total	442	100							
Number of categories of personnel in attendance at d	elivery								
None	4	1.6	1						
One	55	13.3	2.3						
Two	223	54.6	2.7						
Three	98	24	2.6						
Four or more	24	6.5	2						
DK/DTR	0								
Missing	38								
Total	442	100							
Delivery with a skilled birth attendant									
Yes	382	93.4	2.3						
No	22	6.6	2.3						
DK/DTR	0								
Missing	38								
Total	442	100							



Table E.6.2.2c Assistance at delivery: in-facility delivery with skilled birth attendant

For women's most recent live birth in the past two years, the presence of skilled									
attendants at delivery in a health facility or hospital									
Characteristic	N	Weighted %	Weighted SE						
In-facility delivery with a skilled birth attendant			_						
Yes	379	92.5	2.2						
No	25	7.5	2.2						
DK/DTR	0								
Missing	38								
Total	442	100							
In-hospital delivery with a skilled birth attendant									
Yes	349	85.8	2.2						
No	55	14.2	2.2						
DK/DTR	0								
Missing	38								
Total	442	100							



Table E.6.2.3 Mode of delivery and complications

For women's most recent live birth in the past two year	ars, the mo	de of deli	very and
complications during delivery			
Characteristic	N	Weighted %	Weighted SE
Mode of delivery	.,		
Vaginal	271	68.4	2.9
Planned Caesarean section	44	10.4	1.6
Emergency Caesarean section	89	21.2	2.2
DK/DTR	0		
Missing	37		
Total	441	100	
Reason for attending a health facility for delivery, amo	ong in-faci	lity births	
Planned	159	42.7	3.1
Emergency	219	56.1	2.9
Other	5	1.2	0.6
DK/DTR	0		
Missing	0		
Total	383	100	
Respondent had seizures prior to delivery			
Yes	8	2.5	0.9
No	395	97.5	0.9
DK/DTR	1		
Missing	37		
Total	441	100	
Child entered neonatal intensive care unit after delive	ery		
Yes	48	12.9	1.6
No	355	87.1	1.6
DK/DTR	1		
Missing	37		
Total	441	100	
Respondent had excessive bleeding in the first day fo	llowing the	e delivery	
Yes	121	30.1	3.8
No	283	69.9	3.8
DK/DTR	0		
Missing	37		
Total	441	100	



Table E.6.2.4 Birth size and weight

For women's most recent live birth in the past two years, the size and weight of the									
child at birth									
		Weighted	Weighted						
Characteristic	N	%	SE						
Mother's estimate of the size of the child at birth									
Very large	7	1.6	0.6						
Larger than average	37	9.3	1.6						
Average	328	81.6	1.9						
Smaller than average	19	5.4	1.4						
Very small	9	2.2	0.6						
DK/DTR	4								
Missing	36								
Total	440	100							
Child's weight was measured at birth									
Yes	387	94.9	2.2						
No	15	5.1	2.2						
DK/DTR	2								
Missing	36								
Total	440	100							
Child's birth weight, among those who were weighed									
<2.5 kg (low birth weight)	41	11.1	1.8						
≥2.5 kg	325	88.9	1.8						
DK/DTR	12								
Missing	9								
Total	387	100							



Table E.6.3.1a Postnatal checkup for the mother

For women's most recent live birth in the past two years, postpartum care received									
by the respondent									
		Weighted	Weighted						
Characteristic	N	%	SE						
Respondent was checked after delivery									
Yes	324	79.3	3.2						
No	80	20.7	3.2						
DK/DTR	0								
Missing	37								
Total	441	100							
Respondent was checked every 15 minutes during the	first hour	after deliv	ery while						
still at health facility, among in-facility births									
Yes	145	38.2	3.3						
No	236	61.8	3.3						
DK/DTR	2								
Missing	0								
Total	383	100							
Respondent was checked within one week after deliv-	ery by a he	alth provid	der						
Yes	268	66	2.5						
No	136	34	2.5						
DK/DTR	0								
Missing	37								
Total	441	100							



Table E.6.3.1b Postnatal checkup for the mother: providers

care visit for th	10 111050100	Weighted	Weighted			Weighted	Weighted			Weighted	Weighted
Attendant	N	%	SE	Attendant	N	%	SE	Attendant	N	%	SE
Medical docto	r		-	Midwife / Cor	nadrona	-		Relative			
0 visits	53	16.8	2.1	0 visits	321	99	0.5	0 visits	323	99.7	0.3
1 visit	147	47.2	4.3	1 visit	3	1	0.5	1 visit	1	0.3	0.3
2 visits	86	25.1	3.1	2 visits	0	0		2 visits	0	0	
3 visits	24	6.7	1.3	3 visits	0	0		3 visits	0	0	
4 visits	6	1.9	0.8	4 visits	0	0		4 visits	0	0	
5 visits	3	0.8	0.5	5 visits	0	0		5 visits	0	0	
6 visits	2	0.6	0.4	6 visits	0	0		6 visits	0	0	
7 visits	1	0.3	0.3	7 visits	0	0		7 visits	0	0	
8 visits	2	0.5		8 visits	0	0		8 visits	0	0	
Missing	0			Missing	0			Missing	0		
Total	324	100		Total	324	100		Total	324	100	
Professional n				Community h				Other	, , , ,		
0 visits	243	74.6	2	0 visits	324			0 visits	322	99.4	0.4
1 visit	68	21.6		1 visit	0	0		1 visit	2		
2 visits	10	3		2 visits	0	0		2 visits	0	0.0	
3 visits	1	0.3		3 visits	0			3 visits	0	0	
4 visits	2	0.5		4 visits	0			4 visits	0		
5 visits	0	0.3		5 visits	0			5 visits	0		
6 visits	0	0		6 visits	0			6 visits	0		
7 visits	0	0		7 visits	0			7 visits	0		
8 visits	0	0		8 visits	0			8 visits	0		
	0				0			Missing	0		
Missing Total	324	100		Missing Total	324			Total	324	100	
		100				100					
Auxiliary nurse		00.0	0.6	Pharmacy assi		100		Didn't know at			
0 visits	321	98.8		0 visits	324			0 visits	322	99.3	
1 visit	2	0.7		1 visit	0			1 visit	2		
2 visits	1 0	0.4		2 visits	0			2 visits	0		
3 visits		0		3 visits	0			3 visits	0		
4 visits	0			4 visits	0			4 visits	0		
5 visits	0	0		5 visits	0			5 visits	0	-	
6 visits	0			6 visits	0			6 visits	0		
7 visits	0			7 visits	0			7 visits	0		
8 visits	0	0		8 visits	0			8 visits	0		
Missing	0			Missing	0			Missing	0		
Total	324	100		Total	324	100		Total	324	100	
Laboratory tec				Traditional he							
0 visits	324			0 visits	324						
1 visit	0			1 visit	0						
2 visits	0			2 visits	0	-					
3 visits	0			3 visits	0						
4 visits	0			4 visits	0						
5 visits	0			5 visits	0						
6 visits	0	0		6 visits	0	0					
7 visits	0	0		7 visits	0	0					
8 visits	0	0		8 visits	0	0					
Missing	0			Missing	0						
Total	324	100		Total	324	100					



Table E.6.3.2a Postnatal checkup for the neonate

For women's most recent live birth in the past two years, postpartum care received									
by the baby									
		Weighted	Weighted						
Characteristic	N	%	SE						
Baby was checked after delivery									
Yes	329	79.9	2.9						
No	75	20.1	2.9						
DK/DTR	0								
Missing	37								
Total	441	100							
Baby was checked within 24 hours after delivery by a h	nealth prov	/ider							
Yes	122	35.3	3.6						
No	234	64.7	3.6						
DK/DTR	0								
Missing	85								
Total	441	100							
Baby was checked within one week after delivery by a	health pro	ovider							
Yes	232	64.5	3.4						
No	124	35.5	3.4						
DK/DTR	0								
Missing	85								
Total	441	100							



Table E.6.3.2b Postnatal checkup for the neonate: providers

Percentage dis	stribution o	f attendan					he last two	years who att	ended at le	ast one po	stnatal
Attendant	N	Weighted %	Weighted SE	Attendant	N	Weighted %	Weighted SE	Attendant	N	Weighted %	Weighted SE
Medical doctor		,,		Midwife / Con		,,		Relative		,,	
0 visits	40	13.1	2.3	0 visits	329	100		0 visits	328	99.8	0.2
1 visit	167	50.4		1 visit	0			1 visit	0	0	
2 visits	80	23.4		2 visits	0			2 visits	1	0.2	
3 visits	21	7.1		3 visits	0	0		3 visits	0	0.2	
4 visits	10	3.2		4 visits	0	0		4 visits	0	0	
5 visits	6	1.3		5 visits	0	0		5 visits	0	0	
6 visits	2	0.7		6 visits	0	0		6 visits	0	0	
7 visits	1	0.3		7 visits	0	0		7 visits	0	0	
8 visits	2	0.5		8 visits	0	0		8 visits	0	0	
Missing	0	0.5	0.5	Missing	0			Missing	0		
Total	329	100		Total	329	100		Total	329	100	
Professional n		100		Community he				Other	323	100	
0 visits	265	80.7	2.2	0 visits	329	100		0 visits	328	99.7	0.3
1 visits	54	16.8		1 visits	0			1 visits	1	0.3	
2 visits	5			2 visits	0	0		2 visits	0	0.3	
	3	1.4 0.7		3 visits	0				0	0	
3 visits	0	0.7	0.4	4 visits	0	0		3 visits	0	0	
4 visits			0.2			0		4 visits			
5 visits	1	0.2	0.2	5 visits	0			5 visits	0	0	
6 visits	0	0	0.2	6 visits	0	0		6 visits	0	0	
7 visits	1	0.2	0.2	7 visits	0			7 visits	0	0	
8 visits	0	0		8 visits	0	0		8 visits	0	0	
Missing	0	100		Missing	0	400		Missing	0	400	
Total	329	100		Total	329	100		Total	329	100	
Auxiliary nurse				Pharmacy assi				Didn't know at			
0 visits	327	99		0 visits	329	100		0 visits	325	98.9	
1 visit	1	0.7	0.7	1 visit	0			1 visit	4	1.1	
2 visits	0	0		2 visits	0			2 visits	0	0	
3 visits	1	0.3	0.3	3 visits	0			3 visits	0	0	
4 visits	0			4 visits	0			4 visits	0	0	
5 visits	0			5 visits	0			5 visits	0	0	
6 visits	0			6 visits	0			6 visits	0	0	
7 visits	0			7 visits	0			7 visits	0	0	
8 visits	0			8 visits	0			8 visits	0	0	
Missing	0			Missing	0			Missing	0		
Total	329	100		Total	329	100		Total	329	100	
Laboratory tec				Traditional he							
0 visits	329			0 visits	329						
1 visit	0			1 visit	0						
2 visits	0			2 visits	0						
3 visits	0			3 visits	0						
4 visits	0			4 visits	0						
5 visits	0			5 visits	0						
6 visits	0			6 visits	0						
7 visits	0	0		7 visits	0	0					
8 visits	0	0		8 visits	0	0					
Missing	0			Missing	0						
Total	329	100		Total	329	100					



Table E.7.1 Age and sex of children

Percent distribut	Percent distribution of the de facto population of children aged 0-59 months							
in the SM2015 ba	in the SM2015 baseline survey							
	Female Male Total							
	N	%	N	%	N	%		
Age, in months								
0-5 months	35	8.6	51	12.4	86	10.4		
6-11 months	43	10.5	37	9	81	9.8		
12-23 months	88	21.6	88	21.5	177	21.5		
24-35 months	91	22.3	80	19.5	171	20.7		
36-47 months	74	18.1	67	16.3	144	17.5		
48-59 months	77	18.9	87	21.2	166	20.1		
Total	408	100	410	100	825	100		

Table E.7.1.1 Current health status

Percent distribution of children aged 0-59 months, as reported by					
their mothers					
Characteristic	N	Weighted %	Weighted SE		
Current health					
Excellent	164	20.1	2.3		
Very good	209	26.7	2.5		
Good	218	27.9	2.5		
Fair	179	21.8	1.9		
Poor	28	3.5	0.7		
DK/NR	0				
Missing	27				
Total	825	100			
Current health relative to health last ye	ar				
Better	344	55.5	2.6		
Worse	36	6.2	1.3		
About the same	233	38.3	2.4		
DK/NR	2				
Missing	20				
Total	635	100			
Ability to perform daily activities					
Easily	749	94.3	0.9		
With some difficulty	33	4	0.8		
With much difficulty	2	0.2	0.2		
Unable to do	12	1.4	0.5		
DK/NR	2				
Missing	27				
Total	825	100			



Table E.7.1.2 Recent illness

Percent distribution of children ag	ed 0-59 months	, as reporte	ed by
their mothers			
a		Weighted	_
Characteristic	N	%	SE
Child was sick recently (in the last			
Yes	252	30.3	2.2
No	549	67.5	2
DK/NR	0		
Missing	4		
Total	805	100	
Recent illness			
Fever	53	21.2	2.6
Malaria	0	0	
Cough/chest infection	79	31.9	3.5
Tuberculosis	0	0	
Asthma	3	1.1	0.6
Bronchitis	1	0.6	0.6
Pneumonia	4	1.5	0.7
Diarrhea without blood	42	16.5	3
Diarrhea with blood	5	2.2	0.9
Vomiting	7	2.4	1
Abdominal pain	1	0.4	0.4
Anemia	0	0	
Skin rash/infection	2	0.8	0.5
Eye/ear infection	3	1	0.6
Measles	0	0	
Jaundice	0	0	
Headache	0	0	
Stroke	0	0	
Diabetes	0	0	
HIV/AIDS	0	0	
Paralysis	0	0	
Other	52	20.4	3
DK/NR	0		
Missing	0		
Total	252	100	



Table E.7.1.3 Utilization of health services for recent illness

Percent distribution of children 0-59 months who were sick in the last two weeks						
Utilization of health services	N	Weighted %	Weighted SE			
Sought care for recent illness						
Yes	161	61.5	4.4			
No	91	38.5	4.4			
DK/NR	0					
Missing	0					
Total	252	100				
Type of medical facility where care	was sought					
Public hospital	28	17.6	4			
Public health unit	51	31.7	5.5			
Public clinic/health center	29	19	3.2			
Public mobile clinic	0	0				
Other public health center	2	1.5	1.1			
Private hospital	2	0.9	0.6			
Private clinic/health center	9	4.6	1.7			
Private office	14	7.8	1.8			
Private mobile clinic	0	0				
Other private health center	0	0				
Pharmacy	15	9.8	3.3			
Community health worker	1	0.4	0.4			
Traditional healer	1	0.5	0.5			
Other	9	6.2	2.4			
DK/NR	0					
Missing	0					
Total	161	100				
Child was hospitalized for recent illness						
Yes	8	3	1.5			
No	244	97	1.5			
DK/NR	0					
Missing	0					
Total	252	100				



Table E.7.2.1 Prevalence of acute respiratory infection and fever

Percent distribution of children aged 0-59 months, as reported by their mothers						
Characteristic	N	Weighted %	Weighted SE			
Child had cough in the last two weeks						
Yes	210	26.4	1.8			
No	594	73.6	1.8			
DK/NR	1					
Missing	20					
Total	825	100				
Child had cough in the last two weeks, by type						
Cough with difficulty breathing due to chest problem	29	3.8	0.7			
Cough with difficulty breathing due to congested or runny nose	60	7.4	1.2			
Cough with difficulty breathing due to chest provlem and congested or runny nose	24	3.1	0.8			
Cough with difficulty breathing due to other reason	1	0.1	0.1			
Cough without difficulty breathing	94	11.9	1.2			
No cough	594	73.7	1.8			
DK/NR	3					
Missing	20					
Total	825	100				
Child had acute respiratory infection in the last two weeks						
Yes	115	14.5	1.5			
No	688	85.5	1.5			
DK/NR	2					
Missing	20					
Total	825	100				
Child had fever in the last two weeks						
Yes	134	16.7	1.9			
No	671	83.3	1.9			
DK/NR	0					
Missing	20					
Total	825	100				



Table E.7.2.2 Utilization of health services for acute respiratory infection

Percent distribution of children aged 0-59 mothhs who had acute respiratory infection in the last two weeks, as reported by their mothers

mothers		Weighted	Weighted			
Characteristic	N	%	SE			
Sought care for acute respiratory infecti	Sought care for acute respiratory infection					
Yes	72	58.3	6.5			
No	43	41.7	6.5			
DK/NR	0					
Missing	0					
Total	115	100				
Type of medical facility where care was	sought					
Public hospital	10	13.3	5.1			
Public health unit	22	31	6.2			
Public clinic/health center	16	23.5	4.2			
Public mobile clinic	0	0				
Other public health center	1	1.4	1.5			
Private hospital	1	1.2	1.2			
Private clinic/health center	3	3.2	2.3			
Private office	5	6.5	2.9			
Private mobile clinic	0	0				
Other private health center	0	0				
Pharmacy	10	14.6	5			
Community health worker	1	0.8	0.8			
Traditional healer	0	0				
Other	3	4.7	2.5			
DK/NR	0					
Missing	0					
Total	72	100				



Table E.7.2.3a Utilization of medications for acute respiratory infection

Percent distribution of children aged 0-59 months who had acute respiratory infection in the last two weeks, as reported by their mothers

mothers			
Medication	N	Weighted %	Weighted SE
Any treatment			
Yes	106	91.1	3.7
No	9	8.9	3.7
DK/NR	0		
Missing	0		
Total	115	100	
Antibiotic injection			
Yes	4	3.5	1.9
No	102	96.5	1.9
DK/NR	0		
Missing	9		
Total	115	100	
Antibiotic pill			
Yes	8	6.8	2.3
No	98	93.2	2.3
DK/NR	0		
Missing	9		
Total	115	100	
Antibiotic syrup			
Yes	66	61.1	4.4
No	40	38.9	4.4
DK/NR	0		
Missing	9		
Total	115	100	
Aspirin			
Yes	1	1.1	1.1
No	105	98.9	1.1
DK/NR	0		
Missing	9		
Total	115	100	



Table E.7.2.3a continued

Table E.7.2.3a continued		Weighted	
	N	%	SE
Acetaminofen			
Yes	66	63.1	5.3
No	40	36.9	5.3
DK/NR	0		
Missing	9		
Total	115	100	
Ibuprofen			
Yes	5	4.4	2.1
No	101	95.6	2.1
DK/NR	0		
Missing	9		
Total	115	100	
Oral rehydration therapy			
Yes	3	2.3	1.3
No	103	97.7	1.3
DK/NR	0		
Missing	9		
Total	115	100	
Other			
Yes	22	22.4	4.9
No	83	77.6	4.9
DK/NR	1		
Missing	9		
Total	115	100	



Table E.7.2.4 Feeding practices during acute respiratory infection

Percent distribution of children aged 0-59 months who had acute respiratory infection in the last two weeks, as reported by their mothers

mothers					
		Weighted	Weighted		
Amount given	N	%	SE		
Volume of fluids (including breast milk) given during illness					
No fluids	3	2.2	1.3		
Much less	18	15.2	2.8		
Somewhat less	39	35	5.2		
About the same	50	43.2	4.5		
More	5	4.4	2.3		
DK/NR	0				
Missing	0				
Total	115	100			
Volume of solid foods given during illne	ess				
No solids	4	3.3	1.6		
Much less	19	16.1	4.4		
Somewhat less	50	45	6		
About the same	41	34.3	4.8		
More	1	1.3	1.3		
DK/NR	0				
Missing	0				
Total	115	100			



Table E.7.3.1 Prevalence of diarrhea

Percent distribution of children aged 0-59 months, as reported by						
their mothers						
Weighted Weighted						
Characteristic	N	%	SE			
Child had diarrhea in the last two weeks						
Yes	70	8.7	0.9			
No	724	91.3	0.9			
DK/NR	4					
Missing	7					
Total	805	100				
Child had diarrhea in the last two week	s, by type					
Diarrhea with blood	9	1	0.4			
Diarrhea without blood	61	7.7	0.9			
No diarrhea	724	91.3	0.9			
DK/NR	4					
Missing	7					
Total	805	100				



Table E.7.3.2 Utilization of health services for diarrhea

Percent distribution of children aged 0-59 months who had diarrhea in					
the last two weeks, as reported by their mothers					
Characteristic	N	Weighted %	Weighted SE		
Sought care for diarrhea					
Yes	55	49.2	5.8		
No	49	50.8	5.8		
DK/NR	0				
Missing	0				
Total	104	100			
Type of medical facility where care was	sought				
Public hospital	9	17.3	5.6		
Public health unit	11	19.8	5.8		
Public clinic/health center	11	21.5	6.4		
Public mobile clinic	0	0			
Other public health center	1	2.4	2.5		
Private hospital	0	0			
Private clinic/health center	4	6.6	3.1		
Private office	6	9.4	3.5		
Private mobile clinic	0	0			
Other private health center	0	0			
Pharmacy	7	12.7	4.8		
Community health worker	0	0			
Traditional healer	1	1.5	1.5		
Other	5	8.8	5.2		
DK/NR	0				
Missing	0				
Total	55	100			



Table E.7.3.3a Utilization of treatments for diarrhea

Percent distribution of children age 0-5	9 months v	vho had di	arrhea in		
the last two weeks, as reported by their mother					
		Weighted			
Treatment given	N	%	SE		
Any treatment given					
Yes	64	90.8	3.1		
No	6	9.2	3.1		
DK/NR	0				
Missing	0				
Total	70	100			
Powdered oral serum					
Yes	31	43.2	6.7		
No	39	56.8	6.7		
DK/NR	0				
Missing	0				
Total	70	100			
Bottled oral serum					
Yes	8	10.3	3		
No	62	89.7	3		
DK/NR	0				
Missing	0				
Total	70	100			
Homemade fluid recommended by hea	lth authori	ties			
Yes	8	10.2	4.2		
No	61	89.8	4.2		
DK/NR	1				
Missing	0				
Total	70	100			
Antibiotic pill					
Yes	9	11.1	3.6		
No	61	88.9	3.6		
DK/NR	0				
Missing	0				
Total	70	100			



Table E.7.3.3a continued

<u>Fable E.7.3.3a continued</u>		Weighted	Weighted
Treatment given	N	%	SE
Antidiarrheal pill			
Yes	6	10.8	4.5
No	64	89.2	4.5
DK/NR	0		
Missing	0		
Total	70	100	
Zinc pill			
Yes	6	8.2	3.4
No	64	91.8	3.4
DK/NR	0		
Missing	0		
Total	70	100	
Other type of pill			
Yes	4	6.3	2.9
No	66	93.7	2.9
DK/NR	0		
Missing	0		
Total	70	100	
Unknown pill			
Yes	10	17.3	5.3
No	59	82.7	5.3
DK/NR	1		
Missing	0		
Total	70	100	
Antibiotic injection			
Yes	0	0	
No	70	100	
DK/NR	0		
Missing	0		
Total	70	100	



Table E.7.3.3a continued

		Weighted	Weighted
Treatment given	N	%	SE
Non-antibiotic injection			
Yes	0	0	
No	70	100	
DK/NR	0		
Missing	0		
Total	70	100	
Unknown injection			
Yes	0	0	
No	70	100	
DK/NR	0		
Missing	0		
Total	70	100	
Intravenous therapy			
Yes	0	0	
No	70	100	
DK/NR	0		
Missing	0		
Total	70	100	
Home remedy / herbal medicine			
Yes	12	14.9	4.5
No	58	85.1	4.5
DK/NR	0		
Missing	0		
Total	70	100	
Antibiotic syrup			
Yes	18	24.3	5.6
No	52	75.7	5.6
DK/NR	0		
Missing	0		
Total	70	100	
Antidiarrheal syrup			
Yes	7	8.4	2.7
No	63	91.6	2.7
DK/NR	0		
Missing	0		
Total	70	100	



Table E.7.3.3a continued

Table E.7.3.3a Continued	Weighted	Weighted	
Treatment given	N	%	SE
Zinc syrup			
Yes	1	2.2	2.1
No	69	97.8	2.1
DK/NR	0		
Missing	0		
Total	70	100	
Other syrup			
Yes	5	6.8	2.8
No	65	93.2	2.8
DK/NR	0		
Missing	0		
Total	70	100	
Unknown syrup			
Yes	0	0	
No	70	100	
DK/NR	0		
Missing	0		
Total	70	100	



Table E.7.3.3b Utilization of oral rehydration solution for diarrhea

Percent distribution of children aged 0-59 months who had diarrhea in								
the last two weeks, as reported by their mothers								
Treatment given Weighted Weighted SE								
Oral rehydration solution and zinc, amo	ng all child	lren with d	iarrhea					
Yes	6	6	2.3					
No	98	94	2.3					
DK/NR	0							
Missing	0							
Total	104	100						
Oral rehydration solution and zinc, amo	ng those g	iven any tr	eatment					
Yes	6	7	2.8					
No	85	93	2.8					
DK/NR	0							
Missing	13							
Total	104	100						

Table E.7.3.4 Feeding practices during diarrhea

Percent distribution of children aged 0-59 months who had diarrhea in					
the last two weeks, as reported by thei	r mothers				
		Weighted	Weighted		
Amount given	N	%	SE		
Volume of fluids (including breastmilk)	given duri	ng illness			
No fluids	2	1.5	1.1		
Much less	13	12.4	3.1		
Somewhat less	36	34.5	4.6		
About the same	45	44.4	4.5		
More	8	7.1	2.7		
DK/NR	0				
Missing	0				
Total	104	100			
Volume of solid foods given during illne	ess				
No solids	5	4.5	1.9		
Much less	18	18.4	4		
Somewhat less	33	30.9	3.4		
About the same	46	44	4.2		
More	2	2.2	1.6		
DK/NR	0				
Missing	0				
Total	104	100			



Table E.7.4a Immunization against common childhood illnesses

Percent distribution of children a	ged 0-59 m	onths, as re	eported by	their mot	hers	
		Recall		Va	ccination c	ard
		Weighted	Weighted		Weighted	Weighted
Immunization	N	%	SE	N	%	SE
BCG vaccine (tuberculosis), amon	g children ()-59 month	ıs			
None recalled/recorded	5	0.6	0.3	35	5.6	1.2
1 dose	746	98.2	0.5	635	94.4	1.2
2+ doses	9	1.2	0.5	0	0	
DK/NR, missing	65			155		
Total	825	100		825	100	
Oral polio vaccine, among childre	n 6-59 mon	ths				
None recalled/recorded	11	1.5	0.5	27	4.5	1.1
1 dose	121	18.4	2.3	25	4.6	1.2
2 doses	20	3	0.9	18	3.2	0.6
3+ doses	528	77.1	2.3	525	87.6	1.7
DK/NR, missing	59			144		
Total	739	100		739		
Pentavalent vaccine (DPT, HepB,			6-59 month			
None recalled/recorded	13	1.8	0.5	31	5.8	1.1
1 dose	90	13.9	1.8	19		0.8
2 doses	38	5.5	1.2	45		1.1
3+ doses	540	78.8	2.2	499		2.1
DK/NR, missing	58	70.0		145	55.5	
Total	739	100		739	100	
Pneumoccal conjugate vaccine, a			ths who w			r
None recalled/recorded	16	10.1	2.8	9	5.4	1.4
1 dose	24	14.6		5		1.4
2 doses	7	5.1	1.5	15	11.3	3.3
3+ doses	116	70.3	4.2	127	79.6	4.3
DK/NR, missing	28	70.3		35		1.5
Total	191	100		191	100	
Rotavirus vaccine, among childre					200	
None recalled/recorded	76	11.2	1.9	57	10	1.7
1 dose	99	14.8		26		0.8
2 doses	33	4.8	0.8	42	7.7	1
3+ doses	468	69.2	2.5	468	78.6	2.1
DK/NR, missing	63	03.2	2.5	146	70.0	2.1
Total	739	100		739	100	
Diphtheria, tetanus and pertussis						
None recalled/recorded	63			.0 33 mon 70		2.8
1 dose	434	82.2		382		2.8
2+ doses	27	5.1	1.5	0		2.0
DK/NR, missing	49	3.1	1.3	121		
Total	573	100		573		
Measles, mumps, and rubella (Mi						
	vik) vaccine 42	_				2.1
None recalled/recorded		7.2	1 7	57		
1 dose	495		1.7	460		2.1
2+ doses	61	9.7	1.3	141		
DK/NR, missing	60			141		
Total	658	100		658	100	



Table E.7.4b Immunization against common childhood illnesses, according to age group

Percent distribution of children, as reported by their mothers									
		Recall		Vac	cination ca	ard ^a	Vaccinat	ion card ^a p	lus recall
		Weighted	Weighted		Weighted	Weighted		Weighted	Weighted
Immunization	N	%	SE	N	%	SE	N	%	SE
Measles, mumps, an	d rubella (MMR) vaco	ine, at leas	st 1 dose a	mong child	lren 12-23 r	months		
Yes	153	97.1	1.3	138	82.9	2.8	161	96.7	1.3
No	5	2.9	1.3	30	17.1	2.8	5	3.3	1.3
DK/NR, missing	19			9			11		
Total	177	100		177	100		177	100	
Fully immunized ^b , ar	nong child	ren 18-59 r	nonths						
Yes	292	56.6	3.1	284	51	2.8	370	67	3.2
No	224	43.4	3.1	264	49	2.8	174	33	3.2
DK/NR, missing	57			25			29		
Total	573	100		573	100		573	100	
Fully immunized ^b , ar	nong child	ren 0-59 m	onths						
Yes	452	61.5	3.1	457	57.1	2.9	567	71.5	3
No	285	38.5	3.1	331	42.9	2.9	216	28.5	3
DK/NR, missing	88			37			42		
Total	825	100		825	100		825	100	

^aAmong 1,778 children aged 0-59 months who had a vaccine card available for review (80 percent of the sample, unweighted) 0 Full immunization for age is defined as follows: 0-2 months (BCG x1); >2-4 months (BCG x1, OPV x1, Penta x1, Pneum x1, Rota x1); >4-6 months (BCG x1, OPV x2, Penta x2, Pneum x2, Rota x2); >6-12 months (BCG x1, OPV x3, Penta x3, Pneum x3, Rota x3); >12-18 months (BCG x1, OPV x3, Penta x3, Pneum x3, Rota x3, MMR x1); >18-59 months (BCG x1, OPV x3, Penta x3, Pneum x3, Rota x3, MMR x1, DPT x1). All Pneum compliance is calculated among children born 2012 or later.



Table E.7.5 De-worming treatment

Percent distribution of children, as reported by their mothers						
Weighted Weig						
Treatment given	N	%	SE			
De-worming treatment given at least two times in the last 12 months,						
among children age 12-59 months						
Yes	215	35	1.9			
No	398	65	1.9			
DK/NR	2					
Missing	19					
Total	634	100				

Table E.8.1 Breastfeeding

Percentage of children			
		Weighted	Weighted
Characteristic	N	%	SE
Early initiation of breastfeeding (among	g children <	<24 months	s)
Yes	394	79.5	2.5
No	100	20.5	2.5
Missing, DK/NR	18		
Total	512	100	
Exclusive breastfeeding (among childre	n 0-5 mont	ths)	
Yes	33	42.7	6.2
No	48	57.3	6.2
Missing, DK/NR	5		
Total	86	100	
Continued breastfeeding at 1 year (amo	ng childre	n 12-15 mc	onths)
Yes	32	55.9	7.1
No	23	44.1	7.1
Missing, DK/NR	4		
Total	59	100	



Table E.8.2 Solid foods

Percentage of children					
		Weighted	_		
Characteristic	N	%	SE		
Introduction of solid foods (among child	dren 6-8 m	onths)			
Yes	37	83.9	6		
No	7	16.1	6		
Missing, DK/NR	1				
Total	45	100			
Minimum dietary diversity (among child	dren 6-23 n	nonths)			
Yes	132	51.8	4.5		
No	117	48.2	4.5		
Missing, DK/NR	9				
Total	258	100			
Minimum meal frequency (among child	ren 6-23 m	onths)			
Yes	121	56.5	3.7		
No	93	43.5	3.7		
Missing, DK/NR	44				
Total	258	100			
Minimum acceptable diet (among child	ren 6-23 m	onths)			
Yes	59	23.4	4.1		
No	186	76.6	4.1		
Missing, DK/NR	13				
Total	258	100			
Consumption of iron-rich foods (among children 6-23 months)					
Yes	104	39.9	4		
No	145	60.1	4		
Missing, DK/NR	9				
Total	258	100			



Table E.8.3 Micronutrient supplements

Table E.8.3 Micronutrient supplements Percentage of children who received the supplement					
research who received the	Сэцруген	Weighted	Weighted		
Type of supplement	N	%	SE		
Vitamin A in the last six months (among	children a	ged 0-59 n	nonths)		
Yes	414	51.1	2.4		
No	374	48.9	2.4		
DK/NR	10				
Missing	27				
Total	825	100			
Iron in the last day (among children age	d 0-59 mor	nths)			
Yes	56	6.6	0.9		
No	738	93.4	0.9		
DK/NR	4				
Missing	27				
Total	825	100			
Packets of micronutrients in the last six	months (a	mong child	dren aged		
6-23 months)					
0 times	235	97.2	1.6		
1-10 times	1	0.5	0.5		
11-20 times	1	0.5	0.5		
21-30 times	0	0			
31-40 times	1	0.5	0.5		
41-50 times	1	0.4	0.4		
51-59 times	0	0			
60+ times	2	1	1		
DK/NR	7				
Missing	9				
Total	257	100			



Table E.9 Age and sex of children measured

Percent distribution of the de facto population of children age 0-59
months who underwent the Physical Measurement Module, by sex
and type of measurement, unweighted data

and type of measurement, anvergneed	Female Male			
Measurement	(%)	(%)	(%)	
Height and weight	-			
0-5	8.5	12.6	10.5	
6-11	10.8	9	9.9	
12-23	21.6	21.9	21.7	
24-35	22.3	19.3	20.8	
36-47	18.3	16.1	17.2	
48-59	18.5	21.1	19.8	
Total	100	100	100	
Number of children	399	398	797	
Anemia				
0-5	2.2	2	2.1	
6-11	11	9.9	10.5	
12-23	23.8	24.2	24	
24-35	23.5	21.9	22.7	
36-47	19.6	18.1	18.9	
48-59	19.9	23.9	21.8	
Total	100	100	100	
Number of children	362	343	705	

Distribution of Weight for Age Z Scores, Unweighted

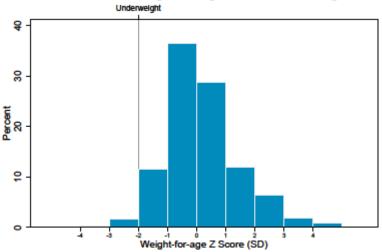


Figure E.9.1.1 Distribution of weight-for-age z-scores among children aged 0-59 months



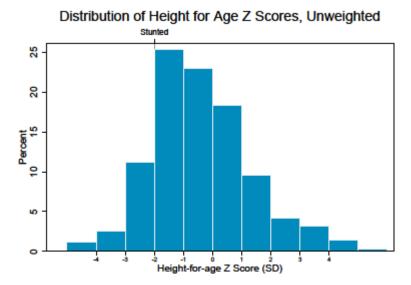


Figure E.9.2.1 Distribution of height-for-age z-scores among children aged 0-59 months

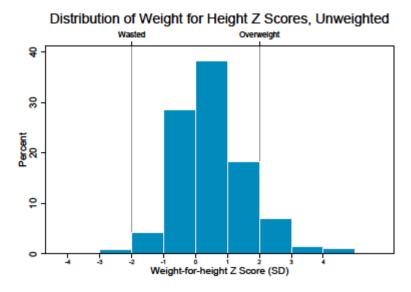


Figure E.9.3.1 Distribution of weight-for-height z-scores among children aged 0-59 months



Table E.9.2 Prevalence of underweight in children aged 0-59 months

Percentage of children under five years classified as malnourished according to three anthropometric indices of nutritional status; weight-for-height, height-for-age, and weight-for-age, by age and sex

Hutiltional Status. Weight-101-height, height-101-age, and weight-101-age, by age and sex									
	Weight fo	or age (und	age (underweight) Height-for-age (stunting)		Weight-for-height (wasting)				
	Percent <	Percent <	Percent >	Percent <	Percent <	Percent <	Percent <	Percent >	Number of
Characteristic	-3 SD	-2 SD	+2 SD	-3 SD	-2 SD	-3 SD	-2 SD	+2 SD	children
Total	1.2	3.7	7.9	4.5	16.4	0.7	1.7	8.7	825
Sex									
Male	0.9	3.7	9.9	5.1	16.4	0.4	1.1	8.3	410
Female	1.6	3.6	6	3.9	16.3	0.9	2.3	9.2	408
Age in months	Age in months								
0-5	1.2	2.1	29.6	0	1.9	2.1	3.2	7.5	86
6-23	0	0	14.5	1.1	3.3	0	0	16.9	81
12-23	0.5	0.5	7.2	3.8	9.5	0.9	1.9	6.6	177
24-59	1.7	6	2.6	6.3	24.7	0.2	1.4	8.2	448

Distribution of Altitude-adjusted Hemoglobin Values, Unweighted Children 0-59 months

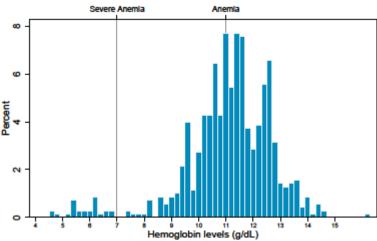


Figure E.9.4.1 Distribution of hemoglobin values among children aged 0-59 months



Table E.9.4.2 Prevalence of anemia in children aged 0-59 month

	Weighted Anemia Prevalence		
Characteristic	N	<7g/dL	< 11g/dL
Age in months			
0-5	86	26.3	63
6-11	81	4.2	63.4
12-23	177	10.8	56
24-59	481	4.9	39.2
0-59	825	6.8	46.4
6-23	258	8.9	58.2
Sex			
Male	410	7.2	47.1
Female	408	6.4	45.7

Table E.10.1.1 Exposure to community health workers

Percent distribution of women				
		Weighted	Weighted	
Characteristic	N	%	SE	
Met with a community health worker in	the last m	onth		
Yes	34	3.2	1	
No	1062	96.8	1	
DK/NR	1			
Missing	6			
Total	1103	100		
Number of times respondent met with	a commun	ity health v	workerin	
the last month				
Did not meet	1062	96.8	1	
One time	24	1.3	0.3	
Two times	9	1.7	0.8	
Three times	0	0		
Four or more times	1	0.2	0.2	
DK/NR	1			
Missing	6			
Total	1103	100		



Table E.10.1.2 Services provided by community health workers

worker in the last month			
		Weighted	Weighted
Type of service	N	%	SE
Referral for prenatal care			
Yes	11	33.6	13.4
No	23	66.4	13.4
DK/NR	0		
Missing	0		
Total	34	100	
Referral for in-facility delivery			
Yes	6	10.8	6.0
No	28	89.2	6.0
DK/NR	0		
Missing	0		
Total	34	100	
Referral for postnatal care			
Yes	13	59.6	10.4
No	21	40.4	10.4
DK/NR	0		
Missing	0		
Total	34	100	
Referral for voluntary counseling ar	d testing for th	ne prevent	ion of
HIV/syphilis transmission from mot	her to child		
Yes	11	33.7	13.
No	23	66.3	13.
DK/NR	0		
Missing	0		
Total	34	100	
Advice about family planning and co	ontraception		
Yes	19	50.9	14.4
	15	49.1	14.4
No			
No DK/NR	0		
DK/NR	0		
DK/NR Missing	0	100	
DK/NR Missing Total		100	
DK/NR Missing Total Child vaccination	0 34		14
DK/NR Missing Total Child vaccination Yes	0 34	48.9	14.:
DK/NR Missing Total Child vaccination Yes	0 34 21 13		14.: 14.:
DK/NR Missing Total Child vaccination Yes	0 34	48.9	



Percent distribution of women who met with a community health					
worker in the last month					
		Weighted	Weighted		
Type of service	N	%	SE		
Advice about child nutrition					
Yes	17	65.2	10.6		
No	17	34.8	10.6		
DK/NR	0				
Missing	0				
Total	34	100			
Information, education, and communication sessions					
Yes	16	68.1	8.4		
No	18	31.9	8.4		
DK/NR	0				
Missing	0				
Total	34	100			
Other					
Yes	8	22.1	11.7		
No	26	77.9	11.7		
DK/NR	0				
Missing	0				
Total	34	100			



Table E.10.4.1 Exposure to breastfeeding, child nutrition, and child health interventions

Percent distribution among women with children under 5					
		Weighted	Weighted		
Characteristic	N	%	SE		
Received guidance or advice about brea	stfeeding	in the last	12		
months					
Yes	240	33.2	2.8		
No	459	66.1	2.9		
DK/NR	1				
Missing	6				
Total	706	100			
Received guidance or advice about child	nutrition	in the last	12		
months					
Yes	237	32.6	2.7		
No	463	66.7	2.7		
DK/NR	0				
Missing	6				
Total	706	100			
Received guidance or advice about dang	ger signs fo	r children'	's health		
in the last 12 months					
Yes	240	33	2.8		
No	460	66.3	2.8		
DK/NR	0				
Missing	6				
Total	706	100			



Table E.10.4.2 Exposure to child health interventions, by source

Percentage of women with children under 5 who received guidance or advice about breastfeeding, child nutrition and danger signs for children's health in the last 12 months, and among them, the percentage of women with guidance or advice from specific sources

	Intervention type		
	Breast-	Child	Child
Characteristic	feeding	nutrition	health
Received guidance or advice about interventions for			
children's health in the last 12 months (%)	33.4	32.8	33.2
Number of women	707	707	707
Source of advice (%)			
Public hospital	25.1	23.2	22.4
Public health unit	50.1	48	51.2
Public health center/clinic	22.2	23.9	23
Public mobile clinic	0.5	0	0
Other public health center	0.3	0.7	0.7
Private hospital	0	0	0
Private health center/clinic	2	2	1.8
Private office	0.2	0.2	0.7
Private mobile clinic	0	0.5	0.5
Other private health center	0	0	0
Pharmacy	0	0	0
Community health worker	0.7	0.8	0.7
Traditional healer	0	0	0
Other	1.7	2.8	2.8
DK/NR, missing	0	0	0
Number of women	240	237	240

Table E.10.5 Satisfaction with community health workers

Percent distribution of women who met with a community health worker in the last month by level of satisfaction in different fields

	Level of satisfaction					
	Very dis-	Dis-		Very		
Field of satisfaction	satisfied	satisfied	Satisfied	satisfied	Total	
Number of visits received from community health workers	8.6	3.9	83	4.5		100
Knowledge and training of community health workers	10.1	2.5	84	3.3		100
Information provided by community health workers	13.3	3.3	76.2	7.2		100
Respectfulness shown by community health workers	12.3	2.5	80.6	4.6	:	100

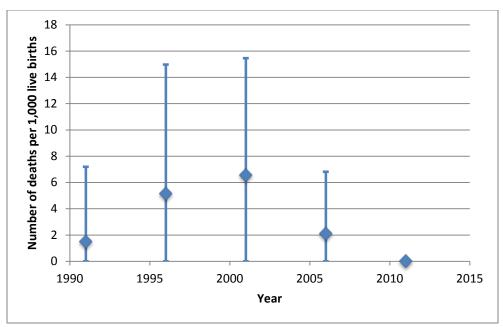


Figure E.11.1 Neonatal mortality estimated from complete birth history data obtained from the SM2015-Nicaragua Baseline Household Survey, 2013

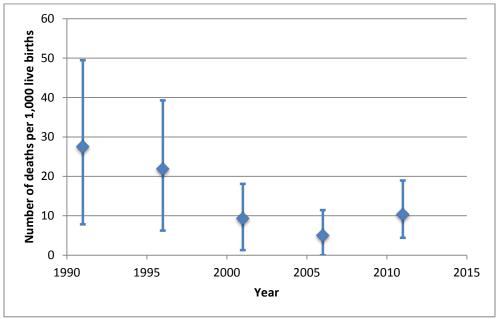


Figure E.11.2 Infant mortality estimated from complete birth history data obtained from the SM2015-Nicaragua Baseline Household Survey, 2013

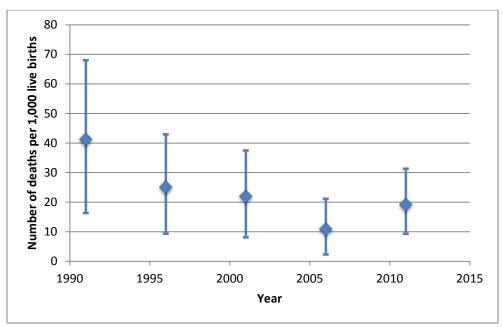


Figure E.11.3 Mortality in children under five years of age estimated from complete birth history data obtained from the SM2015-Nicaragua Baseline Household Survey, 2013

Table E.11.3a Mortality in children under 5 years of age in the target area of the initiative

Based on complete birth history data from the five years preceding				
the interview, among study areas, Mexico 2013				
Deaths per 1,000				
Child mortality indicator live births 95% CI				
Neonatal mortality	0.0	(0.0-0.0)		
Infant mortality	10.3	(4.4-19.0)		
Under-5 mortality	19.2	(9.3-31.3)		