Community-based distribution of DMPA

Baseline Survey Report

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1. Introduction

The UC Berkeley Bixby Center for Population, Health and Sustainability, in conjunction with Mekelle University, Women’s Association of Tigray (WAT), and the Tigray Health Bureau, is scaling up community-based distribution (CBD) of the injectable contraceptive depot medroxyprogesterone acetate (DMPA), commonly known as Depo. Incorporating private sector strategies, such as social marketing, the project will ideally be a sustainable model that uses community-based reproductive health agents (CBRHAs) to distribute DMPA. Over three years, the intervention will be scaled to include CBRHAs from the 5 zones that comprise the Tigray region. Ultimately, findings will provide much needed evidence and proof of concept of how to scale up a model for increasing access to injectable contraceptives.

The specific aims of the project are to:

1. In a three-year funding period, bring to scale an intervention that harmonizes CBD of DMPA and SM strategies to increase access of DMPA in Tigray, Ethiopia.
2. Develop a monitoring system for predicting demand and delivering DMPA to rural CBRHAs that builds upon the current system utilized by DKT Ethiopia.
3. Assess feasibility of scaling up this intervention to expand access to DMPA in rural communities in Ethiopia through quarterly analyses of monthly program data.
4. Conduct baseline and endline data collection to assess feasibility and scalability from both demand and supply perspectives, while also measuring impact of the intervention on contraceptive prevalence and related fertility indicators in one zone of Tigray, Ethiopia.
5. Perform cost-effectiveness analyses to demonstrate the benefits and cost savings of merging CBD of DMPA and social marketing strategies.
6. Use findings from Tigray, Ethiopia to make recommendations for adapting and scaling intervention throughout Ethiopia and other sub-Saharan African countries.

The baseline survey allows us to assess characteristics of the population in the intervention sites prior to implementation and to make comparisons to the endline survey, which will be conducted at the end of the three year implementation period. Having information on the sociodemographics and contraceptive use of the target population for the intervention enables us to better understand their needs. The report that follows provides an overview of the results from the baseline survey. The data presented include descriptive statistics characterizing the target population.

The implementation of the baseline survey was conducted by the UC Berkeley Bixby Center for Population, Health and Sustainability in collaboration with Mekelle University of Tigray. Human subjects approval was provided by the Center for Protection of Human Subjects (CPHS) at the University of California Berkeley (CPHS Protocol ID 2011/07/3465).
2. Survey Implementation

2.1 Sampling Design

The sampling design was intended to provide data that was representative of the Central Zone in Tigray, which is the most populous zone in the region (according to the 2007 census) and the first zone where we planned to implement the project. We used a multi-stage, cluster random sampling design, starting with the random selection of three woredas (districts) in the zone; the total final sample consisted of 1490 women.

Following selection of the woredas, we entered a complete list of the kebeles (villages) in each woreda (minus those involved in a previous Depo pilot project we conducted in 2008) and their respective populations from the most recent Ethiopian census (2007) into STATA. We used the STATA command for generating a simple random sample of kebeles. The number of kebeles selected from each woreda was proportional to the population of that woreda and was determined based on the assumption that 40.4% of the female population in rural areas are women of reproductive age, that there are 5.2 people per household in rural areas on average, and that there will be 2 women of reproductive age per household on average; these assumptions were based on data from 2005 Demographic and Health Survey (DHS).

As a result of these calculations, 7 kebeles were selected from Deguea Tembien, 7 from Kola Tembien, and 3 from Tanqua Abergele. Supervisors then went to the health post in each of the kebeles selected and requested a list of households. Based on the sample size calculations and the population of each kebele, 250 households in Deguea Tembien were selected, 296 in Kola Tembien, and 204 in Tanqua Abergele. The households were randomly selected by drawing numbers, each of which aligned with a specific household number on the list. A total of three visits were made to each selected household to complete the interview. If unsuccessful, the surveyors would randomly select another household from the list to replace it.

At the household level, we estimated that we would need to survey 500 women in Deguea Tembien, 591 in Kola Tembien, and 409 in Tanqua Abergele. All women of reproductive age (i.e. those between 15 and 49 years of age) were eligible to participate in the study. All eligible women present in the home were invited to participate.

2.2 Questionnaire

This survey drew heavily from the demographic, fertility, and family planning sections of the DHS questionnaire. Response options were adapted or added where appropriate, and additional questions on payment and willingness to pay were incorporated. The questionnaire was meant to collect information on the following topics:

- Background characteristics (age, education, residence, etc.)
- Reproduction
- Contraception knowledge and use
- DMPA knowledge and use
- Current and preferred source of family planning
• Marriage and sexual activity
• Fertility preferences and intentions

The questionnaire was developed in English and discussed among research partners in Ethiopia in English. The questionnaire was then translated into Tigrinya and back-translated into English; the back-translation is where most of the discussion and changes took place. Any changes or additions were made at this stage based on the feedback of our research partners. The questionnaire was pilot tested by interviewers; no issues requiring additional changes were encountered.

2.3 Training of Interviewers

The training for data collectors and supervisors was held October 5th thru 7th, 2011. Sixteen data collectors and three supervisors participated in the training, which familiarized them with the survey instrument, sampling and recruitment strategy, and informed consent/assent process. They were also trained on privacy, confidentiality, and interviewing etiquette, particularly for the many sensitive questions asked in the survey. Interviewers and supervisors then participated in the pilot testing of the questionnaire and met afterward for a debriefing on their experiences in the field.

2.4 Fieldwork

A total of sixteen interviewers and three supervisors were sent to the three woredas in teams of five to six interviewers and one supervisor. Each team was responsible for completing data collection in one of the kebeles selected. Data collection took a total of 15 days, at the end of which all completed surveys were brought to the Project Director.

2.5 Data Processing

All paper questionnaires were processed at UC Berkeley. Data from the 1490 surveys were entered into a database using Epi Info Version 3.5.3. All coding, labeling, and cleaning of the dataset took place at UC Berkeley. A native Tigrinya speaker in Berkeley assisted in the translation of additional response options. Data entry began in October, 2011 and ended in December, 2011.
3. Results

3.1 Sampling

In order to meet the sample size criteria, interviewers had to go to nearly twice as many households as estimated because the assumption that there would be on average two women of reproductive age per household was not accurate. As a result, interviewers went to 427 households in Deguea Tembien, 500 in Kola Tembien, and 408 in Tanqua Abergele.

As is the case in many low-resource, rural settings, the rates of refusal were very low. The response rate for this survey was 99%.

3.2 Characteristics of the Respondents

Table 2: Background characteristics among all women of reproductive age (N=1490)*

<table>
<thead>
<tr>
<th>Age</th>
<th>%</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-19</td>
<td>19.3</td>
<td>288</td>
</tr>
<tr>
<td>20-24</td>
<td>17.1</td>
<td>254</td>
</tr>
<tr>
<td>25-29</td>
<td>17.9</td>
<td>267</td>
</tr>
<tr>
<td>30-34</td>
<td>15.7</td>
<td>234</td>
</tr>
<tr>
<td>35-39</td>
<td>13.4</td>
<td>200</td>
</tr>
<tr>
<td>40-44</td>
<td>8.3</td>
<td>123</td>
</tr>
<tr>
<td>45-49</td>
<td>7.5</td>
<td>112</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Marital status</th>
<th>%</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Never married</td>
<td>13.6</td>
<td>202</td>
</tr>
<tr>
<td>Married/cohabiting</td>
<td>72.3</td>
<td>1077</td>
</tr>
<tr>
<td>Divorced/widowed</td>
<td>13.9</td>
<td>207</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Education</th>
<th>%</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>No education</td>
<td>53.6</td>
<td>798</td>
</tr>
<tr>
<td>1-4 years</td>
<td>13.2</td>
<td>196</td>
</tr>
<tr>
<td>5-9 years</td>
<td>22.4</td>
<td>334</td>
</tr>
<tr>
<td>Secondary or greater</td>
<td>10.6</td>
<td>158</td>
</tr>
</tbody>
</table>

*Percentages include missing

Table 1: Numbers of households and women sampled by woreda*

<table>
<thead>
<tr>
<th># of households</th>
<th># of women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deguea Tembien</td>
<td>427</td>
</tr>
<tr>
<td>Kola Tembien</td>
<td>500</td>
</tr>
<tr>
<td>Tanqua Abergele</td>
<td>408</td>
</tr>
</tbody>
</table>

*1493 women were surveyed but three surveys were unaccounted for; the sample in our dataset is 1490
### 3.3 Fertility

All women surveyed were asked to report information about their pregnancy history, including the total number of sons and daughters ever birthed, distinguishing between those who were still living and those who had died. As seen in Table 3, approximately 7% of respondents were currently pregnant at the time of the survey. The average number of living children among women in our sample population was between 3 and 4, but the average number of children ever born was 4. The number of women with no children, 1-2 children, 3-4 children, and 5 or more was fairly evenly distributed.

Regarding whether or not the last pregnancy was intended, 78% had wanted it then, 17% wanted it later, and 5% did not want it at all. Thus 22% of last pregnancies were mistimed or unwanted.

In Figure 1, we see that the number of children ever born increases with increasing age; women age 15-19 years have had on average less than 1 child whereas women age 45-49 have had on average nearly 7 children.

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### Table 3: Number of children ever born and living, intendedness of last pregnancy, and whether currently pregnant among women of reproductive age (N=1490)*

<table>
<thead>
<tr>
<th>Number of children ever born</th>
<th>%</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average</td>
<td>4.0</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>18.5</td>
<td>275</td>
</tr>
<tr>
<td>1-2</td>
<td>26.1</td>
<td>389</td>
</tr>
<tr>
<td>3-4</td>
<td>22.5</td>
<td>335</td>
</tr>
<tr>
<td>5+</td>
<td>31.0</td>
<td>462</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of living children</th>
<th>%</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average</td>
<td>3.6</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>20.7</td>
<td>309</td>
</tr>
<tr>
<td>1-2</td>
<td>28.7</td>
<td>428</td>
</tr>
<tr>
<td>3-4</td>
<td>24.4</td>
<td>362</td>
</tr>
<tr>
<td>5+</td>
<td>25.6</td>
<td>382</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Intendedness of last pregnancy</th>
<th>%</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wanted then</td>
<td>63.3</td>
<td>943</td>
</tr>
<tr>
<td>Wanted later</td>
<td>13.6</td>
<td>202</td>
</tr>
<tr>
<td>Did not want</td>
<td>4.2</td>
<td>62</td>
</tr>
<tr>
<td>Currently pregnant</td>
<td>7.2</td>
<td>108</td>
</tr>
</tbody>
</table>

( ) Percentage in parentheses indicates that estimate was based on less than 25 cases
*Percents include missing

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*Figure 1: Average number of children ever born by age category among women of reproductive age (N=1478)*

*There were 12 women with missing age data
### 3.4 Fertility Preferences

Fertility preferences can inform investigators about future demand for family planning. The majority of respondents (60%) did want a/another child, but the desire decreased steadily with the increasing number of living children (Table 4). Correspondingly, those who wanted no more children increased with increasing number of living children.

#### Table 4: Fertility preferences by number of living children among women of reproductive age (N=1445)*

<table>
<thead>
<tr>
<th>Number of living children</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6+</th>
<th>Total</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Have a/another child</td>
<td>27.1</td>
<td>20.0</td>
<td>17.6</td>
<td>13.5</td>
<td>8.2</td>
<td>7.3</td>
<td>6.3</td>
<td>100.0</td>
<td>879</td>
</tr>
<tr>
<td>No more</td>
<td>(1.1)</td>
<td>(2.4)</td>
<td>9.6</td>
<td>14.6</td>
<td>14.9</td>
<td>22.8</td>
<td>34.7</td>
<td>100.0</td>
<td>377</td>
</tr>
<tr>
<td>Undecided</td>
<td>33.8</td>
<td>(10.6)</td>
<td>(14.8)</td>
<td>(11.3)</td>
<td>(17.6)</td>
<td>(4.9)</td>
<td>(7.0)</td>
<td>100.0</td>
<td>142</td>
</tr>
<tr>
<td>Says can't get pregnant</td>
<td>(6.4)</td>
<td>(8.5)</td>
<td>(14.9)</td>
<td>(6.4)</td>
<td>(21.3)</td>
<td>(17.0)</td>
<td>(25.5)</td>
<td>100.0</td>
<td>47</td>
</tr>
</tbody>
</table>

*45 women did not respond to the question about desire for children and/or the question about number of living children

| (%) Percentage in parentheses indicates that estimate was based on less than 25 cases |

#### Table 5: Average desired number of children by background characteristics among women of reproductive age (N=1490)*

<table>
<thead>
<tr>
<th>Background characteristic</th>
<th>Average</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>4.1</td>
<td>1450</td>
</tr>
<tr>
<td>Age</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15-19</td>
<td>3.0</td>
<td>284</td>
</tr>
<tr>
<td>20-24</td>
<td>3.6</td>
<td>251</td>
</tr>
<tr>
<td>25-29</td>
<td>3.9</td>
<td>263</td>
</tr>
<tr>
<td>30-34</td>
<td>5.0</td>
<td>224</td>
</tr>
<tr>
<td>35-39</td>
<td>4.7</td>
<td>193</td>
</tr>
<tr>
<td>40-44</td>
<td>4.8</td>
<td>119</td>
</tr>
<tr>
<td>45-49</td>
<td>5.2</td>
<td>105</td>
</tr>
<tr>
<td>Marital status</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Never married</td>
<td>2.8</td>
<td>200</td>
</tr>
<tr>
<td>Married/cohabiting</td>
<td>4.4</td>
<td>1045</td>
</tr>
<tr>
<td>Divorced/widowed</td>
<td>3.9</td>
<td>201</td>
</tr>
<tr>
<td>Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No education</td>
<td>4.7</td>
<td>768</td>
</tr>
<tr>
<td>1-4 years</td>
<td>4.0</td>
<td>189</td>
</tr>
<tr>
<td>5-9 years</td>
<td>3.3</td>
<td>332</td>
</tr>
<tr>
<td>Secondary or greater</td>
<td>3.3</td>
<td>157</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Average</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>No response</td>
<td>N/A</td>
<td>40</td>
</tr>
</tbody>
</table>

*Some women did not answer all questions thus the N categories do not add up to 1490

Most women (34%) who were undecided about having a/another child had no children. Among women who wanted a/another child, most wanted to get pregnant within the next year (data not shown). And the vast majority of those wanting to have another child after marriage were those who had had no children.

When asked how many children they would like to have/would have liked to have, women said 4.1 on average (Table 5). Overall, women wanted slightly more boys than girls when asked specifically about gender preferences (data not shown).

Looking at fertility preferences by background characteristics, we see that young women generally wanted fewer children than older women, ranging from 3 children for women 15-19 years old to more than 5 children for women 45-49 years old. Married women wanted the most children (4.4) compared to unmarried (2.8) and divorced/widowed women (3.9). And increased education was negatively associated with the number of children desired; women with no education wanted the most children (4.7) and women with 5 years of education or greater wanted the least (3.3).
3.5 Family Planning

Information on knowledge and ever use of family planning methods was first asked of all women. They were then asked whether they were currently using a method, which method they were using, and where they had obtained it.

In Table 6, we see that nearly all women had heard of the pill (92%) and injectable contraceptives (96%). Knowledge of implants (70%) and condoms (57%) were also relatively high. Among reporting of ever use, injectable contraceptives were the method most commonly used (46%); the next most commonly used method was the pill at 19%.

As seen in Table 7, only 30% were currently using contraception. Among all women, just under 30% were using a modern method (sterilization, pill, IUD, injectable contraceptives, implants, or condoms), 21% were using injectable contraceptives specifically, and less than 1% were using a traditional method (withdrawal, rhythm, or lactational amenorrhea method).

Among contraceptive users, 69% were using injectable contraceptives (Figure 2); on average, injectable users had been using it for just over 2 years (data not shown). The second most common method of modern contraception was implants (20%).

Table 8 shows the current use of contraception by background characteristics; percents include missing and non-response. Women age 25-29 had the highest proportion of contraception use among all age categories, followed by ages 30-34 and 35-39; the same pattern was true of modern contraceptive use, specifically.

Marital status had the largest difference in proportion of contraception use among any background characteristic. Thirty seven percent of married women were using any method of contraception, compared to 2% of never married women and 21% of divorced or widowed women.
### Table 8: Percent of current contraceptive use by background characteristics among women of reproductive age (N=1490)*

<table>
<thead>
<tr>
<th>Background characteristic</th>
<th>Any method</th>
<th>Any modern method</th>
<th>Pill</th>
<th>Injectable</th>
<th>Implants</th>
<th>Other modern method</th>
<th>Other traditional method</th>
<th>Not currently using</th>
<th>Total</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Age</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15-19</td>
<td>9.7</td>
<td>9.4 (1.4)</td>
<td>(7.3)</td>
<td>(0.7)</td>
<td>(0.0)</td>
<td>(0.3)</td>
<td>(0.0)</td>
<td>85.8</td>
<td>100.0</td>
<td>288</td>
</tr>
<tr>
<td>20-24</td>
<td>29.9</td>
<td>29.9 (0.8)</td>
<td>(21.3)</td>
<td>(7.5)</td>
<td>(0.4)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>57.5</td>
<td>100.0</td>
<td>254</td>
</tr>
<tr>
<td>25-29</td>
<td>47.2</td>
<td>46.1 (3.7)</td>
<td>(34.1)</td>
<td>(7.9)</td>
<td>(0.4)</td>
<td>(1.1)</td>
<td>(0.0)</td>
<td>42.3</td>
<td>100.0</td>
<td>267</td>
</tr>
<tr>
<td>30-34</td>
<td>39.7</td>
<td>38.5 (3.4)</td>
<td>(26.1)</td>
<td>(8.5)</td>
<td>(0.4)</td>
<td>(0.9)</td>
<td>(0.4)</td>
<td>50.0</td>
<td>100.0</td>
<td>234</td>
</tr>
<tr>
<td>35-39</td>
<td>38.0</td>
<td>37.0 (2.0)</td>
<td>(24.0)</td>
<td>(11.0)</td>
<td>(0.5)</td>
<td>(1.0)</td>
<td>(0.0)</td>
<td>56.5</td>
<td>100.0</td>
<td>200</td>
</tr>
<tr>
<td>40-44</td>
<td>28.5</td>
<td>28.5 (4.9)</td>
<td>(17.1)</td>
<td>(5.7)</td>
<td>(0.8)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>71.5</td>
<td>100.0</td>
<td>123</td>
</tr>
<tr>
<td>45-49</td>
<td>(8.0)</td>
<td>(8.0) (0.0)</td>
<td>(6.3)</td>
<td>(1.8)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>(6.3)</td>
<td>100.0</td>
<td>112</td>
</tr>
<tr>
<td><strong>Marital status</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Never married</td>
<td>(2.0)</td>
<td>(2.0) (1.5)</td>
<td>(0.5)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>98.0</td>
<td>100.0</td>
<td>202</td>
</tr>
<tr>
<td>Married/cohabiting</td>
<td>37.2</td>
<td>36.4 2.6</td>
<td>(25.4)</td>
<td>7.9 (0.5)</td>
<td>(0.7)</td>
<td>(0.1)</td>
<td>(0.1)</td>
<td>53.2</td>
<td>100.0</td>
<td>1077</td>
</tr>
<tr>
<td>Divorced/widowed</td>
<td>20.8</td>
<td>20.8 (1.4)</td>
<td>(15.5)</td>
<td>(3.4)</td>
<td>(0.5)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>77.8</td>
<td>100.0</td>
<td>207</td>
</tr>
<tr>
<td><strong>Education</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No education</td>
<td>29.7</td>
<td>29.2 (1.4)</td>
<td>(21.2)</td>
<td>6.5 (0.1)</td>
<td>(0.4)</td>
<td>(0.4)</td>
<td>(0.1)</td>
<td>63.8</td>
<td>100.0</td>
<td>798</td>
</tr>
<tr>
<td>1-4 years</td>
<td>31.1</td>
<td>30.1 (3.1)</td>
<td>(21.4)</td>
<td>(5.1)</td>
<td>(0.5)</td>
<td>(1.0)</td>
<td>(0.0)</td>
<td>58.7</td>
<td>100.0</td>
<td>196</td>
</tr>
<tr>
<td>5-9 years</td>
<td>28.1</td>
<td>27.5 (1.5)</td>
<td>(17.7)</td>
<td>(7.2)</td>
<td>(1.2)</td>
<td>(0.6)</td>
<td>(0.0)</td>
<td>63.8</td>
<td>100.0</td>
<td>334</td>
</tr>
<tr>
<td>Secondary or greater</td>
<td>34.2</td>
<td>33.5 (6.3)</td>
<td>(23.4)</td>
<td>(3.8)</td>
<td>(0.0)</td>
<td>(0.6)</td>
<td>(0.0)</td>
<td>60.1</td>
<td>100.0</td>
<td>158</td>
</tr>
<tr>
<td><strong>Number of living children</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>(6.8)</td>
<td>(6.4) (1.9)</td>
<td>(4.2)</td>
<td>(0.3)</td>
<td>(0.0)</td>
<td>(0.3)</td>
<td>(0.0)</td>
<td>87.7</td>
<td>100.0</td>
<td>309</td>
</tr>
<tr>
<td>1-2</td>
<td>36.4</td>
<td>35.7 (1.4)</td>
<td>(27.8)</td>
<td>6.3 (0.2)</td>
<td>(0.5)</td>
<td>(0.2)</td>
<td>(0.5)</td>
<td>53.5</td>
<td>100.0</td>
<td>428</td>
</tr>
<tr>
<td>3-4</td>
<td>39.3</td>
<td>38.5 (2.2)</td>
<td>(27.6)</td>
<td>8.0 (0.8)</td>
<td>(0.8)</td>
<td>(0.8)</td>
<td>(0.0)</td>
<td>53.3</td>
<td>100.0</td>
<td>364</td>
</tr>
<tr>
<td>5+</td>
<td>33.2</td>
<td>32.7 (3.4)</td>
<td>(19.6)</td>
<td>9.2 (0.5)</td>
<td>(0.5)</td>
<td>(0.5)</td>
<td>(0.0)</td>
<td>62.3</td>
<td>100.0</td>
<td>382</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>30.1</td>
<td>29.5 2.3</td>
<td>(20.6)</td>
<td>6.2 (0.5)</td>
<td>(0.6)</td>
<td>(0.1)</td>
<td>(0.1)</td>
<td>62.7</td>
<td>100.0</td>
<td>1490</td>
</tr>
</tbody>
</table>

( ) Percentage in parentheses indicates that estimate was based on less than 25 cases

*Some women did not answer all questions thus the N categories do not all add to 1490
Percentage of contraceptive use and type of contraceptive use did not differ much by level of education. Between 28% and 34% of women was using contraception/modern contraception across all levels of education.

By parity, women who had between 1 and 4 children had the highest proportion of contraceptive use. Only 7% of nulliparous women were using contraception, then 36% of women with 1-2 children were using contraception, 39% of women with 3-4 children were using contraception, and 33% of women with 5 or more children were using contraception.

Table 9 illustrates the intention to use contraception by background characteristics. Overall, among women who are not currently using contraception, 67% thought they would use a contraceptive method to delay or avoid pregnancy at some time in the future.

Women age 20-24 and 25-29 were the most likely to intend to use contraception in the future (84% and 83%, respectively), followed by women aged 15-19 (77%). Divorced/widowed women were least likely to intend to use (32%). Women with secondary education or higher were the subgroup with the highest intention to use contraception (87%). However, slightly more than half of women with no education intended to use contraception even though they are the ones with the highest desired family size (average 5 children; Table 5).

In addition to the data shown in the tables, we also collected information regarding previous method prior to DMPA and current method if respondent had switched from DMPA. Among those who had ever used DMPA, 86% had switched from the pill. Among women who previously had used DMPA and switched, the majority (69%) had switched to implants (data not shown).

Regarding payment for contraception, we found that 93% of women had received their current method of contraception for free. Ninety-eight percent of women who had ever used DMPA had received their

<table>
<thead>
<tr>
<th>Intention to use (total)</th>
<th>%</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-19</td>
<td>77.6</td>
<td>250</td>
</tr>
<tr>
<td>20-24</td>
<td>83.9</td>
<td>174</td>
</tr>
<tr>
<td>25-29</td>
<td>83.5</td>
<td>139</td>
</tr>
<tr>
<td>30-34</td>
<td>70.2</td>
<td>134</td>
</tr>
<tr>
<td>35-39</td>
<td>62.5</td>
<td>120</td>
</tr>
<tr>
<td>40-44</td>
<td>(24.6)</td>
<td>69</td>
</tr>
<tr>
<td>45-49</td>
<td>(5.7)</td>
<td>70</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Marital status</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Never married</td>
<td>77.3</td>
</tr>
<tr>
<td>Married/cohabiting</td>
<td>72.4</td>
</tr>
<tr>
<td>Divorced/widowed</td>
<td>31.9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Education</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No education</td>
<td>58.3</td>
</tr>
<tr>
<td>1-4 years</td>
<td>71.3</td>
</tr>
<tr>
<td>5-9 years</td>
<td>76.9</td>
</tr>
<tr>
<td>Secondary or greater</td>
<td>85.9</td>
</tr>
</tbody>
</table>

( ) Percentage in parentheses indicates that estimate was based on less than 25 cases
*There are 79 people for which we do not have information on intention to use contraception
*Some women did not answer all questions thus the N categories do not all add to 963

Table 9: Intention to use contraception at any time in the future by background characteristics among women not currently using contraception (N=963)*
last injection for free. Despite this, 66% of respondents were willing to pay for the family planning method of their choice. Among women who are interested in using DMPA specifically, 68% were willing to pay (this includes ever users of DMPA and non-users of DMPA who are interested in using the method).

Of those women willing to pay, 63% were able to state a specific amount that they were willing to pay. Based on these responses, Figure 3 shows that only 10% of women interested in DMPA are willing to pay 35 birr or greater for an injection. More than half of women (52%) are willing to pay 5 birr, which is the current cost of one injection in project areas.

In Table 10, we see women’s reasons for using contraception by background characteristics among women who are currently using a contraceptive method. In total, 79% of women currently using contraception were using it for spacing, 14% because they had completed their family size, 6% for economic reasons, less than 1% each for medical reasons, because it was the provider’s choice, or for other reasons.

For age categories up to 40 years old, the most common reason for current use of contraceptive method was spacing. For women age 40-44 and 45-49, the most common reasons were both spacing and completed family size, which were each around 45%.

By marital status, the few unmarried women currently using contraception were using it most commonly for spacing (75%). Married/cohabiting women and divorced/widowed women similarly were
using contraception for spacing (80% and 67%, respectively). Across all categories of education, the most common reason for using contraception was also spacing.

Table 10: Reasons for using contraceptive method by background characteristics among women of reproductive age who are currently using contraception (N=448)*

<table>
<thead>
<tr>
<th>Age</th>
<th>Spacing</th>
<th>Completed family size</th>
<th>Economic reasons</th>
<th>Medical reasons</th>
<th>Provider's decision</th>
<th>Other</th>
<th>Total</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-19</td>
<td>89.3</td>
<td>(3.6)</td>
<td>(3.6)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>(3.6)</td>
<td>100.0</td>
<td>28</td>
</tr>
<tr>
<td>20-24</td>
<td>89.3</td>
<td>(1.3)</td>
<td>(8.0)</td>
<td>(1.3)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>100.0</td>
<td>75</td>
</tr>
<tr>
<td>25-29</td>
<td>88.0</td>
<td>(3.2)</td>
<td>(7.2)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>(1.6)</td>
<td>100.0</td>
<td>125</td>
</tr>
<tr>
<td>30-34</td>
<td>80.7</td>
<td>(10.8)</td>
<td>(6.5)</td>
<td>(1.1)</td>
<td>(0.0)</td>
<td>(1.1)</td>
<td>100.0</td>
<td>93</td>
</tr>
<tr>
<td>35-39</td>
<td>67.6</td>
<td>(28.4)</td>
<td>(4.1)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>100.0</td>
<td>74</td>
</tr>
<tr>
<td>40-44</td>
<td>(45.7)</td>
<td>(48.6)</td>
<td>(2.9)</td>
<td>(2.9)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>100.0</td>
<td>35</td>
</tr>
<tr>
<td>45-49</td>
<td>(44.4)</td>
<td>(44.4)</td>
<td>(0.0)</td>
<td>(11.1)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>100.0</td>
<td>9</td>
</tr>
<tr>
<td>Marital status</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Never married</td>
<td>(75.0)</td>
<td>(0.0)</td>
<td>(25.0)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>100.0</td>
<td>4</td>
</tr>
<tr>
<td>Married/cohabiting</td>
<td>79.7</td>
<td>13.0</td>
<td>(5.5)</td>
<td>(0.8)</td>
<td>(0.3)</td>
<td>(0.8)</td>
<td>100.0</td>
<td>399</td>
</tr>
<tr>
<td>Divorced/widowed</td>
<td>66.7</td>
<td>(19.1)</td>
<td>(7.1)</td>
<td>(2.4)</td>
<td>(0.0)</td>
<td>(4.8)</td>
<td>100.0</td>
<td>41</td>
</tr>
<tr>
<td>Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No education</td>
<td>76.9</td>
<td>18.0</td>
<td>(3.9)</td>
<td>(1.3)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>100.0</td>
<td>234</td>
</tr>
<tr>
<td>1-4 years</td>
<td>72.1</td>
<td>(18.0)</td>
<td>(8.2)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>(1.6)</td>
<td>100.0</td>
<td>61</td>
</tr>
<tr>
<td>5-9 years</td>
<td>84.0</td>
<td>(5.3)</td>
<td>(6.4)</td>
<td>(1.1)</td>
<td>(1.1)</td>
<td>(2.1)</td>
<td>100.0</td>
<td>94</td>
</tr>
<tr>
<td>Secondary or greater</td>
<td>83.3</td>
<td>(3.7)</td>
<td>(11.1)</td>
<td>(0.0)</td>
<td>(0.0)</td>
<td>(1.9)</td>
<td>100.0</td>
<td>54</td>
</tr>
<tr>
<td>Total</td>
<td>78.6</td>
<td>13.5</td>
<td>5.9</td>
<td>(0.9)</td>
<td>(0.2)</td>
<td>(0.9)</td>
<td>100.0</td>
<td>448</td>
</tr>
</tbody>
</table>

(*) Percentage in parentheses indicates that estimate was based on less than 25 cases
3.6 Unmet Need

As defined by the DHS, women with an unmet need for contraception are those who are married, fecund, don’t want a/another child or don’t want one for at least 2 years but are not using contraception. Women whose current or last pregnancy was mistimed or unwanted are also categorized as having an unmet need for contraception.

As seen in Table 11, 16% of women surveyed had an unmet need for contraception. By comparison, the unmet need for the entire region, according to the 2011 DHS, is 22%. This difference is understandable given the proximity of the Central Zone to Mekelle, the biggest city in the region.

By age category we see that age is positively correlated with unmet need, with more than 50% of those in the highest age category having an unmet need. Among education categories, we again see a positive correlation: women with no education had the highest unmet need at 22% and those with secondary education or greater had the lower unmet need at 2%. Women with 5 or more children had by far the greatest level of unmet need (35%).

Among women who were currently pregnant, 5% had an unmet need for contraception, whereas 89% of those who want to get pregnant in 2 years or more had an unmet need. Fifty-one percent of women who want no/no more children had an unmet need. And 18% of women whose last pregnancy was unwanted or mistimed had an unmet need for contraception.

Based on the unmet need (16%) and the contraceptive prevalence (30%), we see that in total, 46% of women surveyed have a potential demand for family planning.

Table 11: Percent of married women with an unmet need for contraception by background characteristics (N=1077)*

<table>
<thead>
<tr>
<th></th>
<th>%</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>16.4</td>
<td>1077</td>
</tr>
<tr>
<td><strong>Age</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15-19</td>
<td>6.5</td>
<td>108</td>
</tr>
<tr>
<td>20-24</td>
<td>5.4</td>
<td>204</td>
</tr>
<tr>
<td>25-29</td>
<td>6.4</td>
<td>233</td>
</tr>
<tr>
<td>30-34</td>
<td>13.0</td>
<td>200</td>
</tr>
<tr>
<td>35-39</td>
<td>27.8</td>
<td>151</td>
</tr>
<tr>
<td>40-44</td>
<td>37.2</td>
<td>86</td>
</tr>
<tr>
<td>45-49</td>
<td>51.2</td>
<td>84</td>
</tr>
<tr>
<td><strong>Education</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No education</td>
<td>22.2</td>
<td>648</td>
</tr>
<tr>
<td>1-4 years</td>
<td>11.1</td>
<td>153</td>
</tr>
<tr>
<td>5-9 years</td>
<td>7.4</td>
<td>189</td>
</tr>
<tr>
<td>Secondary or greater</td>
<td>2.4</td>
<td>84</td>
</tr>
<tr>
<td><strong>Number of living children</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average</td>
<td>4.0</td>
<td>99</td>
</tr>
<tr>
<td>0</td>
<td>4.8</td>
<td>331</td>
</tr>
<tr>
<td>1-2</td>
<td>8.2</td>
<td>292</td>
</tr>
<tr>
<td>3-4</td>
<td>35.1</td>
<td>350</td>
</tr>
<tr>
<td>5+</td>
<td>5.2</td>
<td>174</td>
</tr>
<tr>
<td>Pregnant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Want to get pregnant in 2 years or more</td>
<td>88.9</td>
<td>9</td>
</tr>
<tr>
<td>Wants no/no more children</td>
<td>50.9</td>
<td>322</td>
</tr>
<tr>
<td>Last pregnancy unwanted or mistimed</td>
<td>17.6</td>
<td>221</td>
</tr>
</tbody>
</table>

*Percentages include missing
3.7 Family Planning Preferences

Family planning preferences help us to understand and meet demands related to specific types of contraception. In order to ascertain this information, we asked respondents, current users, and non-users of contraception specific questions about their preferred method, the reason they prefer this method, and why they are not using their preferred method, if applicable.

In Table 12, we present information about women’s preferred method of contraception. Over half of women surveyed prefer injectable contraceptives (55%). The next most commonly preferred method was implants (10%).

In Table 13, we see that 39% of women who prefer a modern method are using one, and that very few women prefer traditional methods of contraception. Overall, it is clear that the majority of women who preferred any type of method are not currently using it. It is also notable that there is a large proportion of “other” responses, which were largely due to misunderstandings; there is no word for “preference” in the Tigrinya language, thus many women had trouble answering the question about preferred method the way we intended.

Among modern methods (with the exception of the few women who preferred sterilization), we see in Table 14 that injectable contraceptives have the greatest proportion of women who prefer the method who are not currently using it; 66% of women who prefer injectable contraceptives are not currently using it. By comparison, 60% of women who prefer pills and 47% of women who prefer implants are not currently using it.
Table 14: Preferred method of contraception by whether currently using or not among women of reproductive age (N=1075)*

<table>
<thead>
<tr>
<th>Preferred method</th>
<th>Currently using</th>
<th>Not currently using</th>
<th>Total</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injectables</td>
<td>34.2</td>
<td>65.7</td>
<td>100.0</td>
<td>824</td>
</tr>
<tr>
<td>Pill</td>
<td>40.2</td>
<td>59.7</td>
<td>100.0</td>
<td>67</td>
</tr>
<tr>
<td>Implants</td>
<td>52.7</td>
<td>47.3</td>
<td>100.0</td>
<td>150</td>
</tr>
<tr>
<td>Other modern</td>
<td>(33.3)</td>
<td>(66.7)</td>
<td>100.0</td>
<td>12</td>
</tr>
<tr>
<td>Traditional method</td>
<td>(22.7)</td>
<td>(77.3)</td>
<td>100.0</td>
<td>22</td>
</tr>
</tbody>
</table>

( ) Percentage in parentheses indicates that estimate was based on less than 25 cases

*Among women who responded to both questions and whose preferred method was not categorized as 'other'

Among the reasons cited by women as to why they prefer injectable contraceptives (Table 15), the most common response was “more convenient” (37%). Previous use was the second most common response (22%).

Table 15: Reason why injectable is preferred method among women of reproductive age who prefer injectables (N=829)*

<table>
<thead>
<tr>
<th>Reasons</th>
<th>%</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>More convenient</td>
<td>37.0</td>
<td>300</td>
</tr>
<tr>
<td>Fewer side effects</td>
<td>10.4</td>
<td>84</td>
</tr>
<tr>
<td>Tried before</td>
<td>21.6</td>
<td>175</td>
</tr>
<tr>
<td>The only method I know</td>
<td>(2.6)</td>
<td>21</td>
</tr>
<tr>
<td>Partner allows it</td>
<td>(0.3)</td>
<td>2</td>
</tr>
<tr>
<td>Privacy</td>
<td>(1.9)</td>
<td>15</td>
</tr>
<tr>
<td>Long-acting preferred</td>
<td>16.9</td>
<td>137</td>
</tr>
<tr>
<td>Short-acting preferred</td>
<td>13.7</td>
<td>111</td>
</tr>
<tr>
<td>Other</td>
<td>17.1</td>
<td>138</td>
</tr>
</tbody>
</table>

( ) Percentage in parentheses indicates that estimate was based on less than 25 cases

*Responses are not mutually exclusive
3.8 Family Planning Services

Data we collected related to family planning services can inform us as to where women are currently receiving family planning and where they would prefer to receive family planning. We also collected data that offer insight into the quality of the family planning services currently being provided.

As seen in Table 16, less than half of women who are currently using contraception have been told about side effects (47%), and even fewer (44%) were told what to do if they experienced side effects. In addition, only 65% of women using contraception at the time of the survey had been told by their provider about other methods.

Table 17 illustrates women’s interactions with the healthcare system by background characteristics. Across all age groups, marital status, and levels of education, very high proportions of women surveyed knew of at least one source of family planning.

Table 16: Quality of family planning services provided among women of reproductive age who are currently using contraception (N=448)*

<table>
<thead>
<tr>
<th>Service Provided</th>
<th>%</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Told about side effects</td>
<td>46.8</td>
<td>210</td>
</tr>
<tr>
<td>Told what to do if experience side effects</td>
<td>43.5</td>
<td>195</td>
</tr>
<tr>
<td>Told about other methods</td>
<td>65.4</td>
<td>293</td>
</tr>
</tbody>
</table>

*Some women who were using contraception did not answer one of these questions; total percentages include missing responses.

Table 17: Interaction with healthcare system by background characteristics among women of reproductive age (N=1490)*

<table>
<thead>
<tr>
<th></th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knows source of family planning</td>
<td>Visited by field worker and received FP info in last 12 months</td>
</tr>
<tr>
<td>Age</td>
<td></td>
</tr>
<tr>
<td>15-19</td>
<td>88.2</td>
</tr>
<tr>
<td>20-24</td>
<td>94.5</td>
</tr>
<tr>
<td>25-29</td>
<td>95.1</td>
</tr>
<tr>
<td>30-34</td>
<td>96.2</td>
</tr>
<tr>
<td>35-39</td>
<td>95.0</td>
</tr>
<tr>
<td>40-44</td>
<td>93.5</td>
</tr>
<tr>
<td>45-49</td>
<td>94.6</td>
</tr>
<tr>
<td>Marital status</td>
<td></td>
</tr>
<tr>
<td>Never married</td>
<td>86.6</td>
</tr>
<tr>
<td>Married/cohabiting</td>
<td>94.5</td>
</tr>
<tr>
<td>Divorced/widowed</td>
<td>93.7</td>
</tr>
<tr>
<td>Education</td>
<td></td>
</tr>
<tr>
<td>No education</td>
<td>93.4</td>
</tr>
<tr>
<td>1-4 years</td>
<td>91.8</td>
</tr>
<tr>
<td>5-9 years</td>
<td>92.5</td>
</tr>
<tr>
<td>Second year or greater</td>
<td>96.8</td>
</tr>
<tr>
<td>Total</td>
<td>93.4</td>
</tr>
</tbody>
</table>

*Some women did not answer all questions thus the N categories do not all add to 1490.
Looking at women who received family planning information from a visiting health worker in the last 12 months, we see differences in percentages across age categories. Women age 15-19 were least likely to have received family planning information (46%) and women age 35-39 were most likely (69%). By marital status, married women had the highest proportions (64%) and never married women had the lowest (44%). And by level of education, women with no education were most likely to have received information about family planning from a visiting field worker in the last 12 months (64%).

In the last 12 month, 72% of women surveyed had visited a health facility for any reason. Looking at the data by age categories, 25-29 year olds were most likely to have visited a facility (81%) whereas young women ages 15-19 were least likely (48%). Married women were most likely to have visited a facility (79%) and women with no education or secondary or greater levels of education had similarly high proportions of women who had visited a health facility in the last 12 months (75%).

Among those women who had visited a facility for any reason in the last 12 months, 60% had received information about family planning at that time. Women ages 35-39 (73%), married women (66%), and women with no education (63%) were most likely to receive information about family planning at the time of their visit.

Regarding source of contraception (Table 18), most women who have used injectable contraceptives have received the injection from a government health center (60%). A similar proportion of women who are interested in injectable contraceptives but have never used it would prefer to receive it there as well. And among all women surveyed, the majority of women would prefer to receive their chosen method at a government health center (49%), followed by a government health post (36%).

### Table 18: Current and preferred source of Depo among women of reproductive age*

<table>
<thead>
<tr>
<th>Last source of Depo injection among women who have ever used Depo (N=662)</th>
<th>%</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government hospital</td>
<td>(1.1)</td>
<td>7</td>
</tr>
<tr>
<td>Government health center</td>
<td>59.8</td>
<td>390</td>
</tr>
<tr>
<td>Government health post</td>
<td>37.8</td>
<td>247</td>
</tr>
<tr>
<td>CBRHA</td>
<td>(0.8)</td>
<td>5</td>
</tr>
<tr>
<td>Other</td>
<td>(0.6)</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Preferred source of Depo among women who have ever used Depo (N=662)</th>
<th>%</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government hospital</td>
<td>(1.8)</td>
<td>12</td>
</tr>
<tr>
<td>Government health center</td>
<td>51.4</td>
<td>340</td>
</tr>
<tr>
<td>Government health post</td>
<td>39.9</td>
<td>264</td>
</tr>
<tr>
<td>CBRHA</td>
<td>(2.7)</td>
<td>18</td>
</tr>
<tr>
<td>Other</td>
<td>9.7</td>
<td>64</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Preferred source of Depo among women who are interested in Depo but have never used it (N=466)</th>
<th>%</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government hospital</td>
<td>(3.7)</td>
<td>17</td>
</tr>
<tr>
<td>Government health center</td>
<td>60.9</td>
<td>284</td>
</tr>
<tr>
<td>Government health post</td>
<td>42.3</td>
<td>197</td>
</tr>
<tr>
<td>CBRHA</td>
<td>5.4</td>
<td>25</td>
</tr>
<tr>
<td>Other</td>
<td>(2.6)</td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Preferred source of contraception among all women (N=1490)</th>
<th>%</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government hospital</td>
<td>3.4</td>
<td>50</td>
</tr>
<tr>
<td>Government health center</td>
<td>48.9</td>
<td>729</td>
</tr>
<tr>
<td>Government health post</td>
<td>36.3</td>
<td>541</td>
</tr>
<tr>
<td>CBRHA</td>
<td>8.3</td>
<td>124</td>
</tr>
<tr>
<td>Other</td>
<td>10.2</td>
<td>152</td>
</tr>
</tbody>
</table>

( ) Percentage in parentheses indicates that estimate was based on less than 25 cases

*Responses not mutually exclusive
4. In Summary

The baseline survey produced important demographic, fertility, and contraceptive data about the target population. Descriptive statistics revealed that 30% of women of reproductive age in the Central Zone are currently using any method of contraception. The most commonly used method is injectable contraceptives, which is used by 21% of women of reproductive age. Injectable contraceptives are also the most commonly preferred method (55%) and are the method with the greatest number of women who prefer it but are not currently using it. In addition, approximately 16% of women in the Central Zone have an unmet need for contraception. Combined with the contraceptive prevalence, 46% of women in the Zone have a potential demand for contraception currently. These findings highlight the demand for contraceptive services in the region and the need for improved access to injectable contraceptives in particular.
5. Appendix
### 5.1 English Questionnaire

#### Ethiopia Community FP Survey

**Questionnaire 2011**

<table>
<thead>
<tr>
<th>Question</th>
<th>Response</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Questionnaire ID #</td>
<td>/<strong>/</strong>/<strong>/</strong>/</td>
</tr>
<tr>
<td>B</td>
<td>Woreda</td>
<td>/__/!/</td>
</tr>
<tr>
<td>C</td>
<td>Kebele</td>
<td>/__/!/</td>
</tr>
</tbody>
</table>

**Researcher visit**

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td><em><strong>/</strong></em>/____</td>
<td><em><strong>/</strong></em>/____</td>
<td><em><strong>/</strong></em>/____</td>
</tr>
<tr>
<td>Researcher code</td>
<td>[___</td>
<td>___]</td>
<td>[___</td>
</tr>
<tr>
<td>Result</td>
<td>[___]</td>
<td>[___]</td>
<td>[___]</td>
</tr>
</tbody>
</table>

**Result codes:**

1=Completed  
2=Refused  
3=Postpone  
4=Incomplete  
5=Non residential  
6=Non existent  
7=Other  

**RECORD THE TIME: START OF INTERVIEW**

<table>
<thead>
<tr>
<th>HOUR</th>
<th>MINUTES</th>
</tr>
</thead>
</table>

**RECORD THE TIME: END OF INTERVIEW**

<table>
<thead>
<tr>
<th>HOUR</th>
<th>MINUTES</th>
</tr>
</thead>
</table>
## SECTION 1: DEMOGRAPHIC INFORMATION

<table>
<thead>
<tr>
<th>Number</th>
<th>Question</th>
<th>Coding Categories</th>
<th>Skip</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>How long have you been living continuously in (NAME OF CURRENT PLACE OF RESIDENCE)?</td>
<td>YEARS</td>
<td>MONTHS</td>
</tr>
<tr>
<td>102</td>
<td>Just before you moved here, did you live a town or countryside?</td>
<td>Urban</td>
<td>Rural</td>
</tr>
<tr>
<td>103</td>
<td>How long does it take you to get to the nearest health facility?</td>
<td>HOUR</td>
<td>MINUTES</td>
</tr>
<tr>
<td>104</td>
<td>How would you travel to the nearest health facility?</td>
<td>WALKING</td>
<td>BICYCLE</td>
</tr>
<tr>
<td>105</td>
<td>How old were you at your last birthday?</td>
<td>YEARS</td>
<td>DON'T KNOW</td>
</tr>
<tr>
<td>106</td>
<td>Are you currently attending school?</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>107</td>
<td>Have you ever attended school?</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>108</td>
<td>What is the highest grade you have completed?</td>
<td>GRADE</td>
<td>TECHNICAL/VOCATIONAL CERT</td>
</tr>
<tr>
<td>109</td>
<td>Can you read?</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>110</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>111</td>
<td>What is your occupation, that is, what kind of work do you mainly do?</td>
<td>GOVT WORKER</td>
<td>STUDENT</td>
</tr>
<tr>
<td>112</td>
<td>Were you paid in cash or kind for this work or are you not paid at all?</td>
<td>CASH ONLY</td>
<td>CASH AND KIND</td>
</tr>
</tbody>
</table>
### SECTION 2. REPRODUCTION

<table>
<thead>
<tr>
<th>Number</th>
<th>Question</th>
<th>Coding Categories</th>
<th>Skip</th>
</tr>
</thead>
</table>
| 201    | Now I would like to ask about all the live births and pregnancies you have had during your life. Have you ever been pregnant? | YES………………………………..……1  
NO…………………………………..……..2 | →301 |
| 202    | Have you ever given birth?                                               | YES………………………………..……1  
NO…………………………………..……..2 | →212 |
| 203    | How old were you at the birth of your first child?                       | YEARS ........         
DON'T KNOW…………………………...88 |      |
| 204    | Do you have any sons or daughters to whom you have given birth who are still alive? | YES………………………………..……1  
NO…………………………………..……..2 | →206 |
| 205    | How many sons are alive?       
And how many daughters are alive?                                 | SONS                                      
DAUGHTERS                                  |      |
| 206    | Sometimes it happens that children die. It may be painful to talk about and I am sorry to ask you about painful memories, but it is important to get correct information. Have you ever given birth to a son or daughter who was born alive but later died? | YES………………………………..……1  
NO…………………………………..……..2 | →208 |
| 207    | How many boys have died?       
How many girls have died?                                       | BOYS DIED                                 
GIRLS DIED                                  |      |
| 208    | SUM TOTALS FROM 205 AND 207 AND RECORD. IF NONE, RECORD '00'.          | TOTAL..........                             |      |
| 209    | CHECK 208: Just to make sure that I have this right: you have had in TOTAL _____ births during your life. Is that correct? | YES………………………………..……1  
NO…………………………………..……..2 | PROBE AND CORRECT 205-207 AS NECESSARY |
| 210    | What is the age of your youngest child?                                 | YEARS........      
MONTHS (If less than 1 year).....          |      |
| 211    |                                                                                   |      |
| 212    | Are you pregnant now?                                                      | YES………………………………..……1  
NO…………………………………..……..2 | →214 |
| 213    | How many months pregnant are you? RECORD NUMBER OF COMPLETED MONTHS.    | MONTHS..........      
LESS THAN 1 MONTH RECORD "00"             |
DON'T KNOW…………………………...88 | →214 |
| 214    | At the time your last pregnancy, did you want to become pregnant then, did you want to wait until later, or did you not want to have any (more) children at all? | THEN………………………………..……1  
LATER………………………………..……2  
NOT AT ALL…………………………...3 | →216 |
<table>
<thead>
<tr>
<th>Question</th>
<th>Response Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>How long did you want to wait to become pregnant?</td>
<td>YEARS, MONTHS</td>
</tr>
<tr>
<td>Have you ever had a pregnancy that was not carried to term?</td>
<td>YES, NO</td>
</tr>
<tr>
<td>How many pregnancies have not been carried to term?</td>
<td>NUMBER</td>
</tr>
<tr>
<td>Did you or someone induce an abortion?</td>
<td>INDUCED, DID NOT INDUCE</td>
</tr>
<tr>
<td>How many abortions did you induce?</td>
<td>NUMBER</td>
</tr>
<tr>
<td>When was the last abortion induced?</td>
<td>YEAR</td>
</tr>
<tr>
<td>How many months pregnant were you when the pregnancy ended?</td>
<td>MONTHS, LESS THAN 1 MO, DON'T KNOW</td>
</tr>
<tr>
<td>Have you ever received any counseling related to family planning or contraception from a health worker after you gave birth, during a pregnancy or after pregnancy ended?</td>
<td>YES, NO</td>
</tr>
</tbody>
</table>
SECTION 3. CONTRACEPTION

<table>
<thead>
<tr>
<th>Code</th>
<th>Method Description</th>
<th>Yes</th>
<th>No</th>
<th>Have you ever had an operation to avoid having any more children?</th>
<th>Yes</th>
<th>No</th>
<th>Have you ever had a partner who had an operation to avoid having any more children?</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>FEMALE STERILIZATION Women can have an operation to avoid having any more children.</td>
<td>1</td>
<td>2</td>
<td>Yes</td>
<td>1</td>
<td>2</td>
<td>No</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>02</td>
<td>MALE STERILIZATION Men can have an operation to avoid having any more children.</td>
<td>1</td>
<td>2</td>
<td>Yes</td>
<td>1</td>
<td>2</td>
<td>No</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>03</td>
<td>PILL Women can take a pill every day to avoid becoming pregnant.</td>
<td>1</td>
<td>2</td>
<td>Yes</td>
<td>1</td>
<td>2</td>
<td>No</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>04</td>
<td>IUD Women can have a loop or coil placed inside them by a doctor or a nurse.</td>
<td>1</td>
<td>2</td>
<td>Yes</td>
<td>1</td>
<td>2</td>
<td>No</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>05</td>
<td>INJECTABLE CONTRACEPTIVES Women can have an injection by a health provider that stops them from becoming pregnant for one or more months.</td>
<td>1</td>
<td>2</td>
<td>Yes</td>
<td>1</td>
<td>2</td>
<td>No</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>06</td>
<td>IMPLANTS Women can have several small rods placed in their upper arm by a doctor or nurse which can prevent pregnancy for one or more years.</td>
<td>1</td>
<td>2</td>
<td>Yes</td>
<td>1</td>
<td>2</td>
<td>No</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>07</td>
<td>CONDOM Men can put a rubber sheath on their penis before sexual intercourse.</td>
<td>1</td>
<td>2</td>
<td>Yes</td>
<td>1</td>
<td>2</td>
<td>No</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>08</td>
<td>FEMALE CONDOM Women can place a sheath in their vagina before sexual intercourse.</td>
<td>1</td>
<td>2</td>
<td>Yes</td>
<td>1</td>
<td>2</td>
<td>No</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>09</td>
<td>LACTATIONAL AMENORRHEA METHOD (LAM)</td>
<td>1</td>
<td>2</td>
<td>Yes</td>
<td>1</td>
<td>2</td>
<td>No</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>RHYTHM METHOD Every month that a woman is sexually active she can avoid pregnancy by not having sexual intercourse on the days of the month she is most likely to get pregnant.</td>
<td>1</td>
<td>2</td>
<td>Yes</td>
<td>1</td>
<td>2</td>
<td>No</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>WITHDRAWAL Men can be careful and pull out before climax.</td>
<td>1</td>
<td>2</td>
<td>Yes</td>
<td>1</td>
<td>2</td>
<td>No</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>EMERGENCY CONTRACEPTION As an emergency measure after unprotected sexual intercourse, women can take special pills at any time within five days to prevent pregnancy.</td>
<td>1</td>
<td>2</td>
<td>Yes</td>
<td>1</td>
<td>2</td>
<td>No</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>NUMBER</td>
<td>QUESTION</td>
<td>CODING CATEGORIES</td>
<td>SKIP</td>
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<td></td>
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<tr>
<td>303</td>
<td>CHECK 302 (01):</td>
<td>WOMAN NOT STERILIZED</td>
<td>→304</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>WOMAN STERILIZED</td>
<td>→313</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>304</td>
<td>Do you know of a place where you can obtain a method of family planning?</td>
<td>YES…………………………………1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>NO…………………………………..2</td>
<td>→306</td>
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<td></td>
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<tr>
<td>305</td>
<td>Where is that?</td>
<td>GOVT. HOSPITAL...........................................1</td>
<td></td>
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<td></td>
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<td>GOVT HEALTH CENTER.......................................2</td>
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<td></td>
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<td>GOVT HEALTH POST.........................................3</td>
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<tr>
<td></td>
<td></td>
<td>CBHRA/CBD....................................................4</td>
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<td></td>
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<td>NGO FACILITY................................................5</td>
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<td></td>
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<td>PRIVATE HOSPITAL/CLINIC...................................6</td>
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<tr>
<td></td>
<td></td>
<td>PHARMACY/CHEMIST...........................................7</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>SHOP...........................................................8</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FRIEND/RELATIVE.............................................9</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OTHER: ___________________________10 (SPECIFY)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>306</td>
<td>In the last 12 months, were you visited by a fieldworker who</td>
<td>YES…………………………………1</td>
<td></td>
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<td>In the last 12 months, did you visit a health facility for any</td>
<td>YES…………………………………1</td>
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<td>308</td>
<td>Did you receive information about family planning when you</td>
<td>YES…………………………………1</td>
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<td>Would you like to receive information about family planning from a</td>
<td>YES…………………………………1</td>
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<td>From where would you prefer to get family planning information?</td>
<td>GOVT HOSPITAL...........................................1</td>
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<td>311 CHECK 212:</td>
<td>NOT PREGNANT OR UNSURE PREGNANT →312</td>
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<td>312 Are you currently doing something or using any method to delay or avoid getting pregnant?</td>
<td>YES………………………….……………1  NO………………………….……………..2  →401</td>
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<td>313 NOT PREGNANT WOMAN: Which method are you currently using?</td>
<td>FEMALE STERILIZATION……………….1  PILL………………………………2  IUD……………………………….3  INJECTABLE CONTRACEPTIVES………………………….4  IMPLANTS………………………………5  CONDOM……………………………….6  FEMALE CONDOM………………………………….7  MALE STERILIZATION……………….8  LACTATIONAL AMENORREA………….9  RHYTHM METHOD……………………….10  WITHDRAWAL………………………….11  OTHER…………………………………….12  (SPECIFY) →401</td>
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<td>314 Where did you obtain (CURRENT/LAST METHOD) when you started using it?</td>
<td>GOVT. HOSPITAL…………………..1  GOVT HEALTH CENTER…………………..2  GOVT HEALTH POST………………….3  CBHRA/CBD…………………..4  NGO FACILITY…………………..5  PRIVATE HOSPITAL/CLINIC………6  PHARMACY/CHEMIST…………………7  SHOP……………………………..8  FRIEND/RELATIVE………………….9  →401</td>
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Why are you using this (these) method(s)?

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<th>Why are you using this (these) method(s)?</th>
<th>SPACING………………………….1</th>
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<td>ECONOMIC REASONS…………………3</td>
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<td>MEDICAL REASONS…………………..4</td>
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<td>PROVIDER’S DECISION……………..5</td>
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<td>OTHER (SPECIFY)________________6</td>
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How much did you pay in total, including the cost of the method and any consultation for this method?

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<th>Cost…</th>
<th>FREE…………………………..………9995</th>
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<td>DON’T KNOW……………………….9998</td>
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At the time you obtained this method, were you told about side effects or problems you might have with the method?

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<thead>
<tr>
<th>At the time you obtained this method, were you told about side effects or problems?</th>
<th>YES…………………………………………1</th>
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<tbody>
<tr>
<td></td>
<td>NO……………………………………..2</td>
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Were you told what to do if you experienced side effects or problems?

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<thead>
<tr>
<th>Were you told what to do if you experienced side effects or problems?</th>
<th>YES…………………………………………1</th>
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<tr>
<td></td>
<td>NO……………………………………..2</td>
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</table>

At that time you obtained this method, were you told about other methods of family planning that you could use?

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<thead>
<tr>
<th>At that time you obtained this method, were you told about other methods of family planning that you could use?</th>
<th>YES…………………………………………1</th>
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<tbody>
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<td>NO……………………………………..2</td>
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### SECTION 4: DEPOPROVERA KNOWLEDGE AND USE

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<th>SKIP</th>
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<tr>
<td>401</td>
<td>CHECK 302 (01):</td>
<td>WOMAN NOT STERILIZED</td>
<td>→402</td>
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<td></td>
<td>CHECK 302 (01):</td>
<td>WOMAN STERILIZED</td>
<td>→501</td>
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<tr>
<td>402</td>
<td>CHECK 301 (5):</td>
<td>1 IS CIRCLED, MENTIONED INJECTABLE CONTRACEPTIVES</td>
<td>→403</td>
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<tr>
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<td>CHECK 301 (5):</td>
<td>2 IS CIRCLED, DID NOT MENTION INJECTABLE CONTRACEPTIVES</td>
<td>→427</td>
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<td>403</td>
<td>Where have you heard about injectable contraceptives or Depo?</td>
<td>GOVT. HOSPITAL…………………………..1</td>
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<td>Where have you heard about injectable contraceptives or Depo?</td>
<td>GOVT HEALTH CENTER………………………….2</td>
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<td>Where have you heard about injectable contraceptives or Depo?</td>
<td>GOVT HEALTH POST…………………………..3</td>
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<td>Where have you heard about injectable contraceptives or Depo?</td>
<td>CBHRA/CBD……………………………..4</td>
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<td>Where have you heard about injectable contraceptives or Depo?</td>
<td>NGO FACILITY…………………………..5</td>
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<td>Where have you heard about injectable contraceptives or Depo?</td>
<td>PRIVATE HOSPITAL/CLINIC……………6</td>
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<td>Where have you heard about injectable contraceptives or Depo?</td>
<td>PHARMACY/CHEMIST…………………………..7</td>
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<td>Where have you heard about injectable contraceptives or Depo?</td>
<td>SHOP……………………………………..8</td>
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<td>Where have you heard about injectable contraceptives or Depo?</td>
<td>FRIEND/RELATIVE…………………………..9</td>
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<td>Where have you heard about injectable contraceptives or Depo?</td>
<td>MAGAZINE/NEWSPAPER…………………………..10</td>
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<td>Where have you heard about injectable contraceptives or Depo?</td>
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<td>Where have you heard about injectable contraceptives or Depo?</td>
<td>TELEVISION……………………………………..12</td>
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<td>Question</td>
<td>Options</td>
<td>Other: _______________________ (Specify)</td>
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<td>404 Where or from whom would you like to get information about Depo?</td>
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<td>OTHER: _______________________ (Specify)</td>
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<td>405 How long does Depo provide protection against pregnancy?</td>
<td>3 months, 12 weeks.........................1</td>
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<td>ANY OTHER ANSWER.....................2</td>
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<td>DON'T KNOW..........................88</td>
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<td>406 Can you name some of the side effects women can have when using Depo?</td>
<td>IRREGULAR BLEEDING.................1</td>
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<td>407 For what health problems, if any, do you think a woman using Depo should go to a clinic and talk to a nurse or doctor?</td>
<td>CHRONIC HEADACHE.................1</td>
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<td>409</td>
<td>Are you currently using Depo?</td>
<td>YES…………………………..1 →413</td>
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<td>No…………………………..2</td>
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<td>Why did you discontinue use of Depo?</td>
<td>SIDE EFFECTS…………………………1</td>
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<td>FEAR OF SIDE EFFECTS…………2</td>
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<td>DON’T KNOW WHEN TO GO…………3</td>
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<td>TRYING TO GET PREGNANT…….4 →413</td>
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<td>COST……………………………5</td>
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<td>GOT PREGNANT………………..6 →413</td>
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<td>WANT TO USE OTHER METHOD……7</td>
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<td>Are you using a different method?</td>
<td>YES…………………………..1</td>
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<td>No…………………………..2 →413</td>
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<td>412</td>
<td>Which method?</td>
<td>FEMALE STERILIZATION…………1</td>
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<td>OTHER………………………11 (specify)</td>
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<td>413</td>
<td>For how long have you been using Depo?</td>
<td>YEARS……………</td>
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<td>MONTHS……………</td>
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<td>Were you using a different method before you started using Depo?</td>
<td>YES…………………………..1 →418</td>
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<td>No…………………………..2</td>
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<td>Which method did you switch from?</td>
<td>PILL…………………………..1</td>
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<td>IUD……………………………..2</td>
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<td>LACTATIONAL AMENORREA……..7</td>
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<td><strong>416</strong></td>
<td>Do you think you will get another injection of Depo?</td>
<td><strong>YES</strong>………………………….1  → <strong>418</strong>&lt;br&gt;NO………………………………….2</td>
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<tr>
<td><strong>417</strong></td>
<td>Why not?</td>
<td><strong>SIDE EFFECTS</strong>……………….1&lt;br&gt;FEAR SIDE EFFECTS…………….2&lt;br&gt;DON'T KNOW WHEN TO GO……….3&lt;br&gt;TRYING TO GET PREGNANT………..4&lt;br&gt;I AM USING ANOTHER METHOD…….5&lt;br&gt;GOT PREGNANT……………….6&lt;br&gt;COST………………………….7&lt;br&gt;OTHER (specify)_______________8</td>
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<td><strong>418</strong></td>
<td>When did you receive your last injection?</td>
<td><strong>D</strong>&lt;br&gt;<strong>M</strong>&lt;br&gt;<strong>Y</strong>&lt;br&gt;<em><strong>/</strong><strong>/</strong></em>__&lt;br&gt;DON'T KNOW……………………88</td>
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<tr>
<td><strong>419</strong></td>
<td>Where did you receive your last Depo injection?</td>
<td><strong>GOVT. HOSPITAL</strong>……………1&lt;br&gt;GOVT HEALTH CENTER……………2&lt;br&gt;GOVT HEALTH POST………………3&lt;br&gt;CBHRA/CBD……………………4&lt;br&gt;NGO FACILITY……………………5&lt;br&gt;PRIVATE HOSPITAL/CLINIC……….6&lt;br&gt;PHARMACY/CHEMIST………………7&lt;br&gt;OTHER: ________________________8&lt;br&gt;(SPECIFY)</td>
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<td><strong>420</strong></td>
<td>Where would you prefer to receive Depo injections?</td>
<td><strong>GOVT. HOSPITAL</strong>……………1&lt;br&gt;GOVT HEALTH CENTER……………2&lt;br&gt;GOVT HEALTH POST………………3&lt;br&gt;CBHRA/CBD……………………4&lt;br&gt;NGO FACILITY……………………5&lt;br&gt;PRIVATE HOSPITAL/CLINIC……….6&lt;br&gt;PHARMACY/CHEMIST………………7&lt;br&gt;OTHER: ________________________8&lt;br&gt;(SPECIFY)</td>
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<td><strong>421</strong></td>
<td>From whom did you receive the Depo injection?</td>
<td><strong>HEW</strong>………………………..1&lt;br&gt;NURSE………………………….2&lt;br&gt;DOCTOR………………………….3&lt;br&gt;PHARMACIST……………………4&lt;br&gt;CBHRA………………………….5&lt;br&gt;OTHER…………………………..6&lt;br&gt;(SPECIFY)</td>
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<td>Question</td>
<td>Options</td>
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</table>
| From whom would you like to receive the Depo injection?                | HEW.........................1  
NURSE.........................2  
DOCTOR.........................3  
PHARMACIST......................4  
CBRHA.........................5  
OTHER.........................6  
(SPECIFY)                                                              |
| Did you pay for your last injection?                                   | YES...........................1  
NO............................2  |
| How much did you pay for your last Depo injection?                     | COST........  
FREE.........................9995  
DON'T KNOW....................9998  |
| Would you be willing to pay or continue to pay for Depo injections?    | YES...........................1  
NO............................2  |
| How much would you be willing to pay?                                 | COST........  
DON'T KNOW....................9998  |
| Would you like to receive information about Depo?                      | YES...........................1  
NO............................2  |
| Where would you like to get information about Depo?                    | GOVT. HOSPITAL...............1  
GOVT HEALTH CENTER.............2  
GOVT HEALTH POST...............3  
CBHRA/CBD......................4  
NGO FACILITY...................5  
PRIVATE HOSPITAL/CLINIC.......6  
PHARMACY/CHEMIST...............7  
SHOP..........................8  
FRIEND/RELATIVE...............9  
MAGAZINE/NEWSPAPER...........10  
RADIO........................11  
TELEVISION....................12  
OTHER: _________________________13  
(SPECIFY)                                                              |
| Would you be interested in using Depo to prevent pregnancy?            | YES...........................1  
NO............................2  |
| Why not?                                                              | NOT MARRIED..................1  
INFREQUENT SEX/NO SEX.........2  
MENOPAUSAL/HYSTERECTOMY......3  |
<table>
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<tr>
<th>Question</th>
<th>Options</th>
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<tr>
<td>Where would you like to receive a Depo injection?</td>
<td>GOVT. HOSPITAL…………………………………1</td>
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<td>GOVT HEALTH CENTER………………..……………2</td>
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<td>GOVT HEALTH POST………………..………………3</td>
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<td></td>
<td>CBHRA/CBD……………………………………..4</td>
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<td>NGO FACILITY……………………………………..5</td>
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<td></td>
<td>PRIVATE HOSPITAL/CLINIC………………..6</td>
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<td>PHARMACY/CHEMIST………………..………………7</td>
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<td></td>
<td>OTHER: ________________________8 (SPECIFY)</td>
</tr>
<tr>
<td>From whom would you like to receive a Depo injection?</td>
<td>HEW…………………………………………………………1</td>
</tr>
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<td></td>
<td>NURSE…………………………………………………………2</td>
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<td></td>
<td>DOCTOR…………………………………………………………3</td>
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<td></td>
<td>PHARMACIST…………………………………………………………4</td>
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<td></td>
<td>CBRHA…………………………………………………………5</td>
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<td></td>
<td>OTHER…………………………………………………………6</td>
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<tr>
<td></td>
<td>(SPECIFY)</td>
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<tr>
<td>Would you be willing to pay for Depo?</td>
<td>YES…………………………………………………………1</td>
</tr>
<tr>
<td></td>
<td>NO…………………………………………………………2</td>
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<tr>
<td>How much would you be willing to pay for Depo?</td>
<td>COST........ [ ] [ ] [ ]</td>
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<td></td>
<td>DON'T KNOW……………………………………9998</td>
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### SECTION 5: MARRIAGE AND SEXUAL ACTIVITY

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<tr>
<th>NUMBER</th>
<th>QUESTION</th>
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<tbody>
<tr>
<td>501</td>
<td>What is your current marital status?</td>
<td>NEVER MARRIED………………..1 → 503 MARRIED/COHABITING ……………….2 DIVORCED/WIDOWED……………..3 → 503</td>
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<tr>
<td>502</td>
<td>What is the age of your husband or partner?</td>
<td>AGE……. DON’T KNOW…………….88</td>
</tr>
<tr>
<td>503</td>
<td>How old were you when you first had sexual intercourse?</td>
<td>AGE……. NEVER HAD SEXUAL INTERCOURSE &quot;00&quot;</td>
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### SECTION 6: FERTILITY PREFERENCES

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<thead>
<tr>
<th>Number</th>
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<tbody>
<tr>
<td>601</td>
<td>CHECK 302 (01):</td>
<td>WOMAN NOT STERILIZED WOMAN STERILIZED</td>
<td>→602 →SURVEY COMPLETE</td>
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<tr>
<td>602</td>
<td>CHECK 212:</td>
<td>HAVE (A/ANOTHER) CHILD…………..1 NO MORE/NONE…………………2 SAY SHE CAN'T GET PREGNANT…….3 UNDECIDED/DON'T KNOW AND PREGNANT……………..4 →609 UNDECIDED/DON'T KNOW AND NOT PREGNANT/UNSURE……….5 →607a</td>
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<tr>
<td>603</td>
<td>CHECK 212:</td>
<td>MONTHS ……..1 YEARS…………2 →608 SOON/NOW……………………….993 →608 SAY SHE CAN'T GET PREGNANT…….994 →621 AFTER MARRIAGE………….995 OTHER (SPECIFY)…………996 →608 DON'T KNOW………………….998 →608</td>
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<tr>
<td>604</td>
<td>CHECK 212:</td>
<td>NOT PREGNANT OR UNSURE</td>
<td>→605 →609 PREGNANT</td>
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<tr>
<td>Number</td>
<td>Question</td>
<td>Coding Categories</td>
<td>Skip</td>
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<td>607</td>
<td>CHECK 602: WANTS TO HAVE ANOTHER CHILD: You have said that you do not want (another) child soon, but you are not using any method to avoid pregnancy. Can you tell me why you are not using a method? Any other reason? WANT NO MORE/NONE: You have said that you do not want any (more) children, but you are not using any method to avoid pregnancy. Can you tell me why you are not using a method? Any other reason? RECORD ALL REASONS MENTIONED.</td>
<td>NOT MARRIED…………………………..1 FERTILITY-RELATED: NOT HAVING SEX………………2 INFREQUENT SEX…………………………3 MENOPAUSAL/HYSTERECTOMY………4 SUBFECUND/INFECUND………………5 POSTPARTUM AMENORRHEIC……..6 BREASTFEEDING…………………………7 FATALISTIC………………………………8 RESPONDENT OPPOSED………………….9 HUSBAND/PARTNER OPPOSED……….10 OTHERS OPPOSED………………………..11 RELIGIOUS PROHIBITION…………….12 KNOWS NO METHOD………………….13 KNOWS NO SOURCE………………….14 FEAR OF SIDE EFFECTS……………..15 LACK OF ACCESS/TOO FAR………….16 COSTS TOO MUCH……………………..17 INCONVENIENT TO USE………………18 INTERFERES WITH BODY’S NORMAL PROCESSES………………19 HEALTH CONCERNS……………………….20 OTHER (SPECIFY)___________________21 DON’T KNOW……………………………..88</td>
<td></td>
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<tr>
<td>607a</td>
<td>In the next few weeks, if you discovered that you were pregnant, would that be a big problem, a small problem, or no problem for you?</td>
<td>BIG PROBLEM………………………….1 SMALL PROBLEM…………………………2 NO PROBLEM…………………………3 SAYS SHE CAN’T GET PREGNANT/NOT HAVING SEX………………..4</td>
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<tr>
<td>608</td>
<td>CHECK 312: USING A CONTRACEPTIVE METHOD?</td>
<td>NOT CURRENTLY USING → 609 CURRENTLY USING → 611</td>
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<td>Question</td>
<td>Options</td>
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<tr>
<td>Do you think you will use a contraceptive method to delay or avoid</td>
<td>YES…………………………………...….…1</td>
<td>612</td>
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<td>pregnancy at any time in the future?</td>
<td>NO…………………………………………..2</td>
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<td></td>
<td>DON'T KNOW………………………….…………..88</td>
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<td>What is the main reason that you think you will not use a contraceptive</td>
<td>NOT MARRIED……………….…………..1</td>
<td>612</td>
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<td>method at any time in the future?</td>
<td>FERTILITY-RELATED: NOT HAVING SEX………………….…………..2</td>
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<td>INFREQUENT SEX………………….…………..3</td>
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<td>MENOPAUSAL/HYSTERECTOMY……….4</td>
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<td>SUBFECUND/INFECUND…………….5</td>
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<td>POSTPARTUM AMENORRHEIC…………6</td>
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<td>BREASTFEEDING………………….………….7</td>
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<td>FATALISTIC………………….………….8</td>
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<td>OPPOSITION TO USE:</td>
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<td>RESPONDENT OPPOSED…………….9</td>
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<td>HUSBAND/PARTNER OPPOSED……….10</td>
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<td>OTHERS OPPOSED………………….11</td>
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<td>RELIGIOUS PROHIBITION…………….12</td>
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<td>LACK OF KNOWLEDGE:</td>
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<td>KNOWS NO METHOD………………….13</td>
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<td>KNOWS NO SOURCE………………….14</td>
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<td>FEAR OF SIDE EFFECTS…………….15</td>
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<td>LACK OF ACCESS/TOO FAR…………….16</td>
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<td>COSTS TOO MUCH………………….17</td>
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<td>INCONVENIENT TO USE…………….18</td>
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<td>INTERFERES WITH BODY'S NORMAL PROCESSES…………….19</td>
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<td>HEALTH CONCERNS……………....20</td>
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<td>OTHER (SPECIFY)…………….21</td>
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<td>DON'T KNOW………………………….88</td>
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<td>Is (CURRENT METHOD FROM 313/313a your preferred method of contraception?</td>
<td>YES…………………………………...….…1</td>
<td>614</td>
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<td></td>
<td>NO…………………………………………..2</td>
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<tr>
<td>What is your preferred method of contraception?</td>
<td>FEMALE STERILIZATION…………….01</td>
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<td>MALE STERILIZATION…………….02</td>
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<td>PILL………………….…………..03</td>
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<td>IUD………………….…………..04</td>
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<td>INJECTABLE CONTRACEPTIVES…………….05</td>
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<td>IMPLANTS………………….…………..06</td>
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<td>CONDOM………………….…………..07</td>
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<td>FEMALE CONDOM………………….08</td>
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<td>LACTATIONAL AMENORRHEA…………….09</td>
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<td>Response Options</td>
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</table>
| Why are you not using your preferred method of contraception?            | TOO EXPENSIVE………………………….1  
I CAN'T GET………………………………..2  
PROVIDER CHOSE FOR ME…..….….….3  
OTHER (SPECIFY)_________________4 |
| Why do you prefer this method?                                          | MORE CONVENIENT………….…………1  
FEWER SIDE EFFECTS……………..…..2  
TRIED BEFORE…………………………...3  
THE ONLY METHOD I KNOW………...4  
PARTNER ALLOWS IT………………….5  
PRIVACY…………………………………...6  
LONG-ACTING PREFERRED……………7  
SHORT-ACTING PREFERRED………..….8  
OTHER (SPECIFY)_________________9 |
| From where would you prefer to obtain contraceptives?                    | GOVT. HOSPITAL………………………….1  
GOVT HEALTH CENTER…………………..2  
GOVT HEALTH POST………………………..3  
CBHRA/CBD………………….……...4  
NGO FACILITY………………………….5  
PRIVATE HOSPITAL/CLINIC………..….6  
PHARMACY/CHEMIST…………………..7  
SHOP…………………….…………………8  
FRIEND/RELATIVE….……………………9  
OTHER: ________________________10 (SPECIFY) |
| In the last few months, have you heard about family planning on the radio? | YES……………………………………...1  
NO…………………………………….2 |
| In the last few months, have you heard about family planning on the television? | YES……………………………………...1  
NO…………………………………….2 |
| In the last few months have you heard about family planning in the magazine or newspaper? | YES……………………………………...1  
NO…………………………………….2 |
| From what sources would you prefer to hear about family planning?        | GOVT HOSPITAL………………………….1  
HEALTH CENTER…………………..…..2  
HEALTH POST/HEW………………………..3  
CBHRA/CHA…………………………….4  
PRIVATE CLINIC………………………….5 |
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</table>
| 619 | Are you willing to pay for your contraceptive method of choice? | YES…………………………..……………..1  
NO………………………………..…………2  →621 |
| 620 | How much would you be willing to pay for your contraceptive method of choice? | Cost……… |
| 621 | CHECK 204:  
HAS LIVING CHILDREN: If you could go back to the time you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be?  
NO LIVING CHILDREN: If you could choose exactly the number of children to have in your whole life, how many would that be?  
PROBE FOR A NUMERIC RESPONSE. | NONE………………………….…………..00  
NUMBER……….. | →623 |
| 622a | How many of these children would you like to be boys? | BOYS |
| 622b | How many would you like to be girls? | GIRLS |
| 622c | How many would the sex not matter? | EITHER |
| 623 | Did you/will you use any family planning methods to help you obtain your ideal family size? | YES………………………….……………..1  
NO………………………………..…………2  →625 |
| 624 | Why did you not use any family planning methods to help you obtain your ideal family size? | HAD FEWER CHILDREN THAN IDEAL………………………….01  
TOO EXPENSIVE………………………….02  
NOT AVAILABLE………………………….03  
PARTNER OPPOSED………………………….04  
RESPONDENT OPPOSED………………………….05  
OTHERS OPPOSED………………………….06  
RELIGIOUS PROHIBITION………………………….07  
KNOWS NO METHOD………………………….08  
KNOWS NO SOURCE………………………….09  
HEALTH CONCERNS………………………….10 |
FEAR OF SIDE EFFECTS…………….11
INCONVENIENT TO USE……………..12
INTERFERES WITH BODY’S NORMAL PROCESSES…………..13
OTHER (SPECIFY)_________________14
DON’T KNOW…………………………..88

625 CHECK 312: USING A CONTRACEPTIVE METHOD?
NOT CURRENTLY USING
CURRENTLY USING

626 CHECK 313/313a:
CODE 1,2,3,4 CIRCLED →627
10 CIRCLED →627
NO CODE CIRCLED →628
OTHER →627

627 Does your husband/partner/boyfriend know that you are using a method of family planning?
YES…………………………………….1
NO……………………………………...2
DON’T KNOW…………………………88

628 Would you say that using contraception is mainly your decision, mainly your husband’s/partner’s/boyfriend’s decision, or did you both decide together?
MAINLY RESPONDENT…………………1
MAINLY HUSBAND/PARTNER…………2
JOINT DECISION…………………………3
OTHER (SPECIFY)_________________4

628A Now I want to ask you about your husband’s/partner’s views on family planning. Do you think that your husband/partner/boyfriend approves or disapproves of couples using a method to avoid pregnancy?
APPROVES……………………………..1
DISAPPROVES…………………………2
DOESN’T KNOW………………………88

628B How often have you talked to your husband/partner/boyfriend about family planning in the past year?
NEVER…………………………………….1
ONCE OR TWICE………………………2
MORE THAN 2………………………….3

629 Does your husband/partner want the same number of children that you want, or does he want more or few more than you want?
SAME NUMBER……………………….1
MORE CHILDREN……………………2
FEWER CHILDREN…………………….3
DON’T KNOW…………………………88
5.2 Field Work Personnel

The baseline survey was implemented by a team comprised of people from the UC Berkeley Bixby Center for Population, Health and Sustainability, Mekelle University, and local staff. The Principal Investigator, Dr. Ndola Prata, and the Co-Principal Investigator, Dr. Amanuel Gessessew, trained the field Supervisors and the surveyors, who worked together to conduct the 1490 in-depth interviews over two weeks.

The Supervisors include Temesqel W/Giorgis, Goitom Tadesse, Asefa Mihrete. The surveyors include Biniam Tewolde, Belaineshe Debesay, Hareq Berhe, Sara Bahta, Debele Sebuba, Areqawi G/her, Marlin Fissha, Abeba Berhe, Roman Alemayhu, Mulu Tadesse, Gobezie Yimenue, Akberet G/hiwot, Adhanet G/hiwot, Goitom Berhane, Yirga Ebuy, Yosef Hailu.

Karen Weidert, the Project Director, oversaw the data collection and was responsible for collecting the completed surveys and bringing them back to UC Berkeley. Suzanne Bell, the Monitoring and Evaluation Manager, was responsible for data entry at UC Berkeley and data coding/cleaning.