CHOICE OF PLACE OF DELIVERY AND ASSOCIATED FACTORS AMONG PREGNANT WOMEN IN ANEDED WOREDA, EAST GOJJAM ZONE, NORTH WEST ETHIOPIA

BY

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Jimma, Ethiopia

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Abstract

Background: Place of delivery is an important part of reproductive health care. Births occurring at home are most likely to take place without assistance from a health professional, whereas births occurring at a health facility are more likely to be attended by a trained health professional. Women's choice of place of delivery is influenced by different sociodemographic, obstetric and health service related factors.

Objective: To identify choice of place of delivery and associated factors among pregnant women.

Methods: A community based cross sectional study design with both quantitative and qualitative methods was employed in Aneded Woreda, East Gojjam Zone, North West Ethiopia, from March 1-20, 2011.

Pre-test was conducted before the actual data collection. Data was analyzed using SPSS version 16.0 and qualitative data was used to triangulate the quantitative findings. Bivariate & multiple logistic regression analysis were used to identify predictors of choice of place of delivery.

Result: Two hundred fifty nine (65.4%) pregnant women preferred to deliver at home while the rest preferred health institutions. Reason for choosing home were assessed and accordingly the most frequently mentioned reasons were "it is my usual practice" (52.9%), "I get close attention from relatives and family" (43.2%) and "I feel more comfortable giving birth at home" (34.4%). Teen age pregnancy was also found to be high (65.6%) in the study area.

On the multivariable logistic regression model; decision maker (when made by husbands) (OR: 5.1: 95% CI: 1.2, 22.5), family income between 270.8 & 458 Birr (OR: 2.54: 95% CI: 1.026, 6.3), not attending ANC visit (OR: 3.8: 95% CI = 1.7, 8.7), time taken to reach the nearby health facility (1/2-1hr (OR: 2.9: 95% CI: 1.3, 6.1) and > 1hr (OR: 3.8, 95% CI: 1.7, 8.8)) and previous home delivery (OR: 23.8: 95% CI: 22.8, 24.8) were associated with a preference by pregnant women to deliver at home.

Conclusion and recommendation: *Majority of the respondents chose to deliver at home.*

A range of characteristics affect choice of place of delivery such as socio-demographic and health service related practices/factors. Despite the increased focus on increasing institutional delivery majority of the women in Aneded woreda preferred to deliver at home and this shows that the Woreda health office and other concerned bodies should work together to increase institutional delivery by increasing ANC utilization and accessibility of the services.

Key words: Choice of place of delivery, pregnant women, Aneded Woreda.

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Acronyms

ANC Antenatal Care

AOR Adjusted Odds Ratio

COR Crude Odds Ratio

DHS Demographic and Health Survey

EDHS Ethiopian Demographic and Health Survey

HEP Health Extension Program

HSDP Health Sector Development Program

ICPD International Conference on Population and Development

MDGs Millennium Development Goals

MMR Maternal Mortality Ratio

NGO Non-Governmental Organization

OR Odds Ratio

PID Pelvic Inflammatory Disease

SBA Skilled Birth Attendant

SSA Sub Saharan Africa

TBA Traditional Birth Attendant

UNICEF United Nations International Children's Education Fund

WHO World Health Organization

Chapter One: Introduction

1.1 Background

Place of delivery is an important part of reproductive health care. The place of delivery often determines the quality of care received by the mother and infant and is an important factor affecting peri-natal and maternal mortality (1). Pregnancy is not a disease and pregnancy related mortality and morbidity are preventable with attainable, simple and cost effective interventions (2). Every pregnant woman faces the risk of sudden, unpredictable complications that could end in death or injury to herself or to her infant (3).

The provision of care for women during pregnancy and child birth is essential to ensure a healthy and successful outcome of pregnancy for the mother and her newborn (4). Access to professional health care during delivery is critical for maternal & child mortality reduction. Since majority of deaths occur during delivery and the low predictive value of antenatal screening for identifying risk cases, the presence of a skilled attendant at delivery more likely reduces mortality (5).

"Births occurring at home are most likely to take place without assistance from a health professional, whereas births occurring at a health facility are more likely to be attended by a trained health professional" (6). One of the most critical interventions for safe motherhood is to ensure skilled care provided by skilled professionals during pregnancy and childbirth (7). Proper medical attention and hygienic conditions during delivery can reduce the risk of complications and infections that may cause the death or serious illness of the mother and the baby or both (6).

1.2. Statement of the problem

Every day, at least 1,600 women die worldwide from the complications of pregnancy and child birth; of which Sub-Saharan Africa and South Asia took the largest share (86%) (8,9). Four million new born infants die and millions more disabled every year because of poorly managed pregnancies and deliveries. This is a devastating health problem of areas with low ANC and high home delivery (2). A lifetime risk of maternal death in developing countries is forty times higher than that of the developed world (8, 10). In Sub-Saharan Africa (SSA), a woman's risk of dying from treatable or preventable complications of pregnancy and childbirth over the course of her lifetime is 1 in 22 compared to the developed regions (1 in 7,300) (11).

The proportion of women who delivered with the assistance of a skilled birth attendant is one of the indicators in meeting the fifth millennium development goal (MDG). In almost all countries where health professionals attend more than 80% of deliveries, maternal mortality ratios (MMRs) are below 200 per 100,000 live births (8). In 2008, 65.7% of births were attended by a skilled health worker world-wide. Nearly all births were attended by skilled health personnel in the developed countries while this proportion is 61.9% and 35.3% in less developed and least developed countries respectively. In Africa and Asia, only 46.5% and 65.4%, respectively, of women gave birth with professional assistance. From less developed regions, the lowest levels of skilled attendant at birth were in Eastern Africa (33.7%) (12).

Eleven countries, including Ethiopia, comprised 65% of the global maternal deaths in 2005. A total of 14 countries had maternal mortality ratio (MMR) of at least 1000/100,000 live births, of which 13 were in the SSA. The MMR in the country, in 2005, was 673 per 100,000 live births and the infant mortality rate was 77 per 1000 live births (6).

Home delivery is a common phenomenon for Ethiopian women. Previous studies have clearly demonstrated that the utilization of institutional delivery and other maternal health services is very low in the country (13, 14). Nationally, only 7% of births occurred in the health institutions indicating that the majority of Ethiopian women gave birth at home. Only a quarter of Ethiopian women received antenatal care (ANC) which justifies the high level of home delivery in the country (15, 16).

The proportion of births delivered in a health facility is generally low in most of the regions in Ethiopia (6% or less). In Amhara region specifically institutional delivery was the lowest (3.5%) when compared with other regions of the country (6). It is well established that giving birth in a medical institution under the care and supervision of trained health-care providers promotes child survival and reduces the risk of maternal mortality. Deliveries that took place in health facilities were mainly assisted by a skilled attendant. However, in case of home deliveries it was mainly conducted by unskilled attendants. Utilization of health services including choice of place of delivery is affected by a number of factors. Common determinants are socio-demographic characteristics, obstetric history, distance, economic factors, cost and level of information available to clients and knowledge of birth complications. These variables were studied by different researchers in different settings but findings were inconsistent (6, 9, 17-24).

Maternal deaths are the result of complications of pregnancy and child birth such as hemorrhage, hypertensive disorder, obstructed labor, unsafe abortion and infection which contribute for up to 80% of maternal deaths with resultant increased fetal loss, peri-natal mortality and poor survival of small children. Even though millions of women and newborns survive such complications, many mothers and newborns suffer acute and chronic ill health or lifelong disabilities from uterine prolapse and vesico-vaginal and/or recto-vaginal fistulae. Furthermore, obstructed labor can also result in infections, including sepsis, pelvic inflammatory disease (PID), which damage the reproductive system, leading to infertility and a range of gynecological disorders (8, 25, 26).

The complications that affect women during pregnancy and child birth affect the fetus as well. Around 8.1 million infants die each year, half of them within the first month of life and a large proportion within a few days of birth. Many of these neonatal deaths are a direct consequence of poorly managed pregnancies and deliveries. Infants surviving these complications have greater risk of developing physical and mental disabilities throughout their lives (2).

Deaths and disabilities related to pregnancy result in human suffering and are obstacles to the social and economic development. The women who die are in the prime of life, responsible for the health and wellbeing of their families who generate income, grow and prepare food, educate the young, care for children, the elderly and the sick. Their death makes development efforts unreliable (2).

Cognizant of high MMR and high home delivery, the Ethiopian government has come to be strong advocate for improved maternal health as evidenced by its commitment to the MDGs. It is also committed to improvement of maternal health as a primary goal of the third Health Sector Development Program (HSDP III). This places strong emphasis on expanding basic and equitable access through an innovative program, health extension program (25).

Important efforts have also been made to improve social and economic conditions through adoption of relevant policies and strategies, for example, on reproductive health and adolescent reproductive health (6). Sector-wide programs have been developed for women in health and education. Significant improvement in health service coverage, particularly in rural areas, is evidenced by the recent construction of thousands of health posts and the deployment of 30,000 health extension workers to deliver primary health care (26). Despite this improvement, with this pace, the achievement of MDGs by the year 2015 is lagging behind.

Despite the fact that institutional delivery is essential for further improvement of maternal and child health little is known about the current choice of place of delivery and associated factors in the study area. Understanding the choice of the women and the various factors that influence their choice will help to put in strategies that will improve maternal health service utilization. Therefore, the purpose of this research is to identify women's choice of place of delivery and associated factors.

Chapter Two: Literature Review

Women have many different choices these days. Deciding where to give birth is one of these choices which have a significant effect on their health and the newborn. Obviously the choice between home and hospital birth is as much a matter of personal preference as well as of the health and risk factor of the pregnancy. Some women may prefer the freedom to deliver at home while others may prefer to deliver in the health institutions (27). Hence, preference is influenced by many factors such as socio-demographic, maternal obstetric history and health service related factors.

In a cross sectional study conducted in Zaria (Northern Nigeria) 71.8% of women preferred to deliver at home while the rest (28.2%) preferred institutional delivery (23). In a study conducted in Nepal however, 49.4% of women preferred home delivery while 50.6% of women preferred institutional delivery (22).

2.1 Factors associated with choice of place of delivery

2.1.1 Socio-demographic and economic factors

Socio-demographic factors primarily influence decision making of women on whether to seek care (28). A cross sectional study from Southern Kenya, found that older women were more likely to give birth outside the health institution compared to women in the age group 20-29 years (29). In a cross sectional study done in India, Muslim women had significantly lower chances of using skilled personnel at child birth (19).

Maternal education is identified as predictor of preference to place of delivery in different studies conducted in different countries but, there is no consistent finding. Cross-sectional studies from India (19) and North Gondar (21) and the 2005 EDHS (6) showed those women with higher education levels were more likely to use skilled attendants at birth compared to those with lower or no education. However, a cross-sectional study from West Bengal showed that there was no significant association between maternal education and place of delivery (20).

Cross sectional studies from Nepal and Zaria (Northern Nigeria) showed a significant association between husband's education and place of delivery (22,23). In opposite to this, a cross sectional study from rural West Bengal showed that there was no significant association between husband's education and place of delivery (20).

Different studies found a significant association between who decided to go for ANC and delivery services and utilization of these services. A cross sectional study on barriers to institutional delivery from West Bengal showed that selection of place of delivery has been influenced by the person who selected it. In this study, in about 34.80%, 47.90% and 3.20% of cases place of delivery was decided by mother-in-law, husband and pregnant women themselves respectively and in those cases home deliveries were 85.05%, 86.55% and 37.5% respectively (20). A cross sectional study conducted on utilization of ANC and delivery services in Nigeria stated that married women usually seek spousal approval of their choice of ANC and delivery facilities and majority of the women used TBA to satisfy their husband need (1).

A study done in India found that women residing in rural areas had lower odds of skilled care (30). Similarly a cross sectional study done in North Gondar showed a statistically significant association between place of residence and place of delivery. In this research women who resided in rural areas were more likely to use the services than their urban counter parts (21). In contradiction to this, in a study conducted in Turkey there was no statistically significant association between residence and place of delivery (31).

Cross sectional studies from India, Southern Kenya and North Gondar found that women with lower income were less likely to deliver at health facilities than women having higher income (19,21,31).

A survey conducted in India on place of birth found a significant association between listening to radio and place of delivery. In this survey, women who didn't listen to radio every week were less likely to deliver at home compared to women who listen to radio every week (1).

A similar study conducted in Nigeria on determinants of use of maternal health services showed that women with medium and high community media saturation were 1.44 and 2.17 times more likely to use medical personnel at delivery respectively compared to women with low community media saturation (32).

Another study conducted in North Gondar found women without access to radio were less likely to deliver at a health institution than women with access to radio. In this study 8.4% of women had radio while the rest 91.6% didn't have (21).

Various studies found a significant association between maternal occupation and their choice of place of delivery. A cross sectional survey conducted in Nepal indicated that women who were working in agriculture and housewives were 5.1 & 1.5 times more likely to deliver at home than those working in office respectively (22). Similarly in a cross sectional study from West Bengal conducted on barriers to institutional delivery 9.23% of workers and 78.9% of housewives deliver their baby at home (20).

Different studies found a significant association between occupation of the husband and choice of place of delivery. In a study conducted in Nepal on socio-economic and physical distance to the maternity hospital women whose husbands were working in agriculture were 4 times more likely to deliver at home than those working in an office (22).

Similarly in a cross sectional survey from Bangladesh on determinants of maternal health services utilization, women whose husbands were working in business/service sectors were 2.23 times more likely to go to traditional services compared to women whose husbands were farmers (33). The girls' right to have any say over when and if they should become pregnant is unacknowledged. This unequal division of power in marriage is likely to be exacerbated where the husband-wife age gap is wide (34).

2.1.2 Maternal obstetric factors

Different studies conducted in different parts of the world revealed a significant association between maternal obstetric factors and place of delivery. A cross sectional study done in North Gondar showed age at first pregnancy was not significantly associated with place of delivery (21).

Studies showed a significant association between parity and place of delivery. A community based cross sectional survey from Western Kenya on use of antenatal services and delivery care showed that parity was not associated with place of delivery (29).

Previous experience of child death is identified as predictor for choice of place of delivery and ANC. A community based cross sectional survey conducted in Western Kenya showed that women who had 1-2 and \geq 3 previous child deaths were 1.6 and 1.35 times more likely to give birth outside the health institution respectively compared to women with no previous child death. In contradiction to this, previous experience of still birth was not significantly associated with ANC and delivery service utilization (29).

Different literatures found a significant association between occurrence of ANC complications and place of delivery. Studies from West Bengal, Karachi (South Pakistan) and North Gondar found a significant association between experience of pregnancy & birth complications with ANC utilization and place of delivery. According to these studies, mothers who had past history of pregnancy and delivery complications were more likely to deliver in the health institutions (20, 21,24).

A Cross sectional study conducted on choice of place for child birth in Chongwe district (Zambia) found that compared to mothers who delivered their last pregnancy at a health facility, mothers who had their last childbirth at home were 85% less likely to deliver their current pregnancy at a health facility (35).

2.1.3. Health service related factors

Different studies conducted in different countries found distance from the health institution as a significant factor affecting choice of place of delivery. According to cross-sectional studies conducted in Nepal and Western Kenya, women walking 1 hour and greater than 1 hour were more likely to give birth outside the health facility compared to those who travel < 1 hour walking distance (22,23). However, a cross sectional study conducted in West Bengal found that there was no significant association between distance of household from nearest health care facility and place of delivery (20).

Different literatures from different areas found a significant association between ANC follow up and place of delivery. According to cross-sectional studies conducted in West Bengal, Nepal and North Gondar, women who had registered antenatal visit were more likely to give birth at health facilities than women who had no registered ANC visits (20-22).

Different studies were done in different parts of the world and found a significant association between maternal socio-demographic, obstetric and health service related factors and ANC utilization and choice of place of delivery. Because some of these factors vary in different settings their influence on women's choice of place of delivery need to be studied in the country and study area specifically.

2.2. Significance of the study

The aims of delivery care include achieving clean and safe delivery as well as recognition, early detection and management or referral of complications at health center or hospitals. Identifying factors influencing choice of place of delivery helps to focus on these factors which are amenable to change. Understanding the forces behind choice of place of delivery will help to improve the health service delivery and assist in directing efforts towards better use of resources. So far, to the researcher's knowledge, no adequate study done to address this area of concern in the country, and no study done in Aneded Woreda specifically. Therefore, this study is aimed to identify choice of place of delivery and factors that influence choice of place of delivery among women in Aneded Woreda. Identification and analysis of determinants of choice of place of delivery is quite important for a resource starved country like Ethiopia. Because analysis of factors influencing choice of place of delivery will help local health authorities, governmental and NGOs working on MCH (maternal and child health) with relevant information to take measures that can overcome the shortcomings in the existing service delivery system so that utilization rate of institutional delivery in the Woreda is increased.

Conceptual framework

This conceptual framework is developed after review of literatures on the subject. The socio-demographic & economic factors affect ANC utilization and choice of place of delivery. Maternal obstetric factors also affect ANC utilization and choice of place of delivery. Health service related factors have also an influence on ANC utilization and choice of place of delivery. The ANC utilization (an intermediate variable) affect choice of place of delivery and is influenced by maternal socio-demographic & economic, obstetric and health service related factors. This relationship is explained in the conceptual framework next page (Figure 1).

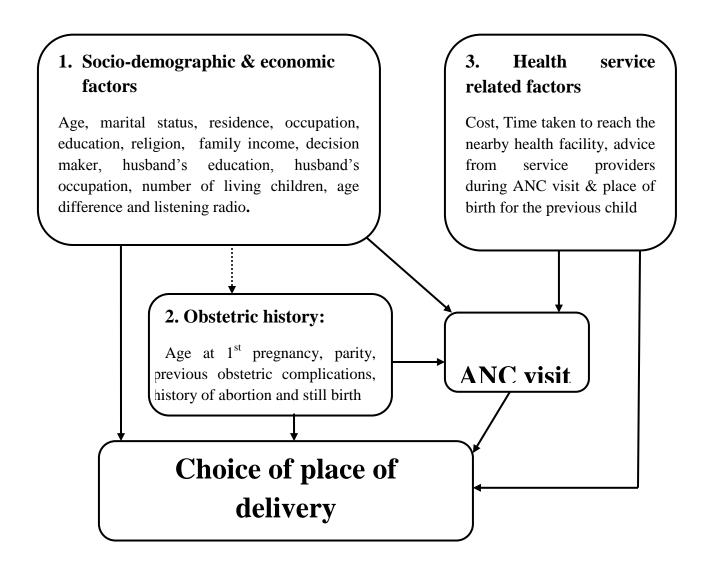


Figure 1: Conceptual framework showing factors associated with choice of place of delivery 2011.

Chapter Three: Objectives

3.1. General Objective

The overall objective of this study was to identify choice of place of delivery and associated factors among pregnant women in Aneded Woreda, East Gojjam Zone, North West Ethiopia, 2011.

3.2. Specific Objectives

- 1. To identify women's choice of place of delivery for the current pregnancy
- 2. To determine factors associated with women's choice of place of delivery

Chapter Four: Method and materials

4.1 Study area and period

The study was conducted in East Gojjam zone, Aneded Woreda from March 1-20, 2011. East

Gojjam zone is one of the zones in Amhara Regional State located, in North West Ethiopia and

has a total population of 2,152,671 bounded by South Gondar in the North, Oromiya region in the

South, North Shoa, South Wollo and Oromiya region in the East and West Gojjam in the west.

Debre Markos is the zonal capital located 299Km from the capital city of Ethiopia, Addis Ababa. Aneded

is one of the 18 woredas in East Gojjam zone, Amhara region of Ethiopia; located 282 km from Addis

Ababa and 17 Km from the Zonal capital, Debre Markos. Currently, the woreda has 19 rural and 1 urban

kebeles. This woreda has 41,437 hectare area and a total population of 91,195 of whom 45,387 are males

and 45,808 are females. About 89,418 were rural and 1,777 were urban dwellers. The estimated number of

women in reproductive age (15-49) in the woreda (both rural and urban) was 22,550. About 12,899

Children less than 5 years and 3,535 expected pregnancies were recorded in the woreda. In the woreda

there are three health centers and 19 health posts (36, Aneded woreda health office report, 2009/2010

unpublished).

4.2 Study design

A community based cross sectional study with both quantitative and qualitative methods was

employed.

4.3 Population

4.3.1 Source population

For quantitative study: All pregnant women in Aneded woreda.

For qualitative study: Health care providers working in ANC and delivery service, health

extension workers, pregnant women, husbands and community leaders in Aneded woreda were

the source population for the qualitative data.

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4.3.2 Study population

For the Quantitative study

Selected pregnant women were included.

Inclusion and exclusion criteria

Inclusion criteria

Pregnant women were included as study population.

Pregnant women who stayed for 1 or more years in the study area prior to the time of data collection

Exclusion criteria

Pregnant women who were seriously ill and unable to communicate were excluded from the study.

For the qualitative Method

A total of 15 participants from health service providers working in ANC and delivery service, health extension workers, pregnant women, husbands and community representatives were selected purposively for the in-depth interview.

4.4 Sample size and sampling procedure

4.4.1 Sample size

The quantitative sample size for this study was calculated using formula for a single population proportion considering the following assumptions:

• Assumptions: A 95% confidence level, margin of error (0.05), proportion of women who prefer to deliver in health institutions (p = 0.5) was substituted in the following single population proportion formula.

$$n = \frac{\left(\chi_{\alpha/2}\right)^2 p \left(1 - p\right)}{d^2}$$

Where: n = required sample size

 $Z_{\alpha/2}$ = Critical value for a standard normal distribution at 95% confidence level which equals to 1.96 (z value at α =0.05)

P = proportion of women who prefer to deliver in health the institution

d = an absolute precision (margin of error 5%).

$$n = \frac{(1.96)^2 (0.5)(1 - 0.5)}{(0.05)^2} = 384$$

The formula yield n = 384

Adding 10% for non-response the required total sample size for the study was.

For the qualitative part, 15 participants from health care providers at ANC and delivery service, health extension workers, pregnant women, husbands and community leaders were interviewed based on the principle of saturation of information.

4.4.2 Sampling procedure

For quantitative study

From a total of 20 Kebeles in Aneded Woreda, ten kebeles were selected by simple random sampling (lottery) method. Number and list of pregnant women in the selected kebeles was obtained from Health Extension Works and they were approached randomly using lottery method. Closed houses were revisited three times on the same day rather than simply considering them as non-response.

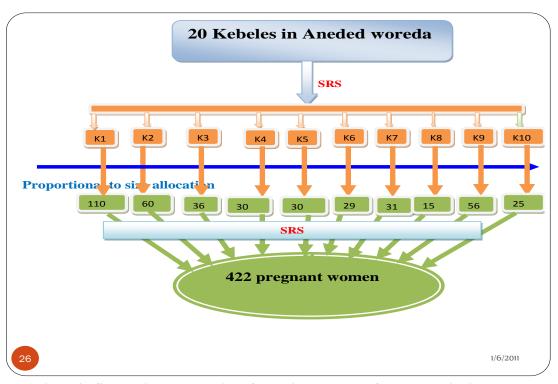


Figure 2: Schematic representation of sampling procedure for the quantitative method

For qualitative study

Health care providers at ANC and delivery services, health extension workers, pregnant women, husbands and community leaders were selected purposively with the help of kebele administratives and HEWs and interviewed on choice of place of delivery and associated factors.

4.5 Data collection and measurements

4.5.1 Data collection instrument

Quantitative data were collected using a pre-tested questionnaire after a review of similar literatures (6, 9, 17-24). The questionnaire had socio-demographic & economic, obstetric and health service related questions with 5 sections. The questionnaire was prepared first in English then translated in to Amharic and back to English to check for consistency.

A semi-structured open-ended interview guide was developed and used for in-depth interview and the interview was tape recorded and notes were taken accordingly.

4.5.2 Study variables

Dependent variable

- ✓ Choice of place of delivery
- **■** Independent variables
- Socio-demographic and economic characteristics
 - ✓ Age of the mother
 - ✓ Marital status
 - ✓ Residence
 - ✓ Religion
 - ✓ Income
 - ✓ Educational status of the mother
 - ✓ Educational status of the husband

- ✓ Age difference between husband & wife
- ✓ Occupation of the mother
- ✓ Occupation of the husband
- ✓ Listening about institutional delivery on radio
- ✓ Number of living children
- ✓ Decision maker

- Obstetrics history
 - ♦ Age at 1st pregnancy
 - Parity
 - Previous obstetric complication
- **Health service related factors**
 - Cost
 - **②** Distance from the health facility
 - Place of birth for the previous child

- History of abortion
- History of still birth
- ANC visit
- Advice from health professionals

4.5.3 Data collection technique

Interviewer administered semi-structured questionnaire was used in a study subjects' usual place of residence. In order to complement and supplement and ultimately to maximize the data quality obtained from the questionnaires, in-depth interview was conducted with health care providers in ANC and delivery services, health extension workers, pregnant women, husbands and community leaders by the principal investigator.

4.6 Data collectors

Ten 10th grade completed female students (able to speak and write Amharic fluently) were recruited and trained for three days (including practical work) by the principal investigator on the study instrument, consent form, how to interview and data collection procedure. Four BSc nurses and one health officer were recruited and trained for three days to supervise the data collection.

4.7 Pre-test

Pre-test was conducted on 10% (42 pregnant women) of the sample on a nearby Kebeles (Amber Zuria & Nefasam) to ensure clarity, wordings, logical sequence and skip patterns of the questions and amendments on the questionnaire were made accordingly.

4.8 Quality control

The quality of the data was assured by using questionnaires obtained from review of similar literatures. The questionnaire was translated from English to Amharic by translators and back to English by second other translators who are health professionals and fluent speakers of Amharic and English to compare the consistency.

Data collectors and supervisors were trained for 3 days. The questionnaire was pre-tested before data collection on the kebeles which weren't included in the study.

Five supervisors were assigned and checked the day today activity of data collectors. The principal investigator also checked the supervisors' work each day.

4.9 Data processing and analysis

For the quantitative data

The data was checked for completeness and inconsistencies, coded, entered in to SPSS for windows version 16.0 (SPSS Inc.) and cleaned. Further, editing of the data was done after data entry by running frequencies and checking for out of range responses.

Binary logistic regression analysis was used to test the existence of association between independent variables and choice of place of delivery. Finally all the significant variables in a bivariate analysis were entered to the multivariable logistic regression model to determine predictors of choice of place of delivery. Odds ratios and 95% confidence intervals were used to measure the strength of statistical associations and to interpret the findings and statistical significance was declared at P<0.05.

For the qualitative data

Data was transcribed verbatim in to an English text by the principal investigator by replaying the recorded interview. Ideas in the text were merged in their thematic areas and a thematic framework analysis was employed manually. The results were presented in narratives in triangulation with quantitative data.

4.10 Ethical consideration

Ethical clearance was obtained Ethical Review Board of College of Public Health and Medical Sciences, Jimma University. Letter of permission was obtained from Aneded Woreda health office and Amber town administrative offices. In addition all of the study participants were informed about the purpose of the study and finally their verbal consent was obtained before interview and ensured during each activity of data collection. The respondents were notified that they have the right to refuse or terminate at any point of the interview. The information provided by each respondent was kept confidential and used only for the purpose of the study and hence name of the respondents was omitted.

4.11 Operational definition

Age difference between husband & wife— is calculated by subtracting age of the mother from age of the husband.

Choice of home delivery – Those births which are planned to take place in the respondents, family, traditional birth attendants or neighbors home.

Choice of institutional delivery – Those births which are planned to take in governmental, non-governmental or private health institutions.

Parity - the number of full term children previously borne by a woman, excluding miscarriages or abortions in early pregnancy, but including still births.

4.12 Dissemination plan

The results of this study will be presented to Jimma University, population and family health department. It will also be communicated to East Gojjam zone health department, Aneded woreda administrative office and Aneded Woreda health office and other concerned bodies through report. Efforts will be made to publish the findings on national and international peer reviewed journals.

Chapter Five: Result

5.1 Socio-demographic and economic characteristics

Four hundred twenty two pregnant women were planned to be included in this study, 396 were interviewed making the response rate of 93.8%. The mean age of respondents was $28.1 \ (\pm 5.9)$ years. Less than a third (29.5%) of respondents were in the age group 25-29 years while only 5.8% were in the age group of 15-19 years. The average age difference between husband and wife was $6.4 \ (\pm 4.1)$ years. More than two third (68.4%) of husbands were 5 or more years older than their wives. Majority of the respondents $375 \ (94.7\%)$ were rural dwellers and $395 \ (99.7\%)$ were Orthodox Christians by religion. Majority of the participants were married (95.7%) and more than half (51.3%) of the respondents were farmers by occupation. Concerning husband occupation, majority were farmers (93.0%).

About 190 (50.0%) of study participants reported an average monthly family income below the median (458 Birr). On average, a woman had 3 children (±2.1). Slightly higher than one third (37.5%) of women had 3 to 5 living children while 9.3% of them had 6 or more living children. More than half (53%) of study participants didn't listen about institutional delivery on radio (Table 1).

Table 1: Socio-demographic characteristics of pregnant women in Aneded woreda, East Gojjam Zone, North West Ethiopia, 2011.

| Variable | Category | Frequency | Percent |
|------------------------|---------------------|-----------|---------|
| Age | 15-19 | 23 | 5.8 |
| | 20-24 | 89 | 22.5 |
| | 25-29 | 117 | 29.5 |
| | 30-34 | 86 | 21.7 |
| | >=35 | 81 | 20.5 |
| Age difference between | <=4 | 125 | 31.6 |
| husband & wife | 5-9 | 193 | 48.7 |
| | >=10 | 78 | 19.7 |
| Residence | Rural | 375 | 94.7 |
| | Urban | 21 | 5.3 |
| Marital status | Married | 379 | 95.7 |
| | Others* | 17 | 4.3 |
| Religion | Orthodox | 395 | 99.7 |
| | Muslim | 1 | 0.3 |
| Occupation of the | House wife | 176 | 44.4 |
| mother | Farmer | 203 | 51.3 |
| | Others** | 17 | 4.3 |
| Husband occupation | Government employee | 8 | 2.1 |
| | Farmer | 361 | 93.0 |
| | Others*** | 19 | 4.9 |
| Monthly family income | <270.8 | 99 | 26.1 |
| (In Birr) | 270.8-458 | 91 | 24.0 |
| | 458-812.5 | 95 | 25.1 |
| | >812.5 | 94 | 24.8 |
| Number of living | None | 81 | 20.5 |
| children | 1 | 61 | 15.4 |
| | 2 | 69 | 17.4 |
| | 3-5 | 148 | 37.4 |
| | 6+ | 37 | 9.3 |
| Do you own a radio in | Yes | 186 | 47.0 |
| your house? | No | 210 | 53.0 |

^{*}Widowed, divorced, single, cohabitated
** Local drink seller, daily laborer, pot maker

^{***} Tailor, merchant, daily laborer

Concerning educational status, 324 (81.8%) of the study participants were unable to read and write while 8.1% of them attended formal education. Half 194 (50.0%) of the husbands were unable to read and write while only 7.7% attended formal education (Figure 3).

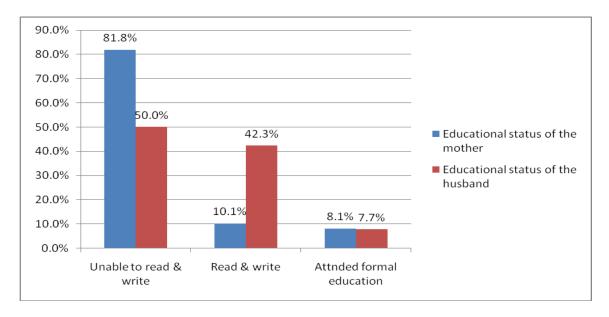
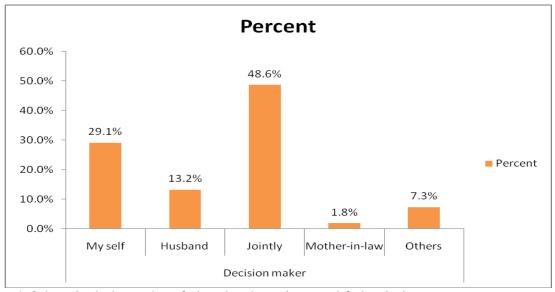


Figure 3: Educational status of women & husbands in Aneded woreda, East Gojjam zone, North West Ethiopia, 2011.

Nearly half (48.6%) of the participants reported that final decision to choose place of delivery made jointly (with the husband) and & 1.8% of the respondents reported that final decision made by mother-in-laws (Figure 4).



* Others include mother, father, brother, sister and father in law.

Figure 4: Decision maker to choose place of delivery among pregnant women in Aneded woreda, East Gojjam zone, North West Ethiopia, 2011.

5.2. Past and current obstetric history

Nearly two third (65.6%) of the respondents had their first pregnancy before 20 years. A quarter (25.0%) of the subjects gave birth to 5 or more children while 14.4% of them were parity one. Regarding history of abortion, 67 (16.9%) women reported history of one or more abortions and 32 (8.1%) reported history of still birth. The mean gestational age was 27.3 (+6.7) weeks.

Two hundred ninety (73.2%) respondents visited the nearby health facility at least once for ANC while 106 (26.8%) didn't visit the health institution during the current pregnancy. From those pregnant women who attended ANC, 94.1% made less than 4 visits while only 5.9% made 4 or more ANC visits.

About a third (36.9%) of study participants reported previous history of pregnancy/delivery complications while 265 (80.3%) respondents delivered their previous child at home (Table 2).

Table 2: Past & current obstetric history of pregnant women in Aneded woreda, East Gojjam Zone, North West Ethiopia, 2011.

| Variable | Category | Number | Percent |
|----------------------------|--------------------|--------|---------|
| Age at 1st pregnancy | <20 | 257 | 65.6 |
| Parity | 20-29 | 135 | 34.4 |
| | None | 75 | 18.9 |
| | 1 | 57 | 14.4 |
| | 2-4 | 165 | 41.7 |
| History of abortion | ≥ 5 | 99 | 25.0 |
| | Yes | 67 | 16.9 |
| | No | 329 | 83.1 |
| History of still birth | Yes | 32 | 8.1 |
| | No | 364 | 91.9 |
| ANC visit | Yes | 290 | 73.2 |
| | No | 106 | 26.8 |
| Number of ANC visits | <4 | 273 | 94.1 |
| | 4+ | 17 | 5.9 |
| Previous complication | Yes | 132 | 36.9 |
| | No | 226 | 63.1 |
| Place of previous delivery | Home | 265 | 80.3 |
| | Health institution | 65 | 19.7 |

5.3. Health service related characteristics

From the total 290 pregnant women who visited the health facility for ANC, majority (81.7%) reported that they got advice to deliver in the health institution. Eighty four (21.2%) respondents reported cost of care/time it takes for ANC & delivery services as a great problem to get these services. More than a third (37.9%) of the respondents reported more than half an hour to an hour walking distance to reach the nearby health facility (Figure 5).

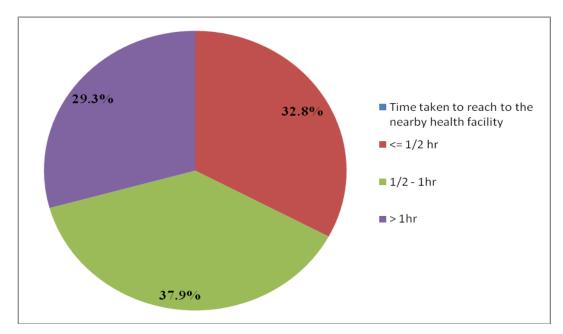


Figure 5: Time taken to reach to the nearby health facility from the homes of pregnant women in Aneded Woreda, East Gojjam Zone, North West Ethiopia, 2011.

5.4. Mothers current choice of place of delivery and their reasons

Two hundred fifty nine (65.4%) pregnant women chose to deliver at home while the rest (34.6%) chose health institution. The most frequently mentioned reasons for choosing home delivery were "it is my usual practice" (52.9%), "I get close attention from relatives and family" (43.2%) and "I feel more comfortable giving birth at home" (34.4%) while most frequently mentioned reasons for choosing institutional delivery were "informed to deliver in health facilities" (78.3%), "to get better services in health facilities" (54.3%) and "to get better outcomes from health facilities to me & my baby" (52.2%) (Table 3).

Regarding the reasons for choosing home to deliver her child, a 25 years old mother from Adisge kebele said:

"...I go nowhere... I will deliver and get rest here (home). I face many problems to reach the health center. There is no one to carry me there (health center) & there is problem of money."

On the other hand a health officer from Jama health center remarked;

"... Women want to deliver at home fearing the long distance and delivering on the road... There are also "very hot places" ('Berehama') areas and it is difficult to come to the health center."

A nurse from Amber health center also said;

"... When a woman deliver at home... there is what we call social support... relatives, friends are there with them who are helping and supporting."

Table 3: Women's choice of place of delivery and their reasons in Aneded woreda, East Gojjam Zone, North West Ethiopia, 2011.

| Variables | Frequency | Percent |
|---|-----------|---------|
| Choice of place of delivery | | |
| Home | 259 | 65.4 |
| Health institution | 137 | 34.6 |
| Total | 396 | 100 |
| Reasons to choose home delivery for the current pregnancy | | |
| I feel more comfortable giving birth at home | 89 | 34.4 |
| I get Close attention from relatives and family | 112 | 43.2 |
| Because it is my usual practice | 137 | 52.9 |
| Bad experience in giving birth in health facilities | 7 | 2.7 |
| Unwelcoming approach of health workers in health facilities | 3 | 1.2 |
| The health facility is too far from my house | 8 | 3.1 |
| Lack of money for transport | 12 | 4.6 |
| Influenced by my husband not to go to health facilities | 19 | 7.3 |
| No one to care for the family | 12 | 4.6 |
| Reasons to choose institutional delivery for the current pregna | ncy | |
| Informed to deliver in health facilities | 108 | 78.3 |
| To get better services in health facilities | 75 | 54.3 |
| To get better outcomes from health facilities to me & my baby | 72 | 52.2 |
| Bad experience from past home delivery | 39 | 28.3 |
| The health facility closer to home | 28 | 20.3 |
| Others | 7 | 5.1 |

NB*. Percents will not add up to 100 due to multiple responses.

In a bivariate analysis of socio-demographic variables; occupation of the mother, educational status of the mother, husband occupation, average monthly family income and decision maker on place of delivery were significantly associated with choice of place of delivery (Table 4).

From obstetric and health service related variables place of previous delivery, ANC visit during the current pregnancy, advice from service providers to deliver in the health institution and time taken to reach the nearby health facility were significantly associated with choice of place of delivery in a bivariate analysis (Table 5).

Table 4: Socio-demographic factors affecting choice of place of delivery among pregnant women in Aneded Woreda, East Gojjam zone, Northwest Ethiopia, 2011.

| Variable | Choice of place of delivery | | | | |
|--------------------|--------------------------------|--------------------------|----------------------------|-----------------------|--|
| | Category | Home No. (%) | Health institution No. (%) | COR (95% CI) | |
| Age of the mother | 15-19 | 13 (56.5%) | 10 (43.5%) | 1.0 | |
| | 20-24 | 62 (69.7%) | 27 (30.3%) | 1.8 (0.7, 4.5) | |
| | 25-29 | 75 (64.1%) | 42 (35.9%) | 1.4 (0.6, 3.4) | |
| | 30-34 | 62 (72.1%) | 24 (27.9%) | 2 (0.8, 5.1) | |
| | ≥ 35 | 47 (58.0%) | 34 (42.0%) | 1.1 (0.4, 2.7) | |
| Age difference | ≤ 4 years | 81 (64.8%) | 44 (35.2%) | 1.0 | |
| g | 5-9 Years | 128 (66.3%) | 65 (33.7) | 1.1 (0.7, 1.7) | |
| | ≥10 years | 50 (64.1%) | 28 (35.9%) | 0.97 (0.5, 1.7) | |
| Residence | Rural | 248 (66.1%) | 127 (33.9%) | 1.8 (0.7, 4.3) | |
| residence | Urban | 11 (52.4%) | 10 (47.6%) | 1.0 | |
| Marital status | | , | , , , | | |
| Marital status | Married Others | 250 (66.0%) 9 (52.9%) | 129 (34.0%) 8 (47.1%) | 1.0 | |
| | | , | · · · | 0.6 (0.2, 1.5) | |
| Occupational | Housewife | 136 (77.3%) | 40 (22.7%) | 1.0 | |
| status of the | Farmer | 116 (57.1%) | 87 (42.9%) | 0.4 (0.3, 0.6) | |
| mother | Others | 7 (41.2%) | 10 (58.8%) | 0.2 (0.07, 0.6) | |
| Husband | Gov't employee | 1 (12.5%) | 7 (87.5%) | 1.0 | |
| occupation | Farmer | 242 (67%) | 119 (33%) | 14.2 (12.05, 16.3) | |
| | Others | 12 (63.2%) | 7 (36.8%) | 12.0 (9.7, 14.3) | |
| Educational status | Unable to read & write | 223 (68.8%) | 101 (31.2%) | 2.5 (1.2, 5.2) | |
| of the mother | Read & write | 21 (52.5%) | 19 (47.5%) | 1.3 (0.5, 3.2) | |
| of the mother | Attended formal school | 15 (46.9%) | 17 (53.1%) | 1.0 | |
| Husband | Unable to read & write | 124 (63.9%) | 70 (36.1%) | 1.6 (0.7, 3.4) | |
| education | Read & write | 115 (70.1%) | 49 (29.9%) | 2.1 (0.9, 5) | |
| education | Attended formal school | 16 (53.1%) | 14(46.7%) | 1.0 | |
| F 9 . | < 270.8 Birr | 76 (76.8%) | 23 (23.2%) | 3.2 (1.7, 5.9) | |
| Family income | < 270.8 Birr 270.8-458 Birr | 66 (72.5%) | 25 (27.5%) | 2.5 (1.4, 4.7) | |
| | 458-812.5 Birr | 59 (62.1%) | 36 (37.9%) | 1.6 (0.9, 2.8) | |
| | >812.5% Birr | 48 (51.1%) | 46 (48.9%) | 1.0 | |
| No. of living | | 51 (63.0%) | 30 (37.0%) | 1.0 | |
| children | None | 41 (67.2%) | 20 (32.8%) | 1.2 (0.6, 2.4) | |
| cimui en | 1 2 | 43 (62.3%) | 26 (37.7%) | 0.97 (0.5, 1.9) | |
| | 3-5 | 102 (68.9%) | 46 (31.1%) | 1.3 (0.7, 2.3) | |
| | 5-3 6+ | 22 (59.5%) | 15 (40.5%) | 0.9 (0.4, 1.9) | |
| Dadia at kama | | | 72 (38.7%) | | |
| Radio at home | Yes No | 114 (61.3%) 145 (69%) | 65 (31%) | 1.0 1.4 (0.9, 2.1) | |
| Desigion makes | | 27 (76.5%) | 88 (23.5%) | 1.4 (0.9, 2.1) | |
| Decision maker | Self | 6 (88.5%) | 46 (11.5%) | 2.4 (0.9, 6.1) | |
| | Husband | 97 (49.5%) | 95 (50.5%) | 0.3 (0.2, 0.5) | |
| | Jointly Mother in law | 5 (71.4%) | 2 (28.6%) | 0.8 (0.1, 4.2) | |
| | Mother-in-law Others | 24 (82.8%) | 5 (17.2%) | 1.5 (0.5, 4.2) | |

Table 5: Obstetric and health service related factors affecting choice of place of delivery among pregnant women in Aneded Woreda, East Gojjam zone, Northwest Ethiopia, 2011.

| Choice of place of delivery | | | | |
|--|--------------------|--------------|----------------------------|-------------------|
| Variable | Category | Home No. (%) | Health institution No. (%) | COR (95% CI) |
| Age at 1st pregnancy | < 20 years | 169 (65.8%) | 88 (34.2%) | 0.99 (0.6, 1.5) |
| | 20-29 | 89 (65.9%) | 46 (34.1%) | 1.0 |
| Parity | None | 48 (64.0%) | 27 (36.0%) | 1.0 |
| | 1 | 39 (68.4%) | 18 (31.6%) | 1.2 (0.6, 2.5) |
| | 2-4 | 109 (66.1%) | 56 (33.9%) | 1.1 (0.6, 1.9) |
| | 5+ | 63 (63.6%) | 36 (36.4%) | 0.98 (0.5, 1.8) |
| History of abortion | Yes | 38 (56.7%) | 29(43.3%) | 1.0 |
| | No | 221 (67.2%) | 108 (32.8%) | 1.6 (0.9, 2.7) |
| History of still birth | Yes | 17 (53.1%) | 15 (46.9%) | 1.0 |
| | No | 242 (66.5%) | 122 (33.5%) | 1.8 (0.9, 3.6) |
| ANC visit | Yes | 168 (57.9%) | 122 (42.1%) | 1.0 |
| | No | 91 (85.8%) | 15 (14.2%) | 4.4 (2.4, 8.0) |
| No. of ANC visits | <4 visits | 161 (59%) | 112 (41%) | 2.1 (0.8, 5.6) |
| | 4+ visits | 7 (41.2%) | 10 (58.8%) | 1.0 |
| Advice | Yes | 122 (51.7%) | 114 (48.3%) | 1.0 |
| | No | 46 (86.8%) | 7 (13.2%) | 6.1 (2.7, 14.2) |
| Previous complication | Yes | 83 (62.9%) | 49 (37.1%) | 1.0 |
| | No | 153 (67.7%) | 73 (32.3%) | 1.2 (0.8, 1.9) |
| Place of previous | Home | 207 (78.1%) | 58 (21.9%) | 22.2 (21.4, 23.0) |
| delivery | Health institution | 9 (13.8%) | 56 (86.2%) | 1.0 |
| Distance | ≤ 30 minutes | 69 (53.5%) | 60 (46.5%) | 1.0 |
| | 31-60 minutes | 97 (65.1%) | 52 (34.9%) | 1.6 (1.001, 2.6) |
| | >1 hr | 91 (79.1%) | 24 (20.9%) | 3.3 (1.9, 5.8) |
| Cost of the services/ affordability | Yes | 60 (71.4%) | 24 (28.6%) | 1.4 (0.8, 2.4) |
| arror dability | No | 199 (63.8%) | 113 (36.2%) | 1.0 |

5.5 Predictors of choice of place of delivery

All the significant independent variables in a bivariate analysis were entered together in a multivariable logistic regression using backward method to determine final predictors of choice of place of delivery controlling for potential confounders. Accordingly; monthly family income, ANC visit, place of previous delivery, decision maker and distance from the nearby health facility were independent predictors of women's choice of place of delivery.

In this study women whose average monthly family income was in the 2nd income quartile (between 270.8 and 458 Birr) were two and half times more likely to choose home delivery as compared to women who were in the highest income quartile (> 812.5 Birr) (OR: 2.54: 95% CI: 1.026, 6.3).

A health officer from Jama health center mentioned, "Most of them think that the delivery service is expensive and women may choose to deliver at home for fear of extra charges ... actually it is free."

A 35 years old man from Woreda health office remarked, "... Women who are poor may give priority for household expenses than their health and prefer to deliver there (home). It is true since some women in rural areas don't know the service is free".

Based on the study finding, women who didn't visit the health facility for ANC during the current pregnancy were 3.8 times more likely to choose home delivery as compared to women who made at least 1 ANC visit (OR:3.8: 95% CI = 1.7, 8.7).

A nurse from Aneded health center remarked, "...During ANC we give advice on the advantage of institutional delivery and recommend them to deliver in the health center... and most of them come to deliver here (health center)."

Place of previous delivery was a significant predictor of women's choice of place of delivery for the current pregnancy. Women who delivered their previous child at home were more likely to choose home delivery compared to women who delivered their previous child in the health institution (OR: 23.8: 95% CI: 22.8, 24.8).

A 25 years old woman from Adisge kebele stated, "...I delivered my younger child here (home) easily. Why I need to go now? (Questioning)...I don't know about the importance of delivering there (health institution).

A health extension worker from Zinkir Mele kebele remarked, "If a woman delivered at home previously with no complications, for sure she will prefer home. She thinks 'everything is ok' and she will deliver like the previous one."

This study found that women whose husbands made final decision to choose place of delivery were five times more likely to choose to deliver at home compared to women who made the decision by themselves (OR: 5.1: 95% CI: 1.2, 22.5) and women who made decision jointly with their husbands were 70% less likely to choose home delivery than women who made decision by themselves (OR: 0.3: 95% CI: 0.2, 0.7).

Urban health extension worker from Amber kebele stated, "Husbands want their wives to stay at home ... women can't choose place of delivery by themselves and want to deliver at home to avoid quarreling with husbands."

A 32 year old man from Jama kebele stated, "We should ask how much husbands respect the will of their wives... there are husbands who don't want their wives to go to the health center... those who discuss and made decisions together will benefit. But most of the time women don't discuss with their husbands and decisions are made by husbands."

Distance from the nearby health facility was also another health service related predictor of choice of place of delivery. In this study increased distance from the nearby health facility was found to be associated with preference of home delivery.

Women travelling half an hour to an hour walking distance to reach to the nearby health facility were 2.9 times more likely to prefer home delivery than women travelling \leq half an hour walking distance to reach to the nearby health facility (OR: 2.9: 95% CI: 1.3, 6.1) and women travelling greater than an hour walking distance to reach to the nearby health facility were 3.8 times more likely to prefer home delivery than women who travel \leq half an hour walking distance to reach to the nearby health facility (OR: 3.8, 95% CI: 1.7, 8.8) (Table 6).

A 30 years old woman from Jama kebele said, "...Labour is urgent. Here is no one to carry me there (health center). How can I reach there? (Questioning) I don't want to deliver my child on the road."

A health officer from Jama health center remarked, "...there is no transport service in the kebele... if a mother in labour wants to come to the health center, she need help to be carried to the health center. Because of this she prefers to deliver at home."

Table 6: Multivariable logistic regression showing independent predictors of choice of place of delivery among pregnant women in Aneded Woreda, East Gojjam zone, Northwest Ethiopia, 2011.

| Variable | Home No. (%) | Health Institution No. (%) | COR (95%CI) | AOR (95%CI) |
|--------------------------------------|--------------|-------------------------------|------------------|------------------|
| Income | | | | |
| <270.8 (lowest quartile) | 76 (76.8%) | 23 (23.2%) | 3.2 (1.7, 5.9) | 2.5 (0.9, 6.3) |
| 270.8-458 (2 nd quartile) | 66 (72.5%) | 25 (27.5%) | 2.5 (1.37, 4.67) | 2.5 (1.026, 6.3) |
| 458-812.5 | 59 (62.1%) | 36 (37.9%) | 1.6 (0.9, 2.8) | 1.3 (0.6, 2.9) |
| >812.5 (Upper quartile) | 48 (51.1%) | 46 (48.9%) | 1.0 | 1.0 |
| ANC visit | | | | |
| Yes | 168 (57.9%) | 122 (42.1%) | 1.0 | 1.0 |
| No | 91 (85.8%) | 15 (14.2%) | 4.4 (2.4, 8.0) | 3.8 (1.7, 8.7) |
| Place of previous delivery | | | | |
| Home | 207 (78.1%) | 58 (21.9%) | 22.2(10.4,47.6) | 23.8(22.8, 24.8) |
| Health institution | 9 (13.8%) | 56 (86.2%) | 1.0 | 1.0 |
| Final decision maker | | | | |
| Myself | 88 (76.5%) | 27 (23.5%) | 1.0 | 1.0 |
| My husband | 46 (88.5%) | 6 (11.5%) | 2.4 (0.9, 6.1) | 5.1 (1.2, 22.5) |
| Both I & my husband | 97 (49.5%) | 95 (50.5%) | 0.3 (0.2, 0.5) | 0.3 (0.2, 0.7) |
| Mother-in-law | 5 (71.4%) | 2 (28.6%) | 0.8 (0.1, 4.2) | 0.3 (0.02, 3.1) |
| Others | 24 (82.8%) | 5 (17.2%) | 1.5 (0.5, 4.2) | 0.7 (0.2, 3.1) |
| Distance | | | | |
| ≤ 30 minutes | 69 (53.5%) | 60 (46.5%) | 1.0 | 1.0 |
| ½-1hr | 97 (65.1%) | 52 (34.9%) | 1.6 (1.001,2.6) | 2.9 (1.3, 6.1) |
| >1hr | 91 (79.1%) | 24 (20.9%) | 3.3 (1.9, 5.8) | 3.8 (1.7, 8.8) |

Chapter Six: Discussion

In this study 65.4% of study participants chose home delivery while the rest 34.6% chose institutional delivery. This finding is comparable with a study conducted in Northern Nigeria of whom 71.8% chose home delivery (23) but higher compared to a study conducted in Nepal which is 49.4% (22). This difference may be due to the difference in the time since the above study is conducted and the difference in study population.

The results of the present study revealed that women's choice of place of delivery is significantly influenced by their level of average monthly family income. Women whose average monthly family income was in the 2nd income quartile (between 270.8 and 458 Birr) were 2.5 times more likely to choose home delivery compared to women who were in the highest income quartile (> 812.5 Birr). This finding is in line with similar studies conducted in India and Western Kenya (19,29). This may be because in situations where income is low women always face trouble to allocate little money for different necessities of daily life. Therefore, they can't give enough attention to their health care need due to moenetary problems. Moreover, women's health is secondary issue and ignored by husbands in situations decision are made by husbands. Therefore, poor women don't get opportunity to use modern facilities for child delivery (37). This may be true in situations where women don't know the availability of free delivery services. This is also supported by the qualitative finding.

Consistent with studies conducted in West Bengal, Nepal and North Gondar (20-22), women who had antenatal care visit were more likely to prefer to deliver at health facilities than women who had no ANC visits. This may be because women who made ANC visits got advice to deliver in the health institution by health service providers and these may increase women's interest in delivering in the health institution. Majority (94.2%) of women who preferred to deliver in the health institution got advice during ANC visit while only 5.8% didn't get advice. This was evidenced from the qualitative finding.

A nurse from Aneded health center remarked, "...during ANC we give advice on the advantage of institutional delivery and recommend them to deliver in the health center... and most of them come to deliver here (health center)."

The study showed that previous home delivery was associated with choosing home delivery. Women who delivered their previous child at home were more likely to prefer home delivery for the current pregnancy as compared to women who delivered their previous child in the health institution. The finding is also comparable with study conducted in Zambia (35). This may be because women who previously delivered at home with no complications want to deliver at home like the previous one. This is apparent in rural areas such as Aneded Woreda where majority don't have information on pregnancy and delivery complications. This is also evidenced from the qualitative findings.

A health extension worker from Zinkir Mele kebele remarked, "If a woman delivered at home previously with no complications, for sure she will prefer home. She thinks 'everything is ok' and she will deliver like the previous one."

In this study women who decided place of delivery by themselves were more likely to choose to deliver in the health institution than when the decision was made by their husbands. Similarly women who made decision to choose the place of delivery jointly (together with their husbands) were more likely to prefer to deliver in the health institution than women who made decision by themselves. The finding is similar with studies conducted in North Gondar, Nigeria and West Bengal (1,20,21). This may be because women who made decision by themselves can go for ANC and will give concern for their own health. Joint decision is important to involve the husband and in situations where the husband is voluntary for institutional delivery the woman can be sure that he will accompany her to the health institution during labor. As a result, she will prefer to deliver in the health institution. This is also supported by the qualitative findings.

A 32 year old man from Jama kebele stated, "We should ask how much husbands respect the will of their wives... There are husbands who don't want their wives to go to the health center... Those who discuss and made decisions together will benefit. But most of the time women don't discuss with their husbands and decisions are made by husbands."

Choice of place of delivery was highly influenced by distance from the nearby health facility. The preference of home delivery increases with an increase in the distance. Women walking long distances were more likely to prefer home to deliver their next child compared to women walking half an hour or less on foot. These finding is similar with

studies conducted in Nepal and Western Kenya (22,29). However, a study conducted in West Bengal showed that place of delivery wasn't significantly associated with distance from the nearby health facility (20). This may be because of the different level of economic development between West Bengal and the study area.

Apart from the above factors some group level, cultural and health service related (such as quality of the services provided) factors which weren't included in this particular study may have an influence on women's choice of place of delivery.

Strengths of the study

Using qualitative data for triangulation and randomly approaching pregnant women despite they are widely dispersed were strengths of this particular research.

Limitation of the study

Values, beliefs and culture of the community and health service related factors (such as quality of the service provided) which may affect women's choice of place of delivery were not studied.

Chapter Seven: Conclusion and recommendations

7.1. Conclusion

The study showed that small proportion (34.5%) of pregnant women planned to deliver in the health institution. They mentioned: "it is my usual practice", "I get close attention from relatives and family" and "I feel more comfortable giving birth at home" as their reason to choose home delivery. Nearly three quarter of the pregnant women attended at least one ANC visit during the current pregnancy.

The study also identified factors associated with choice of place of delivery. Predictors of choice of place of delivery were ANC visit, average monthly family income, place of previous delivery, decision maker and distance from the nearby health facility.

Decision maker (when made by husbands), family income (between 270.8 & 458), ANC visit during the current pregnancy (not attending ANC visit), distance from the nearby health facility (being far from health facilities), place of previous delivery (home) were associated with a preference by pregnant women to deliver at home.

7.2 Recommendation

Based on the study findings the following recommendations are suggested:

To governmental & non-governmental organizations working on MCH

 They should consider and practice inter-sectoral partnership with professional associations, Ministry of Labour and Social Affairs (MOLSA), women's association, and other concerned bodies to design strategies for improving women's choice of institutional delivery.

To Zonal Health Department

- Work to increase choice of institutional delivery in the Woreda by improving the utilization of ANC service.
- Focus on increasing accessibility of the health service in the woreda through construction of health centers together with other concerned bodies.

To Health Care Providers and Counselors

• ANC providers should use the opportunity to promote institutional delivery

To Researchers

 Further studies which include variables not considered in this study are recommended.

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Annex I: Proportional to size allocation of the sample size

Table 7: Proportional to size allocation of sample size in each selected kebele in Aneded Woreda, East Gojjam Zone, North West Ethiopia, 2011.

| Ser. | Kebele | Kebele | Total no. of pregnant | Required sample |
|--------------|-----------------|--------|-----------------------|-----------------|
| N <u>o</u> . | | code | women in the kebele | (n) |
| 1 | Jama | K1 | 195 | 110 |
| 2 | Zinkir Mele | K2 | 107 | 60 |
| 3 | Adisge Yegora | K3 | 64 | 36 |
| 4 | Genetua | K4 | 53 | 30 |
| 5 | Zengoba Denguma | K5 | 53 | 30 |
| 6 | Chendefo | K6 | 52 | 29 |
| 7 | Misleawash | K7 | 55 | 31 |
| 8 | Daget Yegeleka | K8 | 27 | 15 |
| 9 | Gudalma | K9 | 100 | 56 |
| 10 | Amber | K10 | 44 | 25 |
| Total | 1 | | 750 | 422 |

Annex II: Questionnaires

1. English questionnaire

Introduction Good morning/afternoon, my name is and I am part of a team carrying out a study on women's choice of place of delivery and associated factors in Aneded woreda. The principal investigator is a student from Jimma University in the department of population and family health; attending masters program in reproductive health since 2002. Accordingly the principal investigator currently would like to conduct a study on women's choice of place of delivery and associated factors as partial fulfillment of master's degree in reproductive health. The purpose of this study is to identify women's choice of place of delivery for the current pregnancy and different factors which affect women's choice of place of delivery for the current pregnancy. Consequently the study provides information needed to guide local health managers in order to improve maternal and child health. All pregnant women in this woreda will be included in the study based on chance and you are included in the study by chance only. If you participate in the study, it will not take us more than 20 minutes. Your name will not be written on this form, thus the information you provide will not be known to others. Confidentiality of the data will be maintained by the research team. Your participation is purely voluntary, and you can withdraw any time after you get involved in the study. However, we hope that you will participate in this study since your views are important to achieve the objective of the study. Do you have any question? Now please tell me if you agree to participate in the interview. The participant: Agreed------End interview. Did not agree! Thank you! ------End interview. Starting time : End time :: 001. How long you have been living here? 002. One year and more 2. Less than 1 year ----: **Go to next house** Questionnaire Code ______. Signature of interviewer which indicates that the respondent has consented to participate in the study:-

Interviewer name: Date: Signature

Supervisor name: Signature

Part I. Socio-demographic factors

| Sr. No. | Questions | Choice answers | Skip to Q <u>n</u> No |
|------------|--------------------------|------------------------|--------------------------|
| 101 | Age | In completed years | |
| 102 | Age of your husband | In completed years | |
| 103 | Residence | 1. Rural | |
| | | 2. Urban | |
| 104 | Marital status | 1. Married | |
| | | 2. Divorced | |
| | | 3. Widowed | |
| | | 4. Single | |
| 105 | Religion | 1. Orthodox | |
| | | 2. Protestant | |
| | | 3. Muslim | |
| | | 4. Other, specify88 | |
| 106 | Occupation of the mother | 1. House wife | |
| | | 2. Farmer | |
| | | 3. Government Employee | |
| | | 4. Private Employee | |
| | | 5. Merchant | |
| | | 6. Daily laborer | |
| | | 7. Other, specify88 | |

| 107 | Husbands occupation | 1. Farmer |
|-----|--------------------------------------|-------------------------------|
| | | 2. Government employee |
| | | 3. Private employee |
| | | 4. Merchant |
| | | 5. Daily laborer |
| | | 6. Other, specify88 |
| 108 | Educational Status of the mother? | Unable to read and write |
| | | 2. Read and write |
| | | 3. Primary education (1-8) |
| | | 4. Secondary education (9-12) |
| | | 5. 12+ |
| 109 | Husbands educational Status | Unable to read and write |
| | | 2. Read & write |
| | | 3. Primary education (1-8) |
| | | 4. Secondary education (9-12) |
| | | 5. 12+ |
| 110 | Average monthly family income | In birr |
| 111 | Annual household income | In birr |
| 112 | Family size | In number |
| 113 | Number of living children | In number |
| 114 | Did you own a radio at home? | 1. Yes |
| | | 2. No |
| 115 | Who will finally made decision about | 1. Myself |
| | delivery place? | 2. My husband |
| | | 3. Both me & my husband |
| | | |

| 4. My mother in law |
|---------------------|
| 5. Others, specify |
| 88 |

Part II. Obstetric history

| 201 | Age at first pregnancy | In completed years | |
|-----|--|------------------------------------|-----------------------|
| 202 | Total number of births (parity) | In numbers | |
| 203 | Did you have abortion before? | 1. Yes | Skip to Q. No. 205 |
| | | 2. No | |
| 204 | Number of abortions | In numbers | |
| 205 | Did you have still birth before? | 1. Yes | Skip to Q. |
| | | 2. No | No. 207 |
| 206 | Number of still births | In numbers | |
| 207 | Did you have any complications during | 1. Yes | Skip to Q |
| | the previous pregnancies/deliveries? (for women with >1 pregnancy) | 2. No | No.212 |
| 208 | What was/were the complication/s you | 1. Severe vaginal bleeding | |
| | encountered? | 2. Severe headache | |
| | | 3. Fast & marked weight gain | |
| | | 4. Prolonged labour (>12 hours) | |
| | | 5. Retained placenta (>30 minutes) | |
| | | 6. Others; specify88 | |
| 209 | Gestational age in weeks | Weeks. | |

Part III. Questions related to the current pregnancy

| 301 | Have you started ANC visit during the current pregnancy? How many visits have you have since you started? | 1. Yes 2. No ——————————————————————————————————— | Skip to Q. No. 210 |
|-----|--|--|--------------------------|
| 303 | During ANC follow up, did you get advice from health professionals to deliver in the health institution? | 1. Yes 2. No | |
| 304 | Where do you prefer to deliver? | 1. Home 2. Health facility | Skip to Q. 303 |
| 305 | If Home, why did you prefer to deliver at home? | I feel more comfortable giving birth at home Close attention from my relatives and family Because it is my usual practice I have bad experience in giving birth in health facilities Unwelcoming approach of health workers in health facilities The health facility is too far from my house Lack of money for transport Influenced by my husband not to go to health facilities No one to care for the family. Others reasons, specify | |

| 306 | If your answer to 301 is | 1. ′ | To get better services in health facilities | |
|-----|--|------|---|--|
| | health facility, why did you choose to deliver in Health facility? | | To get better outcomes from health facilities to me & my baby | |
| | | 3. | Bad experience from past home delivery | |
| | | 4. | I was informed to deliver in health facilities | |
| | | 5. | The health facility closer to my home | |
| | | 6. | Others, specify88 | |
| 307 | Where did you deliver | 1. | Home | |
| | your previous child? (For those who had previous | 2. | Health institution | |
| | delivery) | | | |

Part IV. Questions related to knowledge on pregnancy and delivery

| 401 | Which of the following pregnancy and delivery related | | ANC services | |
|-----|---|----|---|--|
| | services are given in health facilities? | | Delivery services | |
| | Tuestico I | | PNC services Provention of delivery complications | |
| | | | Prevention of delivery complications Managing delivery complications | |
| | | | Managing delivery complications | |
| | | 6. | Managing health problem of the new born & immunization | |
| | | 7. | PMTCT | |
| | | 8. | Others, specify88 | |
| 402 | What do you think is/are | 1. | For anticipating problems | |
| | advantage/s of pregnancy and delivery related services? | 2. | For early detection of health Problems | |
| | | 3. | For appropriate management of health problems | |
| | | 4. | For better health care to the women & newborn | |
| | | 5. | Others Specify88 | |

| 403 | What complications do you | 1. Vaginal bleeding |
|-----|--|--|
| | know that can occur during pregnancy & delivery? | 2. Severe headache |
| | | 3. Severe abdominal pain |
| | | 4. Amniotic fluid leakage |
| | | 5. Loss of consciousness |
| | | 6. Increased blood pressure |
| | | 7. Others, specify88 |
| 404 | Who are susceptible for | Every mother including me |
| | pregnancy and delivery complications? | 2. Primi-mothers |
| | | 3. Multi gravida mothers (5 and more) |
| | | 4. Mothers with multiple pregnancy |
| | | 5. Mothers with other medical problems |
| | | 6. Others, specify 88 |

Part VI. Questions related to health service

| 501 | Distance from the nearby health facility? | In minutes |
|-----|---|---|
| 502 | What do you use to go to the health facility? | Nothing/on foot Horse back |
| | | 3. Cart 4. Car |
| 503 | Do you think the cost of care for ANC & | 1. Yes |
| | delivery services/time it takes is a great problem for you to get these services? | 2. No |

Thank you!!

2. In-depth interview guide

Good morning/afternoon! Thank you for coming.

My name is------ "After we conduct some brief introduction, we will be talking about several issues. We will discuss about your overall experience with the delivery services in your locality and questions related to preferences to place of delivery and influencing factors.

Name of the interviewer: ------ Sign------ Date------ Time-----

Preparation

Topic: Perception of preferences to place of delivery and influencing factors

Key informants: Women who are currently pregnant, husbands, religious & community leaders and health professionals.

Objective:

To explore the community's understanding and perceptions and preference to place of delivery in Aneded woreda

To assess factors affecting choice of delivery place

Description of the Interview

The participant and the interviewer will sit around a table (face to face) for the discussion. The interviewer will begin the session by introducing himself and explaining the purpose of the interview. The interview will last about 30 to 45 minutes.

Ground rules

I. Confidentiality

Any information collected here will be kept confidential (**Inform to the participant**).

II. Consent for tape-recording

For the sake of accuracy and efficiency, we will take notes and tape recording these sessions, unless you have any objections." After the recorded information is copied to notes the cassette will be broken and destroyed to keep confidentiality of your information.

Role of interviewer

The interviewer will not give any indication (verbal or physical) that would encourage certain types of comments or discourage other types of comments.

Topics of the interview guide

Introduction

At this point, we would like to ask you to introduce yourself.

You can start with (age, education status and how long you have lived in this area and your job.)

Theme1. Choice of place of delivery

- 1. Where do you think is the best place for a mother to deliver a child? Why?
 - *Probes*: Would you explain further?/an example?/similar experience? /anything else?
 - "How did you feel about . . .?"
 - "What do you mean when you say . . .?"

Theme2. Factors influencing choice of place of delivery

1. Why do mothers usually give birth at Home?

Probes: Would you explain further?/an example?/similar experience? /anything else

2. What are advantages and disadvantages? (For community representatives only)

Would you explain further? /an example / Similar experience? / Anything else?

- 3. What are the advantages of giving birth in a HIs? (For community representatives only)
 - Would you explain further? Do you have similar experience?
- 4. Why do mothers usually do not give birth in HIs?
 - An example/ similar experience
- 5. What is the preference of the community about the place of delivery?
 - Can you explain more please?

Are there any issues, questions, comments that you would like to raise or points you wanted to add?

"Thank You!!"

| • | A 1 | | 4 • | • |
|----|-----|-------|----------|-------|
| 3. | Am | haric | question | naire |

ጅጣ ዩኒቨርሲቲ ህክምናና ጤና ሳይንስ ኮሌጅ

የሕብረተሰብና ቤተሰብ ጤና ትምህርት ክፍል

መፅቢÁ

ስሰሆነም የመመረቂያ ጥናታዊ ፅሁፋቸዉን እናቶች ልጆቻቸዉን የት ለመዉሰድ እንደሚመርጡና በምርጫቸዉ ላይ ተፅዕኖ ሲያደርጉ በሚችሉ ምክንያቶች ላይ ለመስራት ይፌል*ጋ*ሉ፡፡

የጥናቱ ዋና አላማ እናቶች ልጆቻቸዉን የት ለመዉለድ እንደሚመርጡና በምርጫቸዉ ላይ ተፅዕኖ ሲያደርጉ የሚችሉ ምክንያቶችን ለይቶ ለማዉጣት/ለማወቅ ሲሆን ጥናቱ ለአካባቢዉ ባለስልጣናት እንዲሁም የጤና ሀላፊዎች የእናቶችንና ህፃናትን ጤና ለማሻሻል መረጃ ይሰጣል።

በቀበሴ¬ ¾ሚÑኑ ነፍስ-Ö·C እናቶች በሙሉ በእጣ ብቻ በጥናቱ ዉስጥ የሚካተቱ ሲሆን እርስ- ም በጥናቱ ዉስጥ የተካተቱት በእጣ ነዉ። ይህ መጠይቅ ቤተሰባዊና ማህበራዊ ነክ፤ የቅድመ ወሲድ ክትትል፤ የወሊድ አገልግሎትና ሴሎች ተያያዥ ሁኔታዎችን የሚዳስሱ ጥያቄዎችን ያጠቃልላል።በጥናቱ ቢሳተፉ ከ20 ደቂቃ በላይ አይወስድብዎትም።

እርስዎ የሚሰጡን ማንኛዉም መረጃ ምስጢራዊነቱ ሙሉ በሙሉ የተጠበቀ ነዉ። ስለሆነም የእርስዎን ማንነት ለመለየት የሚያገለግሉ መረጃዎችን ለምሳሌ ስምዎትን መጥቀስ አይጠበቅብዎትም። የሚያደርጉት ተሳትፎ በእርስዎ ፌቃደኝነት ላይ የተመሰረተ ሲሆን መጠይቁን ከጀመሩ በኃላ በማንኛዉም ሰዓት ማቋረጥ ይችላሉ። ይሁን እንጅ እርስዎ የሚሰጡን መረጃ ጥናቱ ግቡን እንዲመታ ስለሚረዳ ይሳተፋሉ ብለን እናምናለን። በዚህ ጥናት ዉስጥ የእርስዎ ተሳትፎ ይበረታታል። ጥያቄ አለዎት?

የዚህ ጥናት ዓላማ ተነቦልኝ (አንብቤዉ) እና ዓላማዉ ንብቶኝ በጥናቱ ለመሳተፍ:

የመረጃዉን ጥራት የተቆጣጠረዉ ሰዉ ስም------ ò ርማ------ ò ርማ------

| ህ. ð ቃÅኛ ሆ ኖስ ሁ ለ. ð ቃÅኛ አይደስሁም። አመስግናስሁ! ───→ወደሚቀጥስዉ ቤት ÃሂÆ ። |
|--|
| 001. በዚህ ቀበሌ ለምን ያህል ጊዜ ቆይተሻል? |
| 1. አንድ አመትና ከዚያ በላይ 2. ከአንድ አመት በታች ────→ ወደሚቀጥለዉ ቤት ይሂዱ ። መÖÃቁ የተጀመረበት ሰዓት፡: ያለቀበት ሰዓት፡ |
| 002.¾ቃለ መÖÃቀ hÉ |
| ቃስ-መጠይቁን ያደረገዉ |
| መረጃዉን ¾ስበሰበ¬ ሰ¬ ስምመረጃዉ የተሰበሰበበት ቀን፡ ò ርማ |
| |

ክፍል 1. አጠቃላይ ማህበራዊ ነክ ጉዳዮችን የሚዳስሱ ጥያቄዎች

| ተ.ቁ | <i>ጥያቂዎች</i> | አጣራጭ መልሶች | ወÅ Ø.ቁ. Ä ሰ ñ |
|-----|----------------------|---------------------------------|----------------------|
| 101 | እÉ ማ | በአመት | |
| 102 | የባለቤትሽ እÉ <i>ሜ</i> | በአመት | |
| 103 | የመኖሪያ አድራሻ | 1. NO C | |
| | | 2. ከተማ | |
| | | 1. ያንባች (አሁን አብረዉ የሚኖሩ) | |
| 104 | የ <i>ኃ</i> ብቻ ሁኔታ | 2. ከባሏ የተፋታች | |
| | | 3. ባሏ የሞተባት | |
| | | 4. <i>ያ</i> ላንባች (አግብታ• ¾ግታ¬ ቅ) | |
| | | 5. በ3ደኝነት የሚኖሩ | |
| | | 1. ኦርቶዶክስ | |
| 105 | የየትኛ¬ ሀይማኖት ተከታይ ነሽ? | 2. ፕሮቴስታንት | |
| | | 3. <i>ወ</i> ኮስሊም | |
| | | 4. ሌላ፤ÃØቀሱ88 | |
| | | 1. የቤት እመቤት | |
| 106 | የስራ ሁኔታ | 2. | |
| | | 3. የመንግስት ሰራተኛ | |
| | | 4. የግል ድርጅት ሰራተኛ | |
| | | 5. 1,2%。 | |
| | | 6. የቀን ስራተኛ | |
| | | 7. ሌላ፤ÃØቀሱ88 | |
| | | 1. አርሶ አደር | |
| 107 | የባለቤትዎ የስራ ሁኔታ | 2. የመንግስት ሰራተኛ | |
| | | 3. የግል ድርጅት ስራተኛ | |
| | | 4. ነ <i>ጋዩ</i> 。 | |
| | | 5. የቀን ሰራተኛ | |
| | | 6. ሌላ፤ÃØቀሱ88 | |
| | | | |
| | | | |
| | | | |

| | | 1. ማንበብና መፃፍ የጣትችል |
|-----|---|-----------------------|
| 108 | የትምህርት ደረጃዎ | 2. ማንበብና መፃፍ የምትችል |
| | | 3. ¾συΕσυζΑ ÅΔπ (1-8) |
| | | 4. ሁስተኛ Åረጽ (9-12) |
| | | 5. 12+ |
| | | 1. ማንበብና መፃፍ የማይችል |
| 109 | የባለቤትዎ የትምህርት ደረጃ | 2. ማንበብና መፃፍ የሚችል |
| | | 3. ¾ΦΕσοδΑ ÅΔΥ (1-8) |
| | | 4. ሁስተኛ Åረጽ (9-12) |
| | | 5. 12+ |
| 110 | የቤተሰቡ አማካኝ የወር <i>ገ</i> ቢ | NAC |
| 111 | የቤተሰቡ አ <i>መታዊ</i> እሽ | NAC |
| 112 | <u> </u> | Π¢∅ <i>C</i> |
| 113 | ስንት ልጆች አሉሽ? (በህይወት ያሉትን ብቻ) | Π¢∅ C |
| | | 1. GÉÁ |
| 114 | የሚጠቀሙት የመረጃ ምንጭ | 2. ቴሌቭኘርን |
| | | 3. ሌላ፤ÃØቀሱ88 |
| 115 | ልጅሽን የምትወልጅበትን ቦታ | 1. እ'ኔ |
| | የመጨረሻ ዉሳኔ የሚወስነዉ ማን ነዉ? | 2. ባለቤ-ቴ |
| | | 3. እኔና ባለቤቱ በጋራ |
| | | 4. የባለቤቴ እናት |
| | | 5. ሴሎች ሰዎች፤ ይጥቀሱ88 |

ክፍል 2. ከወሊድ *ጋ*ር የተያያዙ ጥያቄዎች

| 201 | የመጀመሪያ ልጅሽን በስንት አመትሽ አረገዝሽ? | በአመት | |
|-----|--|-----------------------|------------------|
| 202 | ስንት ልጆች ወልደዋል (በህይወት የሴሎትንም ይጨምራል፡ 28 ሳምንትና ከዚያ በላይ ሆኖት ¾ተወሰÅ)? | Ո中Ø <i>C</i> | |
| 203 | ê ንስ የጣቋረጥ ችግር/¬ ርጽ ኢጋጥሞሻል? | 1. አዎ 2. አይደስም — • | のÅ ØÁቴ 株. 205 |

| 204 | ስንት ጊዜ አ,ንዋሞሻል? | Ո¢Ø C | |
|-----|--|---|--------------------------------|
| 205 | ከዚህ በፊት ሞቶ የተወሰደ ልጅ አ <i>ጋ</i> ጥሞሻል? | 1. አዎ 2. አይደለም — • | ክሌለ፡ወደ ጥያቄ ቁ. 207 |
| 206 | ስንት ጊዜ አጋጥሞሻል? | ∩¢ØC | |
| 207 | ከዚህ በፊት በነበረዉ• እርግዝና/ ወሊÉ (ነለ) ወቅት <i>ያጋ</i> ጠመሽ ችግር ነበር? | 1. አ <i>ዎ</i> 2. አይደለም — • | አይደለም ከሆነ፡ ወÅ ØÁቄ ቁ. 212 |
| 207 | ያ ኃጠመሽ ችግር ምን ነበር? (ከአንድ በሳይ መልስ ይቻሳል።) | 1. ከፍተኛ ¾Åም መ፩ ሰስ 2. ከፍተኛ ¾ራስ ምታት 3. ፈጣንና ከፍተኛ የክብደት መጨመር 4. ምጥ ከጀመረ በኋላ ቶሎ አለመዉለድ (h12 ሰዓት በላይ መቆየት) 5. ¾Åንግዶ ልጅ ቶሎ አለመዉረድ (h30 Åቂቃ በላÅ) 6. ሌላ፤ ÃØቀሱ88 | |
| 208 | እርግዝናሽ ስንት ሳምንት ሆኖታል? | ሳምንት· | |

| 301 | ፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞ | 1. አዎ | ወÅ ØÁቴ ቴ. |
|-----|---|--|------------------------------|
| | 7.1 2 · · · · · · · · · · · · · · · · · · | 2. አይደለም ——— | 210 |
| 302 | የቅድመ ወሲድ ክትትል ካደረጉ፡ ስንት ጊዜ ሄደዋል? | በ¢∅ C | |
| 303 | በቅድመ ወሲድ ክትትል ወቅት በጤና ተቋም ዉስጥ መዉለድ እንዳለብሽ ከጤና ባለሙያ ምክር አግኝተሻል? | 1. አ <i>ዎ</i> 2. አይደለም | |
| 304 | የት መዉሰድ ትልልÑÁለሽ? | 1. ቤት 2. ጤና ተቋም → | ወÅ ØÅቄ ቁ 303 Ã ሰ ñ |
| 305 | ቤት መዉለድ የመረጥሽበት ምክንያት ምንድን ነዉ? | 1. ቤት ስወልድ የተሻለ ምቾት ስለሚሰማኝ 2. ቤተሰቦቼ/ዘመዶቼ በቅርብ ስለሚከታተሉኝ | |
| | (ከአንድ በሳይ መልስ ይቻሳል።) | 3. ሁሌም የምዎልደዉ ቤት ስለሆነ 4. ጤና ተቋጣት ዉስጥ መጥፎ ገጠመኝ ስላለኝ 5. የጤና ባለሙያዎች አቀራረብ ስለማይመቸኝ 6. በምኖርበት አካባቢ በቅርበት የጤና ተቋም | |

| | | ስለሌለ |
|-----|---|--|
| | | 7. ለትራንስፖርት የሚሆን ንንዘብ ሰለሌለኝ |
| | | 8. ባለቤቴ ጤና ተቋም ዉስጥ እንድወልድ ስለማÃ ð ቅÉ ልኝ |
| | | 9. የቤተሰቡን አባላት የሚንከባከብልኝ ስለሌለ |
| | | ሴሎች ምክንያቶች፤ይጥቀሱ88 |
| | | |
| | | |
| | | |
| 306 | ስጥያቄ ቁ. 301 መልስሽ ጤና | 1. በጤና ተቋማት የተሻለ አንልግሎት ስለማገኝ |
| | ተቋም ከሆነ፤ጤና ተቋም ለመዉለድ የፈለግሽበት ምክንያት ምንድን ነዉ? | 2. ለእኔም ሆነ ለል៌ የተሻለ ዉጤት ስሳለዉ |
| | (ከአንድ በሳይ መልስ ይቻሳል።) | 3. ከዚህ በፊት ቤት ስወልድ <i>መ</i> ዋፎ አ <i>ጋ</i> ጣሚ ስለነበረኝ |
| | | 4. |
| | | 5. ጤና ተቋሙ ለቤቱ ቅርብ ስለሆነ |
| | | 6. ሴላ ምክንያት፤ ይጥቀሱ88 |
| 307 | የመጨረሻ ልጅሽን የት ወሰድሽ? | 1. ቤት |
| | (ለወሰÆ እናቶች ብቻ) | 2. |
| L | | |

i õ ል 4. ስለ እርፅዝናና ወሲድ የእናቶችን አዉቀት የሚዳስሱ ጥያቄዎች

| 401 | በጤና ተቋማት ዉስጥ የሚሰጡ | 1. ¾Éመ ወሊÉ ክትትል አንልግሎት |
|-----|---|--|
| | እርግዝናና ወሊድን የተመለከቱ አገልገሎቶች የትኞቹ ናችዉ? | 2. የወሲድ አንልግሎት |
| | (ከአንድ በሳይ መልስ ይቻሳል።) | 3. ¾Éህረ ወሊድ አገልግሎት |
| | | 4. በእርግዝናና ወሲድ የሚመጡ ችግሮችን መከሳከል |
| | | 5. በእርግዝናና ወሲድ ለሚመጡ ችግሮች ህክምና መስጠት |
| | | 6. ለሚወለደዉ ህጻን ክትባት መስጠት/ማከም |
| | | 7. ኤች አይ ቪ ኤድስ ከእናት ወደ ልጅ እ <i>ንዳ</i> ይተላሰፍ <i>መ</i> ከላከል |
| | | 8. ሴሎች፤ ÃØቀሱ88 |
| | | |
| | | |

| 402 | በጤና ተቋማት ዉስጥ ለእናቶች በእርግዝናና በወሊድ ጊዜ ¾ሚሰÖ- አገልገሎቶች ምን ጥቅም ይሰጣሱ ብለ¬ Áስባሱ? (ከአንድ በላይ መልስ ይቻላል።) | | |
|-----|---|---|--|
| 403 | በእርግዝና ጊዜ ምን ምን ተያያዥ | 1. በማህጸን ጫፍ ክፍተኛ ¾Åም መõ ስስ | |
| 403 | የጤና ችግሮች ሲክሰቱ ይችሳሱ ብለ¬ Áስባሉ? | | |
| | (ክአንድ በሳይ መልስ ይቻሳል።) | 4. ፈጣንና ክፍተኛ የሆነ የክብደት መጨመር 5. ¾አንሽርት ዉሀ የመዉለጃ ጊዜ ሳይደርስ መፍሰስ 6. ራስን/ህሊናን መሳት 7. የደም ግፊት መጨመር 8. ሴሎች፤ ይጥቀሱ | |
| 404 | በ እርግዝናና በወ ሲድ ሰሚመጡ ተያያዥ የጤና ችግሮች የተ <i>ጋ</i> ሰጡ እናቶች የትኞቹ ናችዉ? (ከአንድ በ ሳይ መልስ ይቻሳል ።) | | |

j õ ል 5. የጤና *አገልግሎትን የሚዳ*ስሱ ጥ*ያቄዎ*ች

| 501 | ከቤትዎ በቅርበት ካለዉ የጤና ተቋም ለመድረስ የሚወስደዉ ሰዓት | በÅቲቃ |
|-----|---|---|
| 502 | በአቅራቢያዎ ካለዉ የጤና ተቋም ለመሄድ የሚጠቀሙት የመጓጓዣ አይነት | 1. ምንም አልጠቀምም/በእፅር 2. የ ጋጣ ከብት 3. |
| 503 | የቅድመ ወሲድና የወሲድ አገልግሎት ሰማፅኘት የአገልግሎት ክፍያ¬ /አገልግሎቱን ለማግኘት ¾ሚÖó¬ №, እንቅፋት ሲሆንብኝ ይችላል ብለዉ Áስባሉ? | |

አ*መ*ሰማናስሁ!!

2. የዉይይት መምሪያ

ጤና ይስጥልኝ! *እን*ደምን አደሩ/ዋለ! ስለመጡ *እናመ*ሰግናለን፡፡

በመቀÖል እናቶች ልጆቻቸዉን የት መዉለድ እንደሚፈልጉና በምርጫቸዉ ላይ ተî እኖ ሊያደርጉባቸዉ በሚችሉ ምክንያቶች ላይ ዉይይት እናደርጋለን፡፡

መጠይቁን ያደረገዉ ሰዉ ስም፡ ------ስያት ---- ቀን ------ ሰዓት ----

አርዕስት፡ ¾እናቶች ምርጫና ተፅእኖ የሚያደርጉ ምክንያቶች በተመለከተ ያላቸዉ አመለካከት

¾ ÃÃ**ቱ ተሳታዕዎች**፡ ነፈሰ-Ö·ር እናቶችና ባሎቻቸዉ፣ የማህበረሰብ *መሪዎ*ችና የጤና ባለሙያዎች፡፡

የዉይይቱ አሳማ

- እናቶች ልጆቻቸዉን የት መዉለድ እንዳለባቸዉ የማህበረሰቡን አመለካከት ማወቅ
- በእናቶች ምርጫ ላይ ተî እኖ ¾ሚያደርጉ ምክንያቶችን መሰየት ስለ¬ ÃÃቱ Ñhí
- ተጠያቂዉና ቃስ-መጠይቁን የሚያደርገዉ ሰዉ ለዉይይት ፊት ለፊት ይቀመጣሉ። ቃስ-መጠይቁን የሚያደርገዉ ሰዉ ራሱን በማስተዋወቅ ዉይይቱን ይጀምራል። ዉይይቱ ከ30-45 ደቂቃ ሊወስድ ይችላል።

የዉይይቱ *መርሆዎች*

L*ሚ*ስጥር ጠባቂነት

ከዉይይቱ የሚገኝ ማንኛዉም መረጃ ሚስጥራዊነቱ የተጠበቀ ነዉ። ስለሆነም የተጠያቂዉ ስምና አድራሻ መጠቀስ የለበትም። (**ለተጠያቂዉ በግልፅ መነገር አለበት**)

II. <u>ዉይይቱን በቴፕ ለመቅዳት ተÖÁቂ¬ ፅቃÅኛ መሆኑን መጠየቅና ማስፈቀድ</u>

ጊዜያችንን በአግብቡ ለመጠቀምና ያደረግነዉን ዉይይት ለመመዝንብ እንዲረዳኝ <u>ዕቃ</u>Åኛ ከሆኑ መቅረነ -ዴምጹን አጠቀማስሁ። ጎን ለጎንም ማስታወሽ አóስሁ። ¾ተቀረነ – Éምê ወÅ ማስታወሻ ከተገለበጠ በኋላ ካሴቱ ተሰብሮ ይጣላል። ይህም የሚደረገዉ ከአርስ- ÁÑነነዉ መረጃ ሚስጥራዊነቱ እንዲጠበቅ ነዉ።

<u>ቃስ-መጠይቁን የሚያደርገዉ ሰዉ ጎላፊነት</u>

ቃስ-መጠይቁን የሚያደርገዉ ስዉ ተጠያቂዉ ለሚሰጠዉ መልስ የሚያበረታታ ወይም የሚነቅፍ ምልክት በቃልም ሆነ በአካል ምልክት መስጠት የለበትም።

የመወያያ አርእስቶች

መፅቢÁ

በመጀመሪያ ስለራስዎ ትንሽ ገለጻ በማድረግ ዉይይቱን እንጀምር። እድሜዎትን፣ የትምህርት ደረጃዎትን ፣ የስራ ሁኔታዎትንና ለምን ያህል ጊዜ በአካባቢዉ እንደቆዩ በመግለጽ ይጀምሩ።

አንደኛ **ሃ**መወÁÁ ርእስ፡ እናቶች ልጆቻቸዉን የት ለመዉለድ ይፈል*ጋ*ሉ?

- 1. እናቶች ልጆቻቸዉን ለመዉለድ የተሻለ ቦታ የት ነዉ ብለዉ ያስባሉ? ለምን?
 - ተ**ሬ ጣሪ ጣብራሪÁ**፡ ¾በለÖ ሲÁብራሩልኝ ይችላሉ? ተመሳሳይ ተሞክሮ አለዎት/ Á¬ ቃሉ?
 - ምን ተሰ*ማዎት*.....?
 - ምን ሰማለት ፈልገዉ ነዉ? ግልጽ ቢያደርጉልኝ?

ሁስተኛ <u>የመወ</u>ÁÁ ርእስ፡ በእናቶች ምርÝ ላÃ ተê እኖ የሚያደርጉ ነገሮች

1. እናቶች ብዙ ጊዜ ቤት የሚወልዱት ለምንድን ነዉ?

ተ**ሬ ጣሪ ጣብራሪ**Á፡ ¾በሰÖ ሲÁብራሩልኝ ይችላሉ? ተመሳሳይ ተሞክሮ አስዎት/ Á¬ ቃሉ?

- 2. ቤት መዉለድ ያለዉ ጥቅምና ጉዳት ምንድን ነዉ? (**ለማ**ህበረሰብ ተወካዮች ብቻ)
 - ¾በለÖ ሲÁብራሩልኝ ይችላሉ?
 - ተመሳሳይ ተሞክሮ አለዎት/ ያዉቃሉ?
- - ¾በለÖ ሊÁብራሩልኝ ይችላሉ?
 - ተመሳሳይ ተሞክሮ አለዎት/ ያዉቃሉ?
- - ምሳሌ/ተመሳሳይ አጋጣሚ ካስዎት?
- 5. ¾መ¬ ለጽ ቦታን በተመለከተ የማህበረሰቡ አመለካከት ምን ይመስላል?
 - ¾በለÖ ሲÁብራሩልኝ ይችላሉ?
 - ያልተወያየንባቸዉ ሀሳቦች ካሉ ወይም ጥያቄ/አስተያየት ካለዎት *ማን*ሳትÃችላሉ።

አመስግናስሁ::