

Implementation Evaluation of Focused Antenatal care service at Selected Public health centers of Hawassa Town, Southern Ethiopia.

Evaluation Thesis to be submitted to: Jimma University, Institute of Health science, Public Health Faculty, Department of Health Economics, Management and policy, Health Monitoring and Evaluation post Graduate unit for Partial Fulfillment of the Degree of Master of Sciences in Health Monitoring and Evaluation.

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Implementation Evaluation of Focused Antenatal care service at Selected Public health centers of Hawassa Town, Southern Ethiopia.
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ABSTRACT

Background: Focused antenatal care is evidence based, client-centered, goal oriented care and provided by skilled health providers. The concepts arise from the view that every pregnant woman is at risk of complication. Globally every minute, at least one woman dies from pregnancy related to complications or child birth and Ethiopia is one of six countries that accounts 50% of maternal deaths in the world. Hawassa town administration public health center in 2014/15 antenatal care service visit dropout was 45%.

Objective of the evaluation: to evaluate the implementation status of focused antenatal care services in public health centers of Hawassa town.

Method a single case study design involving both qualitative and quantitative method of data collection was used from March 14/2017 to April 13/2017 in Hawassa town southern Ethiopia. Focus of the evaluation was process and formative approach was used. Availability, compliance and Acceptability were used as dimensions. A total sample of 422 for exit interview, 60 observations, 13 in-depth interview and 5 health centers were used. For qualitative analysis bi variate and multivariate analysis and for qualitative manual thematic analysis methods were used.

Result Availability of resource for focused antenatal care service was 83.1% which was judged as Good. Emergency transportation, private room for Antenatal care service, functional pipe water, Tetanus toxoid vaccination and drugs option for Tuberculosis and Sexual transmuted disease were available at all health centers and Only 1 health center have Iron tablets during study period.

Compliance of health care providers with focused antenatal care guideline was 66.19% which to be Fair. Health care providers were not provided certain component like counseling on breast feeding, family planning.

Acceptability of clients for focused antenatal care service was 72.9% which judged as Good. Receiving prescription for Iron, Information on less or loss of fetal movement, Advice on insecticide treated bed net use, HIV test counseling, Partner accompany with client and Waiting time 30 minute were a predictors for satisfaction of clients on focused antenatal care service.

Conclusion overall evaluation of focused antenatal care service was 73.2% which was judged to be Good which needs some improvement.

Recommendation: Hawassa town health department to avail Iron drug, syphilis and hemoglobin test reagent consistently for exempted antenatal care service with communicating South nation nationality regional health bureau.

Health centers need to avail guideline and Health care providers should be needed to deliver full component of Focused antenatal care service for all clients.

Keywords focused antenatal care, evaluation, Availability, compliance, client satisfaction and Hawassa town health centers.

Acknowledgment

I would like to thank My Advisor Mrs. Berhane Megerssa (Ass.Professor, PhD fellow) and Mrs. Yisalemush Asefa for their continued support and advice in preparation and completion of this thesis.

Next I would also like to thank Jimma University, Institute of Health, Public Health Faculty, Department of Health Economics, Management and policy, Health Monitoring and Evaluation post Graduate unit for providing opportunity to prepare this thesis.

I thank Hawassa town health department for providing data needed for the preparation of this thesis.

I would like to thank the study participants for their willingness and cooperation during data collection and the staffs of the health center for their cooperation.

Lastly, but not least, I would like to thank my classmates and friends assisting me in one or the other way.

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Acronyms and Abbreviations

AIDS Acquired Immune Deficiency Syndrome

BEMONC Basic Emergency Obstetric and Newborn Care

BF Breast Feeding

BP Blood Pressure

BP/ER Birth Preparedness and Emergency Readiness

CEMONC Comprehensive Emergency Obstetric and Newborn Care

DALY Disability Adjusted Life Year

EDHS Ethiopian Demographic and Health Survey

EQ Evaluation Question

FANC Focused Antenatal Care

FP Family Planning

HC Health Center

HGB Hemoglobin

HIV Human Immune-Deficiency Virus

IEC/BCC Information Education Communication/Behavioral Change Communication

MCH Maternal and Child Health

MMR Maternal Mortality Ratio

PMTCT Prevention of Mother to Child Transmission

STI Sexually Transmitted Infections

TB Tuberculosis

TT Tetanus Toxoid

WHO World Health Organization

Operational Definition

Availability of trained human Resource: Health centers has at least one mid wife, nurse or health office providing ANC services who reports receiving in-service training in some aspect of antenatal care during the 24 months preceding the survey.

Availability of drugs: Observed in service area or where routinely stored; in stock with valid expiry date and no stoke out within six months before survey is checked from the stock card.

Availability of guideline: Focused antenatal care guideline, or implementation manual in line with recommended focused antenatal care of WHO, observed in service area of the client on the day of inventory.

Availability of diagnostics reagents and kits: all needed reagent and kits for pregnant mothers observed for availability and functionality with laboratory technician, with valid expiry date. **Compliance of provider:** services given with respective of client gestational age and visit number based on FANC guideline.

Privacy: a private room or screened-off space available in the ANC service area that is a sufficient distance from other clients so that a normal conversation could be held without the client being seen or heard by others.

Communication equipment: the facility had a functioning land-line telephone, a functioning facility-owned cellular phone or wireless telephone..

Electricity: Facility routinely has electricity from any power source during normal working hours; there has not been a break in power for more than 2 hours per day during the past 3 month which is reported by care provider. Or facility has a functioning generator or inverter with fuel available on the day of the survey, or else facility has back-up solar power.

Antenatal care visit drop out: ANC first visit minus ANC fourth and above visit.

Acceptability: clients satisfied in their perspective about the FANC service they received. It is important to examine how the client views the services so that the immediate outcome of the service was evaluated proximally

• For all indicators which have item listed in the bracket indicates the sum of that item represent single indicators and weight given for each list and finally judged based on observed value of list.

CHAPTER ONE

INTRODUCTION

1.1 Background

Focused antenatal care is evidence based, client-centered, goal oriented care, provided by skilled health providers with emphasis on quality rather than frequency of visits, is an approach to be adopted globally. The concept arise from the view that every pregnant woman is at risk of complication thus all pregnant women should be receive the same basic care and monitoring for complications(1).

Antenatal care service started at early 20th century but formal follow up for normal pregnant mothers rare before the First World War. In 1920 few midwifery department of the hospital started urine test and abdominal examination. At that time most of pregnant mothers goes to clinic only for medical and obstetrics consultation once before delivery. Clinical obstetric screening service with a scientific justification started in 1930 based on Janet Campbell idea (2).

Many thousands of women are still dying due to complication of pregnancy and/or child birth each year .the new global strategy to ending all preventable maternal death and also In order to achieve MMR to the SDG (sustainable development goal) target of 70 per 100 000 live births by 2030 (3).

Global annual rate of reduction need to be at least 7.3%. Countries with MMR of less than 432 deaths Per 100 000 live births in 2015 and 7.5 % for Countries with MMR of greater than 432 deaths Per 100 000 live births in 2015. Attaining that rate requires a marked acceleration in progress in this area.(3).

Antenatal care service has great role on the reduction of maternal death (4). More than 70% of all maternal deaths are due to five major complications: hemorrhage, infection, unsafe abortion, hypertensive disorders of pregnancy, and obstructed labor. Complete and quality antenatal care can prevent up to 27% of maternal deaths (5).

The major goal of focused antenatal care is to help women maintain normal pregnancies through Identification of pre-existing health conditions, early detection of complications arising during the pregnancy, Health promotion, disease prevention, Birth preparedness and complication readiness planning (6).

Good care during pregnancy is important for the health of the mother and the development of the unborn baby. Pregnancy is a good time to promote healthy behaviors and parenting skills. Good ANC links the woman and her family with the formal health system, increases the chance of using a skilled attendant at birth and contributes to good health through the life cycle (7).

Focused antenatal care became the recommended type of antenatal care following the publication of a WHO trial on antenatal care where it was discovered that more frequent visits. General consensus that all women with an uncomplicated pregnancy should have a minimum of four visits, these should as a minimum including all interventions outlined in the new WHO ANC model and starting as early as possible in the first trimester as outlined by WHO (8).

By providing all pregnant women with recommended maternal and newborn care it helps to reduce maternal death, newborn death and DALYs by 56% 72% and 71% from current numbers respectively (9).

From all pregnant mothers 2% - 8% mothers a chance to develop Pre-eclampsia/eclampsia and it causes of an estimated 9% of maternal death in Asia and Africa. Early case identification, screening and management during ANC visit one way of minimizing bad outcome related to Pre eclampsia/eclampsia (11).

1.2 Statement of the problem

Globally every minute at least one woman dies from pregnancy related complications or childbirth with a lifetime risk of maternal mortality 1 in 180 in 2015. And almost three million newborns die each year in the first month of life, accounting for 44% of all deaths among children less than five years (12).

In 2014 Developing country accounts 99% of maternal death of the world. And 125 million women give birth annually out of this 54 million of pregnant mothers follow ANC visit lower than WHO recommended a minimum of four visits. Forty three million deliver their babies at home and also 1/3 HIV positive mothers are not get PMTCT service (9).

Ethiopia is one of six countries that account 50 percent of maternal deaths in the world (Ethiopia, Nigeria, Congo DRC, India, Pakistan and Afghanistan (13).

Maternal mortality in Ethiopia is 412 deaths per 100,000 live births (14). About 15% of pregnant women in Ethiopia are developing life-threatening obstetric complications. Out of this 85% related to direct obstetric complications (15). Prenatal mortality was high 46/1000 pregnancy (16).

In Ethiopia ANC 1st and 4th visit was 62% and 32% respectively in 2016. And Institutional delivery was 26% moreover 17% PNC within 48 hours of delivery was reported (14). Based on the Service Provision Assessment plus Survey 2014, In Ethiopia Among 180 public health centers offering ANC service were have 62% trained staff on ANC, 38% HC were have guideline (17).

Major contributing factors for maternal deaths are Shortage of skilled Human power, weak referral system at health centre levels, inadequate availability of BEmONC and CEmONC equipment, under financing of the service and distance to functioning health centers (18).

In South Nation Nationality Region Only 11.2% of pregnant mother attend first ANC visit before four month of pregnancy and only 20% of pregnant women who attend ANC visit informed for sign of pregnancy related complication 17.3%. Early starting first ANC visit and continued through delivery helps to decrease pregnancy related complication (16).

Prenatal mortality in south nation nationality people region (SNNPR) is 39.2/1000 pregnancy. Prenatal mortality is one indicator for quality of Antenatal care service (19).

In 2014 based on service provision assessment survey in SNNPR only 43% HC have guideline and 47% HC trained staff on ANC and 72% HC have BP apparatus. And among the health centers offering ANC service the capacity to conduct laboratory test for pregnant mothers shows only 18% for Hgb test, 36% urine for protein, 25% syphilis test and 64% for HIV test (17).

Health care provider compliance counseling pregnancy related danger sign 46% of clients about vaginal bleeding, 30% of client about fever, 27% swollen hand and face (17).

In SNNPR only 38.2% of pregnant mothers follow up to 4th ANC visit 50.9% mothers were vaccinated TT2 and more and only 13.4% pregnant mothers receives all component of Antenatal care service (14).

In Hawassa town administration public health facility in 2014/15 institutional maternal mortality was 34(0.28%) and ANC dropout was 45% which is higher than the Regional dropout of 25.5% (20).

As to evaluator knowledge there was no evaluation conducted on implementation status of FANC service in public health centers of Hawassa town.

This evaluation was help to know the implementation status of FANC in public health centers of Hawassa town administration.

1.3 Significance of evaluation

Focused antenatal care service is essential for the improvement of maternal and child health. The finding of this evaluation used to:

Contribute on the improvement of focused antenatal program of Hawassa town health department by identifying strength and weakness of program implementation with how to sustain good achievement and how to address weakness of ANC service. It provides evidence for program planner and implementers of SNNPR regional health bureau and town health department for program improvement. In the other way a learning media for key stakeholders on some aspects of evaluation process of focused antenatal care service and baseline data for further study.

CHAPTER TWO

Focused antenatal care Program description

2.1 Stakeholders identification and engagement

Stakeholders are defined as individuals, groups, or organizations that can affect or are affected by an evaluation process or its findings. Each stakeholder has their own role with respect to the operation of the program and use of finding.

The Evaluability assessment conducted on FANC tried to identify different stakeholders involved in improving maternal and child health status, partners and beneficiaries. Stakeholders' identification has been done carefully to assure sustainability and support of the program.

Stakeholders have contribution in the evaluation assessment and are likely to play unique roles during evaluation process. Different stakeholders are actively involved in the implementation of FANC program in Hawassa town administration health department.

Some of the stakeholders were not found during Evaluability assessment due to different reasons like, being on annual leave, participating on different meetings and trainings and for those stakeholders, email and telephone communication was found to be a convenient option of communication.

Levels of importance majorly depend on the stakeholders' role in the evaluation. Those stakeholders participate on development of evaluation question, data source and indicators selection categorized on high level of importance. And stakeholders as data source and finding users categorized as medium level of importance.

The following table shows different stakeholders with their role in program and evaluation, perspective on evaluation, way of communication and level of importance.

Table 1: Stakeholder analysis Matrix for Focused Antenatal Care Service evaluation at public health centers of Hawassa town, 2017.

Stakeholders	Role in the program	Interest in	Role in the evaluation	Way of	Level of
		evaluation		communication	importance
					(H,M,L)
SNNPR health bureau	Decision maker	Knowing Area which	Data source	Formal letter	M
maternal and child health	Capacity building,	need Improvement in	Finding users		
department	resource allocation	FANC service			
Hawassa town	Decision maker,	Strength and gap	EQ development	Formal letter	Н
administration health	Resource allocation,	identifying in FANC	Set judgment matrix	Telephone	
department	planning, routine	service	Data source		
	program monitoring		Facilitating evaluation		
	Supportive supervision		process, finding users		
Hawassa town health	Program co-ordination	Strength and gap	Utilization of finding	Formal letter	Н
department maternal and	Planning, mentoring	identifying in FANC	EQ developing	Telephone	
child health unit	Technical support	service	Set judgment matrix		
			Source of data		
Kebele administration	Community	Service	Finding users	Formal letter	M
	mobilization	Improvement		Face to face	

Stakeholders	Role in the program	Interest in evaluation	Role in the evaluation	Way of	Level of importance
				communication	(H,M,L)
Health centers	Implementer	Over all FANC	Source of data	Formal letter	Н
	Coordinating HC	service Improvement	Utilization of finding		
	activities, recording		EQ developing		
	and reporting				
FANC clients	Beneficiary	Improvement in the	Data source	Interview	M
		provision of service			
Pharmaceutical	Provision of Drug	Service improvement	finding users	Formal letter	M
Fund and Supply	and supply				
Agency (PFSA)					

2.2 program goal and objectives

Program goal

✓ To contribute for the reduction of maternal and child mortality in Hawassa town.

General objective

✓ To provide quality of FANC care service for all pregnant mothers in Hawassa town health facilities.

Specific objectives

- ✓ To avail all necessary resources which needed to implement FANC care service consistently to all health centers by the end of 2017
- ✓ To provide screening, counseling, diagnosing and treating service with national guideline from 90% to 100% for all pregnant women coming to Hawassa health facilities by the end of 2016/17
- ✓ To achieve all health facility with a regular, timely and complete recording and reporting system from 90% to 95% by the end of 2016/17
- \checkmark To reduce ANC visit drop out from 45% to 25% by the end of 2016/17.

2.3 focused antenatal care Major strategies

Hawassa town health department implementing focused antenatal care service were used to achieve the above objectives by using the following strategies.

- ❖ Improve community participation, engagement and ownership
- Capacity building
- Strengthen routine performance monitoring system
- ❖ Data quality assurance and auditing
- * Avail continuous drugs and medical supply
- Expansion of Maternal Death Surveillance and Response
- Strengthening the referral system and hospital health center network
- A Partnership with other governmental, religious and non-governmental institutions
- ❖ FANC Service integration with other program

2.4 Focused Antenatal Care resource and activities

Program resources

Major resources required to implement focus antenatal care services are human resource, financial, drugs and medical supply, infrastructure (Electricity, Water and Telephone...) vaccine, laboratory reagents, FANC guideline, IEC/BCC material, registration books and recording formats.

Program activities

FANC service activities mainly focus on giving training for health care providers, identification of pre-existing health conditions, early detection of complications arising during the pregnancy, Health promotion and disease prevention and Birth preparedness and complication readiness planning (6).

History taking and physical examination, screening for pre-existing health condition like hypertension, HIV, TB... administering TT vaccine, Iron/folate, intermittent preventive treatment (IPT)) for malaria, insecticide treated bed nets (ITNs), diagnose and treatment of sexually transmitted infections (STIs), counseling and testing for HIV and education and clinical services for the PMTCT.

Advice on nutrition, rest, family planning, breast feeding, birth preparedness and emergency readiness, early referral if needed, recording and reporting and conducting supportive supervisions are the major activities of focus antenatal care service

Program outputs

The immediate result of the activities after it is being provided to the pregnant mothers. Some of the outputs of the FANC service are

- Number of pregnant mothers who are obstetric and medical history taken and examined on pre-existing disease condition.
- Number of pregnant mothers who are laboratory investigated on blood group, Rh, Hgb, syphilis, urine test for protein and infection.
- Number of pregnant mothers who are given tetanus-toxoid immunization.
- ❖ Number of pregnant mothers who are given iron/folate.
- Number of pregnant mothers who are given de-worming.
- Number of pregnant mothers who are counseled on pregnancy related danger sign.

- Number of pregnant mothers who are counseled on nutrition, rest, family planning, postnatal care, institutional delivery, birth preparedness and emergency readiness.
- Number of pregnant mothers who are counseled and tested and received test result for HIV/ADIS.
- ❖ Number of pregnant mothers who are given ITN.

Program outcome

- ❖ Improved FANC care service quality
- ❖ FANC client satisfaction on service
- Improved data quality and information use
- ❖ Improved FANC service utilization and institutional delivery

Program impact

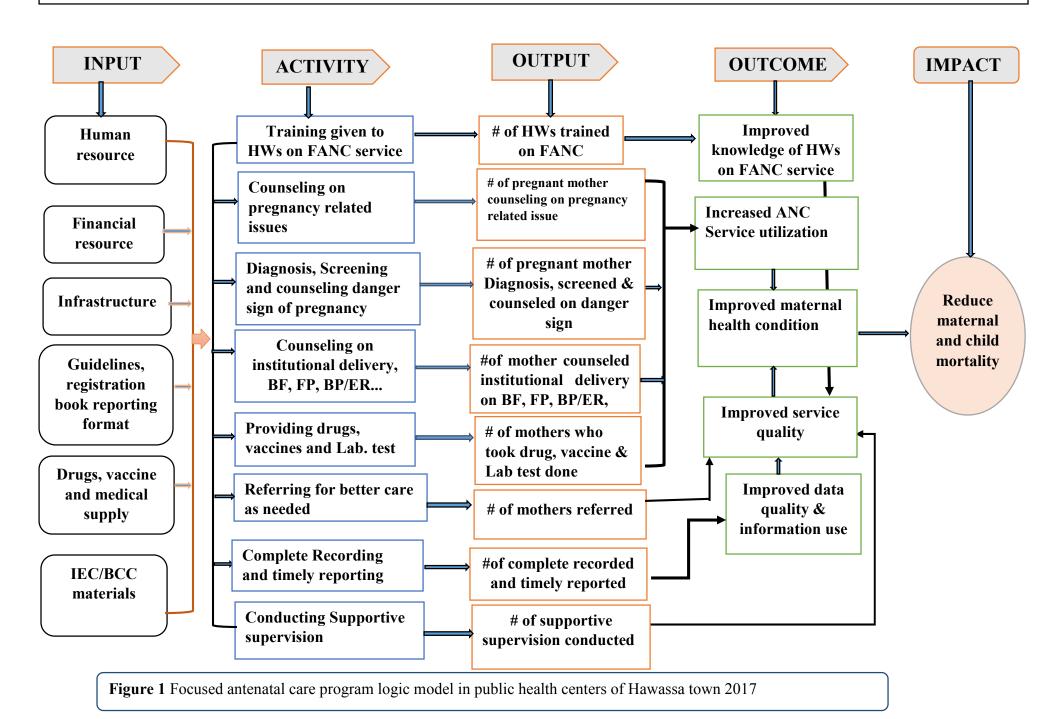
* Reduction of maternal and child mortality

1.4 Logic model of focused antenatal care

Logic models are flowcharts that depict program components. These models include program elements, showing the development of a program from theory to activities and outcomes. Infrastructure, inputs, processes, and outputs are included. The process of developing logic models serve as to clarify program elements and expectations for the stakeholders. By depicting the sequence and logic of inputs, processes and outputs, logic models can help ensure that the necessary data are collected to make credible statements of causality (22).

Statement of problem In Ethiopia maternal and infant mortality rate is high 412/100,000 live birth and 48/1000 live birth respectively and Hawassa town ANC visit drop out was 45% (14, 20).

Goal to contribute for the reduction of maternal and child mortality in Hawassa town.



2.6 Stage of program development

Traditional antenatal care service model was developed in the early 1900 at United States by social reformers and nurses (23). And similar movement also began in England by the efforts of James Ballantyne (24).

The traditional approach was replaced by focused antenatal care (FANC) a goal based antenatal care approach, which was recommended in 2001 and adopted by the World Health Organization (WHO) in 2002. FANC is the accepted policy in Ethiopia (25).

Focused antenatal care recognizes that every pregnant woman is at risk for complications, and therefore all women should receive the same basic care and monitoring for complications (26).

Traditional ANC changed to FANC due to frequently visits do not necessarily improve pregnancy outcomes, in developing countries they are often logistically and financially impossible for women to manage and a burden on the healthcare system and many women who have risk factors never develop complications, while women without risk factors reversely develop complication (6).

Ethiopia is currently adapted FANC and providing the services from health extension level to higher level of health facilities (25).

Hawassa town adminstration health department was started FANC service in 2008 and currently all public health facility was implement focused antenatal care service as WHO recommended.

CHAPTER THREE

Literature review

The provision of ANC service in health centers can be measured by availability and readiness of different parameters in the facilities supposed to provide the service like trained man power, drugs and medical supply, commodities; supervision and management support; diagnostic capacity for related disease conditions; the content of services received, and the kinds of information given to women during their visits. These services raise awareness of the danger signs during pregnancy. They also improve the health seeking behavior of the client, orient the client to birth preparedness issues, and provide basic preventive and therapeutic care (17).

AVALABLITY

A study conducted in Ghana on enhancing FANC service shows that Midwives perception on factors that affect implementation of FANC are lack of resource and incentives, workload and waiting time are some of the factors, This supported by female informant said that "I think nationwide we are short of midwives they should train a lot of professional midwives and add to the existing ones, who are giving professional care they train more midwives and can put two to each room, the workload a little relieved." Other midwifery also said "...all midwives practicing FANC should be sent to workshops regularly to update their knowledge about the concept. They can also organize an in service training for them (27)..

Based on 2014 Ethiopia Service Provision and Assessment plus Survey finding shows that health centers with availability of basic amenities for client services indicates regular electricity (57%), piped water (40%), client latrine (78%), visual and auditory privacy (94%), communication equipment (30%) and out of 180 health centers 38% Guidelines on ANC,62% Staff trained for ANC, 87% Blood pressure apparatus, 93% Stethoscope, 94% Adult weighing scale, 75% Fetal stethoscope and 98% Examination bed or couch available in the health centers (17).

Base line evaluation of maternal and child health service in 25 selected district of Ethiopia shows out of 123 Health centers only 27% of HC have syphilis testing facility, 39.8% Hgb level testing, 45.4% of blood group testing and 51.2% of the health centers have urine analysis testing facility (28).

In SNNPR assessment conducted at 80 health centers out of this 50% of HCs with regular electricity, 43% piped water, 71% client latrine 95%, visual and auditory privacy and 44% communication equipment were available during the study period (17).

A study conducted on availability and use of maternal health supplies in primary health care of Amhara region shows that 22(97.7%) of Health Centers had HIV test kit, 8(54.8%) syphilis test reagent, 12(52.2%) anemia test kit, 18(78.3%) urine test for protein and 15(65.2%) glucose test had available in public health centers and related to drug 43.5% of HCs had Ferrous sulphate, 21.7% of HC had Folic acid, and Mgso4 not available in all a study conducted health centers (29).

Antenatal and postnatal care peer article reviewed for innovative models for improving availability, accessibility, acceptability and quality of services in low-resource settings the result shows Barriers to implementing best practices in ANC Weak infrastructure like Poor programmed, shortage of skilled providers, inadequate supply chain management, lack of transportation and weak human resource support contribute to poor quality of ANC and are determined factors for quality service in multiple settings (30).

A study conducted on availability and functional status of FANC laboratory service at Addis Ababa public health facility shows that the availability and functionality of back-up electric power supply (standby generator) among visited health facilities had variable in 8 (61.5 %) laboratory facilities had standby generators, in 4 (50 %) health facilities the generators did not functional and while in 5 (38.5 %) health facilities generator were not totally available (10).

COMPLIANCE

Facility based survey was conducted from 2010 to 2012 in six Sub Saharan Africa (Ethiopia, Kenya, Madagascar, Mozambique, Rwanda, and Tanzania) on quality of maternal and newborn care received. The finding indicates on average only 38.5% of ANC client asked about at least one of two danger signs: headache or blurred vision, or swelling of hands or face. And 67.6% and 45.5% on average blood pressure measured and urine test for protein (11).

A study conducted in Dodoma Municipal of Tanzania shows a pregnant mothers received laboratory investigation during ANC visits are blood for syphilis (31.6%), HIV test (65.2%), urine test for protein (28.8%) and hemoglobin (22.4%) and also regarding to vaccine and drugs 76% of mothers were TT vaccinated and 23.2% takes ferrous sulphate tablet (31).

Tadesse and his colleagues from their study in Bahir Dar was showed that pregnant mothers attending ANC clinics were found to receive only from the recommended ANC component syphilis test, blood group and Rh factor done only for 73 (19.8%) and 133 (36.0%) of the women respectively. And also 64% of the mothers missed the opportunity of receiving iron/folic acid supplement during their ANC visit. Three hundred fifty five (96.2%) mothers were vaccinated for TT and 226 (61.2%) of the women's were checked their conjunctiva (32).

A study conducted at Bahir Dar town on quality of antenatal care service shows almost all 365 (98.9%) and 359 (97.3%) of respondents reported that the providers seem interested and there was no interruption by the provider during consultation respectively. The qualitative component of the study (by observation) also demonstrated that respectful and friendly greeting was offered for a total of 78 (81.2%) clients (32).

SATISFACTION

A study conducted on quality of FANC services in eastern Uganda 291 FANC client participate on the study the result shows overall satisfaction of the client on ANC service was 74.6% satisfactory, 18.9% fairly satisfactory and 6.5%, dissatisfactory from this 46% on waiting time, 83.5% examination room privacy, 70.1% Cleanliness of facility and 73.9% Explanation given by health workers are satisfied (35).

A study conducted on quality of Antenatal care service in Bahir-Dar special zone shows that FANC client 52.3% satisfied with the service and the rest unsatisfied client with the over-all perceived quality of care received in the clinic were; absence of clean latrine and inadequate water supply, receiving incomplete information about FANC, inadequate waiting area and seats (32).

Finding on Assessment of Quality of Antenatal Care Service Provision among Pregnant Women in Ambo Town Public Health Institution shows regarding to privacy of FANC unit 84% of participant satisfied. And also 70% and 23% of participant on provider consultation time adequate and inadequate respectively. And 71.8% of client interested to come again and recommend for others to use service in this health institution. On over all ANC service 33.6%, 55.3% and 11% very satisfied, satisfied and not satisfied respectively (34).

An evaluation of the Quality of Antenatal Care service conducted at Higher 2 Health Center in Jimma indicate overall satisfaction on ANC service was 85.3% and that most of (94.6%) ANC client satisfied with over all service provided. And 94.3% of client satisfied with provider respect, 92.5%, satisfied with maintained of privacy, 86.4% of client satisfied with waiting time and 54% of client perceived that waiting area is convenient (35).

A study conducted on Mothers" Utilization of Antenatal Care and Their Satisfaction with Delivery Services in Selected Public Health Facilities of Wolaita Zone shows information about place of delivery associated for client satisfaction. COR 0.94(0.31, 2.88(36.)

A study conducted at Chencha Quality of Antenatal Care Service in Public Health Facilities of Chencha District, Gamo Gofa Zone, Southern Ethiopia shows information on birth preparedness and emergency plan AOR 2.191(1.118, 4.239), parity two and less AOR 2.185(1.192, 4.000) and residence urban AOR 2.043(1.163,3.587) as predictor of client satisfaction on antenatal care service(37).

A study conducted at Bahir Dar town on quality of antenatal care service at public health facility were shows explaining procedures, frequency of visit, consultation time, privacy and sex of service providers were predictors of client satisfaction on antenatal care service (32).

Study conducted at Ghanaon assessment of clients' satisfaction with quality of antenatal care at korle –Ghana that shows 57.1% of ANC clients satisfied with waiting time. There was no significance association with waiting time but on multivariate analysis clarity of treatment to clients (P-value 0.008). On bivariate analysis information on breast feeding (P- value 0.01) and Attitude of nurse on related to clients (0.0001) predictors of satisfaction on ANC service (38)

Conceptual framework shows that association between dependent variable of client satisfaction on antenatal care service with different independent variables which associate with client satisfaction. In this study FANC service improvement and availability of resource which have direct association with client satisfaction was not studied.

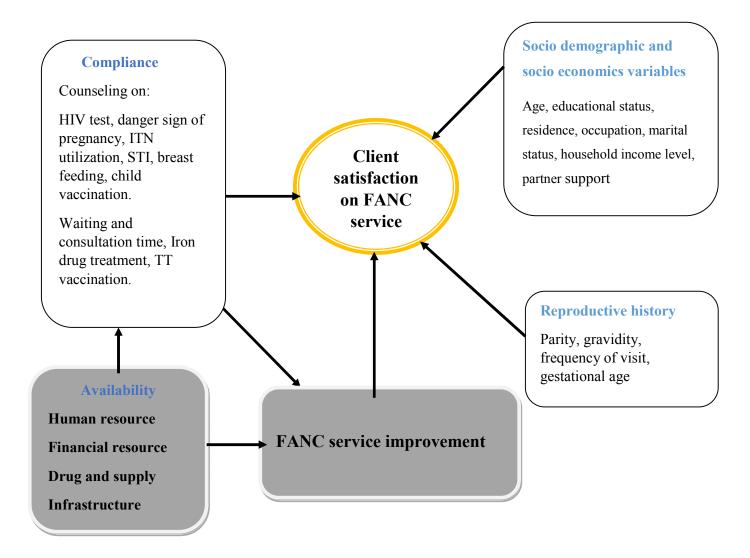


Figure 2 conceptual frameworks to evaluate implementation status of FANC service at public health centers of Hawassa town 2017, Adapted from a framework for evaluation of quality care in maternal service (42)

CHAPTER FOUR

Evaluation Questions and Objectives

4.1 Evaluation Questions

- 1. Are the resources needed to provide FANC available? If not why
- 2. Do focused antenatal care providers comply with FANC guidelines in delivering focused antenatal care service? If not why?
- 3. Are the clients satisfied with focused antenatal care service provided to them?
- 4. What are the factors that affect the satisfaction of clients on focused antenatal care?

4.2 Evaluation objectives

General Objective

To evaluate the implementation status of focused antenatal care services at public health centers of Hawassa town, 2016/17.

Specific Objectives

- 1. To assess the availability of resources required to provide focused antenatal care services in public health centers of Hawassa town.
- To describe and judging the compliance of focused antenatal care service providers with the focused antenatal care guidelines at Hawassa town public health centers.
- 3. To determine the proportion of client satisfaction among users of focused antenatal care services at public health centers of Hawassa town.
- 4. To identify factors associated with client satisfaction on focused antenatal care at public health centers of Hawassa town.

CHAPTER FIVE

Evaluation Method

5.1 Evaluation area

Hawassa town which serves as the capital city of Southern Nation Nationalities and People Regional state and Sidama zone administration is located 273 km far from Addis Ababa.

Hawassa town administration has an area of 157.2 sq. Kms. Divided in to 8 sub cities and 32 kebeles. According to 2015/16 census projection total population is 359,358. Reproductive age group from 15-49 years 96,659 from these 12,434 estimated numbers of pregnant mothers.

The human resources of Hawassa town health department are a total of 380 health care providers. Regarding to health infrastructure in the town administration there is 1 referral, 1 district and 4 private hospital, 10 public health centers, 15 health posts and 51 private clinics on 2015/16 Town health department report (20).

5.2 Evaluation period

Evaluability assessment was conducted from Dec.15/2016 to Dec.25/2016 and Evaluation was conducted from March 14/2017 to April 13/2017 in Hawassa town southern Ethiopia.

5.3 Evaluation approach

FANC program at Hawassa town public health centers is in implementation stage and an ongoing program, so a formative evaluation approach was used with the intention of improving the FANC program.

5.4 Evaluation design

Single Case study design with both qualitative and quantitative data collection method was used in a case of FANC Service in Hawassa town. For choosing a case study is to get extensive and explorative result. Moreover case studies allow us to build a sound hypothesis about the relationships between interventions and their context (40).

5.5 Focus of evaluation and dimension

5.5.1 Focus of evaluation

Focus of the evaluation was process in which it provides information about resource to be used, activities to be accomplished and expected output and also perceived clients satisfaction in FANC services of Hawassa town public health centers.

5.5.2 Evaluation dimension

The dimensions of this Evaluation were Availability, compliance and Acceptability.

Availability: The relationship of the volume and type of existing services and resources to the clients' volume and types of needs. It refers to the adequacy of the supplies, health care providers and service delivering infrastructures with their respective clients (41).

Compliance: refers to whether the activities are delivered according to the standard or the FANC implementation guideline (42).

Acceptability (Client Satisfaction): clients satisfied in their perspective about the FANC service they received. It is important to examine how the client views the services so that the immediate outcome of the service was evaluated proximally (42).

5.6 Variables/Indicators

5.6.1 Variables

Dependent variable

Client Satisfaction on FANC service.

Independent variables

- Socio demographic and socio economic variables (age, educational status, occupation, marital status, household income level)
- * Reproductive history (parity, gravidity, frequency of visit, gestational age)
- **\Display** Waiting time.
- Consultation time.
- Preventive therapy (Iron tablet and TT vaccination)
- **❖** Male partner support
- ❖ Information received on danger sign, HIV test, ITN use, breast feeding and family planning and vaccination.

5.6.2 Indicators

Availability Indicators

Availability of resource for the implementation of focused antenatal care service was measured by 13 indictors.

- ❖ Proportion of health center with trained man power on FANC.
- ❖ Proportion of health center with current plan document for FANC.
- ❖ Proportion of health center having FANC guideline.
- ❖ Proportion of health center having equipments needed to provide FANC (functional: Bp apparatus, stethoscope, fetuscope, Adult weight scale, Examination couch).
- ❖ Proportion of health center having essential preventive and therapeutic drugs and supplies for pregnant mothers (iron/folate., Mgso₄, TT vaccine, and antimalarial drug).
- ❖ Proportion of health center having drug option needed for STI management (Erythromycin, Ciprofloxacillin, Benzathine penicillin, Doxycycline, Metronidazole, and Clotrimazol).
- ♦ Proportion of health center having laboratory supply for diagnosis and screening pregnant mothers (HIV, syphilis, urine test for protein, Hgb test, urine test for infection and blood, group and Rh factor).
- ❖ Proportion of health center with basic amenities (functional pipe water, power supply, emergency transport, ANC private room, functional latrine and communication material).
- ❖ Proportion of health center with no stoke out of drugs for HAART within six months (TDF, 3TC, EFV).
- ❖ Proportion of health center with no stoke out of drugs for TB treatment within six month (ERHZ, RH, STM, RHZ combination drug).
- ❖ Proportion of health center which have materials required for hand washing facility inside ANC room (running water, soap and towel).
- ❖ Proportion of health center with materials needed for infection prevention is available (Sharp disposal container, general waste bin, disinfectants).
- ♦ Proportion of health center with materials needed for record keeping (registration books, reporting formats and client folder).

Compliance Indicators

Compliance of the health care provider with FANC guideline was measured by the following indicators (17 indicators).

- ♦ Proportion of pregnant mothers who are greeted and called by their name.
- ❖ Proportion of pregnant mothers whose history taken (obstetric and medical history)
- ❖ Proportion of pregnant mothers whose vital sign measured (BP, pulse rate, respiratory rate, temperature and weight)
- ♦ Proportion of pregnant mothers who have got physical examination (skin, conjunctiva, edema, breast).
- ❖ Proportion of pregnant mothers whose laboratory investigation is ordered (for blood group and Rh, hemoglobin, urine test for protein, urine test for infection and RPR test).
- ❖ Proportion of pregnant mothers who got PMTCT service (offered, tested and post counseling for HIV test).
- ♦ Proportion of pregnant mothers injected tetanus toxoid vaccine.
- ♦ Proportion of pregnant mothers who got prescription for iron and folic acid.
- ❖ Proportion of pregnant mothers oriented on breast feeding, baby vaccination and use of contraception.
- ❖ Proportion of pregnant mothers oriented about danger signs (vaginal bleeding, headache, fever, vaginal gush of fluid, abdominal pain, blurred vision)
- ❖ Proportion of pregnant mothers informed about nutritional need, personal hygiene and rest.
- ❖ Proportion of pregnant mothers oriented on birth preparedness and emergency plan.
- ❖ Proportion of pregnant mothers who advice on routine and follow up visit.
- ♦ Proportion of eligible pregnant mothers referred to the next level.
- ❖ Proportion of mothers informed for place of delivery.
- ❖ Proportion of pregnant mothers who are informed her and fetus health condition.
- ❖ Proportion of mothers whose major assessment and finding were recorded on client card (client history, physical examination, laboratory investigation, counseling and treatment and prophylaxis given for client).

Acceptability (client satisfaction) indicators

Client satisfaction on focused antenatal care service was measured by (11 indicators)

- ♦ Proportion of mothers satisfied on the cleanness of the examination room.
- ♦ Proportion of mothers who are satisfied on visual privacy during examination.
- ♦ Proportion of mothers who are satisfied on auditory privacy during examination.
- ❖ Proportion of mothers who are satisfied on the way of communication with health care provider.
- ❖ Proportion of mothers who are perceived satisfied on the overall FANC service provided.
- ❖ Proportion of mothers who are satisfied on appropriateness of waiting area.
- ♦ Proportion of mothers who are satisfied with the service waiting time.
- ♦ Proportion of mothers who are satisfied with consultation time.
- ❖ Proportion of mothers who are satisfied on the explanation the providers gave to them about a problem or treatment.
- ❖ Proportion of pregnant mothers who interest to continue the rest ANC visit in this health Center.
- ❖ Proportion of mothers who interest to recommend the relatives and others to attend their antenatal visit in this facility.

5.7 Populations and sampling

5.7.1 Source of population

All FANC clients attending FANC service at selected health centers, health care providers of antenatal care unit, health center head, MCH coordinator, town health department program coordinators and program document were source population.

5.7.2 Study population

For quantitative part

FANC clients attending FANC service at selected public health centers of Hawassa town during the study period were study population.

For qualitative part

Hawassa town administration health department MCH core process coordinator, selected health centers head, selected health center MCH focal person, and selected healthcare providers were study population.

5.7.3 Sampling unit

Health centers, FANC clients, program managers, health care providers and program document were sampling units.

5.7.4 Study units

Individual FANC clients, health care providers, program coordinator and health center program document were study unit and FANC client and public health centers were primary and secondary unit of analysis respectively.

5.7.4 Sample size determination

For health facilities

WHO suggest that to select health facility for the assessment mainly depends on the number of health facility that the statistical arguments for the determination of the sample size, the available funds and human resources should also be taken into consideration. For example for total number of health facility of 9 or less, 10-19, 20-39,40-59 and 60-99 the proposed sample friction all the HF, 50%,40%,30% and 20% selected respectively (43).

Based on WHO suggestion 50% of health centers (5 health centers) were selected randomly by lottery sampling technique. From the total of 10 health centers 5 health centers were selected (Alamura, Millennium, Adare, Tilte and Gemeto health centers)

For client exit interview

By using Single population proportion with P value 50% and 5% marginal error (d) and confidence interval of 95%.size was: 384 and by adding 10% non-response rate, the final sample size was 422 clients attending public health centers of Hawassa town within study period were interviewed.

For in-depth interview

A total of 13 in-depth interviews were conducted from Hawassa town administration health department, selected heath centers head, and MCH focal person were involved in key informant interview

For observation

Two health care providers who are working in FANC services from each selected health centers (5 health centers) were involved. A total of 60 observation were conducted. Each health care provider was observed when they provide the service for six clients consecutively starting from the first client during observation sessions (44).

Document review

Plan document, bin card of drugs were reviewed 6 month back from the study period. And 40 client folders who were directly observed client document reviewed to cross checking pregnant mothers eligible for some services like TT vaccination, HIV test, some laboratory test and complete recording at the time of observation.

For resource inventory

Availability of resources based on list of indicators (staff, test kits, drugs, guidelines, medical supplies) and infrastructures like water and power supply, emergency transport... availability and functionality were checked.

5.7.5 Sampling procedure/technique

Clients exit interview the selected five health centers were considered in the sampling process. Total sample size proportionally allocated by average monthly client flow of 3 month back to the study period for each health centers and clients come to FANC service during the study period conveniently were interviewed without any interruption. The data collection continued until end of required sample size attained.

In-depth interview

Purposive sampling technique was used for in-depth interview. The reason that they are better information sources for the issues related FANC service such as availability and sustainability resources, competency of health care providers and the strength and weakness of the implementation status of the program.

Direct observation

Two health care providers who are specifically assigned in FANC services from each selected health centers were randomly selected who available during data collection period.

Document review

Program documents were reviewed to ensure that the program is implemented with appropriate way for this reason bin card, program document, and selected clients card during observation were put separately and at the end of the day the client register were reviewed.

Resource inventory

At convenient time for head of the health centers or his representative all the data concerning to availability of resource for FANC service were conduct resource inventory, observation and interviewed according to the operational definition of the items to be observed.

5.7.6 Inclusion and exclusion criteria

Exclusion criteria

- Client who are seriously ill were excluded.
- ❖ Who come again within the study period for further consultation were excluded.
- ❖ Pregnant mothers who come for other services were excluded.

5.8 Data collection

5.8.1 Development of data collection tools

Data collection tool for exit interview

Structured questionnaire containing specific components on background characteristics of client, reproductive history, received information at ANC, delivery plan; In general, it contains close-ended questions related to perceive satisfaction in related to FANC service component (Acceptability).

Data collection tool were prepared for pregnant mother to interview. Which is adapted from a handbook for measuring and assessing the integration of family planning and other reproductive health services including FANC which is developed by USAID and population council frontiers, 2008 (45).

The questionnaire for the client exit interview was translated into Amharic languages by English teacher who knows Amharic language and back translated to English by an independent English teacher before pre-testing to insure its consistency in meaning. And

pretest was conducted by 22 samples questionnaire of exit interview on Tula health center other than study area near to Hawassa town.

Data collection tool for in-depth interview

For In-depth interview semi structured guide was prepared for different level of key informant (for health department head, FANC focal person and health center head) which contain barriers and facilitators of the implementation of FANC service in Hawassa town public health centers in relation to availability, compliance and client satisfaction.

Data collection tool for direct observation

Observation checklist was used for provider-clients interaction and assessment of compliance to FANC guidelines. Checklist was covered interpersonal relationship, obstetric history, counseling, laboratory investigation, prophylaxis and treatment in general the checklist was containing major component which provided for pregnant mothers (8).

Data collection tool for document review

Document review checklist was prepared for client card review and program document. For clients card the checklist which contains FANC service needed to client. It helps client information properly recorded or not and also to know what service missed. And for program document were contain ANC activity plan were checked to assess compliance to national guideline. The tool is adapted from USAID and population council frontiers, 2008 (45).

Data collection tool for Resource Inventory

Resource inventory checklist, containing infrastructure (water supply, electricity, functional latrine, and communication equipment), human resource, drugs and medical supply, and laboratory supply were used to assess the availability of the required resources for the delivery of FANC service which are adapted from USAID and population council frontiers, 2008

5.8.2 Data collectors

Five data collectors and two supervisors who had BSC in midwifery and nurse and experienced on the provision of FANC service were used. Data collectors were selected from other than the study health facility. Data collectors were trained for one day on the content of the data to be collected, ethical issues to be addressed during gathering the data, communication skill, how to use the data collection guide and tools by principal evaluator.

Supervisors were trained for one day on the content data to be covered, on how to manage data collection process and the way to monitor the quality of data by principal evaluator.

Exit interview, observation and client card review were conducted by data collectors.

In-depth interview, Resource inventory and program document review were conducted by the principal evaluator.

5.8.3 Data collection field work

Pretest was conducted before the actual data collection. The process of data collection was supervised closely.

The daily performance of the data collection process was assessed with the group members and appropriate correction for the next day in case when problem occurs.

Data were checked on daily base for completeness and consistency by supervisors and principal evaluator and appropriate corrections were given at any time during data collection period. In each day the collected in-depth interview data were transcribed

5.8.4 Data Quality Assurance

For quantitative data

- ➤ One day Training was given for data collectors and supervisor.
- ➤ To check reliability of the satisfaction tool by using data obtained from pre test which has internally reliable cronbach's Alpha based on items was (0.898). For other data collection tool some terminological adjustment was done on the tool.
- Periodic supervision and technical support for data collectors.
- Epi data was used for data entry to minimize data entry error.

For qualitative data

- Member checks
- Peer examination

5.9 Data management and analysis

5.9.1 Data entry

Quantitative data were checked for completeness every day after data collection by principal evaluator together with data collectors and supervisors. Data was coded and entered to Epi data 3.1 for further processing then export to SPSS version 20.0 for analysis.

For the qualitative data: in-depth interview responses were transcribed, coded, categorized and analyzed using thematic analysis technique.

5.9.2 Data cleaning

Incomplete, inconsistent and invalid data were refined properly to get maximum quality of data before, during and after data entry. Corrections were made according to the original data.

5.9.3 Data analysis

The Quantitative data which is collected from client exit interview data entered to Epi-data then export to SPSS version 20.0.

Univariate analysis was done to see the frequency, percent and mean of variables for descriptive results. Binary logistic regression was used to determine the association between dependent variable and independent variables. And those variables which showed statistical significant value (p< 0.25) on bivariate analysis were taken in to multivariate analysis. The results of quantitative data were mainly presented by using frequency tables and figures.

Satisfaction of clients on FANC was measured by 11 items each having five point Likert scale from strongly dissatisfied value1 to strongly satisfied value5. To get the total score of each respondent were summed. To categorized clients in to satisfied and dissatisfied by using cut point by demarcation threshold formula. (Total highest score- Total lowest score)/2+Total lowest score. (46).

Clients were categorized as dissatisfied if they score below the cut point and satisfied if they score \geq to cut point satisfaction score.

The qualitative data were analyzed manually using thematic analysis with respective dimensions and results were presented in narrative form. The final interpretations of results were based on evaluation weights and statistical analysis result of the evaluation.

5.10 Matrix of analysis and judgment

The final evaluation judgment was decided based on settled judgment parameters. Dimension is weighted by the stakeholders by nominal group technique method to reach an agreement for evaluation of focused antenatal care services in Hawassa town public health centers. the agreed parameters was 85-100% as V. Good, 70-84% as Good, 56-69% as Fair and <=55% as poor.

5.11 Ethical Issues

Ethical clearance was secured from Jimma University College of public health and medical sciences ethical committee before the beginning of data collection activity.

A Written Letter of co-operation from Hawassa town health department office to the selected health facility. And before data collection client, healthcare provider and key informant after explaining the purpose of the study to them

Confidentiality and privacy of the participant was maintained throughout the process of data collection. The evaluation teams were trained on how to handle sensitive and emotional issues and on the importance of keeping confidentiality and conflict of interest were identified and dealt with openly and honestly, so that it did not compromise the evaluation processes and results.

Evaluation was designed to assist organizations, to address and effectively serve the needs of the full range of targeted participants. From all study participants a written consent was received before collecting data.

5.12 Evaluation dissemination plan

The final evaluation finding presented to Jimma University for approval then organizing a one day finding presentation session for a key stakeholders (Hawassa town health department head, health centers head and FANC focal person...) hard and soft copy of the report disseminated to a key stakeholders and finally disseminate the finding for publication in national or international journal.

CHAPTER SIX

RESULT

6.1 Availability of FANC Service Resource

- . Five of the health centers namely Millennium, Adare, Alamura, Tilte and Gemeto HCs had no shortage of health care providers based on client flow but out of 36 health care providers assigned at ANC only 5 health care providers trained on FANC within the last two years.
- A 25 years female case team leader said
- "...in our case team even if 3 Midwives and experienced nurse were available that means not enough to provide quality ANC service. For previous two year there was no training opportunity. We need refreshment and in-service training to update our capacity..."
- A 32 years male head of health centers Added
- "...there is a problem on providing training for health care provider. Especially FANC service related training mostly organized and prepared by NGO, regional health bureau and town health department level. In related to this condition in last 2-3 years most of health care providers of our health centers had not trained on FANC.

All health centers had functional pipe water supply but Millennium and Gemeto health centers had no functional hand washing facility in ANC room. Regarding to electricity except Gemeto HC all health centers had main electrical power supply with contingency generator.

- A 24 years female case team leader said:
- "...so difficult to go other unit for hand washing in between service provision it is better to maintain non functional hand washing facility in ANC room."
- A 32 years male head of health center Added
- "...ANC and OPD room had no functional hand washing facility. There is no financial problem to solve maintenance related issue of the health center. I try to solve hand washing facility problem."

A 24 years female MCH coordinator of health center said"...a big challenge related to power supply. Sometimes main power supply interrupted in between service provision a pregnant mother's wait a long time to receive laboratory result. To deliver quality ANC service health center need alternative power supply."

All health centers except Gemeto HC had stock out of Iron drugs during and back two month from data collection period. And TT vaccine, ART and STI drugs had available at all health centers.

A 36 years male town health department level manager Added

"...Iron tablet stock out was a problem of almost all public health facility of Hawassa town in the previous two month. This due to excess iron tablet expired at regional and health centers store. In related to solve this Iron drug wastage Iron supply was interrupted from the suppliers for some months..."

Almost all health centers had essential laboratory reagent and supply for syphilis, blood group, urine test and HIV except Alamura HC for syphilis, Gemeto HC for Hgb and urine test and Tilte HC for Hgb test.

A 25 years female case team leader said.

"...Difficult to categorize anemia in pregnant mother clinically. Hgb test kit needed for early detection and management of Anemia."

Adare and Gemeto health centers had no weight scale and also Gemeto HC had no blood pressure measuring apparatus and thermometer.

A 24 years female case team leader said.

"...it is difficult to saying pregnant mothers wait for some minute to measure blood pressure due to one BP apparatus for all units of health center."

Except Millennium and Adare health center others HC had no FANC guideline in ANC room. And regarding to recording and reporting format except Gemeto health center had no client and appointment card in others health centers were available.

Table 2: Availability of resources on FANC at five health public centers of Hawassa town, 2017

Available resource	Name of health center				Total present HC	Total not pren HC	
	Millenniu m HC	Adare HC	Alamura HC	Tilte HC	Gemeto HC		
	Huma	an resource					
trained man power	1	1	0	1	0	3	2
	Genera	l infrastructur	e				
Functional Pipe /protected water source	1	1	1	1	1	5	0
Regular Electricity	1	1	1	1	0	4	1
Functional Client latrine	1	1	1	1	1	5	0
Communication equipment (phone, Fax)	1	1	1	1	0	4	1
Emergency transport	1	1	1	1	1	5	0
Private room	1	1	1	1	1	5	0
	Drugs	, vaccine and n	nedical supplies				
Iron/folic acid tablet	0	0	0	0	1	1	4
Mgso4	1	1	1	1	0	4	1
Anti-malaria drug	1	1	1	1	1	5	0
TT vaccine	1	1	1	1	1	5	0
ART drugs (EFV,TDF,3TC)	1	1	1	1	1	5	0
Anti TB drugs							
ERHZ	1	1	1	0	1	4	1
STM	1	1	1	0	1	4	1
RHZ	1	1	1	0	1	4	1
RH	1	1	1	0	1	4	1
Drugs for STI							
Erythromycin	1	1	1	1	1	5	0
Ciprofloxacillin	1	1	1	1	1	5	0
Benzathine penicillin	1	1	1	1	1	5	0
Doxycycline	1	1	1	1	1	5	0
Metronidazole	1	1	1	1	1	5	0
Clotrimazol	1	1	1	1	1	5	0

Laboratory reagent							
RPR kit/VDRL	1	1	0	1	1	4	1
Blood group and Rh	1	1	1	1	1	5	0
Hemoglobin kit	1	1	1	0	0	3	2
Dipstick for urine test	1	1	1	1	0	4	1
1 st response	1	1	1	1	1	5	0
Uni gold	1	1	1	1	1	5	0
Vikia	1	1	1	1	1	5	0
RDT for malaria or microscope	1	1	1	1	1	5	0
Functional Equipmen	nt						
Gynecological	1	1	1	1	1	5	0
Examination couch							
Adults weighing scale	1	0	1	1	0	3	2
Blood pressure gauge	1	1	1	1	0	4	1
Stethoscopes	1	1	1	1	1	5	0
Fethescope	1	1	1	1	1	5	0
Thermometer	1	1	1	1	0	4	1
Sterilizer	1	1	1	1	1	5	0
Guideline, recording	and reportin	g material			I		
FANC Guideline	1	1	0	0	0	2	3
Plan document	1	1	1	1	1	5	0
Antenatal clients' cards	1	1	1	1	0	4	1
Antenatal clients register	1	1	1	1	1	5	0
Antenatal clients	1	1	1	1	0	4	1
appointment card							
Reporting formats	1	1	1	1	1	5	0
Hand washing and pe	rsonal prote	ective equipment	1	l	I.		
Running/clean water in	0	1	1	1	0	3	2
the ANC room							
Soap	0	1	1	1	0	3	2
Towel	0	0	1	0	0	1	4
Safety box	1	0	1	1	1	4	1
Waste disposal bin	1	1	0	0	0	2	3
Disinfectant	1	1	1	1	1	5	0
Glove	1	1	1	1	1	5	0

Key present= 1

Not present= 0

Availability of the resource which needed to provide Antenatal Care Service measured by 13 indicators and under each indicator also sub categories. Weight given for each indicator based on essentiality of resource. Finally total score judged on steeled criteria.

Availability of basic amenity, drugs option for ART, STI and malaria under best performance and availability of Iron drugs and west disposal Bin poorly performed. As general which needs some improvement.

Table 3: Judgment matrix for availability dimension on FANC at public health centers of Hawassa town, 2017

Dimensions with indicators		Weight	Observe	Percentag	Judgment
Availability Indicators			d value	e	parameter
				achieved	
proportion of health center with trained man po	ower on FANC	8	4.8	60	
proportion of health center with current budget	plan for FANC	4	4	100	85-100%=V.
proportion of health center having FANC guid	eline	5	3	60	Good
proportion of health center having major	Bp apparatus	3	2.4	80	70-84%
equipments needed to provide FANC service	stethoscope	1	1	100	=Good
	fetuscope	1.5	1.5	100	56-69%= Fair
	Adult weight	2	1.2	60	<=55%=poor
	scale				
	Examination	2	2	100	
	bed				
proportion of health center having essential	Iron/folate	3	0.6	20	
drugs and supplies for pregnant mothers	Mgso ₄	4	3.2	80	
	TT vaccine	2	2	100	
	Anti malarial	3	3	100	
	drugs				
proportion of health center having drug	Erythromycin	1.5	1.5	100	
option and supplies needed for STI	Ciprofloxacillin	1.5	1.5	100	
management	Benzathine	1.5	1.5	100	

	penicillin				
	Doxycycline	1.5	1.5	100	
	Metronidazole	1	1	100	
	Clotrimazol	1	1	100	
proportion of health center having laboratory	For HIV	2	2	100	
supplies for diagnosis and	For syphilis	2	1.6	80	
screening pregnant mothers	Urine for	1.5	1.2	80	
	protein				
	Urine for	1.5	1.2	80	
	infection				
	Hgb test	2	1.2	60	
	Blood group	2	2	100	
	and Rh				
proportion of health center with	functional pipe	3	3	100	
basic amenities	water				
	Client latrine	1.5	1.5	100	
	Emergency	2.5	2.5	100	
	transportation				
	Electricity	2	1.6	80	
	Communication	1.5	1.2	80	
	material				
	Private ANC	4	4	100	
	room				
proportion of health center with no stoke	TDF	2	2	100	
out of drugs for HAART within the	3TC	2	2	100	
last six months	EFV	2	2	100	
proportion of health center with no stoke	ERHZ	2	1.6	80	
out of drugs for TB within the last six	STM	1	0.8	80	
months	RHZ	1	0.8	80	
	RH	2	1.6	80	
proportion of health center with a materials	Running water	1.5	0.9	60	
required for hand washing	Soap	1	0.6	60	

	Towel	0.5	0.1	20	
proportion of health center with a materials	Personal	2.5	2.5	100	
needed for infection prevention is available	protective				
	equipment				
	disinfectants	1.5	1.5	100	
	Sharp	2	1.6	80	
	disposable				
	container				
	waste disposal	2	0.8	40	
	bin				
proportion of health center with materials for	Registration	1.5	1.5	100	
Record keeping and reporting format	books				
	Client cards	2	1.6	80	
	Reporting	1.5	1.5	100	
	formats				
Availability		100	83.1%		Good

6.2 Health care provider's compliance with the national FANC Guideline

A total of 60 observations were conducted at five health centers of Hawassa town. The first two observations from each provider excluded in the analysis to minimize hawthorn effect. A total of 40 observation included in the analysis .During observation time health care providers were assessed to compliance the national FANC guideline.

About 80% of clients were greeted and called by their name before starting examination and for 97.5% of observed participant previous and current medical and obstetric histories were taken.

About 95% and 75% of observed clients were measured for their blood pressure and weight respectively. Only 5% for temperature and 2.5% for pulse rate were measured.

Regarding to physical examination 95%, 35%, 12.5% and 7.5% of observed clients were examined for Conjunctiva, Edema, Skin and breast respectively.

All observed clients were counseled, tested and received test result of HIV. And also about 87.5% clients for blood group and Rh, 87.5% for urine for infection, 85% for syphilis and 22.5% for Hgb laboratory investigation were ordered.

About 90% of pregnant mothers were vaccinated for Tetanus Toxiod and 40% of mothers were got prescription for Iron tablets.

Only 10%, 7.5% and 2.5% of observed clients were counseled for breast feeding, child vaccination and family planning respectively. And more than three forth of clients advised about danger sign for vaginal bleeding, severe headache, abdominal pain, gush of vaginal fluid and less or lose of fetal movement.

All of observed clients were informed on routine and follow up visit. Three forth of the clients were informed her and fetus health condition. Only 47.5% and 45% of clients were oriented about birth preparedness and emergency plan, all assessment and finding of the clients recorded on client's card respectively.

Table 4: Compliance of health care providers to FANC guideline at public health centers of Hawassa town, 2017

Activities		Frequency	%
clients greeted and called by their n	32	80	
Clients previous and current histor	y taken	39	97.5
Clients who were vital sign and	Blood pressure	38	95
weight measured	Pulse	1	2.5
	Respiratory rate	0	
	Temperature	2	5
	Weight	30	75
clients who were physical	Conjunctiva	38	95
examination done	Edema	13	35
	Skin	5	12.5
	Breast	3	7.5
Clients who were laboratory	Blood group and Rh	35	87.5
investigation is ordered	Hgb	9	22.5
	Urine for protein	26	65
	Urine for infection	35	87.5

	Syphilis test RPR/VDRL	34	85
pregnant mothers who were	Test offered	40	100
offered, tested and received HIV	Tested	40	100
test result	Received test result	40	100
Clients injected Tetanus toxoid vacci	ne	36	90
Clients who were got prescription for	r iron and folic acid	16	40
Clients who were advised about	breast feeding	4	10
	Child vaccination	3	7.5
	use of contraception	1	2.5
Clients oriented about danger signs	Vaginal bleeding	38	95
	Severe head ache	33	82.5
	Severe abdominal pain	35	87.5
	blurred vision	30	75
	Vaginal gush of fluid	34	85
	Fever	23	57.5
	Baby moving less or loss	32	80
	of fetal movement		
Clients who were informed about	Nutritional need	34	85
	Personal hygiene	16	40
	Rest	18	45
Clients who were informed her and f	etus health condition	30	75
Clients who were oriented on birth p	reparedness and emergency	19	47.5
plan			
Clients who were advised on routine and follow up visit			100
Eligible mothers who were referred to the next level			100
Clients who were informed for place of delivery			57.5
whose all assessment and finding of	18	45	
client card			

Judgment matrix for compliance based on how many percent of providers achieved from the total observation and weight given for each listed activities. Finally judged based settled criteria. From the total observation HIV test counseling and testing, advice on follow up visit, referring eligible mothers to next level and history taking well implemented. Respiratory and pulse rate measurement, counseling on breast feeding and child vaccination least implemented. As general this needs major improvement.

Table 5: Analysis and judgment matrix for compliance dimension on FANC service at public health centers of Hawassa town, 2017

Dimensions and indicators		Wei	Observe	Percent	Judgment
		ght	d value	age	parameter
Compliance (100%)		give		achieve	
		n		d	
proportion of pregnant mothers greeted and treated by	their name	3	2.4	80%	
proportion of pregnant mothers whose	Obstetric history	3.5	3.412	97.5%	
history taken previous and current	Medical history	2	1.95	97.5%	
(obstetric and medical history					85-100% =V.
proportion of pregnant mothers whose vital sign	Blood pressure	3	2.85	95%	Good
measured	pulse rate	1.5	0.037	2.5%	70 - 84% =
	respiratory rate	2	0		Good
	temperature	1.5	0.075	5%	56-69%= Fair
	weight	1.5	1.125	75%	<= 55%= poor
Proportion of client whose physical examination done	Conjunctiva	1	0.95	95%	
	Edema	2	0.7	35%	
	Skin	1	0.125	12.5%	
	Breast	1	0.075	7.5%	
proportion of pregnant mothers whose laboratory	Blood group and	2.5	2.187	87.5%	
investigation is ordered	Rh				
	Hgb	2	0.45	22.5%	
	Urine for protein	2	1.3	65%	
	Urine for infection	2	1.75	87.5%	
	RPR	2.5	2.125	85%	
proportion of pregnant mothers who offered, tested	Test offered	3	3	100%	
and received test result with post counseling for	Tested	2	2	100%	

HIV/AIDS		Received test	2	2	100%	
		result				
managerian of manageriat worth and	tad for tet	us tousid1	2	1.0	000/	
proportion of pregnant mothers vaccina	ted for tetan	us toxoid who are	2	1.8	90%	
eligible at the time of visit		. 101: .1		1.0	100/	
proportion of pregnant mothers who got p	•		3	1.2	40%	
proportion of pregnant mothers	breast feedin		2	0.2	10%	
oriented on	Child vaccin	ation	2	0.15	7.5%	
	use of contra	ception	2	0.05	2.5%	
proportion of pregnant mothers oriented	Vaginal blee	ding	2	1.9	95%	
about pregnancy related danger signs	Severe		2.5	2.062	82.5%	
	head ache					
	Severe abdor	minal pain	1.5	1.312	87.5%	
	blurred visio	n	2	1.5	75%	
	Vaginal gush	of fluid	2	1.7	85%	
	. ugmur gusi	- 01 11010		1.7	3570	
	Fever		2	1.15	57.5%	
	Baby movin	ng less or loss of	2	1.6	80%	
	fetal movem	ent				
proportion of pregnant mothers	Nutritional n	aad	2.5	2.125	85%	
			2.3			
informed about nutritional need,	Personal hyg	пене		0.8	40%	
personal hygiene and rest	Rest		1.5	0.675	45%	
proportion of pregnant mothers who ar	e informed h	er and fetus health	4	3	75%	
condition						
proportion of pregnant mothers orient	ted on birth	preparedness and	3	1.425	47.5%	
emergency plan						
proportion of pregnant mothers who advice on routine and follow up visit			3	3	100%	
proportion of eligible pregnant mothers referred to the next level			6	6	100%	
Proportion of mothers informed for place of delivery			5	2.875	57.5%	
Proportion of mothers whose all assessment and finding were recorded on			7	3.15	45%	
client card						
Compliance			100	66.185%	Fair	

6.3 Acceptability dimension (satisfaction)

A total of 414 pregnant women were participated from five public health centers of Hawassa Administrative town. From those About 176(42.5%) were from Millennium HC, 80(19.3%) were from Alamura HC, 86(20.8%) were from Adare HC, 44(10.6%) were from Tilte HC and 28(6.8%) were from Gemeto HC.

6.3.1 Socio demographic characteristics of the study participants

Majority of the respondent age group was 372(89.9%) from 20- 34 years. And most of them were married and protestant with 402(97.1%) and 201(48.6%) respectively. Regarding to educational status of women primary school were 164(39.6%) and secondary school were 143(34.5%). And 208(50.2%) of the participant were house wife.

Table 6: socio-demographics characteristics of pregnant women participated on evaluation of FANC at public health centers of Hawassa town, 2017

Variables	Category	Frequency	Percentage
Age of the care giver	15-19 year	40	9.7
	20-34 year	372	89.9
	35 year and above	2	.5
Residence	Urban	353	85.3
	Rural	61	14.7
Marital status	Married	402	97.1
	Unmarried	10	2.4
	Divorced	2	.5
Educational status	no formal education	51	12.3
	Primary education	164	39.6
	Secondary education	143	34.5
	Tertiary education	56	13.5
Religion	Protestant	201	48.6
	Orthodox	99	23.9
	Muslim	88	21.3
	Catholic	25	6.0
	Others	1	.2

Occupation	government employee	54	13.0
	Merchant	73	17.6
	day laborer	44	10.6
	house wife'	208	50.2
	Others(student, farmer)	35	8.5
Monthly household income	<1000 ETB	24	5.8
	1001-2000ETB	125	30.2
	2001-3000ETB	83	20.0
	>3000ETB	182	44.0
Main communication language	Amharic	258	62.3
	Sidamegna	112	27.1
	Wolitegna	28	6.8
	Others	16	3.9

6.3.2 Reproductive Health History

Out of the total respondent 195(47.1%) were primi gravida and 219(52.9%) were multi gravida. And most of the participant 149(36%) were at the second visit. From the total respondent 174(42%) were attend the first visit before 16 Wks of their gestational age.

Table 7: reproductive history of pregnant women participated on evaluation of FANC at public health centers of Hawassa town, 2017

Variable	Category	Frequency	Percentage
Number of pregnancy	1	195	47.1
	2-4	206	49.8
	5-6	11	2.7
	>6	2	.5
Number of children	1	148	35.7
	2-4	66	15.9
	5-6	4	1.0
	no children	1	.2
gestational age at this	<16 Wks	33	8.0
visit	16-24 Wks	113	27.3

	25-32 Wks	156	37.7
	>32 Wks	112	27.1
number of ANC visit	First	90	21.7
	second	149	36.0
	Third	97	23.4
	fourth and above	78	18.8
gestational age at first	<16 Wks	174	42.0
visit	16-24 Wks	214	51.7
	25-32 Wks	21	5.1
	>32 Wks	3	.7
	unknown	2	.5

6.3.3 Pregnancy related information and preventive service received by clients

About 357(86.2%), 314(75.8%), 313(75.6%) of the respondents were informed about danger sign of vaginal bleeding, severe headaches, and less or loss of fetus movement respectively from health care providers.

Only 119(28.7%, and 118(28.5%) of clients were advised about breast feeding and family planning during their visit respectively. and 95.6% of respondents were TT vaccinated and 69.6% were taken Iron tablets.

Table 8: pregnancy related information and preventive services received by pregnant women participated on evaluation of FANC at public health centers of Hawassa town, 2017.

Provided information	Yes	
	Frequency	%
Information on Severe headaches	314	75.8
Information on Vaginal bleeding	357	86.2
Information on Sudden gush of water in the vagina	353	85.3
Information on fever	253	61.1
Information on Severe abdominal pain	292	70.5
Information on Fast or difficult breathing	212	51.2
Information on fetal moving less or not moving at all	313	75.6
Information on Swelling in the face, hands, legs	314	75.8
Information on birth preparedness and emergency plan	234	56.5

Information on importance of iron tablet	218	52.7
Received of iron tablet	288	69.6
injected for tetanus toxoid vaccine	397	95.9
Information on breastfeeding	119	28.7
Information on family planning	118	28.5
HIV test offer	320	77.3
tested for HIV	390	94.2
Information about syphilis	231	55.8
advise about use of treated bed nets	176	42.5

6.3.4 Client satisfaction on different aspect of focused antenatal care service.

To get the total score of each respondent were summed. To categorized clients in to satisfied and dissatisfied on FANC service by using cut point by demarcation threshold formula (46). (Total highest score- Total lowest score)/2+Total lowest score.

Based on demarcation threshold formula $\{(55-19)/2\} + 19 = 37$ the cut point was 37

Table 9: satisfaction of ANC service clients in different aspect of service for pregnant women participated on evaluation of FANC at public health centers of Hawassa town, 2017

Satisfaction indicators	Level and frequency of satisfaction						
Item	Strongly	dissat	Neutral	satisfi	Strongly		
	dissatisfied	isfied		ed	satisfied		
satisfied on the explanation the providers gave to them about a problem or treatment	4	30	73	203	104		
satisfied on the cleanness of the health institution/	4	25	78	176	131		
Satisfied on visual privacy during examination.	2	8	77	188	139		
Satisfied on auditory privacy during examination.	2	8	80	184	140		
Satisfied with the service waiting time.	11	40	154	132	77		

Satisfied with consultation time.	4	20	111	192	87
Satisfied on the way of communication with	2	9	88	195	120
health provider.					
Satisfied on appropriateness of waiting area.	1	14	58	202	139
Interest to continue the rest ANC visit in this	4	18	75	214	103
health center.					
Interest to recommend the relatives and	4	23	75	209	103
others to attend their antenatal visit in this					
facility					
Satisfied on the overall FANC service	5	20	71	210	108
provided.					

From the total exit interview participant 49.5% of clients were dissatisfied with service waiting time and 23.9% of client dissatisfied with consultation time.

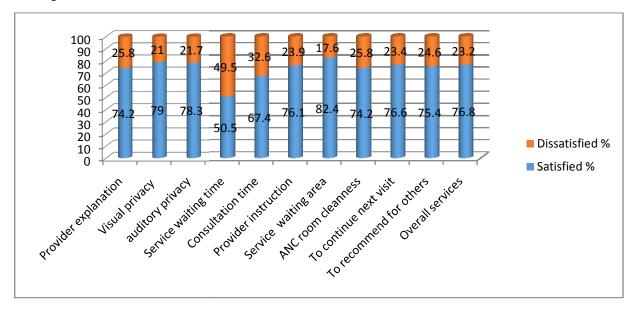


Figure 3 shows client satisfaction on different factors of FANC services at public health centers of Hawassa town, 2017

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Client satisfaction measured by 11 variables from those more satisfied with appropriateness of waiting area and more dissatisfied by service waiting time as general which needs some improvement.

Table 10: Analysis and judgment matrix for Acceptability dimension of the evaluation of focused antenatal care at public health centers of Hawassa town 2017

Dimensions and indicators		Weight	Observe	Percentage	Judgment
Acceptability (satisfaction) (100%)	given	d value	achieved	parameter	
Proportion of pregnant mothers	Proportion of pregnant mothers satisfied on the			74.2	
cleanness of the health institution					
Proportion of pregnant mothers	Visual privacy	7	5.53	79	
who are satisfied on visual and	Auditory privacy	6	4.7	78.3	
auditory privacy during examination					85-100% =
Proportion of pregnant mothers who a	are satisfied on the	10	7.61	76.1	V. Good
way of communication with health pr	ovider				70-84% = Good
Proportion of pregnant mothers w	who are perceive	11	8.45	76.8	56-69% = Fair
satisfied on the overall FANC service	provided				<= 55%= poor
Proportion of pregnant mothers who	9	7.42	82.4		
appropriateness of waiting area					
Proportion of pregnant mothers who are satisfied with		12	6.06	50.5	
the service waiting time					
Proportion of mothers who are	8	5.4	67.4		
consultation time.					
Proportion of mothers who are satisfied	on the explanation	13	9.65	74.2	
the providers gave to them about a proble	m or treatment.				
Proportion of mothers who interest to	continue the rest	8	6.13	76.6	
ANC visit in this health center					
Proportion of mothers who interest t	7	5.28	75.4		
relatives and others to attend their and					
facility.					
Acceptability		100	72.91	Good	

6.3.5: Judgment matrix for overall FANC service

FANC service was measured by looking at three dimensions Availability, compliance and Acceptability (satisfaction) a total of 100%. Availability 30%, compliance 40% and satisfaction 30% were weight given and the evaluation result shows that 24.93%, 26.47% and 21.87% for availability, compliance and satisfaction respectively. The overall evaluation score was 73.27% this judged as good based on agreed judgment parameter.

Table 11: overall judgment matrix of FANC service at public health centers of Hawassa town, 2017.

Dimensions	Agreed	Observed %	Weighted	Judgment parameter
	score	Value	value	
Availability	30%	24.93	83.1	85-100%= V. Good
Compliance	40%	26.47	66.185	70 - 84% = Good
Acceptability	30%	21.87	72.91	56 -69%)= Fair
Total score	100%	73.27%		<= 55%= poor

6.3.5 Factors associated with overall client satisfaction on FANC service

Bivariate analysis was done for socio demographic variable, reproductive health history, information on danger sign, preventive therapy, waiting, and consultation time and laboratory request. Considered as crude association all variable with P-value less than <0.25 were become candidate for multivariate analysis.

Table 12: Bivariate analysis of variables with satisfaction of pregnant women participated on evaluation of FANC service at public health centers of Hawassa town, 2017

			Frequency n= 414		P.value	COR	95% C	I
S.No	Indepen	dent variable	Satisfied	Dissatisfied			lower	Upper
1	Gestational age	<16Wks	17	16	.0001*	.190	.081	.447
		16-24Wks	88	25	.183*	.630	.319	1.245
		25-32Wks	128	28	.550	.818	.423	1.580
		>32Wks	95	17		1		
2	Age of client	15-19year	29	11	.506	2.636	.151	45.914
		20-34 year	298	74	.327	4.027	.249	65.138
		35 year and above	1	1		1		
3	Residence	Rural	50	11	.568	1.226	.608	2.471

5 N v 6 II v 7 F ta 8 T	Educational background Number of ANC visit Information on vaginal bleeding Received Iron tablet prescription TT vaccinated	No formal education Primary school Secondary school Tertiary school First visit Second visit Third visit Fourth and above visit Yes No Yes No Yes	42 137 109 40 125 84 81 38 305 23 247 81 317	9 27 34 16 19 26 19 22 52 34 36 50	.051 .484 .0001* .0738* .015*	1.867 2.030 1.282 1 3.809 1.870 2.468 1 8.671 1 4.235	.741 .996 .639 1.867 .943 1.196	4.704 4.135 2.572 7.772 3.710 5.095 15.884
5 N v v v v v v v v v v v v v v v v v v	Number of ANC visit Information on vaginal bleeding Received Iron tablet prescription TT vaccinated	Secondary school Tertiary school First visit Second visit Third visit Fourth and above visit Yes No Yes No Yes	109 40 125 84 81 38 305 23 247 81	34 16 19 26 19 22 52 34 36	.484 .0001* .0738* .015*	1.282 1 3.809 1.870 2.468 1 8.671	.639 1.867 .943 1.196 4.733	2.572 7.772 3.710 5.095
6 II v 7 F ta 8 T	Information on vaginal bleeding Received Iron tablet prescription TT vaccinated	Tertiary school First visit Second visit Third visit Fourth and above visit Yes No Yes No Yes	40 125 84 81 38 305 23 247 81	16 19 26 19 22 52 34 36	.0001* .0738* .015*	1 3.809 1.870 2.468 1 8.671	1.867 .943 1.196 4.733	7.772 3.710 5.095
6 II v 7 F ta 8 T	Information on vaginal bleeding Received Iron tablet prescription TT vaccinated	First visit Second visit Third visit Fourth and above visit Yes No Yes No Yes	125 84 81 38 305 23 247 81	19 26 19 22 52 34 36	.0738*	3.809 1.870 2.468 1 8.671	.943 1.196 4.733	3.710 5.095 15.884
6 II v 7 F ta 8 T	Information on vaginal bleeding Received Iron tablet prescription TT vaccinated	Second visit Third visit Fourth and above visit Yes No Yes No Yes	84 81 38 305 23 247 81	26 19 22 52 34 36	.0738*	1.870 2.468 1 8.671	.943 1.196 4.733	3.710 5.095 15.884
6 II v 7 F ta 8 T	Information on vaginal bleeding Received Iron tablet prescription TT vaccinated	Third visit Fourth and above visit Yes No Yes No Yes	81 38 305 23 247 81	19 22 52 34 36	.0015*	2.468 1 8.671	1.196	5.095
7 F ta 8 T	vaginal bleeding Received Iron tablet prescription TT vaccinated	Fourth and above visit Yes No Yes No Yes	38 305 23 247 81	22 52 34 36	.0001*	8.671 1	4.733	15.884
7 F ta 8 T	vaginal bleeding Received Iron tablet prescription TT vaccinated	Yes No Yes No Yes	305 23 247 81	52 34 36		8.671		
7 F ta 8 T	vaginal bleeding Received Iron tablet prescription TT vaccinated	No Yes No Yes	23 247 81	34 36		1		
7 F ta 8 T	Received Iron tablet prescription TT vaccinated	Yes No Yes	247	36	.0001*	_	2.579	6.058
8 T	tablet prescription TT vaccinated	No Yes	81		.0001*	4.235	2.570	6.058
8 T	TT vaccinated	Yes		50			2.578	0.330
9 I			317	30		1		
			317	80	.140	2.161	.776	6.021
	I C .:	No	11	6		1		
	Information on	Ye s	200	31	.0001*	2.772	1.693	4.538
S	STI	No	128	55		1		
10 F	HIV test	yes	248	36	.0001*	8.965	5.259	15.280
c	counseling	No	44	50		1		
11 V	Waiting time	<=30 min	112	14	.002*	2.667	1.440	4.939
		>30min	216	72		1		
12 A	ANC information	Yes	55	5	.024*	2.983	1.152	7.722
n	material received	No	277	81		1		
13 P	Partner	Yes	143	12	.0001*	4.767	2.494	9.111
a	accompany with	No	185	74		1		
c	client							
14 A	Advice on	Yes	178	22	.0001*	3.452	2.030	5.870
i	institutional	No	150	64		1		
d	delivery							
15 I	Information on	Yes	276	37	.0001*	7.029	4.181	11.819
10	less or loss of	No	52	49		1		
f	fetal movement							
16 A	Advice on ITN	Yes	165	11	.0001*	6.902	3.536	13.472
υ	use	No	163	75		1		

Variable candidate for multivariate analysis at P-value <0.25(*) and 1 shows reference group.

Mothers gestational age, number of ANC visit, Iron tablet prescription, information on vaginal bleeding, less or loss of fetal movement, ITN utilization, received ANC teaching information material (leaflets), and partner accompany at ANC visit, waiting time, advice on institutional delivery, counseling on HIV and STI, were candidate for multivariate analysis.

Table 13: Multivariate analysis of variables predicting which satisfaction of FANC clients participated on evaluation of FANC at public health centers of Hawassa town, 2017.

S.N	Independent variable		Frequency	y n= 414	P.value	AOR	95% CI	
0			Satisfied	Dissatisfied			lower	Upper
1	Received Iron tablet	Yes	247	36	<.0001*	3.219	1.757	5.899
	prescription	No	81	50		1		
2	Information on less or loss	Yes	276	37	<.0001*	3.457	1.822	6.559
	of fetal movement	No	52	49		1		
3	Advice on ITN use	Yes	165	11	.005*	3.016	1.393	6.530
		No	163	75		1		
4	HIV test counseling	yes	248	36	<.0001*	4.285	2.189	8.388
		No	44	50		1		
5	Partner accompany with	Yes	143	12	<.0001*	4.961	2.285	10.767
	client	No	185	74		1		
6	Waiting time	<30 min	31	279	.013*	2.589	1.221	5.488
		>=30min	55	49		1		
7	Advice on institutional	Yes	178	22	.579	.805	.375	1.730
	delivery	No	150	64		1		
8	ANC information material	Yes	55	5	.506	1.466	.474	4.532
	received	No	277	81		1		
9	Information on STI	Ye s	200	31	.942	1.027	.506	2.084
		No	128	55		1		
10	Information on vaginal	Yes	305	52	.167	1.813	.779	4.219
	bleeding	No	23	34		1		
11	Gestational age	<16Wks	17	16	.757	1.272	.278	5.821
		16-24Wks	88	25	.069	2.575	.928	7.148
		25-32Wks	128	28	.387	1.503	.596	3.789
		>32Wks	95	17		1		
12	Number of ANC visit	First visit	125	19	.182	2.073	.711	6.044
		_						

Second visit	84	26	.889	.929	.329	2.624
Third visit	81	19	.449	1.508	.521	4.369
Fourth and	38	22				
above				1		

Variable at P-value <0.05 (*) In multivariate analysis shows predictor for client satisfaction on FANC service and 1 shows reference group.

6.3.4.2 Multivariate analysis of variables associated with FANC services

On multivariate analysis, six variables were found to be associated with the client satisfaction on antenatal care services. Iron tablet prescription, information on less or loss of fetal movement as pregnancy danger sign, advice about ITN utilization, HIV counseling, waiting time and partner accompany were predictors for client satisfaction on FANC service.

Mothers who were received Iron tablet prescription 3 times more likely to be satisfied on FANC services as compared to those who were not received Iron prescription during their ANC visit. AOR 3.219, 95% CI (1.757, 5.899), P<0.001

Mother who were informed about less or loss of fetal movement as danger sign of pregnancy were 3 times more likely to be satisfied on FANC service than those not informed. **AOR** 3.457, 95%CI (1.822, 6.559), P <0.001

Those care takers who didn't receive information on ITN utilization 3 times less satisfied than those who were received information on ITN utilization. AOR 3.016, 95%CI (1.393, 6.530), P 0.005

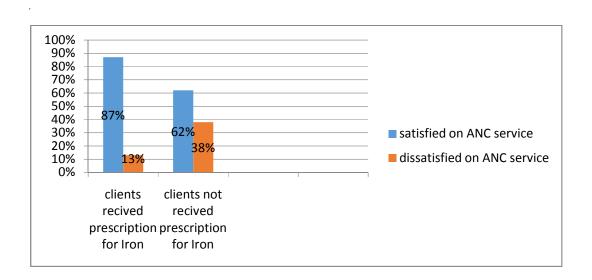
Mother who were informed about HIV before testing were 4.3 times more likely to be satisfied on FANC service than those who were not informed about HIV before testing.

AOR 4.285, 95%CI (2.189, 8.388), P < 0.001

Client who were partner accompany to ANC visit were 5 times more likely to be satisfied than those client partner who were not accompany to ANC visit. **AOR 4.961, 95% CI** (2.285, 10.767), P < 0.001

Client who were waited for <30 minute to see the health care providers were 8 times more likely to be satisfied on FANC service as compared to those who waited more than 30 minute to see health care providers. AOR 2.589, 95% CI (1.221, 5.488), P 0.013

Figure 4: shows Iron tablet prescription and client's satisfaction on FANC at public health centers of Hawassa town, 2017



CHAPTER SEVEN

DISCUSSION

The evaluation employed indicator driven approach to evaluate the implementation status of focused antenatal care service. Three dimensions were employed to judge the performance of focused antenatal care service.

7.1 Availability of FANC service resources

The availability dimension score 83.1 which judged as good.

Four health centers did not have Iron tablet drugs during the study period and also stock out back for two months duration. Iron drugs are one of the essential drugs during pregnancy for prophylaxis and treatment of Anemia. The absence of this drug may affect maternal and fetal health condition and also contribute on client dissatisfaction on service. Similar finding on the study conducted on availability and use of maternal supplies at Amhara region shows 78.3% of health centers had no Iron tablets (26).

Out of 36 health care providers working on antenatal service only 5(14%) of health care providers trained on FANC in last two years. This may leads to poor compliance of health care providers. This finding was different from the study conducted by Ethiopian service provision assessment survey finding which is 62% health care providers trained on FANC (17). The difference might be Ethiopian service provision assessment survey conducted country level study.

Three out of five of the health centers were had no FANC guideline. This may be contributing for poor service compliance of care providers with the national guideline and on the provision of quality care. This finding was in line with service provision assessment plus survey in Ethiopia shows 62% of health centers had no FANC guideline (17). And also deferent from a study conducted in Bahir Dar town on quality of ANC service finding was shows all health centers had no FANC guideline (32).

One health center had no backup electrical power supply. Main power supply interruption affect provision of service mainly laboratory and EPI service. This supported by qualitative finding of A 24 years female MCH coordinator said

"...a big challenge related to power supply. Sometimes main power supply interrupted a pregnant mother's wait a long time to receive laboratory result. To deliver quality ANC service health center should need alternative power supply."

Similarly a study conducted on availability and functional status of FANC laboratory service at Addis Ababa public health facility 5(38.5%) health centers had no backup electrical power supply it also supported by qualitative finding of in-depth interview of Addis Ababa shows 29 year female laboratory technologist participant of in-depth interview said, "Sometimes due to electric power disruption we discarded the collected specimen from clients and when power maintain ask mothers to repeats specimen for some specific test like urine and stool ... unreliable electric power supply were affecting over all our services and clients' loss trusts on the quality of laboratory services." (47).

7.2 compliance of health care providers with the focused antenatal care guideline The compliance score 66.185 which judged as fair.

From 40 observations about 80% of the clients were greeted and called by their name at the beginning of service provision. This is a good opportunity to increase client provider interaction and a way of giving respect for clients. This finding was in line with the study conducted on quality of antenatal care at Bahir Dar town which is 81.2 % of observed ANC clients were friendly greeting offered (32).

Similar with the study conducted on Quality of Antenatal Care Service in Public Health Facilities of Chencha District, Gamo Gofa Zone, Southern Ethiopia 85.7% of pregnant mothers were treated respectfully (greeted) at the beginning and end of the examination (44).

Blood pressure and weight have measured for 95% and 75% of pregnant mothers respectively and only 5% clients for temperature, 2.5% of pulse rate and reparatory rate totally were not measured. Routine measuring of vital sign of pregnant mothers is essential for monitoring maternal and fetal health condition. Nearly similar finding weight of client measurement of the study conducted in Jimma higher 2 health center shows 83.1% for wt. measurement (35).

Advices were given for 85% and 2.5% of clients on nutrition and family planning respectively. The finding of this study was different from a study conducted on quality of antenatal care in Bahir Dar town of 59.9% for nutrition and 40.9% for family planning. This finding was different from the finding of Chencha District, Gamo Gofa Zone shows that advice were given 31.4% of clients about nutrition and 28.9% about family planning (44).

The deference might be due to different practice in between study area and regarding to family planning in this study by considering family planning counseling more providing at delivery and post natal service.

From 97% of pregnant mother's previous and current history were taken. This finding almost similar with the study was conducted in Jimma higher 2 health center shows 94.5% of obstetric and 94.2% of clients of medical history (35).

More than three fourth of the observed clients were counseled for vaginal bleeding, severe headache, less or loss of fetal movement, blurred vision and fever as danger sign of pregnancy. Counseling on danger sign for pregnant mothers during their ANC visit helps early identification and prevention of pregnancy related complication (28).

This finding was deferent from a study was conducted in Jimma higher 2 health center of 34.3% of clients were counseled on major pregnancy related danger sign (35). This difference might be due to the observation was conducted at one health center of Jimma town

About 87.5% of clients were investigated for blood group and Rh, 85% of clients for syphilis test and 22.5% of eligible clients for hemoglobin test request were given. Pregnant mothers a risk of blood loss during delivery time due to this reason all pregnant mothers must test for blood group and late pregnancy and clinical susceptible mothers also for hemoglobin. Low hemoglobin test request related to absence of test kit at some health centers. This finding was supported by resource inventory were absence of Hemoglobin test kit in Tilte and Gemeto health centes.

From 40 observations about 90% of eligible pregnant mothers were TT vaccinated and only 40% of mothers were receive Iron prescription. This could be explained by the absence of Iron tablet at most of health centers. This supported by qualitative finding of resource inventory shows that Four health centers had no Iron drugs.

This finding was in line with ANC evaluation study conducted in Jimma higher 2 health center shows 34.3% of clients were received Iron prescription (35). And also similar with a study conducted in Dodoma Municipal of Tanzania shows76% of mothers TT vaccinated and 23.2% takes ferrous sulphate tablet (31).

Different from EDHS 2011 findings which are 17% 0f pregnant mothers took Iron tablet during their last pregnancy (14). The difference between the findings might be EDHS country level study and the study time variation.

Only 45% of clients finding (assessment, laboratory result, and treatment given...) were recorded on client card. This incomplete recorded of client information might lead to poor management and wrong decision on client ANC service.

7.3 Satisfaction of study participant on FANC services

The acceptability dimension score 72.91 which judged as good.

Overall satisfaction of clients on FANC service of this study was 79.2% this finding was similar with the study conducted in Jimma higher 2 HC of overall satisfaction on ANC service of 85.3% were satisfied (35). And also similar with a study on Quality of Antenatal care services in eastern Uganda shows overall satisfaction of ANC service was 76.4% of clients (33).

This finding was different from the study of Bahir Dar town on quality of antenatal care service shows overall satisfaction was 52.3% of clients (32).

The difference might be due to subjective nature of the respondents because measures of satisfaction depend on subjective response of the clients. Some times with similar situation different level of satisfaction on service users and also were used different variables to measure client satisfaction on FANC service and the study time variation might attributed to this difference. And also It may be due to Better service provided at Hawassa town public health centers

Multivariate analysis of this study shows that a clients who received Iron drug prescription 3.369 times more likely to be satisfied on FANC service than those who were not received Iron drug prescription. WHO recommend routine iron supplementation to all pregnant mothers (37). Most of pregnant mothers susceptible to pregnancy related Anemia. And also it enhances client satisfaction on the service.

Finding shows Mother who were informed about HIV before testing were 3 times more likely to be satisfied on FANC service than those who were not informed about HIV before testing. Before conducting any procedure on client explaining what you want to do it increase client acceptability of the provided service,

This finding was similar with a study conducted in Bahir Dar town on quality of antenatal care service at public health facility shows explaining procedures before service provision as predictor of client satisfaction on FANC service and others predictors different from this study like frequency of visit, consultation time, privacy and sex of service providers (32).

This difference might be due to on the selection of independent variable some deferent like sex of service provider in this study all service providers were female for this reason sex out of variable selection.

The result indicates that majority of the respondent 310(74.9%) were service waiting time less than 30minute. And out of this 279(90%) of mothers were satisfied with the overall FANC service. This finding was similar with a study was conducted in Jimma higher 2 health center of 86.4% of mothers satisfied with the mean service waiting time of 28minute (35).

Limitations of the evaluation

Subjective judgments on perceived satisfaction of the clients on FANC service the response of clients might affected by different personal and social condition. This may affect the overall satisfaction result.

Health care Providers may be show their best behavioral responses during the observation of client provider interaction (Hawthorne effect).

CHAPTER EIGHT

Conclusion and recommendation

8.1 Conclusion

Availability of resource for focused antenatal care service at public health centers of Hawassa town was 83.1% which was judged to be Good with some essential resource absence at health centers. All except Gemeto HC had Iron drugs stock out for more than two month. Alamura and Gemeto HC had no trained health care providers on FANC.

All health centers had available of emergency transport, functional pipe water and private examination room. They had no FANC guideline in Alamura, Tilte and Gemeto health centers. Regarding to laboratory reagent had no syphilis test reagent at Alamura HC and no hemoglobin test kit at Tilte and Gemeto HC. Weight scale was absence at Adare and Gemeto health centers. All these absences of resource affect implementation status of FANC.

Compliance of health care providers with FANC guideline was 66.19% which was judge to be fair. Health care providers giving respect for client were good and also best on previous and current history taking of clients. But On physical examination like pulse rate, reparatory rate, temperature, leg for edema and skin, breast examination poorly compliance of health care providers. And near to total were missed clients counseling on breast feeding, family planning and child vaccination and advising major danger signs of pregnancy were performed properly.

Overall satisfaction of client on focused antenatal care service was 72.9% which was judge to be as good. Mothers who were Received Iron tablet prescription, Information on less or loss of fetal movement as danger sign, Advice on ITN use, HIV test counseling, Waiting time <30 minute and Partner accompany with client were predictor of client satisfaction on FANC service.

Overall FANC service of Hawassa town public health centers was judge to be Good (73.27%).

8.2 Recommendation

To Hawassa town health department

- > To avail Iron drug, syphilis and hemoglobin test reagent consistently for excepted Antenatal care service with communicating SNNPR regional health bureau
- ➤ Provide FANC training for those who had not trained in last two years.
- > Strengthen supply management system to prevent stoke out and wastage of resource.

To health centers

- Alamura, Tilte and Gemeto health centers should have to avail FANC guideline with communicating town health department and west disposal bin in ANC room.
- Millennium and Gemeto health centers need to maintenance of hand washing facility (sink) at ANC room.
- ➤ Gemeto health center need to have backup electrical power supply (generator, solar...) adult weight scale and blood pressure measuring apparatus.

To Health care providers

- ➤ Should be need to deliver full component of FANC service for all clients especially counseling on breast feeding, family planning, child vaccination, personal hygiene, rest, and birth preparedness and emergency plan.
- ➤ Health care providers need to prescribe for clients who must need prophylaxis and therapeutic drugs even if stock out at health centers.
- ➤ Should be need to Documenting all finding (assessments, laboratory finding, prophylaxis and therapeutic drugs given and counseling given) on client card.
- > To minimize service waiting time.

CHAPTER NINE

META EVALUATION

Meta-evaluation can be used to assess the quality of a single study or a set of studies in different ways. Literature identifies two types of meta-evaluations. First, formative meta-evaluations assist evaluators to plan, conduct, improve, interpret, and report their evaluation studies. Second, summative meta-evaluations – conducted following an evaluation – help audiences see an evaluation's strengths and weaknesses, and judge its value.

This paper is focus on formative Meta evaluation on evaluation of Implementation evaluation of FANC in Hawassa town public health centers by considering program Evaluation standard, guiding principles of evaluators and Fundamental ethical principles.

The evaluation was conducted after performing all the procedure to synthesis the final report of this evaluation. By using standardized checklist adopted from American Joint committee of Evaluation (49) With 4 standards:

Meta evaluation was conducted by principal evaluator. The overall quality of evaluation shows very good. Which score 94 out of 120.

9.1: Utility standards

To enhance use of the finding this evaluation was fully participatory from the starting to the end the stakeholders are identified at the beginning so that the rest of the stakeholders were identified by them. The judgment criterion for the evaluation of FANC service for this evaluation was set by stakeholders and the indicators are also commented by them.

The evaluation process was conducted with a standard way by consulting advisors and different stakeholders. The evaluation questions were the needs of stakeholders and the finding at the end disseminated timely according to the interest of the stakeholders. This all were assure the evaluation finding by the target beneficiary.

9.2: Feasibility standards

To ensure the practicality of FANC evaluation and keep the stakeholders involve, all the points upon which planning agreements were made into activity and as much as possible measures to reduce wastage of resource was sought through a clear communication with those early identified stakeholder.

9.3: Propriety standards

All data collection tools were designed by considering the ethical and legal issues for the rights and welfare of the study participant were considered. Ethical clearance planned to be taken

There was no procedure that affects privacy, dignity, confidentiality, and rights of participants. The data collection was complete and optimal in assessing the ANC. Stakeholders agreed and consensus reached to do this process evaluation before starting the evaluation and Conflict of interest was dealt with openly and honestly.

9.4: Accuracy standards

The evaluation process was focus from design to the end of evaluation to assure quality of data. The program is described in clear and understandable manner and the context in which the program is being implemented was addressed. The sources of information were cited and the reliability and validity of the information produced were clearly described in method part. In order to address the evaluation questions in the evaluation, respective quantitative and qualitative analysis method is chosen and also data were triangulated to improve accuracy.

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ANNEXES

1. Exit interview Questionnaire developed to assess implementation status of focused antenatal care services at public health centers of Hawassa town, southern Ethiopia, 2017

Instructions for the interviewers:

First of all greeting the mother as they leave the area where antenatal care services are provided, and ask them whether they are willing to be asked some questions about the services they received today. If they accept, make sure that you are in a place that comfortable and privacy for the mothers. Ask them for their informed consent to be interviewed (read the form below). Please, interview only women who give their informed consent. For each item in the interview, circle the code of the appropriate response.

Informed Consent Form for the Client interview

My name is _____ and I am a data collector for the evaluation conducted on the implementation status of focused antenatal care service in Hawassa town health public health centers, the study is conducted to see what services and information, clients are given during their antenatal care visits. This information helps us to propose ways in which to improve the services offered. As part of this study, we are interviewing women who had an antenatal care visit today. In these interviews, we ask them about the services and information they obtained, their satisfaction with the services received, and other health related issues. The interview was private, and none of the providers that saw you today was present. However, your participation in this study is voluntary, and you can refuse totally or interrupt at any time. If you choose not to participate in our study, you not be affected in any way but your participation has great contribution for the study. If you accept to participate and you change your opinion later, you can also ask me to interrupt the interview whenever you want.

hall I proceed with the	questions?		
Yes	No		
If yes signature		_	
Date of interview			_
Time at which interview	v started		
Is the questionnaire for	the client	Α	completed

B. Refused

A. Exit interview Questionnaire

1. Background Information of the Client and Facility Identification

|--|

S.No	Questions	Responses	Skip	
101	Age of client	1. < 20 years 2. 20-34 years 3. >=35		
102	Residence	1. Urban 2. Rural		
103	Marital status of the client	1. Married 4. Widowed		
		2. Unmarried 5. Other		
		3. Divorced		
104	Educational background of the client	1. No formal education 4.Secondary		
		2. Read and write 5.Tertiary		
		3. Primary		
105	Occupation	1. Government employee 4. House wife		
		2. Merchant 5.Other		
		3. Day laborer		
106	Monthly Income of the household	1. <1000 birr 2. 1000-2000		
		3. 2001- 3000birr 4. >3000birr		
107	Religion	1. Orthodox 2.Protestsnt 3. Muslim		
		4. Catholic 5. Other		
108	Main Communication language	1. Amharic 2. Sidamegna 3. Wolitigna		
		4.other		
2. Rep	roductive Health History			
201	How many times did you become	1. 1 times 2. 2-4 times	If	first
	pregnant including this pregnancy?	3.5-6 times 4> 6times	time	
			Q 203	
202	How many living children of your own	1. 1 times 2. 2-4 times		
	do you have?	3 5-6 times 4> 6times		
203	For how long have you been pregnant	1. <16Wks 2. 16-24Wks		
	in this pregnancy? Number of weeks	3 25-32Wks 4. >32Wks		

204	In the future, do you want to become	1. Yes 2. No 3. Undecided
	pregnant again?	
205	How long would you like to wait before	1. 1yrs 2. 2years
	becoming pregnant again?	3 3years 4. >4years
206	During this pregnancy, how many times	1. First 2. Second
	have you come to this or other clinics	3 Third 4. Fourth
	for antenatal services?	
207	Approximately how long had you been	1. <16Wks 2. 16-24Wks
	pregnant when you received your first	3 25-32Wks 4.>32Wks
	antenatal checkup?	
3. Gen	eral Information during ANC Visit from	Health Care Providers to the Client on danger sign of
pregna	ancy (First Ask the Client Generally on V	Which Information Is Given Then Aid)
301	Vaginal bleeding	1. Yes 2. No
302	Sudden gush of water in the vagina	1. Yes 2. No
303	Severe headaches with blurred vision	1. Yes 2. No
304	Fever	1. Yes 2. No
305	Severe abdominal pain	1. Yes 2. No
306	Fast or difficult breathing	1. Yes 2. No
307	Baby moving less or not moving at all	1. Yes 2. No
308	Swelling in the face, hands, legs	1. Yes 2. No
	Pregnancy related and ANC service	s information
309	During this ANC visit discussed how to	
	prepare for birth preparedness and an	1. Yes 2. No
	emergency plan in pregnancy?	
310	During this ANC visit, did a health	
	provider give you any information about	1. Yes 2. No
	the special precaution and care during	
	pregnancy?	
311	During this ANC visit, did any health	1. Yes 2. No
	provider talk to you about the	
	importance of taking iron or folic acid?	
312	Are you taking iron/folic acid tablets?	1. Yes 2. No

313	Today, have you been injected for		
	tetanus toxoid vaccine?	1. Yes 2. No	
314	During this ANC visit, did a health		
	provider talk to you about	1. Yes 2. No	
	breastfeeding?		
315	During this ANC visit, did a health		
	provider talk to you about family	1. Yes 2. No	
	planning?		
316	During this visit, did a health provider		
	discuss what health facility you should	1. Yes 2. No	
	go to give birth?		
317	Where do you plan to give birth?	1. Public hospital 5. At home	
		2. Private hospital 6. Other	
		3. Private clinic 7. Not decided	
		4. Public health centers	
318	During this visit, did a health provider		
	talk to you about PMTCT of	1. Yes 2. No	
	HIV/AIDS?		
319	Have you been tested for HIV/AIDS?	1. Yes 2. No	
320	Does the health care provider talk any	1. Yes 2. No	
	information about STI?		
321	Does the health care provider screen you	1. Yes 2. No	If N0
	for syphilis?		Q 323
322	Does the health care provider talk about	1. Yes 2. No	
	syphilis test result?		
323	During this visit, did a provider advise		
	you to use treated bed nets/mosquito	1. Yes 2. No	
	nets to prevent malaria?		
324	Did you receive any pregnancy related	1. Yes 2. No	
	information materials during this ANC		
	visit?		
325	How long did you wait between the time	1. <30 min 2 >=30 min	
	you arrived at this facility and the time		

	you were able to see a provider for the	
	consultation?	
326	How do you rate time you waited was	1. Too long 3. Short
	too long, reasonable, or short?	2. Reasonable 4. Don't know
327	How long did it take to consult health	1. <30min 2. >=30min
	care provider at ANC room?	
328	Did the baby's father or your current	
	partner accompany you to this ANC	1. Yes 2. No
	visit?	
329	By what means of transport did you get	1. Taxi 4.Walk
	to the health center today?	2. Bus 5. Other
		3. Private car
330	Approximately how long did it take you	1. <30min 2.30-1hrs 3. >1hrs
	to get to the health center today?	
	4. Client satisfaction on the services	•
401	Are you satisfied with the amount of	1. Strongly Agree 4. Disagree
	explanation, examination and treatment	2. Agree 5. Strongly Disagree
	from provider given to you?	3. Neutral
402	Are you interested with the cleanliness	1. Strongly Agree 4. Disagree
	of the antenatal care room?	2. Agree 5. Strongly Disagree
		3. Neutral
403	Are you satisfied on the visual privacy	1. Strongly Agree 4. Disagree
	during examination (that other clients	2. Agree 5. Strongly Disagree
	could not see you?)	3. Neutral
404	Are you satisfied on the auditory	1. Strongly Agree 4. Disagree
	privacy during discussion (that other	2. Agree 5. Strongly Disagree
	clients could not hear you?)	3. Neutral
405	Are you satisfied on the waiting time for	1. Strongly Agree 4. Disagree
	antenatal care services before	2. Agree 5. Strongly Disagree
	consultation?	3. Neutral
406	Are you satisfied with the duration of	1. Strongly Agree 4. Disagree
	time for consultation?	2. Agree 5. Strongly Disagree
		3. Neutral

407	Are you interested with the interaction	1. Strongly Agree	4. Disagree
	of health care provider to discuss	2. Agree	5. Strongly Disagree
	problems or concerns about your	3. Neutral	
	pregnancy?		
408	You want to continue the rest ANC	1. Strongly Agree	4. Disagree
	visits in this health facility	2. Agree	5. Strongly Disagree
		3. Neutral	
409	You recommend your relatives &others	1. Strongly Agree	4. Disagree
	to attend their antenatal visit in this	2. Agree	5. Strongly Disagree
	facility	3. Neutral	
410	Are you satisfied on the overall services	1. Strongly Agree	4. Disagree
	provided to you?	2. Agree	5. Strongly Disagree
		3. Neutral	
411	Are you satisfied on the convenience of	1. Strongly Agree	4. Disagree
	waiting area?	2. Agree	5. Strongly Disagree
		3. Neutral	

Health center name

Time at which data collection is finished
Name and Signature of Data collector
Name and signature of supervisor
Received date
Thank you for your participation!!!

Consent form for care provider observation

My name isI am a data collector for evaluation of ANC service in						
Hawassa town public health centers and I am here to observe the clinical sessions at this						
unit. This is part of the overall program evaluation and it help to improve the ANC						
Service delivered at this health centers the observation were conducted while the health						
care provider delivering services and all findings of the observation were kept						
confidential. the finding between evaluation team. Further we were ensure that any						
information we include in our report does not identify you as the respondent.						
Remember, everything was undertaken with participant agreement and willingness was						
respected.						
Are you willing to participate in this interview?						
A. Yes B. No.						
If Yes signature						
Consent form for client observation						
Thank you for visiting our health center for receiving ANC services. Today I was						
provide you services. He is data collector on evaluation of ANC service to observe the						
clinical process and provide additional support which was help me to provide you better						
services. During the overall process your information kept confidential as previous and						
no one was identify you as part of the observation or respondent. Remember,						
everything undertaken based on your will.						
Do you agree to be observed?						
A. Yes B. No						
If yes signature						

B. Observation checklist prepared to measure the compliance of health care provider for evaluating of focused antenatal care at public health centers of Hawassa town administration, 2017

Health facility Name	Client identification number
ANC service provider code	client card number
ANC visit number	

For all observation list not performed activity if the reasons other than provider side please write the reason on remark part

Provider client interaction and clinical observation			performed	not	Remar
				performed	k
1	Greets and calls client by her name				
2	Take the previous and current obstetric and medic client	al history of the			
3	Take vital sign and weight of the client	Blood pressure			
		pulse rate			
		respiratory rate			
		Temperature			
		Weight			
4	Do physical examination of skin, conjunctivae, legs for edema, and varicose veins; thyroid, mouth, breast and lungs.				
5	Order or done laboratory investigation needed for Pregnant mother	Blood group and Rh			

			Hemoglobin		
			Blood sugar		
			Urine analysis		
			RPR		
			Gram stain		
6	offer, test and give test result with				
	post counseling for HIV/AIDS for client		HIV Test		
	and link HIV positive mother to PMTCT		offered		
			Perform HIV		
			Test		
			Give test result		
			Link HIV		
			positive mother		
			to PMTCT		
			service		
7	Inject Tetanus toxoid vaccine				
8	Counsel and prescribe for iron/folic acid				
9	Orients the mother on breast feeding, baby vaccination and use of				
	contraception				
10	Counsels on danger sign of pregnancy	vaginal bleeding			
		Severe h	eadache		
		Severe a	bdominal pain		
		blurred v	vision		
		Vaginal	gush of fluid		
		Fever			

		Baby moving less or loss		
		of fetal movement		
11	Informs prognant mothers, shout	nutritional need		
11	Informs pregnant mothers about	nutritional need		
		personal hygiene		
		D		
		Rest		
12	Information gives her and fetal health condit	ion		
13	Orients on birth preparedness and emergence	y plan		
14	advice on routine and follow up visit for the	client		
	-			
15	Refers eligible pregnant mothers to appropriate health facility			
16	Counsel on place of delivery			
10	Counsel on place of delivery			
17	Records all assessment and finding of the mother			
18	Thanks for her times			
10	Thanks for her times			
	Laboratory Investigations Request Observ	vation		
19	HGB/HCT			
19	HGB/HC1			
20	Syphilis test			
21				
21	Blood group and Rh factor			
22	Urine analysis			
23	Random blood sugar			
24	Blood film			

Name and signature of observer_	

1. Availability assessment tool to measure FANC service at public health centers of Hawassa town 2017.

Consent form for care pr	ovider observation						
My name is	I am a principal evaluator for this evaluation of ANC						
service in Hawassa town	service in Hawassa town public health centers and I am here to conduct resource						
inventory at this health cer	nter. This is part of the overall program evaluation and it was						
help to improve the AN	C Service delivered at this health centers the inventory						
conducted all resource ne	reded to implement ANC service. And all findings of the						
inventory kept confidentia	al. And shared only the finding between evaluation team.						
Further we ensure that any	information we include in our report does not identify you as						
the respondent Remembe	er, everything undertaken with your agreement and your						
willingness respected.							
Are you willing to p	articipate?						
B. Yes	B. No.						
If Yes signature							

Name of health center	
Head of the health centers	
Coordinator of ANCunit	

A. Staff profile of the health center

Category		Male	Female	Total	Remark
Medical staff	Health officers				
	Nurses				
	Mid wife				
	Environmental health				
	HEWs				
	Lab.technologist				
	Lab.technician				
	Pharmacy and Druggist				
	Others				
Administrative	HIT (health informatics				
Staff	technologist)				
	Cleaner				
	Guard				L
	Others				

No	Questions		Available			
	Interviewer: observe and interview the condition	ons of infrastructure in	Yes	No	Remark	
	the facility and mark if it has the following					
1	Functional Pipe /protected water source					
2	Regular Electricity					
3	Functional Client latrine					
4	Communication equipment (phone, Fax)					
5	Emergency transport					
6	Clean facilities (e.g., the floors are swept, there	is no dust in the desks)				
7	Enough chairs or benches in waiting areas					
	ANC counseling and examination rooms, equ	ipment, and job aids				
	Interviewer: Ask to see ANC examination roo	m. For the following iter	ns, chec	k wheth	er the item is	
	in the room where the examination is conducted	or in an adjacent room				
8	Describe the setting for	Private room				
	the examination room	Common room (share				
		with other unit)				
9	Hand washing facility					
	Clean water supply					
	Soap					
	Towels					
10	Materials and equipment required to provide ANC services in					
	working order					
	Gynecological Examination couch					
	Adults weighing scale					
	Blood pressure gauge					
	stethoscopes					
	Fethescope					
	Thermometer					
11	Sterilizer/ disinfectant material		Yes	No	Remark	
	Autoclave					
	Heat sterilizer					

	Using bleach			
	Boiling			
	Using disposable only			
	Others			
12	Guide line, record keeping and reporting Materials			
	FANC Guide line			
	Antenatal clients' cards			
	Antenatal clients register			
	Antenatal clients appointment card			
	Reporting formats			
13	Infection prevention and patient safety material			
	Safety box (for sharp instrument disposal)			
	Waste disposal bin (black, yellow, red)			
	Disinfectant			
	Glove			
14	Information, education, and communication (IEC) materials			
	Visual aids for teaching about			
	Different FP methods			
	STIs			
	PMTCT of HIV			
	Model for demonstrating condom use			
	Postpartum care/newborn care/breastfeeding			
	Danger signs of complications in pregnancy			
	Information leaflets/booklets for clients to take home on	Yes	No	Remark
15	On ANC			
	On FP			
	On HIV/AIDS			
	On PMCT of HIV			
	On STIs			
16	Drugs, contraceptives, and reagents			

	TDF			
19	ART drugs	Yes	No	Remark
	Clotrimazol			
	Metronidazole			
	Doxycycline			
	Benzathine penicillin			
	Ciprofloxacillin			
	Erythromycin			
18	Drugs and supplies for sexually transmitted infections	Yes	No	Remark
	Female condoms			
	Male condoms			
	Levonorgestrel intrauterine devices			
	IUCD kits			
	Copper-bearing intrauterine devices			
	Implanon implants			
	Spermicidal			
	Progestin-only injectable			
	Emergency contraceptive pills (not pre-packed)			
	Emergency contraceptive pills (pre-packed)			
	Progestin-only pills			
	Combined oral contraceptives			
7	Contraceptives Explain deferent FP method option	Yes	No	Remark
	TAT (tetanus anti- toxin)			
	Tetanus toxoid vaccine			
	Anti-malaria drugs			
	Ferrous sulphate tabs			
	Folic acid			
	ANC drug and vaccine			
	previous 6 month			
	visit. And ask respective persons for any stoke out history in the			
	are kept and mark, for each of them, if it is available on the day of your			

	3TC			
	EFV			
	Neverapine			
	Lopinavir/Retinovir			
20	Anti TB drugs all combination for pregnant women	Yes	No	Remark
	ERHZ			
	RH			
	STM			
	RHZ			
21	Laboratory reagent	Yes	No	Remark
	RPR kit			
	Blood group and Rh			
	Hemoglobin kit			
	Dipstick			
	Gram stain			
	1 st response			
	Uni gold			
	Vikia			
	RDT for malaria			

Document Review checklist of client folder

No	Questions	Coding categories		Remark
	Is the following information recorded or attach in the	Information	is	
	clinical history of ANC clients card?	clearly recor	ded?	
		Yes	No	
1	Client's name			
2	Age of the mother			
3	LMP(last menstrual period)			
4	EDD(expected date of delivery)			
5	Gravida (number of pregnancy)			
6	Para(number of delivery)			

7	Previous obstetrics history		
8	Current pregnancy		
9	General medical history		
10	Vital sign (BP,RR, pulse rate, Temperature)		
11	Laboratory investigation (Hgb, RPR, Blood group		
	&Rh,) request and result		
12	Treatment given		
13	Prophylaxis given		
14	HIV/AIDS test and result of the client		
15	Date of future ANC visit		
16	Information related to referral if appropriate		
17	Name and signature of care provider		

Document review checklist for health center

No	Questions	Coding categories Recorded document		Remark
	Is the following recorded information is available in			
	facility document?	is availab	le?	
		Yes	No	
1	Is there plan documented of facility			
2	Are there up dated plan documents for activity and			
	finance for FANC			
3	Was there any stoke out of drugs for FANC if yes			
	mention it?			
4	Are all the drugs for FANC for their stoke balance			
	monitored			
5	Is there at least three supportive supervision done in			
	budget year from Town health department			
6	Is there list of trained staff on FANC			

Consent form for key informant
My name is I am a principal investigator for evaluation of focused
antenatal care service at public health center of Hawassa town this study conducted to see
what look likes the implementation status of ANC service and the finding of evaluation helps
for program improvement. Your information highly support our evaluation process and
mainly for program improvement. All findings of the interview kept confidential. The
finding shared only with evaluation team. Further we was ensure that any information we
include in our report does not identify you as the respondent. If you choose not to participate
in our study you was not penalized in any way but your participation has great contribution
for the study if you accept to participate and you change your opinion later. You can also ask
me to interrupt the interview whenever you went.
Do you agree? A. Yes B. No
If yes signature
The interview A. completed B. refused
 Interview guide for town health department level managers How do you explain the managerial role of this health center regarding to FANC? (probe, what is your contribution for FANC service improvement)
2. Does the health institution have specific plan document for focused antenatal care? If not, why? (Probe, focus area of plan, supported by budget, participant during planning process)
3. How do you explain the allocation of budget for FANC? (Probe, based on what criteria)

5. Do you have integrated supportive supervision team? If yes what is the main activities If			
No why?(Probe, they have annual plan, work flow, strength and weakness)			
6. What are your plans to improve the capacity of health care providers? (Probe, training, education and incentives)			
7. How do you mangeresources needed to implement FANC service in all health centers? (Probe, how you avail, prevent stoke out and manage resource wastage)			
8. What is the area that needs improvement to deliver quality FANC care service in all health centers? (Probe, regarding availability essential resources, health care provider updated knowledge and motivation and Acceptability of the services for the client interest?)			
Thank you for your time!			

	view guide for health center heads Does the health centers have specific plan document for focused antenatal care
	service? If not, why (probe, if yes describe the content of the plan)
2.	Do you think you have adequate resource to implement FANC service? If No why? (Probe, regarding to human, financial and material)
3.	Is there clear job description for all staff in health centers? If not, why?(probe, brief discus FANC staff job description)
4.	Explain how do you allocate budget for FANC at this health centers? If not why?
5.	Have you ever faced shortage or lack of materials in last six month? If yes why? (Probe, if the stock out occurs how you solve?)
6.	How do you motivate the staff members (probe, training, education, incentive)
7.	Has any trained professionals turn over within the last two years? If yes, what do you think the reason
8.	What is the area that needs improvement to deliver quality FANC care service in this
	HC?(Probe, regarding availability essential resources, health care provider updated knowledge and motivation and of the services for the client interest?)

Thank you for your time!

nterv 1.	view guide for MCH/FANC coordinator Does the unit have specific plan document for focused antenatal care? If not, why?
	(probe, what are your contribution to achieve this plan)
2.	Does the health care provider trained on FANC in the last two year? If not why?
	(Probe, type of training, how many staff trained proportional staff with service taker)
3.	Has FANC unit essential instruments and materials needed to provide the services and
	how do you verify? If not why?
4.	How do you manage data quality and in what way use information for service improvement.
5.	What do you work to retain FANC client in your health centers? (probe, to satisfy beneficiary).
6.	How do you monitor routine FANC service (probe, like activity, staff
	performance)

Thank you for your time!

የተባልጋዮችፈቃደኝነ ትማዠ ቅያፎርም ፡

ስሜ-----ይባላል: :

እነ የ ምስራመገሀዋሳ ከተማነይየ ቅድመላር አን ልግለት አሰጣላይበ ሚረን መናት እንደሚሻሰብ ነበበ መን ሰሆን ይህተናት የሚረን መገሀዋሳ ከተማወነ ተየማነኙ

የ መን ግስ ትጠፍ ጣቢያ ዎቸለ እና ቶቸብ ቅድመ ላ ድጊዜ የ ጣኒጣቸ መን የ አገ ልገ ለቅና የ መረጃ አሰጣ የሂደትለ መለየ ት ነ መ ፡ ከዘህ ጥና ት የ ጣኒ ሻመረጃ ለጥራት ላለመና ቅድመ ላ ደ አገ ልግለ ትአገ ልግለ ትአን ይቅመ ነ ጠት እንደለበት እንደ ንጠቱ ምድረደናል፡ ፡ እንደጥና ተአካልአደር ፣ ንዛሬ ወደ ጠፍ ጣቢያ ለቅድመ ላ ደ አገ ልጎ ለቅ የ መነትን እና ቶቸ ስለተሰጣቸ መልገ ልግለ ት፡ መረጃ፡ በ አገ ልግለ ተላይስለን በራቸ መልር ካታና እንዳና ደ የ ጠፍ ተጓዳኝ መጠደ ቆቸን እያደረግንን መ ፡ የ ምናን ረገ መመንደ ቅያለር ስም ፌታደለ ማንም ማይነ ነር ከመንተ ምባሻ ግር እረ ስምንያ ዩዎት ባለ ጥያዎች ምቢታ አን ዳቸመን እዚህ ሊነ ፕአይች ለም ፡ ነ ነርግን በጥና ተላይየርስ ምተሳት ፎበ ፌታደኝን ትላይየተመስረተና በጥና ተላይላለ መሳተፍ ከፈለጉጥያቄ ዎችን እንዳልጠይ ቅምጣ ቅምይ ቾች ላሉ፡፡ በጥና ታችን ላይባይሳተፉ ምንን አይነ ት የ መደረስ ብዎቅጣት የለምነር ግን የርስም መሳተፍለጥና ታችን ከፈተኛ አስተ ሞፆ አለመ፡፡ ለመሳተፍ ፌታደኛ ከሆኑ በ ኃላ እን ካህሳ ብምት የርበሬ ልጉመ ልላ ይለያስቆ ማኝና ከጥና ተራስምን ለይነ ለይነ ለይቶላሉ፡፡

*ፕያቄዎቹን***ማ**ትπልλቭላለ*υ*?

1. ስዎ 2. አይደስም

መጠይቁየተጀመረበትሠዓት-----

1.ተጠናቂል 2.ተቂርጧል

1. የተጠያቂዋናየጤናድርጅቱመስያመረጃዎች

የጤናድርጅቱሰም	
P+7632Pm12+T(-

ቀ 101 የተ7ልጋይዋዕድሜ 1. 20 ስመት በታች 2. 20-34 ስመት 3 35 ስመት እና ከዚ <i>p</i> በሳይ	
3 35 ስመት እና ከዚያ በሳይ	
102 የተ7ልጋይዋስድራሻ 1. 7ጠር	
2. ከተማ	
103 የተ7ልጋይዋየጋብቻሁኔታ 1. ይ7ባች 4. ቧሳየሞተባት	
2.	
3. የተፈታች	
104 የትምህርትደረጃ 1. መደበኝትምህርትየሴሳት4. ሁስተኝደረጃ	
2. ማንበብናመፃፍየምትችል5. ሦስተኝደረጃ	
3. የመጀመሪያደረጃት/ት	
105 የሥራሁኔታ 1. የመንግስትሠራተኝ4. የቤትአመቤት	
2. ነጋዱ 5. ሴሳ	
3. የቀንሠራተኝ	
106 መርሃዊጠቅሳሳየቤተሰብ7ቢ 1.ከ1000ብር በታቸ2.ከ1000-2000 ብር	
3. 2001-3000ብር 4. ከ3000ብር በሳይ	
107 ኃይማኖት 1. ኦርቶዶክስ 4. ካቶሲክ	
2. ፕሮቴስታንት 5. ሴሳ	
3. ሙስሲም	
108 ዋናየመግባቢያቋንቋ 1.አማርኛ 2.ሲዳሚኝ	
3. መሳይትኝ 4. ሴሳ	
2. የሥነተዋልዶጤናታሪክ	
201 ይህንአርግዝናጨምሮስንቴስርግዘሻ 1.ስንድ 2. ሁስት- ስራት የወ	ዋዲ১መጀመየ
ል? 3. <mark>አም</mark> ስት-ስድስት 4. ስድስት አ ና በሳይ ከሀ	nሆነፕዶቁ20

			3
202	ስሁ ንበህይመትስንትልጆችስ ስ ሽ?	1.ስንድ 2. ሁስት- ስራት	
		3.	
203	ሕሁን ሕርግዝናሽስ ንትሳምንትነው?		
200	110 711C 711 7111 71-15 71 7w :		
204	ከስሁንበኋሳበድጋሚማር7ዝትፈልጊ	1.	
	ያስሽ?		
205	ድጋሚከማር7ዝሽበፌትስምንያህል		
	ወርመቆየትትፈልጊዖስሽ?		
206	በሕሁኑክርግዝናሽስንትጊዜበጤናተቋ	1. ሕንድ 2. ሁስት	
	ምአርግዝናክትትልስድር7ሳል?	3. ሶስት 4. ሕራት አና በሳይ	
207	በግምትስመጀመሪያጊዜየአርግዝና	1.ከ16 ሳምንት በታቸ 2. 16-24 ሳምንት	
	ክትትልስትመጪየስንትሳምንትክር	3. 25-32 ሳምንት 4. 32 ሳምንት በሳይ	
	ግዝናነበርሽ?		

3.ክባኮዎንከተያቁቁተር301-308

ያሱትንጥያቄዎችበመጀመሪያስሰስደ7ኝምልክቶችከጤናባስሙያምንምንመረጃእንዳ7ኝከጠየቁበኋሳካሳስታወሱየ ሚቀ**ተ**ስውያስታውሳቸው።

301	በብልትደምስሰመፍሰስተነግሮሻል?	1. ስዎ	2.	
302	ድን7ተኝየሆነየብልትፈሳሽበብዛትመ	1.	2.	
	ፍሰስንበተመስከተተነግሮሻል?			
303	ከባድየሆነራስምታትናየሕይንቭዥታ	1.	2.	
	በተመስከተተነግሮሻል?			
304	ስስትኩሳትተነግሮሻል?	1.	2. ስልተነገረኝም	
305	ከባድስሰሆነየሆድህመምተነግሮሻል	1.	2.	
	?			
306	ፈጣንየሆነክናስስስተነፋፈስችግርተነ	1.	2.	
	ግሮሻል?			
307	ስስፅንስአንቅስቃሴመቀነስወይምበ	1.	2. አልተነ7ረኝም	

	ጭ ራሽአንቅስቃሴመፕፋትተነግሮሻል	
	?	
308	ስስፌትአግርአናአጅአብጠትተነግሮሻ	1.
	ត?	
309	በአርግዝናክትትልወቅትስስወሲድቅ	1.
	ድመዝግጅትአናድንንተኛሲከሰትስስ	
	ሚችልነ7ርዝግጅትተነግሮሻል?	
310	በዚህየአርግዝናክትትልጊዜየጤናባስ	1. ስዎ 2. ስልተነ7ረኝም
	ሙዖውትኩረትስስሚሹየአርግዝናአ	
	ንክብካቤዎችተነግሮሻል?	
311	የ ጤናባስሙያስስደምማነስመድኃኒ	1. ስዎ 2. ስልተነገረኝም
	ትጥቅምነግሮሻል?	
312	የደምማነስመድኃኒትተሰፕቶሻል?	1.
313	ዛሬ୧መንጋጋቆልፍክትባትተከትበሻ	1.
	ត?	2. አልተከተብኩም
314	በአርግዝናክትትልወቅትየጤናባስሙ	1. ስዎን 2. ስልተነገረኝም
	ያስስጡትማ ምባትበተመስከተተ ነግሮ	
	ሳ ል?	
315	በዚህአርግዝናክትትልወቅትየጤናባ	1. ስዎ 2. ስልተነገረኝም
	ስሙያቤተሰብምጣኔተነግሮሻል?	
316	የ ጤናባስሙያየትጤናድርጅትመውስ	1. አዎን 2. አልተወደየንም
	ድክንዳስብሽተወያይታችኋል?	
317	የትስመውስድስቅደሻል?	1. በመንግስትሆስፒታል 5. ቤት
		2. በግልሆስፒታል 6. ሴሳ
		3,በግልክሲኒክ7.
		4.Ոመንግስትጤናጣቢያ
318	በዚህየአርግዝናክትትልወቅትከአናት	1.
	ወደ ልጅ ሴች ስይቪ ሽንዳይተሳስፍስስ	2. አልተደረ7ልኝም
	ሚደረግበትመንገድከጤናባስሙይገ	
	ስዓተደርንልሻል?	

319	የሴችስይቪምርመራተደርጎልሳል?	1.	
320	୧ ጤናባስሙይስስሕባሳዘርበሽታ <i>ገ</i> ስ¶	1. ስዎን 2. ስስተደረገስኝም	
	ተደርጎልሻል?		
321	የጤናባስሙ ያየቅ ምኝምረመራተደር	1.	መልሱስልተደ
	าิลาั?		ረ <i>ገ</i> ልኝምከሆነ
			ተ ያቁ 323
322	የቂፕኝምርመራከተደረ7ልሽውጤቱ	1.	
	ተነግሮሻል?		
323	በዚህየአርግዝናክትትልዕወቀትየጤ	1.	
	ናባስሙ ይበኬሚካልስስተነከረ የ ስል		
	ጋሕንበር አጠቃኞም		
	አናወባንሰመከሳከልአንደሚ <i>ያገ</i> ሰግ		
	ልምክ ርተሰፕጦሻል?		
324	አዚህ ጤናጣቢያከደረሱበ ኋ ሳበጤናባ	1.ከ30 ደቂቃ በታቸ	
	ስሙያውስመታየትምንያህልቆየሽ?	2. ከ30 ደቂቃ በሳይ	
325	የ ቀ የ ሽበት ንሰዓት /ጊዜ/	1. በጣምረጅምሰዓት 3. ሕጭርሰዓትነው	
	አ ንዴትት7ም ታ ስሽ?	2. ተመጣጣኝነው 4. ስሳውቅም	
326	በቅድመወሲደክትትልክፍልውስምየ	1. ከ30ደቂቃ በታቸ	
	ጤናባስሙያው/ዋምርመራ ክናየምክ	2. ከ30 ደቂቃ በሳይ	
	ርሕ7ልግሎት አስኪጨርስም ን ይህልደ		
	ቂቃቆይታስደረግሽ?		
327	በባስቤትሽበቅድመመሲድክትትልመ	1.ሕዎን 2. ሕይመጣም	
	ቅትስብሮሽይመጣል?		
328	ዛሬወደጤናጣቢያበምንየመ <i>ጓጓ</i> ዣስ	1. ታክሲ 4. በአግር	
	ደነትመጣሽ?	2. አውተብስ 5. በሴሳ	
		3. የግልመኪና	
329	በግምትወደዚህጤናጣቢያስመድረስ	1 ከ 30 ደቂቃ በታቸ 2. 30-1 ሰሽት	
	ምንያህልደቂቃ/ሰዓትፈጀብሽ?	3 ከ 1 ሰሕት በሳይ	
4. በአ	ገ ልግሎትሳይየተ ገ ልጋዮች አርካ ታ		
401	ስስችግርወይምስሰሚያስፈልግሽህክ	1. በጣምተስማምቶኛል 4. አልተስማማኝም	
<u> </u>			

	ምናከጤናባስሙይየተሰጠኝንማብራ	2. ተስማምቶኝል5. በጣምስልተስማማኝም
	ሪበተመስከተክርካታሽንእንዴትትመ	3. ምንምሕደልም
	ደብዖስሽ?	
402	ከጤና ባስሞዶ ጋራ በነበረዉን	1. በጣምተስማምቶኝል4. አልተስማማኝም
	የጪይይት የሰዓት ቆይታን	2. ተስማምቶኛል 5. በጣምስልተስማማኝም
	በሚመስከት ያስሽን አርካታ	3. ምንምስደልም
	እንዴት ትመድብ ያሽ?	
403	ደሰመመደቀዓ	1. በጣምተስማምቶኝል 4. አልተስማማኝም
	ክፍልንፅህናበተመስከተደስተኝነሽ?	2. ተስማምቶኝል 5. በጣምስልተስማማኝም
		3. ምንምትደልም
404	በምርመራጊዜበነበረውከሰዎችአይታ	1. በጣምተስማምቶኝል4. አልተስማማኝም
	የመከሳከልሁኔታበመመልከትደስተኝ	2. ተስማምቶኛል5. በጣምስልተስማማኝም
	ነበርሽ?	3. ምንምስደልም
405	ከባሰሙያጋርበነበረሽውይይትጊዜሃ	1. በጣምተስማምቶኝል4. አልተስማማኝም
	ሳብሽንሴሳሰውሳይሰማስማስረዳትየ	2. ተስማምቶኛል5. በጣምስልተስማማኝም
	ነበረውሁኔታደስተኝነሽ?	3. ምንምስደልም
406	የጤናባስሙያው/ዋከማግኝትሽበፊት	1. በጣምተስማምቶኝል4. አልተስማማኝም
	የጠበቅሽውወረፋደስተኝነሽ?	2. ተስማምቶኛል 5. በጣምሕልተስማማኝም
		3. ምንምስደልም
407	የጤናባስሙያበስጠቃሳይበነበረውሽ	1. በጣምተስማምቶኝል4. አልተስማማኝም
	ቀራረብ /ስገሳስጽ/	2. ተስማምቶኛል5. በጣምስልተስማማኝም
	ስክብሮትደስተ ኝነሽ?	3. ምንምስደልም
408	ቀጣዩንየአርግዝናክትትልበዚህጤና	1. በጣምተስማምቶኝል4. አልተስማማኝም
	ጣቢያትቀፕያስሽ?	2. ተስማምቶኝል5. በጣምስልተስማማኝም
		3. ምንምስደልም
409	ስሴሎችንደኞችሽወይምዘመዶችሽበ	1. በጣምተስማምቶኝል4. አልተስማማኝም
	ዚህጤናጣቢይየአርግዝናክትትልአን	2. ተስማምቶኝ 5. በጣምስልተስማማኝም
	ዲያደርንትመክሪያቸዋስሽ?	3. ምንምስደልም
410	በሕጠቃሳደባ7ኝሽውየአርግዝናክትት	1. በጣምተስማምቶኝል4. አልተስማማኝም
1	<u>ል</u> ደስተ ኛነሽ ?	2. ተስማምቶኛል 5. በጣምሕልተስማማኝም

		3. ምንምስደልም	
411	ስሰወረፋ መጠበቅያ ቦታን	1. በጣምተስማምቶኛል4. አልተስማማኝም	
	በተመስከተ አርካታሽን	2. ተስማምቶኝል5. በጣምስልተስማማኝም	
	አ ንዴትትመድብ ያ ስሽ?	3. ምንምስደልም	

ቃስመጠየቁየተጠናቀቀበትሰዓት	
የመረጃሰብሳቢውስምናፌርማ	
የሱፐርቫይዘርስምና ፌ ርማ	
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Measuring tools and Information matrix of indicators

Information matrix on health care providers compliance for evaluation of focused antenatal care at Hawassa town public health centers, 2017.

Evaluation	Dimensi	Indicators	Source of		Tools
question	on		informatio	Methods	
			n		
Are the	Availabil	proportion of health center with trained man	Training	Resource	Resource
resources	ity	power on FANC	log book	inventory	inventory
needed to					checklist
provide		proportion of health center with current budget	Budget	Resource	Resource
FANC		plan for FANC	document	inventory	inventory
available?					checklist
If not why?		proportion of health center having FANC	ANC care	Resource	Resource
		guideline	provider	inventory	inventory
					checklist
		proportion of health center having full	ANC unit	Resource	Resource
		equipments needed to provide FANC		inventory	inventory
		(functional: Bp apparatus, stethoscope,			checklist
		fetuscope, Adult weight scale, Examination			
		couch for gynecological exam)			
		proportion of health center having essential	Dispensar	Resource	Resource
		drug drugs and supplies for pregnant mothers	y & drug	inventory	inventory
		(preventive therapy, iron/folate., Mgso ₄ , TT	store		checklist
		vaccine, and antimalarial drug, ITN)			
		proportion of health center having all drug	Dispensar	Resource	Resource
		option and supplies for STI management	y & drug	inventory	inventory
			store		checklist
		proportion of health center having laboratory	Lab. Unit	Resource	Resource
		reagent and supplies for diagnosis and	& lab	inventory	inventory
		screening pregnant mothers (Hiv, syphilis,	technician		checklist

urine test Hgb)			
proportion of health center with functional	Health	Resource	Resource
pipe water	center	inventory	inventory
			checklist
proportion of health center with no stoke out of	Bin card	Resource	Resource
drugs for HAART and TB within six months		inventory	inventory
			checklist
proportion of health center with privacy room	ANC unit	Resource	Resource
for FANC clients		inventory	inventory
			checklist
proportion of health center with full of	Health	Resource	Resource
materials required for hand washing	center	inventory	inventory
			checklist
proportion of health center with full materials	ANC unit,	Resource	Resource
for infection prevention is available.(Sharp	Health	inventory	inventory
disposable container, general waste bin,	center		checklist
syringes, disinfectants, disposal pit or			
incinerator)			
proportion of health center with materials for	ANC unit	Resource	Resource
record keeping, registration books, reporting		inventory	inventory
formats and client cards			checklist

Information matrix on availability resource for evaluation of focused antenatal care at Hawassa town public health centers, 2017

Evaluation	Dimensi	Indicators	Source of	Met	Tools
question	on		information	hods	
Do focused	Complia	proportion of pregnant mothers greeted and	Care provider	Observati	Semi
antenatal care	nce	treated by their name		on	structured
providers					observation
comply with					checklist
FANC		proportion of pregnant mothers whose	Care provider	Observati	Semi

guidelines in	history taken (obstetric and medical		on	structured
delivering	history)			observation
focused				checklist
antenatal care	proportion of pregnant mothers whose vital	Care provider	Observati	Semi
service? If not	sign measured (BP, pulse rate, respiratory		on	structured
why?	rate, temperature and weight)			observation
				checklist
	proportion of pregnant mothers who have	Care provider	Observati	Semi
	got general examination (from head to toe)		on	structured
				observation
				checklist
	proportion of pregnant mothers whose	Care provider	Observati	Semi
	laboratory investigation is ordered for	& lab. request	on	structured
	blood group and Rh, hemoglobin, blood			observation
	sugar, urine analysis, gram stain and RPR			checklist
	proportion of pregnant mothers who	Care provider	Observati	Semi
	offered for HIV/AIDS		on	structured
				observation
				checklist
	proportion of pregnant mothers who are	Care provider	Observati	Semi
	tested for HIV/AIDS		on	structured
				observation
				checklist
	proportion of pregnant mothers who	Care provider	Observati	Semi
	received HIV/AIDS test result with post		on	structured
	counseling			observation
				checklist
	proportion of pregnant mothers injected	Care provider	Observati	Semi
	tetanus toxoid vaccine	& client	on	structured
				observation
				checklist
	proportion of pregnant mothers who got	Care provider	Observati	Semi
	prescription for iron and folic acid		on	structured

			observation
			checklist
proportion of pregnant mothers oriented	Care provider	Observati	Semi
on breast feeding, baby vaccination and use		on	structured
of contraception			observation
			checklist
proportion of pregnant mothers oriented	Care provider	Observati	Semi
about danger signs (vaginal bleeding and		on	structured
discharge, headache, fever, vaginal gush of			observation
fluid, abdominal pain, blurred vision)			checklist
proportion of pregnant mothers oriented	Care provider	Observati	Semi
on use of post natal care visit		on	structured
			observation
			checklist
proportion of pregnant mothers informed	Care provider	Observati	Semi
about nutritional need, personal hygiene		on	structured
and rest			observation
			checklist
proportion of pregnant mothers examined	Care provider	Observat	Semi
fetal condition (position, presentation,		ion	structured
heartbeat)			observation
			checklist
proportion of pregnant mothers who are	Care provider	Observat	Semi
informed her and fetus health condition		ion	structured
			observation
			checklist
proportion of pregnant mothers oriented on	Care provider	Observat	Semi
birth preparedness and emergency plan		ion	structured
			observation
			checklist
proportion of pregnant mothers who advice	Care provider	Observat	Semi
on routine and follow up visit		ion	structured
			observation

			checklist
proportion of eligible pregnant mothers	Client folders	Observat	Semi
referred to the next level		ion	structured
			observation
			checklist
Proportion of mothers informed for place	Care provider	Observat	Semi
of delivery		ion	structured
			observation
			checklist
Proportion of mothers whose all	Client folders	Observat	Semi
assessment and finding were recorded on		ion	structured
client card			observation
			checklist
Proportion of mothers who are thanked for	Care provider	Observat	Semi
her times		ion	structured
			observation
			checklist

Information matrix on Acceptability dimension for evaluation of focused antenatal care at Hawassa town public health centers 2017

Evaluation	Dimensio	Indicators	Source	Methods	Tools
question	n		of		
			informat		
			ion		
Are the	Acceptabi	Proportion of mothers satisfied on the	client	Exit	Semi structured
clients	lity	cleanness of the health institution		interview	questionnaires
utilizing		Proportion of mothers who are satisfied	Client	Exit	Semi structured
focused		on visual privacy during examination		interview	questionnaires
antenatal care		Proportion of mothers who are satisfied	Client	Exit	Semi structured
in public		on auditory privacy during examination		interview	questionnaires
health centers		Proportion of mothers who are satisfied	Client	Exit	Semi structured
of Hawassa		on the way of communication with		interview	questionnaires

town	health care provider		
satisfied with	Proportion of mothers who are satisfied Clie	ent Exit	Semi structured
focused	on the quality of examination and	interview	questionnaires
antenatal care	treatment provided		
provided to	Proportion of mothers who are satisfied Clie	ent Exit	Semi structured
them? If not	on appropriateness of waiting area	interview	questionnaires
why?	Proportion of clients who perceive that Clie	ent Exit	Semi structured
	their information confidential	interview	questionnaires
	Proportion of mothers who are satisfied Clie	ent Exit	Semi structured
	with the service waiting time	interview	questionnaires
	Proportion of pregnant mothers who Clie	ent Exit	Semi structured
	satisfied with the FANC service cost	interview	questionnaires
	Proportion of pregnant mothers who Clie	ent Exit	Semi structured
	interest to continue the rest ANC visit in	interview	questionnaires
	this health center		
	Proportion of mothers who interest to Clie	ent Exit	Semi structured
	recommend the relatives and others to	interview	questionnaires
	attend their antenatal visit in this facility		

Relevance matrix of indicators used for evaluation of FANC service in Hawassa town public health centers 2017.

S.no	Indicators	Dimension			
		Availabilit y	Complianc e	Acceptability	
1	Proportion of health center with trained human power on FANC.	RRR	RRR	RR	
2	Proportion of health center with current budget plan for FANC.	RRR	RR	R	

3	Proportion of health center having FANC guideline.	RRR	RRR	R
4	Proportion of health center having equipments needed to provide FANC	RRR	RR	RR
5	Proportion of health center having essential preventive and therapeutic drugs and supplies for pregnant mothers	RRR	R	RRR
6	Proportion of health center having drug option needed for STI management.	RRR	RR	R
7	Proportion of health center having laboratory supply for diagnosis and screening pregnant mothers.	RRR	RR	RR
8	Proportion of health center having utility Facility.	RRR	RR	R
9	Proportion of health center with no stoke out of drugs for HAART within six months	RRR	RR	RR
10	Proportion of health center with no stoke out of drugs for TB treatment within six month	RRR	RR	RR
11	Proportion of health center with privacy room for FANC clients.	RRR	R	RRR
12	Proportion of health center which have materials required for hand washing.	RRR	R	R
13	Proportion of health center with a materials needed for infection prevention is available.	RRR	R	R
14	Proportion of health center with materials needed for record keeping.	RRR	RR	R
15	Proportion of pregnant mothers greeted and treated by their name.	R	RRR	RR
16	proportion of pregnant mothers whose history taken	R	RRR	RR

17	Proportion of pregnant mothers whose vital sign measured.	R	RRR	RR
18	Proportion of pregnant mothers who have got physical examination.	R	RRR	RR
19	Proportion of pregnant mothers whose laboratory investigation is ordered.	R	RRR	RR
20	Proportion of pregnant mothers who got PMTCT service	R	RRR	R
21	Proportion of pregnant mothers injected tetanus toxoid vaccine.	R	RRR	RR
22	Proportion of pregnant mothers who got prescription for iron and folic acid.	R	RRR	RR
23	Proportion of pregnant mothers oriented on breast feeding, baby vaccination and use of contraception.	R	RRR	RR
24	Proportion of pregnant mothers oriented about danger signs.	R	RRR	RR
25	Proportion of pregnant mothers informed about nutritional need, personal hygiene and rest.	R	RRR	R
26	Proportion of pregnant mothers oriented on birth preparedness and emergency plan.	R	RRR	R
27	Proportion of pregnant mothers who advice on routine and follow up visit.	R	RRR	R
28	Proportion of eligible pregnant mothers referred to the next level.	R	RRR	R
29	Proportion of mothers informed for place of delivery.	R	RRR	R

30	Proportion of pregnant mothers who are informed her and fetus health condition.	R	RRR	RR
31	Proportion of mothers whose major assessment and finding were recorded on client card.	R	RRR	R
32	Proportion of mothers satisfied on the cleanness of the examination room.	R	R	RRR
33	Proportion of mothers who are satisfied on visual privacy during examination.	R	R	RRR
34	Proportion of mothers who are satisfied on auditory privacy during examination.	R	R	RRR
35	Proportion of mothers who are satisfied on the way of communication with health care provider.	R	RR	RRR
36	Proportion of mothers who are perceived satisfied on the overall FANC service provided.	R	RR	RRR
37	Proportion of mothers who are satisfied on appropriateness of waiting area.	R	R	RRR
38	Proportion of clients who perceive that their information confidential.	R	R	RRR
39	Proportion of mothers who are satisfied with the service waiting time.	R	R	RRR
40	Proportion of pregnant mothers who interest to continue the rest ANC visit in this health center,	R	RR	RRR
41	Proportion of mothers who interest to recommend the relatives to attend their antenatal visit in this facility.	R	RR	RRR

KEY

RRR = very relevant RR = relevant R = poorly relevant

Dimension	Indicators	Numerators	Denominators
	Proportion of health center with trained human power on FANC.	Number of HCs have trained human power on FANC	Total number of HCs observed for having
Availability	Proportion of health center with current budget plan for FANC.	Number of HCs have current budget plan for FANC.	Total number of HCs observed for having
	Proportion of health center having FANC guideline.	Number of HCs have FANC guideline	Total number of HCs observed for having guideline
	Proportion of health center having equipments needed to provide FANC (functional: Bp apparatus, stethoscope, fetuscope, Adult weight	Number of HCs have having equipments needed to provide FANC	Total number of HCs observed
	scale, Examination couch for gynecological exam).		
	Proportion of health center having essential preventive and therapeutic drugs and supplies for pregnant mothers (iron/folate., Mgso ₄ , TT vaccine, and anti malarial drug, ITN).	Number of HCs which have essential preventive and therapeutic drugs and supplies for pregnant mothers	Total number of HCs observed
	Proportion of health center having drug option needed for STI management (Erythromycin, Ciprofloxacillin, Benzathine penicillin, Doxycycline, Metronidazole, and Clotrimazol).	Number of HCs which have drug option needed for STI management	Total number of HCs observed
	Proportion of health center having laboratory supply for diagnosis and screening pregnant mothers (HIV, syphilis, urine test for protein, Hgb test, urine test for infection and blood, group and Rh factor).	Number of HCs has laboratory supply for diagnosis and screening pregnant mothers.	Total number of HCs observed
	Proportion of health center with utility (functional pipe water, electricity and communication material).	Number of HCs which have utility	Total number of HCs observed
	Proportion of health center with no stoke out of drugs for HAART within six months (TDF, 3TC, EFV, Neverapin, Lopinavir/Retinovir tablet and syrup and).	Number of HCs with no stoke out of drugs for HAART within six months.	Total number of HCs observed

Proportion of health center with no stoke out of drugs for TB treatment within six month (ERHZ, RH, STM, RHZ combination drug).	Number of HCs with no stoke out of drugs for TB treatment within six month	Total number of HCs observed
Proportion of health center with privacy room for FANC clients.	Number of HCs with privacy room for FANC clients.	Total number of HCs observed
Proportion of health with privacy room for FANC clients.(Running water, soap and towel).	Number of HCs have	Total number of HCs observed
Proportion of health center with a materials needed for infection prevention is available (Sharp disposal container, general waste bin, syringes, disinfectants, disposal pit or incinerator).	Number of HCs with privacy room for FANC clients.	Total number of HCs observed
Proportion of health center with materials needed for record keeping (registration books, reporting formats and client folder).	Number of HCs with materials needed for record keeping.	Total number of HCs observed

Numerators and Denominators for indicators in each dimension

Dimension	Indicators	Numerators	Denominators
	proportion of pregnant mothers greeted and treated	Number of pregnant	Total number of
	by their name	mothers greeted and treated by their name	clients observed during observation
			session
Compliance	proportion of pregnant mothers whose history taken (obstetric and medical history)	Number of pregnant mothers whose history taken.	Total number of clients observed during observation session
	proportion of pregnant mothers whose vital sign measured (BP, pulse rate, respiratory rate, temperature and weight)	Number of pregnant mothers whose vital sign measured.	Total number of clients observed during observation session
	Proportion of pregnant mothers who have got physical examination (from head to toe).	Number of pregnant mothers who have got physical examination	Total number of clients observed during observation session

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Proportion of pregnant mothers whose laboratory investigation is ordered (for blood group and Rh, hemoglobin, blood sugar, urine test for protein, urine test for infection and RP).	Number of pregnant mothers whose laboratory investigation is ordered.	Total number of clients eligible for lab. During this observation session.
Proportion of pregnant mothers who got PMTCT service (offered, tested and post counseling for HIV/AIDS test).	Number of pregnant mother who got PMTCT service.	Total number of clients eligible during observation session.
Proportion of pregnant mothers injected tetanus toxoid vaccine.	Number of pregnant mother injected tetanus toxoid vaccine.	Total number of clients eligible during observation session.
Proportion of pregnant mothers who got prescription for iron and folic acid.	Number of pregnant mother who got prescription for iron and folic acid.	Total number of clients eligible during observation session.
Proportion of pregnant mothers oriented on breast feeding, baby vaccination and use of contraception.	Number of pregnant mother who oriented on breast feeding, baby vaccination and use of contraception.	Total number of clients observed during observation session.
proportion of pregnant mothers oriented about danger signs (vaginal bleeding and discharge, headache, fever, vaginal gush of fluid, abdominal pain, blurred vision)	Number of pregnant mother oriented about danger signs.	Total number of clients observed during observation session.
Proportion of pregnant mothers informed about nutritional need, personal hygiene and rest.	Number of pregnant mother informed about nutritional need, personal hygiene and rest	Total number of clients observed during observation session.
Proportion of pregnant mothers oriented on birth preparedness and emergency plan.	Number of pregnant mother oriented on birth preparedness and emergency plan.	Total number of clients observed during observation session.
Proportion of pregnant mothers who advice on routine and follow up visit.	Number of pregnant mothers who advice on routine and follow up visit.	Total number of clients observed during observation session.
Proportion of pregnant mothers referred to the next level.	Number of pregnant mothers referred to the next level	Total number of clients eligible during

Proportion of mothers informed for place of delivery.	Number of pregnant mother informed for place of delivery.	observation session. Total number of clients observed during observation session.
Proportion of pregnant mothers who are informed her and fetus health condition.	Number of pregnant mother who informed her and fetus health condition.	Total number of clients observed during observation session.
Proportion of mothers whose major assessment and finding were recorded on client card (client history, physical examination, laboratory investigation, counseling and treatment and prophylaxis given for client).	Number of client card whose major assessment and finding were recorded on client card.	Total number of clients observed during observation session.

Dimension	Indicators	Numerators	Denominators
	Proportion of mothers satisfied on the cleanness of	Number of pregnant	Total number of
	the examination room.	mother satisfied on	pregnant
	the examination room.	the cleanness of the	mothers
		examination room.	interviewed.
	Proportion of mothers who are satisfied on visual	Number of pregnant	Total number of
	privacy during examination.	mother satisfied on	pregnant
	privacy during examination.	visual privacy during	mothers
		examination.	interviewed.
	Proportion of mothers who are satisfied on	Number of pregnant	Total number of
	auditory privacy during examination.	mother satisfied on	pregnant
	addition y privacy during examination.	auditory privacy	mothers
		during examination.	interviewed
	Proportion of mothers who are satisfied on the way	Number of pregnant	Total number of
	of communication with health care provider.	mother satisfied on	pregnant
	of communication with health care provider.	the way of	mothers
		communication with	interviewed
Acceptability		health care provider.	
	Proportion of mothers who are satisfied on the	Number of mothers	Total number of
	overall FANC service provided.	who are satisfied on	pregnant
	overall Trive service provided.	the overall FANC	mothers
		service provided.	interviewed
	Proportion of mothers who are satisfied on	Number of mothers	Total number of
		who are satisfied on	pregnant

	appropriateness of waiting area.	mothers interviewed
Proportion of clients who perceive that their information confidential.	Number of pregnant mothers who perceive that their information was confidential.	Total number of pregnant mothers interviewed
Proportion of mothers who are satisfied with the service waiting time.	Number of mother who are satisfied with the service waiting time.	Total number of pregnant mothers interviewed
Proportion of pregnant mothers who interest to continue the rest ANC visit in this health Center.	Number of mothers who are interested to continue the rest ANC visit in this health Center	Total number of pregnant mothers interviewed
Proportion of mothers who interest to recommend the relatives and others to attend their antenatal visit in this facility.	Number of mother who interested to recommend the relatives and others to attend their antenatal visit in this	Total number of pregnant mothers interviewed.