

Process evaluation of responsiveness of delivery service in Jimma university medical center, Oromia region, south west, Ethiopia

An Evaluation thesis to be Submitted to Jimma University, Institute of health, Faculty of public health, Department of health policy and management, Health monitoring and evaluation coordinating unit for the partial fulfillment of degree of masters of science in health monitoring and evaluation

Principal Evaluator

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Jimma, Ethiopia

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Abstract

Background: Health system responsiveness is related to the non-monetary, non-clinical quality of care that reflects respect for human dignity and interpersonal aspects of the care process. Obstetric violence and childbirth mistreatment are global problems, but the worst form occurs in low-income countries such as sub-Saharan Africa. Responsiveness is a challenging situation that needs early identification of the specific gaps to tackle. There was paucity or lack of published studies in the topic, disrespect and abuse in maternal care practiced repeatedly in Ethiopia. In JUMC, 91.7% of maternal care service was in disrespect and abusive manner.

Objectives: To evaluate responsiveness of labor and delivery service at Jimma university medical center, 2021

Methods: A single-case study design was used for this study, using mixed methods sequentially. In this evaluation, availability with 17 and responsiveness with 24 indicators were used. A quantitative data collection with a sample size of 422 using consecutive method was conducted from May 09–June 02, 2021, and 15 purposefully selected KII for qualitative data. Data entry was done using Epi Data version 4.6.02 and SPSS version 25 for analysis of quantitative data, whereas thematic analysis for qualitative data. Multiple linear regression analysis was used to check the association of the dependent variable with independent variables.

Result: A total of 422 respondents participated in this study, with a response rate of 100%. The availability of resources and responsiveness of delivery service in the maternity unit of JUMC was 84.4% and 60.52 %, respectively. Stethoscope, thermometer and guidelines were not available. Some drugs and supplies are frequently interrupted during the evaluation period. One care provider assigned to more than six clients per shift in the maternity unit of JUMC. Care providers' personal behavior, work overload, and lack of motivation like training hinders them from giving responsive delivery service. At p-value<0.05 at 95%CI, residency, occupation, average monthly income, and mode of current delivery were factors associated with the responsiveness of delivery service.

Conclusion and recommendation: The overall responsiveness of delivery service was good in JUMC. Furthermore, to give responsive delivery service, JUMC should recruit more healthcare providers, avail all supplies daily, and better to train healthcare providers.

Key words: Delivery service, responsiveness, Jimma University, Jimma, Ethiopia

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Table of contents

Contents	
Abstract	I
Acknowledgement	II
Table of contents	III
List of figures	VI
List of tables	VII
Acronyms/ abbreviations	VIII
Chapter 1: Introduction	1
1.1: Background	1
1.2: Statement of Problem	
1.3: Significance of an evaluation	5
Chapter 2: Description of the program	6
2.1: Stage of program development	6
2.2: Stakeholders of the program	7
2.3: Program goal and objectives	9
2.4: Major strategies of delivery services	
2.5: Delivery service activities and resources	11
2.6: Program logic model	
Chapter 3: Literature Review	14
3.1. Availability dimension	14
3.2. Responsiveness dimension	14
3.3. Conceptual frame work of delivery service responsiveness	
Chapter 4: Evaluation Questions and Objectives	19
4.1: Evaluation questions	19
4.2: Objectives	
Chapter 5: Evaluation Methods	
5.1: Study area	
5.2: Evaluation Period	
5.3: Evaluation approach	

	5.4: Evaluation design	20
	5.5: Focus of evaluation	21
	5.6. Dimensions of evaluation	21
	5.6: Indicators and Variables	22
	5.7: Populations and sampling	25
	5.7.1: Source population	25
	5.7.2: Study population	25
	5.7.3: Study units and sampling units	25
	5.7.4: Sampling procedure/technique	25
	5.7.5: Sample size determination	26
	5.7.6: Inclusion and exclusion criteria	26
	5.8: Data Collection	26
	5.8.1: Development of data collection tools	27
	5.8.2: Data collectors	28
	5.8.3: Data collection field work	28
	5.9: Data management and analysis	28
	5.9.1 Data quality management	28
	5.9.2: Data entry	29
	5.9.3: Data cleaning	29
	5.9.4: Data analysis	29
	5.10: Matrix of analysis and judgment	30
	5.11: Ethical Issues	30
	5.12: Evaluation dissemination plan	31
	5.14. Operational definitions	31
C	hapter 6: Result	31
	6.1 Socio-demographic characteristics of study participants	31
	6.2. Reproductive health history of respondent	33
	6.3. Availability of resources in delivery service of JUMC	34
	6.3.1. Human resources	34
	6.3.2. Infrastructures for delivery services	35

6.3.3. Availability of supplies for delivery service	. 36
6.4. Responsiveness of delivery service in JUMC	. 41
6.5. Factors associated with responsiveness	. 47
Chapter 7: Discussion	. 51
7.1. Availability Dimension	. 51
7.2 Responsiveness dimension	. 51
7.3 Factors affecting the responsiveness of delivery service	. 53
7.4: Limitations of evaluation	. 55
Chapter 8: conclusion and recommendation	. 56
8.1. Conclusion	. 56
8.2. Recommendation	. 57
Chapter 9: Meta-evaluation	. 58
6.1. Utility	. 58
6.2. Propriety	. 58
6.3. Feasibility	. 58
6.4. Accuracy	. 58
References	. 59
Annexes	. 66
Annex 1: relevance and information matrix of indicators of evaluation responsiveness o	f
delivery service	. 66
Annex 2: Budget breakdown	. 70
Annex 3: Data collection tools	. 71
Annex 3.1. Check list for inventory	. 71
Annex 3.2. Human Resource in labor, delivery and maternity ward of JUMC, 2021	. 74
Annex 4: English Version exit interview Questionnaires	. 75
Annex 5: Afan oromo version for clients exit interview questionnaires	. 81
Annex 6: Amharic version for clients exit interview questionnaires	. 87
Annex 7: Interview guide for in-depth interview of key stakeholders	. 92
Annex 8: Meta-Evaluation Judgement checklist	. 95

List of figures

Figure 1:Logic model of delivery service in Jimma university medical center, Jimma,	
Ethiopia, 20211	3
Figure 2: Conceptual Framework for delivery service Responsiveness (Source: adapted from	n
Robone et al. 2011)1	8
Figure 3: Study participants' mode of delivery with their age category in evaluation of	
responsiveness of delivery service in JUMC, Jimma, 2021	3

List of tables

Table 1: The stakeholders' analysis of Jimma university medical center delivery service,
Jimma, 20217
Table 2 : Socio-demographic and family income characteristics of participants in evaluation
of responsiveness in delivery service of Jimma University Medical Center, Jimma, 202131
Table 3: Human resources in maternity OR, labor and maternity ward in evaluation of
responsiveness of delivery service in JUMC, 2021
Table 4: Inventory checked daily for 30 consecutive days in evaluation of responsiveness of
delivery service in JUMC, from May 09 -June 07, 2021
Table 5 :Judgement matrix analysis of resource availability in delivery service of Jimma
University Medical Center, Jimma, 2021
Table 6: Respondents experiences on responsiveness with frequency of elements in
evaluation of responsiveness of delivery service in JUMC, Jimma, 2021 (N=422)41
Table7 : The mean responsiveness sub-dimension on evaluation of responsiveness of delivery
service in JUMC, Jimma, 2021
Table 8: Judgement matrix analysis of responsiveness in delivery service of Jimma
University Medical Center, Jimma, 2021 (N=422)45
Table 9: Mothers related facors of responsiveness of delivery service in JUMC, Jimma,
2021(N=422)
Table 10: Independent factors associated with responsiveness of delivery service in JUMC,
Jimma, 2021 (N=422)
Table 11: Overall judgment matrix analysis of evaluation of responsiveness of delivery
service in Jimma University Medical Center, Jimma, 202150
Table 12: Relevance matrix of indicators of evaluation responsiveness of delivery service in
Jimma University medical center, Jimma, 2021
Table 13: Information matrix of evaluation of responsiveness of delivery service of Jimma
University medical center, Jimma, 2021
Table 14:budget break down of evaluation of responsiveness of labor and delivery service in
Jimma University Medical Center, Jimma, 2021

Acronyms/ abbreviations

- **CEMONC** Comprehensive emergency obstetrics and neonatal care
- **CRC** Compassionate respectful and caring
- C/S Caserean section
- **DHS** Demographic health survey
- EDHS Ethiopia demographic and health survey
- **EHRIG** Ethiopia hospital reform implementation guideline
- **FMOH** Federal ministry of health
- HR Heart rate
- **HCP** Health care provider
- JUMC Jimma university medical center
- **KII** Key informant interview
- MDG Millennium development goal
- MI Medical interns
- MMR Maternal mortality rate
- NASG Non-pneumatic anti-shock garment
- **OR** Operation theatre room
- **ORHB** Oromia region health bureau
- **RPS** Responsiveness percentages score
- **SDG** Sustainable development goal
- **SOP** Standard operating procedures
- **UHC** Universal health coverage

Chapter 1: Introduction

1.1: Background

Maternal mortality is a global health problem that concerns all over the world. Between 2000 and 2017, maternal mortality fell by 38% from 342 to 211per 100000 (2.9% annually) but less than 6.4% of annual plan of SDG. In sub-Saharan Africa, only 42% of pregnant women got accessible and efficient birth care by qualified attendant at the health facilities (1–3). As UN estimates, maternal mortality decreased by 72% since 1990, with a 5% annual reduction rate and 412 per 100,000 live births report in 2016 EDHS. Nearly 65% of all hospitals have a daily delivery service as 2014 Ethiopia SPA Plus Survey report(4–6). Reducing maternal mortality depends on ensuring women right to quality care during all delivery services. Ethiopia has made significant contributions to achieve 2030 Sustainable Development goal. But, improving maternal health still needs more attention with cooperation and coordination of stakeholders(7,8).

Access to health care has improved significantly and maternal services have been made free, but facility-based deliveries account 26% and only 28% by qualified birth attendants. According to mini-DHS 2019, facility-based childbirth accounts for 48% of all births and 50% births were by qualified birth attendants(5,9). JUMC is teaching and referral hospital in the south west of Ethiopia providing services to almost 6,000(347-500 deliveries/month) from the catchment area (10).

The term responsiveness emerges during the World Health Report in 2000 as comparatively new and one of an intrinsic goal of health system in meeting the of needs of people to their legitimate expectation. Health system responsiveness is related to non-monetary & non-clinical aspect which is integrated to service quality of care that reflects respect for human dignity and interpersonal aspects of the care process(11).

Responsive care is not option and luxury rather it is universal rights of childbearing women which states every woman has the right to be treated with dignity, compassionated respectful care and receive assistance when experiencing pain or discomfort and no one is allowed to physically hurt, force, detain, humiliate, verbally abuse, and discriminate against, mothers and newborn(12). Many women experience disrespectful and abusive treatment during childbirth in facilities worldwide. Such treatment not only violates the rights of women to respectful care, but can also threaten their rights to life, health, bodily integrity, and freedom from discrimination(13).

As study done in 28 health facilities of Ethiopia in 2017 shows, there was mistreatment of women during labor and delivery defined as verbal abuse (8%), physical abuse (9%), violation of privacy (17%) and abandonment or being left alone (19%). Disrespect and abuse of women during institutional childbirth services is one of the deterrents to utilization of maternity care services in Ethiopia and other low- and middle-income countries(14).

Women's disrespect and abuse are increasingly recognized during labor and delivery as a violation of the rights of a woman and a deterrent to the use of life-saving, facility-based labor and delivery services. Concerns were raised that this low use might contribute to women's perceptions of poor quality of care and fear of mistreatment which is repeatedly practiced in Ethiopia (15,16).

As the study done in Wolaita zone on pre-ART and ART treatment indicates, the health facilities were poor in the realms of autonomy, preference, focus and services, while the overall responsiveness percentage score (RPS) disguised the shortcomings and strengths and showed strong overall results(17). As study conducted in public health facility of north Gondor, prevalence of compassionate, respectful maternal care was 52.5%. The CRC initiatives implemented during HSTP-I but didn't progress as expected(18,19).

The overall disrespect and abuse during delivery service was common. Study done in Bahir Dar shows, the prevalence of disrespect and abuse during facility delivery was 43%. Being from rural, having complications during delivery and birth through caesarian section were more likely to be exposed to disrespect and abuse than other women(20,21).

The study finding in 2019 in JUMC showed that overall prevalence of disrespect and abuse during delivery service was 91.7%. There were gaps found that health providers didn't keep women right to information, informed consent, choice/preference, periodic update on progress of labor, self introduction before any procedure and encourages mothers to ask questions and also study conducted Harar hospital, about 62% of women participating in the study didn't get respectful maternal care(22,23).

2

1.2: Statement of Problem

Obstetric violence and childbirth mistreatment is a global problem, but the worst form occurs in low-income countries such as sub-Saharan Africa(24). In Ethiopia, there are different health professionals working with great dedication but, significant number of health professionals sees the patients/clients as case and they lack respect for clients and family which result as the major compliant. The disrespect and abusive of care during childbirth is practiced repeatedly in Ethiopia(25,26)

Ethiopia HSTP-I launched compassionate, respectful and caring service by health workers which is an emerging area and different movement created around it to improve service for better trust and uptake of health care given but not achieved as expected. One of the current HSTP-II focus area is improving health system responsiveness in all health care services which needs early identification of gaps and intervention(7).

The aim of every health system is not only to boost the public's health status, but also to ensure a satisfying service for people who engage with the system. The responsiveness aspect shows extent in which the health system meets the needs of the community for non-health aspects of the system(27). Unskilled birth attendance is considered as one of the main causes of high maternal mortality in low-income countries, as most obstetric complications occur around the time of delivery and cannot be predicted (28). Access to quality maternal health services is regarded as one of the key factors that could help reduce maternal and neonatal mortality(29).

Findings shows that during labor and childbirth, both health care providers and patients experience regular physical and verbal harassment as well as non-consented care. Providers claim that much violence is accidental and stems from treatment system failures or from medical need. Although health care professionals have shown strong fundamental understanding of confidentiality, anonymity, and agreement, there is largely little instruction on the concepts of responsive and supportive care. Clients responses show that women are mindful of the abuse of their rights and avoid facilities with a reputation for inadequate treatment(30).

One of the services of Jimma University Medical Center is that the delivery service for mothers comes to the hospital by referral and emergency entry, in which the hospital plays its role in fulfilling the national health sector transformation plan II to minimize the pregnancy-related maternal mortality rate by supplying qualified delivery attendants with quality service. However, increasing institutional delivery of quality care by incorporating the non clinical aspect of care is mandatory to minimize maternal mortality.

Even though, Jimma University Medical Center is working hard to deliver quality health services in different units using multidisciplinary interaction within the health system, responsiveness is challengeful situation which needs early identification of the specific gaps to tackle the gaps noticed. The interest of stakeholders gets first priority in knowing the responsiveness level of delivery services in Jimma University Medical Center. As identified during evaluability assessment (EA) work in JUMC delivery unit, there are shortage of midwiferies which can affect both the clinical and non-clinical aspect of service given for mothers coming for delivery in the unit.

Specifically in the study hospital, 91.7% of maternal care service was in disrespect and abuse manner(22). The study conducted in the study area didn't focus on all dimension of responsiveness and conducted before start of HSTP II. In addition, up to researcher knowledge there is no study done on availability of resources in JUMC, and responsiveness.

1.3: Significance of an evaluation

Evaluation of delivery service responsiveness has predominant importance in providing information for services provision and improvement. According to health sector transformation plan II, one of the national goal in 2024/2025 are to reduce maternal mortality from 401 to 279(7).

The Jimma University Medical Center Delivery Service Evaluation yielded an important finding regarding resource availability and delivery service responsiveness. This evaluation will use for evidence-based decision making for both stakeholders and service providers to inhance the non-clinical aspect of the healthcare system in service delivery to play its role in reducing maternal mortality. The results of this study will help hospital managers improve the quality of health care services at the hospital level by identifying gaps in client-provider interaction, resource allocation and training.

This study makes it possible to generate relevant information on the delivery service in terms of resource availability and responsiveness to the services received. The results will be useful to learn about gaps identified during provider interactions with clients during service delivery to improve the client-provider relationship. For the population, this will contribute to improving the clients experience and satisfaction in the field of non-clinical aspects. In addition, this study serves as a basis for further research related to the subject.

Chapter 2: Description of the program

2.1: Stage of program development

In late 19th century, foreign nurses were practicing in Ethiopia health care delivery system. Menelik II hospital was built for first time in 1909 in Ethiopia and later different hospitals were built in different places under Imperial Hailesilassie. The only midwives mission school was found in Ertrea (the former part of Ethiopia) before the occupation of Italy (31). Jimma University medical center first established during the invasion of Italy in 1930 E.C to give service for Italian soldiers and later after they left the country, it starts giving health care service for the public under Hailesillase I government.

Currently, the hospital provides health care services in its different departments/units of which the department of Obstetrics and Gynecology is the one in which all ranges of women's' health care services are provided both as out and in-patient subunits and for all clients related to reproductive health.

There are a total of 120 beds in the newly built Jimma University Medical Center for obstetrics and gynecology in-patient services where gynecologic health care of different ranges and in-patient management of all cases of pregnancies (with/without problems), labor and all types of deliveries and post-partum cares are provided. From 120 beds, 80 beds are used in maternal care unit. The annual deliveries of all types of delivery modes conducted in the unit are about 5791 deliveries in 2012 E.C(32,33).

So, the delivery service in Jimma University medical center passes many years in giving child birth service for the population of south west Ethiopia, South Sudan and any emergency obstetrics care needed starting from the establishment of the hospital beginning which makes the service to be evaluable.

2.2: Stakeholders of the program

Stakeholders are key players in the health sector and their analysis is crucial to the success of the health service delivery. As identified during evaluability assessment, the stakeholders involved in childbirth service in the Jimma University medical center. The four standards of evaluation utility, feasibility, propriety and accuracy were considered and stakeholders were prioritized and communicated based on credible data they given for the evaluation and responsible for daily implementation of the activities. The table below shows the stakeholders analysis of the labor and delivery service of Jimma university medical center.

Stakeholde	Role in the service	Interest on evaluation	Role in evaluation	Communication	Level of
rs				strategies	importance
FMOH	Supportive supervision and	To use result for planning		Telephone, email	High
	closely monitoring	To support service, to use	Descriping the program		
	Capacity building, planning Resource allocation	Finding for experience share			
JUMC	Closely monitoring the	For capacity building,	Sources of data	Face to face	High
	clinical aspects of service,	use results for planning	Developing evaluation	Formal letter	
	availing equipment and supplies	To learn from practice	questions and indicators Judgment parameter		
JU	Giving service of childbirths	Overall service gap	Source of data, user of	Face to face	High
obstetrics &	Training of competent professionals	identification for capacity building	evaluation result to improve delivery service,	interview, telephone	
gynecology dept.	-		developing EQ, indicators		

 Table 1: The stakeholders' analysis of Jimma university medical center delivery service, Jimma, 2021

Nursing and	Met national target by	Overall service gap	Source of data, user of	Face to face	High
midwifery	training of competent	identification, capacity	evaluation result to improve	interview, telephone	
school	professionals	building	delivery service, develop		
			EQ, indicators		
Maternity unit	Monitoring service in	Identification gaps,	Source of data, involving in	Face to face	Medium
head	labor and delivery unit	strengths, improvement of	developing EQ, indicators,	interview	
		service & communication,	setting Judgment parameter		
		to improve their practice			
Health care	Giving childbirth	To identify gaps and	As source of data, involving	Face to face	Medium
providers in	service in the hospital	strength on their behaviors	in developing evaluation	interview	
maternity unit		to improve their practice	Question, setting Judgment		
			parameter		
JUMC	Supplying medical	Overall identification gaps	Source of data	Face to face	High
Pharmacy unit	equipment and	in inventory	involving in developing	interview	
	medications		evaluation Question, setting		
			Judgment parameter		
Clients come	Service users	Getting compassionate	Source of data	Face to face	Low
for delivery		respectful delivery service		interview	
services					

• Low: stakeholders who have little or no influence on evaluation finding

• Medium: stakeholders who have somewhat influence on evaluation finding for implementation

• High: stakeholders who have influence on evaluation result and delivery service implementation

2.3: Program goal and objectives

The delivery service at Jimma university medical center is expected to improve quality of service and it is expected to contribute for the reduction of maternal and neonatal morbidity and mortality due to infections, obstructions of labor and other post-natal complications.

Program goal: To contribute for reduction of maternal and neonatal morbidity and mortality

General objective: To provide quality and responsive delivery service to women in need of the service

Specific objectives

- 1. To access quality and up to date female reproductive organ cancer screening and treatment services in 2021
- 2. To decrease institutional neonatal death within 24 hours from 11.8 to 0% in 2021
- 3. To contribute to reduction of maternal mortality from 0.5% to 0.25% 2021
- 4. To provide quality antenatal, labor and delivery and postnatal service in 2021
- 5. To develop compassionate, respectful caring ability among staff of the department in 2021
- 6. To increase customer satisfaction from 8.5% to 16.3% in 2021
- 7. To produce competent, compassionate, respectful and caring health professionals in 2021
- To develop &/or implement evidence-based new technologies for clinical and support services as soon as possible in 2021
- 9. To enhance the culture of undertaking health problem solving researches by the staff and publishing on reputable national and international journals in 2021
- 10. To improve staff clinical skill and practice via in-service training in 2021
- 11. To improve staff satisfaction from 60.3% to 75% in 2021
- 12. To introduce and undertake need based sub-specialty training and fellowships in 2021
- 13. To integrate and maximally utilize information communication technology for documentation, patient care and treatment in 2021
- 14. To minimize caesarean section from 31% to 25% in JUMC in 2021

2.4: Major strategies of delivery services

To achieve the above objectives, different major strategies are used.

Team based care (TBC): Provision of orientation for all nursing staffs lobbing hospital higher officials' budget allocation and/or duplication of formats and training by contextualization and rearrangement of development teams. Also, it needs continuous discussion and coaching Creating discussion forums implementing reward mechanisms.

Good governance: Creating interdisciplinary understanding and planning in advance and communicate to concerned body on distribution of medical equipment and supplies, developing and approving SOP was needed. Provision of effective communication skills training and ensuring professional accountability & responsibility through provision of refreshment training on principle of good governance and nursing ethics was required.

Emergency service: Availing medical equipment as necessary using different means, developing and approving SOP for all professions working on childbirth service, implementing and monitoring supply management system as per the protocol & ensuring professional accountability & responsibility discussing with clinical department to provide timely emergency service creating discussion forums, implementing staff control and monitoring appropriately.

Training: Discussing with FMOH, OHB, Jimma University higher and other stake holders to channel collaborative partners to the hospital developing and submitting need-based training to concerned Bodies. Creating awareness on the importance of CPD for staff.

Action research: Lobbing for assigning research coordinator with budget. Provision of research skill training in collaboration with the institute of health and facilitating service staff participation on research activities discussing with the institute research and publication office on strategic research theme to be focused on hospital operation.

Monitoring and coordination: there were strict supervision schedule, establishing well designed reporting and feedback mechanism and strengthening health information management system. There was discussion with the health institute research and publication office on research dissemination strategy monitoring the research output.

2.5: Delivery service activities and resources

For the delivery service success, resources are mandatory to achieve intended objectives and goal stated not only in the Jimma University medical center, but, also at all level of service stakeholders.

Inputs

- ✓ Human resources and financial resources
- ✓ Guidelines and SOP
- ✓ Medical equipments used for follow up of babies & mothers and delivery service provision.
- ✓ Materials used for labor and fetus condition follow up like partograph, fetoscopes, blood pressure apparatus, stethoscopes and thermometer
- ✓ Infrastructures (beds with accessories, clean and safe delivery rooms, labor and postnatal rooms, sustainable water supply, electricity, clean toilets and shower rooms)
- ✓ Different drugs which can be used in maternity unit
- ✓ Delivery registration books, recording, reporting formats and partograph formats
- ✓ Supervision checklist

Activities

- Provide training for health professionals on compassionate, respectful & caring and comprehensive emergency obstetrics and neonatal care
- ↓ Following Cervix dilatation & contraction
- 4 Checking fetal heart beat
- ↓ Following V/S using partograph format
- Providing childbirth service
- **Wedication administration**
- Give proper counseling for mothers and/or attendants
- **4** Encouraging breast feeding with good attachment & position
- Documenting clients' history timely
- **4** Keeping dignity, privacy, taking informed consent verbally or written
- **Giving suppotive supervision**

Outputs

- Trained health workers on on compassionate, respectful & caring and comprehensive emergency obstetrics and neonatal care
- Clients' history documented
- Cervix dilatation & abdominal contractions checked
- ✤ Fetal heart rate checked
- ✤ Mothers' V/S followed
- Live birth babies
- Clients who received medication
- Encouraged breast feeding with good attachment and position
- Clients getting dignity & privacy during service provision and their stay
- Clients consented before services verbally or written
- ♦ Mothers received counseling on post-natal complication & family planning and others
- Supportive supervisions conducted

Outcomes

- Improved knowledge, practice & skill of care providers
- ✤ Improved quality and caring behavior of care providers
- Improved mothers' health outcome
- ✤ Increased mothers' responsiveness towards delivery service
- Improved utilization of delivery service

Impacts

- Reduction in maternal & neonatal morbidity
- Reduction of maternal and neonatal mortality

2.6: Program logic model

Problem statement: Disrespect and mistreatment of childbirth are the worst problems in low-income countries such as sub-Saharan Africa. In Ethiopia, humiliation, disrespect, and abuse in health institutions during delivery service are repeatedly practiced. Understanding and identifying gaps will enable to develop prevention and avoid strategies, and give responsive delivery service. **Goal statement:** To contribute to reduction of delivery related maternal and neonatal mortality and morbidity in Ethiopia

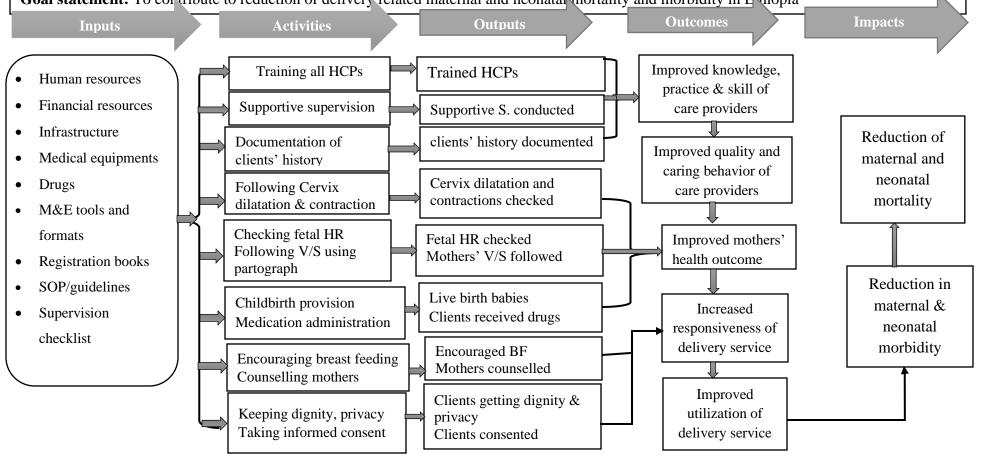


Figure 1: Logic model of delivery service in Jimma university medical center, Jimma, Ethiopia, 2021

Chapter 3: Literature Review

Globally, one of the drawbacks to women accessing services is women's misunderstanding of the level of treatment given by traditional healthcare system. The standard of health care includes not only facets of clinical care, but also non-clinical aspects. Considerable attempts have been made over the past two decades to ensure eligible birth attendance in order to minimize morbidity and mortality among mothers and newborns and result in percentage of deliveries attended by trained health workers in developing countries increasing from 56% in 1990 to 68% in 2012(2,34).

3.1. Availability dimension

Essential medical devices must be accessible at all times at the relevant level within the healthcare system. Many people in developing countries do not have access to health technologies, even basic ones which includes life-saving drugs, life-enhancing drugs, and medical devices(35).

In Ethiopia, the lack of proper management of medical equipment devices hinders health facilities to deliver quality health care service. About 61% of the medical equipment found in Ethiopia public hospitals and other health healthcare facilities which should be utilized in organized and coordinated manner to ensure the successful management of equipment in clients care healthcare facilities(36). The provision of complete healthcare service by healthcare institutions requires the ready availability of safe, effective, and affordable medicines of the required quality and in sufficient quantities(37). As study conducted in jimma zone showed that among available medical equipment, 65.6% of them were found in Jimma University medical center(38).

Each hospital service unit should have a sufficient number of employees with the necessary qualifications, training and skills necessary to meet the clients' need as per the standard. The hospital should be staffed 24 hours a day, 365 days a year. One nurse or midwife for a maximum of 6 clients and as unit needs per shift must be available to provide maternal and neonatal care(36).

3.2. Responsiveness dimension

The WHO introduces the term responsiveness first during publication of the world health report 2000. Satisfied clients are more likely to comply with medical treatment, to their

health care provider information and continue using medical services. In developing countries, client's satisfaction will influence utilization of services and compliance with practitioners' recommendations. Responsiveness is the fundamental legitimate expectations of people which can be improved without large investment and its heart of functioning health systems(11).

Disrespect and abuse are a global problem in many low and high-income countries and not well documented. Pregnant women seeking maternity care may receive ill treatment that ranges from disrespect of their autonomy and dignity to absolute abuse (39). Globally, disrespect and abuse of women during labor and delivery has become an increasingly recognized issues over the past decade by admitting them as both a violation of a woman's rights and limiting the use of life-saving facility-based labor and delivery services. The absence of disrespect and abuse by all staff alone is not sufficient for provision of respectful maternal care rather fostering positive staff attitudes and behaviors can improve satisfaction of women (12,13).

In Dutch study shows, poor responsiveness outcomes resulted ranged from 9.7% to 27. 1% for the delivery phase, respect for persons(Autonomy, Dignity, Communication and Confidentiality) domains performed better and were judged to be more important than 'client orientation' domains (Choice, Prompt Attention, Quality of Basic Amenities and Social Consideration(40). To improve the health system's responsiveness service, paying more attention to clients' rights, in particular, regarding the provision of conditions and facilities for choosing a health provider and considering their autonomy as study conducted in west Iran hospital stated (41).

As study done in Ghana, overall total mean standard perception score of responsiveness was 43.3%. Privacy and confidentiality 58.3%, Being treated with Dignity 57% and Autonomy' were 53.7% and whereas physical environment/amenities 19.2%. Even though there are variations in the hierarchy obtained in the various institutions, in which the three top ranked about 70% of respondents were 'Being treated with dignity, Prompt attention and Continuity of Care whereas, Access to social support was the least important element for the respondents(29).

As study conducted in rural area of Kambata Tembaro of Ethiopia, only 16% of deliveries were assisted by health professionals, while a significant majority (78%) was attended by traditional birth attendants because of majorly they belief that it is not necessary (42%), not customary (36%), high cost (22%) and distance or lack of transportation (8%). Traditional birth attendants were seen as culturally acceptable and competent health workers. Women reported poor quality of care and previous negative experiences with health facilities (42).

Study on choice of place of delivery done in west part Ethiopia showed that 200 (39.5%) chose home whereas the rest of respondents (306(60.5%)) chose health institution as a birthplace. The respondents were also asked to justify why they chose home delivery, and the reasons stated were disliking behavior of health workers 74 (34.6%), lack of money to pay for transportation and health service-related costs 68 (16%), and the least mentioned reason was having trust on TBA 58 (15.4%)(43).

Responsiveness to the expectations of individuals reflects the importance of respecting the dignity, autonomy and confidentiality individuals' information regarding non-health issues. It acknowledges health outcomes and use of available services which affected by the process of interaction during care to bring better health outcomes and UHC as a result of greater responsiveness. Ethiopia responsiveness score was averagely of 0.52 which is higher than the regional average of WHO Africa (0.47), with the lowest score autonomy (0.25), prompt response (0.27) and choice of care provider (0.31). There is limited or no systematically organized report or study in Ethiopia addressing the responsiveness of the service(7).

The health providers' experiences indicated the existence of different categories of disrespect and abuse to women in the study area. Non-consented care, physical abuse, non-confidential care, non-dignified care were the areas identified. Furthermore, painful procedures such as episiotomy were performed without anesthesia, women may also stay for long time without getting the service and they were restricted to have a companion of their choice in the birthing area. The discrimination of women because of personal attributes such as income level, being rural vs. urban, and HIV status were also revealed in the study(44).

Emerging data suggests that, in developed countries like Ethiopia, women face humiliating and undignified circumstances in health facilities which affects the choice of women not to use health facilities. Therefore, it is important to investigate the perspectives of health care professionals in delivering compassionate maternity care and to recognize the sources of disrespect and violence that occur, and to better address the needs of women(44).

Respectful maternity care during delivery has been described as coordinating care and giving to all women in a way that maintains their dignity, confidentiality, ensures freedom from harm and mistreatment, and allows for informed choice and continuous labor and delivery support. In its five-year Health Sector Transformation Plan (HSTP II), the government of Ethiopia has initiated a caring and supportive treatment program to address these issues(45).

3.3. Conceptual frame work of delivery service responsiveness

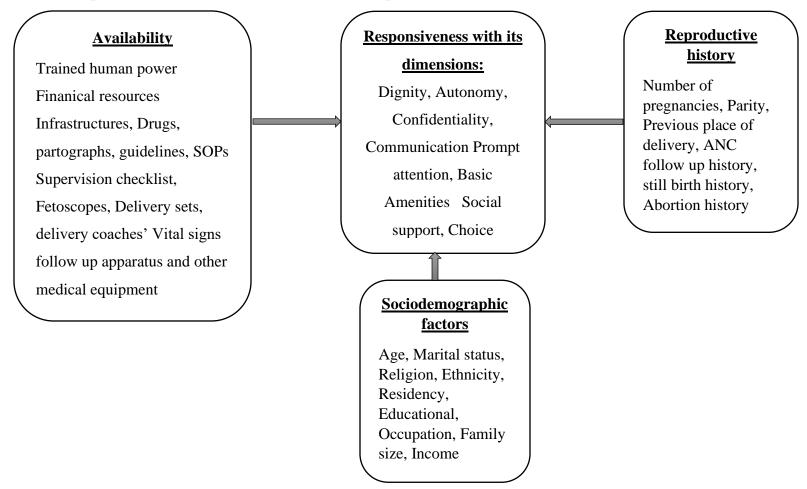


Figure 2: Conceptual Framework for delivery service Responsiveness (Source: adapted from Robone et al. 2011)

Chapter 4: Evaluation Questions and Objectives

4.1: Evaluation questions

- 1. Are the resources required for provision of delivery service available? If yes, how? If not, why?
- 2. Is labor and delivery service provided in Jimma University medical center responsive? If yes, how? If not, why?
- 3. What are the associated factors with responsiveness of delivery service nJUMC?

4.2: Objectives

General objective

♦ To evaluate responsiveness of delivery service in Jimma university medical center, Jimma, 2021

Specific objectives

- ♦ To evaluate availability of resources required for delivery service in Jimma university medical center, Jimma, 2021
- ♦ To determine the level of responsiveness of delivery service towards mother's legitimate expectation in Jimma University medical center, Jimma, 2021
- ♦ To identify factors associated with responsiveness of delivery service in JUMC, Jimma, 2021

Chapter 5: Evaluation Methods

5.1: Study area

Jimma university teaching hospital is one of the public hospitals in the country which is established in 1930 E.C by Italian invaders for the service of their soldiers. Geographically located in Jimma city 352 km southwest of Addis Ababa. Jimma town is capital city of Jimma zone which has diverse communities in ethnicity, cultures, values, religions and literacy. JUTH have changed its name formerly at different time due to various reasons. After the withdrawal of Italy's occupants, it has been governed under the Ethiopian government by the name of "Ras Desta Damtew Hospital" and later "Jimma Hospital "during Dergue regime(32).

Jimma University medical center is the only referral hospital in the South-West part of Ethiopia with a total catchment population of over 15 million. The hospital serves as a clinical teaching site for undergraduate health professionals of different categories since 1976 E.C and clinical post graduate speciality teaching in different clinical disciplines. Currently, about 120 beds are giving services for obstetrics and gynecology clients from 800 inpatient service beds.

5.2: Evaluation Period

For this evaluation, the evaluability assessment was conducted from January 15- 24, 2021 and evaluation data from exit interview was collected from May 09 to June 02, 2021 and qualitative data was collected from June 11 to 18, 2021.

5.3: Evaluation approach

For this evaluation, formative evaluation was followed, since a formative evaluation is an evaluation that creates information; which is important to improve the service and support service stakeholders' involvement through the process of evaluation. This generally means that the evaluation information would indicate how things are going.

5.4: Evaluation design

The study design applied for this evaluation was single case study design. It is preferred due to case study design is focuses on contemporary events and helps to address why and

how evaluation questions and also investigator has little control over events and focus a current phenomenon within its real-life context. Both quantitative and qualitative in sequential approach of data collection were used to come up with relevant information.

5.5: Focus of evaluation

The focus of this evaluation was process. This helps to determine whether the service is delivered as intended to the target populations regarding non clinical aspects of the health system and provides explanations for observed levels of performance and it was important to learn from the past and plan for the future.

5.6. Dimensions of evaluation

The dimensions of this evaluation were availability and responsiveness.

1. Availability of delivery service: From the five components of access to service, in this evaluation the availability dimensions in terms of resources were evaluated.

Availability: availability of resources to provide service such as: trained healthcare providers, drugs and medical equipment and infrastructures to provide service. During evaluability assessment as discussed and agreed with stakeholders Obstetricians was not focus of this evaluation since they are available and enough as to national standards.

2. Responsiveness: It means the non-clinical aspect of care relating to legitimate expectation of clients.

Dignity: clients' rights of getting service with respect from health care providers **Autonomy:** Active engagement in decision making during before service given

Choice: the mothers' right in choosing health care providers she wants to get service

Communication: getting clarity on healthcare service given by health care providers to make autonomous decision on the service given

Confidentiality: Clients right of auditory and visual privacy and also have the right of confidentiality on documentation or information of clients.

Prompt action/attention: mothers getting delivery service in convenient distance, short waiting time and as soon as wanted

Quality of basic amenities: different infrastructures aspects that keep comfort of clients and improve patient satisfaction

Access to family &Community Support: getting access to family and community support like religious and community leaders.

5.6: Indicators and Variables

The evaluator and engaged stakeholders in team, developed and listed out 60 potentail indicators for availability and responsiveness dimension. But, according to limited resources and required information, by using multi voting technique, 35 prioritized Indicators were selected for this evaluation.

Indicators: Availability

- 1. Number of health care provider in labor ward
- 2. Number of health care provider in maternity operation room
- 3. Number of health care provider in maternity ward
- 4. Number of operation theatre table
- 5. Number of delivery coaches in delivery unit
- 6. Number of delivery sets in delivery unit
- 7. Number of caesarean sections set in maternity operation room
- 8. Number of laparotomies set in maternity operation room
- 9. Number of CEmONC guideline in delivery unit
- 10. Percentage of equipment must be available 24 hours & functional in delivery unit
- 11. Percentages of emergency drugs must be available 24 hours in delivery unit cabinet

Responsiveness:

Responsiveness dimension indicators developed based on the local situation by considering the implementation status of the program or delivery service in JUMC. Step-by-Step using multi-voting technique, once a list of indicators has been identified, stakeholders vote for their highest priority indicators. Indicators with a vote count $\geq 50\%$ of stakeholders voting, remain on the list for the next vote and all other indicators which was voted less than three were eliminated from list(46,47). Selected indicators have far more profound

and long-lasting implication on the program than other as evaluator discussed with key and engaged stakeholders. Lastly, 24 prioritized indicators were selected to assess the responsiveness of delivery service with different numbers of indicators within its subdimensions.

A. Dignity

- 1. Proportion of mothers who respond the healthcare giver is kind and respectful
- 2. Proportion of mothers who are respected to their desire for privacy during treatment and examinations
- Proportion of women encouraged to discuss their concerns and needs freely, during the process of care

B. Autonomy

- 1. Proportion of mothers provided information on treatment option
- 2. Proportion of mothers get informed consent before any procedure
- 3. Proportion of mothers get periodic information on her status of health

C. Confidentiality

- 1. Proportion of women getting conversation where others can't hear
- 2. Proportion of women getting consultation where others can't see
- 3. Proportion of women getting confidentiality of her information
- 4. Proportion of women getting confidentiality of her medical records

D. Communication

- 1. Proportion of women get clear explanation about delivery service and other treatment
- 2. Proportion of women getting opportunity of asking question
- 3. Proportion of mothers getting careful listening from their health care provider
- 4. Proportion of mothers who understand things easily from health care providers explanation

E. Prompt attention

4. Proportion of women getting service as quick as she wanted

5. Proportion of women not spending unnecessary long-time time for getting consultations

F. Access to social support networks during care

- 1. Proportion of women having opportunity of daily visitors
- 2. Proportion of women getting religious support from religious leader in their hospital stay

G. Choice of Care Provider

- 1. Proportion of mothers who can choose health care provider in delivery services
- 2. Proportion of mothers getting opportunity to see specialist at time they want

H. Quality of basic amenities

- 1. proportion of women responding the unit is clean
- 2. Proportion of women responds that toilet is clean
- 3. Proportion of women responding that clean water is access able in the unit
- 4. Proportion of women getting shower service in the unit at time they want

Variables

Dependent variables

Responsiveness of delivery service towards mothers' legitimate expectation Independent variables: Socio demographic variables

- Age
- Marital status
- Religion
- Ethnicity
- Residency

Obstetrics characters

- Number of pregnancies
- Parity
- Previous place of delivery

- Educational
- Occupation
- Family size
- Income
- ANC follow up history
- Still birth history
- Abortion history

5.7: Populations and sampling

5.7.1: Source population

- All mothers coming for delivery service in Jimma University medical center during evaluation period.
- All health service providers in labor and delivery units
- Key stakeholders (FMOH, JUMC management, Nursing school, Obstetrics & gynecology department, pharmacy unit, maternity unit heads of delivery service in Jimma university medical center.

5.7.2: Study population

- All sampled pregnant mothers attending delivery service in Jimma university medical center
- All selected health care provider in delivery service of JUMC and stakeholders

5.7.3: Study units and sampling units

Study units: Selected women who get delivery service for interview and selected key informants of delivery service for interview.

Health care providers & head nurses of maternity unit, medical director, matron, pharmacy department, obstetrics & gynecology department, nursing school, Jimma town health office, jimma zonal health department.

Sampling units: JUMC delivery service unit and clients using delivery service in JUMC **Unit of analysis:** mothers, delivery service and JUMC maternity unit

5.7.4: Sampling procedure/technique

Consecutive method was used to select the study participants for exit interview under took when discharged from maternal care in Jimma University medical center during the study period till reaching sampled participants. Purposive sampling was employed for in-depth interview to interview the key informants of delivery service in JUMC and inventory was done for 30 consecutive days using checklists with observation for cross checking.

5.7.5: Sample size determination

Quantitative data: The sample size was calculated using single population proportion formula. As the study done in Hadiya zone of southern Ethiopia considering, the overall proportion of maternal care responsiveness was 0.53(48), margin of error 5%, confidence interval (CI) of 95% assumed($Z_{1-\alpha/2}=1.96$) and contingency of 10% was added for non-response. Using single population proportion formula, the sample size for clients' interview was as follows:

 $\frac{(Z_{1-\alpha/2})^2 P(1-P)}{d^2} = \frac{(1.96)^2 0.53 (1-0.53)}{(0.05)^2} = \frac{3.84 \times 0.25}{0.0025} = \frac{0.96}{0.0025} =$ **384**

Adding 10% of non response rate and final sample size was **422** for exit interview **Resource Inventory:** Resource inventory was conducted by interviewing responsible bodies and observation for cross checking using inventory checklist developed using Ethiopia hospital service transformation guideline and Ethiopia hospital reform implementation guideline(49,50). Availability and functionality of medical equipment's, presence of guidelines and drugs in maternity unit was conducted by the principal evaluator.

Qualitative data: Purposively influential 15 key informants for this evaluation were prioritized and selected for indepth interview.

5.7.6: Inclusion and exclusion criteria

Inclusion criteria

Pregnant mothers who get delivery services in JUMC during study period

Health care providers working in maternity unit

Exclusion criteria

Mentally and severely ill mothers

5.8: Data Collection

Data was collected from clients, inventory check over one month of study period in Jimma University medical center delivery service was done and interviewing key informants of delivery service was done to get important information for this evaluation.

5.8.1: Development of data collection tools

The tool developed by WHO for health system responsiveness of multi country survey was used(51). Data collection methods used in this evaluation was sequential type which mean quantitative data collected and analysed first then followed by qualitative one.

Data was collected using structured questionnaires for the quantitative data and interview guide for qualitative data. Inventory checklists for inventory data was used that developed based on Ethiopia hospital reform implementation guideline (EHRIG) minimum requirement and Ethiopia hospital tansformation guideline. After analysis of quantitative data, using interview guide, one to one in-depth interview was done. The quantitative questionnaires were containing the socio-demographic characteristics, reproductive health and responsiveness related questions that address the study objectives and key variables and qualitative interview guide contains self introduction question (profession, position, work experience, training), availability and responsiveness dimension related how and why question with probing to reason out quantitative findings.

Reliability Analysis

Each scale's dependability was assessed separately. Cronbach alpha coefficients were used to analysis the reliability of tools. Alpha coefficient of 34 items used to assess responsiveness was 0.91. The alpha coefficient of dignity, autonomy, confidentiality, communication, social support, prompt attention, choice of care provider and quality of basic amenities were 0.87, 0.8, 0.86, 0.89, 0.79, 0.88, 0.82 and 0.78 respectively.

KII guide: It comprises general questions on the state of service delivery, questions about resource availability, responsiveness, and perceptions of service barriers and potential remedies. Based on the amount of stake held by the key informant, the guide was divided into five sections.

5.8.2: Data collectors

The data collectors of this evaluation study were health professionals; two-degree holders in nursing/midwifes who experience in data collection. Training for data collectors on ethical issues in research, data collection tool and way of collecting data were conducted over two days. The principal investigator was daily supervising the data collection process. Inventory and one to one in-depth interview were done by principal evaluator.

5.8.3: Data collection field work

Adequate preparations were done prior to the field work. The clients exit interview was done from May 09–June 02, 2021 in Jimma university medical center. Completeness of data was checked on daily basis. Confidentiality of the data was kept starting from data collection time by giving code for all participants in this evaluation study. Completed questioner was collected from each data collector daily and checked for completeness of data by evaluator. The data collectors were taken informed consent from the participant mothers after given all the relevant information relating to the study, which includes the title, purpose of the study, benefits and how to collect the data and told them to ask freely at any time they want.

5.9: Data management and analysis

5.9.1 Data quality management

For quantitative data

The tool was written in English, translated into the native Afan Oromo and Amharic languages, then returned to English to ensure uniformity. Mothers' responses to questionnaires in Afan Oromo and Amharic were collected. The tools were reviewed by monitoring and evaluation experts, and their suggestions were incorporated into the questionnaire given to clients during the exit interview. The evaluation objectives, data gathering tools, data collection methodologies, and ethical concerns were covered in a two-day training session for data collectors. The entire data collection process was closely monitored and reviewed frequently.

For qualitative data (ensuring trustworthiness)

Appointment times were made up to ensure continued communication between the investigator and the study's key informants. Information about the situation was taken in detail (both note taking and audio record were used with probes). After analysis of qualitative data and its early result were present to the peers for their feedback (Peer debrief).

5.9.2: Data entry

Quantitative data was reviewed and checked for completeness in daily bases and entered using Epi data version 4.6.02 and then finally exported to SPSS version 25 for analysis and where as qualitative data from field notes and audio records transcribed using same languages and translated to English for further analysis manually by coding using pseudo names, categorizing and thematizing.

5.9.3: Data cleaning

Quantitative data was cleaned during and after data entry then the daily collected data was checked for completeness by data collector and incomplete collected data were corrected on time by supervisor or evaluator.

5.9.4: Data analysis

Quantitative analysis

Descriptive statistics and multiple linear regression analysis were done. The relationship between clients' responsiveness and independent variables was assessed using bivariate, variables at P=<0.25 were selected for multiple linear regression analysis. Multiple linear regression analysis was conducted to identify independent predictors associated with responsiveness of delivery service with significance level of p-value less than 0.05 at 95%CI was taken as a cut of point and unstandardized β was used for interpretation. The generated data was compiled by texts, frequency tables and graphs to show the assessment result.

The responsiveness of delivery service was scored by transforming 34 items of 4-point likert scale data in to percentages of maximum scale score for each indicator and to know

the overall level of responsiveness of delivery service towards legitimate expectation of mothers, the average of this score was taken(52).

 $PMSS = \frac{Actual \ score-potential \ minimum \ score}{potential \ maximum \ score-potential \ minimum \ score} \ge 100$

Qualitative data analysis

Thematic analysis was used to manually assess qualitative data. Following transcription, translation was done and coded using different Pseudo names categories. Each code was divided into two themes to reason out causes of service resource shortages and gaps noticed in giving responsive delivery service in JUMC. The findings were described and summarized to explain and interprate the quantitative findings.

5.10: Matrix of analysis and judgment

The judgment matrix was developed at the beginning when evaluation questions and data sources are agreed upon, and used by the evaluation team during this evaluation. The Evaluation Matrix forms the analytical framework for evaluation. Evaluators and stakeholders agreed in developing criteria of judgment parameter to evaluate the level in which the delivery service operated based on best information available by analyzing the situation and understanding the program operation in JUMC. Accordingly, the cut off point to judge the responsiveness of delivery service decided to be excellent if >=90%, very good if 80-89.9%, good if 70-79.9%, fair if 60-69% and score poor if <60%.

The weight was given by experts to each indicator and dimensions interms of their relative importance in this evaluation. It was decided as 40% for availability and 60% for responsiveness.

5.11: Ethical Issues

Ethical approval was obtained from the ethical review board of the Institute of Health at Jimma University. The supportive letter to JUMC was written and taken from Jimma University, Institute of Health, Faculty of public health, Department of health policy and management. Jimma University Medical Center chief clinical director refer the supportive letter to all concerned bodies in support of data collection process. The stakeholder's permission was asked to participate in this evaluation. In order to preserve participant rights, data collectors read an informed consent attached to each questionnaire, clients were requested to engage in the study based on their interest by clarifying about the purpose of this evaluation. Their respect, anonymity and confidentiality were given and the freedom to withdraw at any point of the interview and their importance of involvement was discussed well.

5.12: Evaluation dissemination plan

The outcomes of this evaluation will be disseminated to Jimma University department of health policy and management, presented for external examiner in Jimma University and key stakeholders of the delivery service in Jimma University medical center to make utilization of result obtained to increase the responsiveness of the health system in delivery services. Final effort will be made to publish on national and international journals.

5.14. Operational definitions

Responsiveness: In this evaluation, responsiveness means how well the maternal care service meets the mothers' expectations for the non-clinical health aspects of the health care system and all dimension of responsiveness (dignity, autonomy, confidentiality, communication, prompt attention, social support, choice of care provider and basic amenities) were evaluated using 34 items.

Delivery service: This term used in this evaluation stands for all service or care given to a mother throughout her stay at JUMC from entry till discharge from maternity unit.

Availability of emergency drugs: it must be available 24 hours a day in cabinet of labor & delivery and at any time of check up are (Oxytocin, Misoprostol, Misoprostol Po and/ or Ergometrine), Magnesium sulphate/Diazepam, Antihypertensive medication (Nifedipine and Hydralazine), 40% glucose, Lidocaine, IV fluids (crystalloids), Tetracycline eye ointment, Atropine, Vitamin K, Adrenaline, Ceftriaxone, Ca gluconate, TDF/3TC/EFV (ARV drugs), Nevirapine syrup & Hydrocortisone.

Availablilty of equipments & supplies to give delivery service: It must be available and functional 24 hours a day are delivery sets, C/S set, laparatomy set, Suction machine

portable, Suction bulb, Cord cutting & clumping set. Beds with accessories, Functional Sphygmomanometer(BP apparatus),Stethoscope, (Fetoscope)/doppler), Ultra Sound, Thermometer, Filled oxygen tank with flow meter, Nasal prongs for oxygen administration, Catheter for oxygen administration, Sterile suture kit, Forceps, Vacuum extractor, Urinary Catheter, HIV test kits, Stand lamp, Speculum for vaginal examination, Craniotomy set, Sterilizer (Steam or dry), Ambu-bag with sterile mask, IV stand, Mask for oxygen administration, Radiant Warmer, weighing scale for baby, Tape to measure baby length and Head circumference, Towels for drying and wrapping new-born babies, Functioning clock, Long sleeve glove for removal of retained placenta, NASG, Sterile glove, Syringe with needle & IV cannula

Trained health providers: Those midwiferies and nurses working in delivery unit and who have trained in the last two years on CRC (compassionate and respectful caring) and comprehensive obstetrics and neonatal care.

Infrastructures: Includes 24 hours functional and clean operation room, toilet, shower room, bed rooms with beds & its accessories, chair table, contininous electricity and safe water supply

Frequency likert scale: it is a 4-point rating scale used in questionnaires to measure women's opinion they have towards delivery service received and interaction with health provider by choosing either 1-never, 2-sometimes, 3-usually or 4-always and 1-very poor, 2-poor, 3-good & 4-very good.

Chapter 6: Result

6.1 Socio-demographic characteristics of study participants

In this study, 422 of study subjects were involved and the response rate was 100%. The respondents age ranges from 19 to 36 years old with mean age of $26.97(SD \pm 4.77)$. Among this participant, 40(9.5%) women gave their first birth on the age of 17 and below and 207 (49.1%) of women gave their first birth within age of 18 to 24 years. All of the study participants were married and their religious composition were majorly Muslims, Orthodox and Protestant. Among participants of the study, 252(59.7%) were Oromo followed by Amhara 64(15.2%) and Gurage 55(13%). The residency of majority was town and 290(68.7%) of women household family size were 2 to 4 and the average family size of participants were 4. Whereas 57(13.5%) women had 6 and above family size. The mothers who participate in this evaluation had different educational level from no read and write of 39(9%) to 116(28%) with college and above. An occupation of women participated in this evaluation were housewife, government employee, Merchant, private employee and farmer. The average monthly income of family was 5091.00 ETB with minimum income of 1400 and maximum 15000 ETB of family.

Table 2: Socio-demographic and family income characteristics of participants in evaluation of responsiveness in delivery service of Jimma University Medical Center, Jimma, 2021

Variables	Frequency (N=422)	Percent
Age *		
15 - 19	1	0.2
20 - 24	117	27.7
25 - 29	193	45.7
30 - 34	92	21.8
35 - 39	19	4.5
Religion		
Muslim	223	52.8
Orthodox	118	28.0
Protestant	80	19.0
Catholic	1	0.2
Ethnicity		
Oromo	252	59.7
Amhara	64	15.2
Gurage	55	13.0

	1	,
Kafa	30	7.1
Dawro	10	2.4
Others	11	2.6
Residency		
Jimma town	178	42.2
Out of Jimma but urban	153	36.3
Rural	91	21.6
Educational level		
No read & write	39	9.2
Informal education	13	3.1
Primary	140	33.2
Grade 9 -12	114	27.0
College and above	116	27.5
Occupation		
Housewife	183	43.4
Government employee	99	23.5
Merchant	76	18.0
Private employee	40	9.5
Farmer	24	5.6
Family size**		
2 -4	290	68.7
5	75	17.8
>=6	57	13.5
Average family monthly income	in ETB ***	
601 - 1650	33	7.8
1651- 3200	168	39.8
3201-5250	86	20.4
5251-7800	31	7.3
7801-10900	61	14.5
>=10901	43	10.2
* Aga astagony was made based on		I

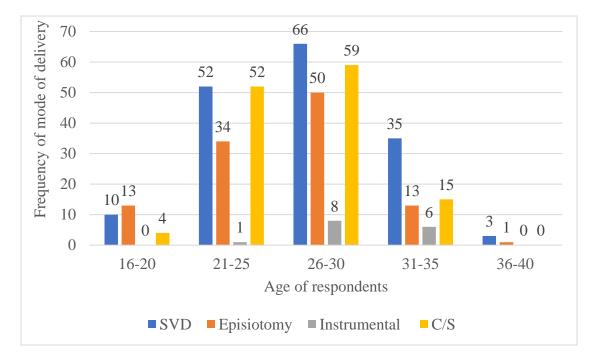
* Age category was made based on EDHS 2016

** Average family size of Ethiopia is 4.6 which approximately 5 according to EDHS 2016 report

*** Average family monthly income classes' base on Ethiopia income taxation and finance system

6.2. Reproductive health history of respondent

Out of 422 participant mothers, 262(62.1%) were pregnant previously two to seven times and averagely 3 times pregnant at mean age of $20.4(SD \pm 2.73)$ with minimum age of 15 and maximum age of 30 years. Whereas 160(37.9%) of women were pregnant for their first time in their life. Majority of women gave last birth before at different health institution set ups, whereas 25(9.5%) women were at home. The current mode of deliveries of study participants were spontaneous vaginal delivery (SVD) 166(39.3%), episiotomy 111(26.3%), instrument assisted 15(3.6%) and the rest of 130(30.8%) of women were operated to give birth.





Out of 422 participants, 416(98.6%) of women had one to eight times health facility visit for ANC follow up in their current pregnancy and 6(1.4%) of women had no ANC follow up at least one time at all. Additionally, from the study participants, 23(5.5%) and 26(6.2%) had history of stillbirth and abortion respectively and whereas 5(1.2%) of mothers had history of both stillbirth and abortion.

6.3. Availability of resources in delivery service of JUMC

6.3.1. Human resources

70 staffs of nurses & midwifes were working in maternity unit of JUMC 24 hours daily in three shifts with Residents and assigned seniors. There are 28 midwifes in labor ward, 20 nurses and midwifes in operation room and 22 midwifes are working in maternity ward. In all unit of maternity unit one obstetrician was daily assigned and also residents and medical interns are practicing in. Additionally, different supportive staffs are working in these three units.

In Jimma University medical center, nurses and midwifes working in maternity operation theatre, labor and maternity ward are not trained on comprehensive emergency obstetrics & neonatal care and compassionate respectful and caring.

Professions	Lab	or ward		Maternity OR			Mat	Maternity ward		
or duty	Available	CRC training (%)	CEmOC training (%)	Available	CRC training (%)	CEmOC training (%)	Available	CRC training (%)	CEmOC training (%)	
Diploma N.				03	0	0				
BSc Nurse				10	0	0				
Midwife BSc	28	0	0	07	0	0	22	0	0	
Total staffs	28			20			22			
Obstetricians	01			01	01		01			
Residents	04-0)7		04 - 06			04-08			
MIs daily	07-1	0		02			07-10			
Anesthetist				6						
			Suj	pport	ive staffs					
Cleaner	18			10		15				
Runner	6			02		3				
Porter	3			06			2			
Guard		9			03 2					

Majority of key informants agreed on shortage of nurses/midwifes and they said that, the number of nurses/midwifes in delivery service of hospital are low as compare to the clients' number coming to get delivery service.

"In search of a better life or family problems, the staff left the hospital at a different time. There is an improvement in the workforce as compared to before. But the department still needs more staff to minimize the workload and deliver quality care to mothers."

[35 years old male KII]

"The staff leave the hospital due to a lack of motivation, like chance for education & training after serving 6/7 years and lack of timely duty payment. According to standard, we have staff shortages to give more quality service. We communicate frequently with HR, but they do not recruit yet."

[32 years old male KII]

"There was staff turnover here for different reasons. Even though we don't meet the standard, we are trying to work more with the staffs we have. The hospital has plan to employ extra health professionals in future." [34 years old male KII]

6.3.2. Infrastructures for delivery services

There are 05 delivery coaches, 12 first stage beds and 10 post normal beds in labor ward. There are 2 operation tables and one recovery room with 6 beds in maternity OR and whereas, 52 beds are in maternity ward (6 rooms with 6 beds each,3 rooms with 4 beds and 4 rooms are private with one bed each). The electricity is available continuously in all rooms of maternity units. There is toilet room for mothers in labor ward but, shower room is not working. The maternity ward also has toilet separately for 36 stable, 12 high risk and 4 private mothers. But only private mothers have functional shower room within the room. All beds have their own lockers for mothers to use till she discharged.

Majority of key informant agreed as there was shortage in chair, linen, pillows and shower access for all mothers.

"There was a gap noticed from some attendants of mothers in way of using available infrastructures. Even though maintenance of building and furniture was done repeatedly. Because of they break chair, shower room accessories and even a bed, it hinders mothers from taking shower at time she wants and even they complain on absence."

[33 years old male KII]

6.3.3. Availability of supplies for delivery service

Even though, maternity unit has medical equipment which was utilized for delivery services, there were no thermometer and stethoscope for staffs to follow the clients just they use the medical interns or residents owned instruments and also there was 3 B/P apparatus in maternity ward and 1 in labor ward. As the inventory checked and talled daily at any time of cabinet or nursing station observed during evaluation time for thirty consecutive days, there was different supply stock out noticed. As table below shows, the interruption both in drugs and different supplies from 2 to 10 days within one month noticed were sterile gloves, IV cannula, syringe with needle, urinary catheter, IV fluids, 40% glucose, ceftriaxone and dexamethasone. There was no stethoscope and thermometer for staffs to follow clients in their assigned beds.

S.no	Drugs and equipment for	30 days	Interruption or	Remark
	delivery service	available	absence	
01	Oxytocin/ Ergometrine	~		
02	Magnesium sulphate/diazepam	✓		
03	Nifedipine and Hydralazine	✓		
04	40% glucose		10 days stockout	
05	Lidocaine	✓		
06	Tetracycline eye ointment	✓		
07	Atropine	✓		
08	Hydrocortisone	✓		
09	Ca gluconate	✓		
10	Adrenaline	✓		
11	Dexamethasone		10 days stockout	
12	Misoprostol & mifepristone	~		

Table 4: Inventory checked daily for 30 consecutive days in evaluation of responsiveness of delivery service in JUMC, from May 09 -June 07, 2021

13	Ceftriaxone		5 days stockout	
14	IV fluids (crystalloids)		10 days stockout	
15	TDF/3TC/EFV (ARV drugs)	~		
16	Nevirapine syrup	~		
17	Oxygen	✓		
18	Tetracycline eye ointment	~		
19	Vitamin K	✓		
20	Ephedrine injection	~		
21	Ketamine injection	~		
22	Oxygen inhalation	~		
23	Thiopental iv	~		
24	Halothane	~		
25	Lidocaine	~		
	injection/Bupivacaine			
26	Lidocaine + epinephrine	~		
	injection			
27	Muscle relaxant	~		
	(Suxamethonium &			
	Vecuronium)			
28	Spinal Needle	~		
29	Sterile gloves		4 days stockout	
30	IV Cannula		3 days stockout	
31	IV set	~		
32	Syringe with needle		4 days stockout	
33	HIV test kit	~		
34	Delivery set	✓		12 available
35	C/S set	~		03 available
36	Craniotomy set	✓		1 available
37	Laparotomy set	✓		02 available

38	Sterile suture kit	\checkmark		
39	B/P apparatus with cuff	√		3 in MW and 1 in
				LW
40	Stethoscope		✓	They use from
				interns
41	Thermometer		✓	They use from
				interns
42	Weight scale for baby	✓		
43	Urinary Catheter	✓	2 days stockout	
44	Ultra Sound	√		
45	Suction machine portable	√		
46	Radiant warmer	√		
47	Vacuum extractor	√		
48	Cord cutting/clumping set	√		
49	Forceps	✓		
50	Suction bulb for newborn	√		
51	IV stand	√		Per bed available
52	Ambu-bag with sterile mask	√		
53	Delivery coaches	✓		5 available
54	Maternity Operation table	√		2 tables
55	Nasal prong for oxygen	✓		
56	Mask for oxygen administration	√		
57	Oxygen administration catheter	✓		
58	Full oxygen tank with flow	✓		
	meter			
59	Stand lamp	✓		
60	Partograph	✓		
61	Fetoscope/ doppler	✓		
62	Tape measurement	✓		

63	Speculum	✓	
64	Mask for staffs	✓	
65	Sanitizer	✓	
66	Towels	✓	
67	weighing scale for baby	✓	
68	Long sleeve glove	✓	
69	Functioning clock	✓	
70	Registration books	✓	
71	Reporting formats	✓	

Majority of key informants agreed that there are shortage of medical equipment and supplies required to deliver all health care service wanted in the maternity unit.

"There was a shortage of IV fluids and drugs. We use fluids, drugs, and stitches collected from discharged mothers for those who cannot afford. Maybe mothers' drugs and supplies come free, and as it is finished, mothers are ordered to buy from outside."

[27 years old female KII]

"Equipment and supplies like thermometer, stethoscope, IV fluids, drugs were absent or in short supply due to their poor quality in equipment to serve for a long time and due high number of mothers, supplies frequently interrupted which sometimes makes the service difficult for us." [36 years old male KII]

"As is known, this hospital is a big one and many clients got service here. We may face medication and supplies stockout sometimes. As a staff, we decided to support mothers who cannot afford it by collecting 50 to 100 birrs per staff monthly."

[35 years old male KII]

"Sometimes stock out noticed and difficult for us to manage due to some of stock out happened from misuse of supplies and inappropriate handling of equipment. The department has no guidelines to minimize wastage." [38 years old male KII]

Evaluation questions	Dime Ision	Indicators	Expected	Observed	Weight given	Value achieved	100%	Judgment Criteria
questions Are the resources required for provision of delivery service available? If yes, how? If not, why?	Available Dime nsion	Number of health care provider in labor wardNumber of health care provider in maternity ORNumber of health care provider in maternity wardNumber of operation theatre tableNumber of delivery coaches in delivery unitNumber of delivery sets in delivery unitNumber of caesarean sections set in maternity ORNumber of laparatomy set in maternity ORNumber of CEmONC guideline in delivery unitPercentage of equipment must be available 24	39 27 24 2 5 12 03 02 01 35	28 20 22 2 5 12 03 02 0 29	given 10 10 10 9 9 9 9 9 9 9 5 10	achieved 7.20 7.41 9.17 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.200 <th>71.80 74.07 91.67 100.00 100.00 100.00 100.00 0.00 82.90</th> <th>Criteria >=90% excellent, 80-89.9% v. good 70-79.9% good 60-69.9% fair <60% poor</th>	71.80 74.07 91.67 100.00 100.00 100.00 100.00 0.00 82.90	Criteria >=90% excellent, 80-89.9% v. good 70-79.9% good 60-69.9% fair <60% poor
Overall		hours & functional in delivery unit Percentages of emergency drugs must be available 24 hours in delivery unit cabinet	15	11	10 100	7.33 84.40	73.33	-

 Table 5: Judgement matrix analysis of resource availability in delivery service of Jimma University Medical Center, Jimma, 2021

6.4. Responsiveness of delivery service in JUMC

The responsiveness of delivery services in JUMC were varied among 34 items or elements of subdimensions (dignity, autonomy, confidentiality, communication, prompt attention, social support, choice of care provider and basic amenities) as assessed using 4-point likert scale of world health organization health system responsiveness tool which is resulted in table below(51).

Table 6: Respondents experiences on responsiveness with frequency of elements inevaluation of responsiveness of delivery service in JUMC, Jimma, 2021 (N=422)

0U		Frequency distribution					
Sub dimension	Description of sub dimensions	Never (%)	Sometime (%)	Usually (%)	Always (%)	Total	
	Treated with respect	5(1.2)	63(14.9)	226(53.6)	128(30.3)	422	
	Kept safe from communicable diseases	4(0.9)	116(27.5)	235(55.7)	67(15.9	422	
	Encouraged to discuss concerns freely	10(2.4)	114(27.0)	222(52.6)	76 (18.0)	422	
ty	Encouraged to ask about diseases, treatment & care	11(2.6)	120(28.4)	213(50.5)	78(18.5)	422	
Dignity	Respected to desire of privacy during examination	15(3.6)	131(31.0)	202(47.9)	74(17.5)	422	
	Provided information on treatment option	19(4.5)	107(25.4)	223(52.8)	73(17.3)	422	
	Health care provider ask consent before any procedure	14(3.3)	137(32.5)	201(47.6)	70(16.6)	422	
omy	Get consulted on preference over alternative treatment	15(3.6)	121(28.7)	245(58.1)	41 (9.7)	422	
Autonomy	Get periodic updates on health status & progress	25(5.9)	123(29.1)	225 (53.3)	49 (11.6)	422	
	Confidentiality protected during consultation	36(8.5)	108(25.6)	194(46.0)	84(19.9)	422	
Ŕ	Having conversation where others cannot hear	23(5.5)	102(24.2)	240(56.9)	57(13.5)	422	
Confidentiality	Getting consultation where others cannot see	22(5.2)	82(19.4)	240(56.9)	78(18.5)	422	
Config	Confidentiality of information provided is kept	19(4.5)	89(21.1)	250(59.2)	64(15.2)	422	

r		25(5.0)	00(00 5)	004(55.5)	(1(1, 5, 0))	400
	Confidentiality of medical records is kept	25(5.9)	99(23.5)	234(55.5)	64(15.2)	422
	Provision of clear explanation on delivery service	37(8.8)	98(23.2)	203(48.1)	84(19.9)	422
tion	Listening to clients carefully	34(8.1)	91(21.6)	224(53.1)	73(17.3)	422
Communication	Points are explained and clients understand easily	28(6.6)	97(23.0)	232(55.0)	65(15.4)	422
Com	Clients get opportunity o asking questions	35(8.3)	96(22.7)	226(53.6)	65(15.4)	422
	Get service as quick as they want	37(8.8)	101(23.9)	229(54.3)	55(13.0)	422
b t	Not spending unnecessary long time waiting to get service	33(7.8)	77(18.2)	263(62.3)	49(11.6)	422
Prompt attention	Length of time spent waiting for consultation is reasonable	32(7.6)	100(23.7)	238(56.4)	52(12.3)	422
	Get opportunity of visitors daily	70(16.6)	51(12.1)	128(30.3)	173(41.0)	422
	Get opportunity of personal need care by friend or family	79(18.7)	57(13.5)	203(48.1)	83(19.7)	422
Social support	Get opportunity of religious support from religious leader	89(21.1)	45(10.7)	248(58.8)	40(9.5)	422
е	Can choose health care provider in the unit	45(10.7)	85(20.1)	267(63.3)	25(5.9)	422
Choice	Get opportunity to see specialist at time of want	32(7.6)	108(25.6)	252(59.7)	30(7.1)	422
		V. poor	Poor	Good	V. good	
	The unit is clean	0(0.0)	17(4.0)	171(40.5)	234(55.5)	422
	Building of the unit is maintained	1(0.2)	24(5.7)	200(47.4)	197(46.7)	422
	Furniture in the unit is adequate	39(9.2)	141(33.4)	183(43.4)	59(14.0)	422
1						
	The food in the unit is nutritious and edible	26(6.2)	182(43.1)	165(39.1)	49(11.6)	422
es		26(6.2) 31(7.3)	182(43.1) 181(42.9)	165(39.1) 169(40.0)	49(11.6) 41(9.7)	422 422
enities	edible		· · ·			
Basic amenities	edible Clean water in the unit is accessible	31(7.3)	181(42.9)	169(40.0)	41(9.7)	422

In this study, all of the eight domains of responsiveness were used to assess the delivery

service of JUMC and the findings are shown in the table below.

Responsiveness subdimension	Ν	Min	Max	Mean
Dignity	422	6.67	100.00	63.3333
Autonomy	422	.00	100.00	58.7480
Confidentiality	422	.00	100.00	60.6161
Communication	422	15.00	100.00	62.3558
Prompt attention	422	.00	100.00	58.0832
Social support network	422	.00	100.00	57.8989
Choice of care provider	422	.00	100.00	55.1343
Quality of basic amenities	422	25.00	95.83	60.7721

Table7: The mean responsiveness sub-dimension on evaluation of responsiveness of delivery service in JUMC, Jimma, 2021

Majority of key informants agreed that there were some gaps in keeping all rights of childbearing mothers or in addressing legitimate expectation of mothers while giving delivery services.

"Sometimes, care provider personal behavior and work over load leads to gaps noticed in giving service with respect. But, majority of staffs tried to give service with keeping all their rights." [35 years old male KII]

"The information provided here is sometimes incorrect and given in a susceptible manner in order to assist mothers to make the best choice of service."

[25 years old male KII]

36 years old male key informants,

"Most of the time, all privacy is maintained, but there may be a lapse in keeping the client's card private because the card is kept on the mother's side, which has a chance of being seen by anyone who enters the room."

"Sometimes, there is a gap in communication before, during, and after giving services. Most the of time, staffs try to give service or do procedures without communicating with the mother well and left the room." [35 years old male KII] All of key informant agreead that mothers should get prompt attention all the time and most of health care providers dedicated for such service. But, sometimes delay of service was noticed.

"More or less, it is good. All staffs actively give services for mothers on basic service and based on mothers need, but sometimes due to shortage in supply, service will be delayed."

Most of the mother had social supports and sometimes trafficking of attendants disturb the service unit as majority of key informant agreed.

"The majority of mothers have more attendants and they want to enter as they want. But, due to fear of COVID-19, the psychological impact for alone mothers and crowded room affects the service quality, sometimes entering was not allowed."

[25 years old male KII]

[28 years old male KII]

Majority of key respondents have not experienced mothers asking to choose among health care providers.

"Mostly, mothers come here from different areas & they do not know which health professionals to choose. But they come in private, they can communicate with the senior she wants before coming here. If not, the probability of getting the service by the healthcare providers she wants is rare."

[36 years old male KII]

Majority of key informant agreed that even though there was some constraint in making physical environment/amenities more comfortable, it is improved than before.

"Due to the high number of mothers and attendants from different areas served here, there was a supply shortage and there was even inappropriate use and handling noticed by attendants of mothers."

[28 years old female KII]

Table 8: Judgement matrix analysis of responsiveness in delivery service of Jimma University Medical Center, Jimma, 2021(N=422)

Achieved Judgment Wt Score Dimensi (a*b)/100 Criteria (b) (100%) EQs Indicators (a) ons Is labor Proportion of mothers who respond the healthcare giver is kind and 5.5 3.91 71.01 >=90% respectful and Proportion of mothers who are respected to their desire for privacy during 4.5 2.69 59.79 excellent, delivery service 80treatment and examinations provided Proportion of women encouraged to discuss their concerns and needs 89.9% 3.11 62.10 5 in Jimma freely, during the process of care v. good Proportion of mothers provided information on treatment option Universit 3.05 60.98 70-Responsiveness 5 y medical Proportion of mothers get informed consent before any procedure 2.37 4 59.16 79.9% Proportion of mothers get periodic information on her status of health center 3.5 1.99 56.87 good responsiv Proportion of women getting conversation where others can't hear 2.38 59.48 4 60e? If yes, Proportion of women getting consultation where others can't see 2.52 62.88 4 **69.9%** how? If Proportion of women getting confidentiality of her information 3.5 2.16 61.69 fair not, why? Proportion of women getting confidentiality of her medical records 4 2.40 59.95 <60% Proportion of women get clear explanation about delivery service and other 3.5 2.09 59.72 poor treatment Proportion of women getting opportunity of asking question 2.35 58.69 4

Over all		100	60.52		
	Proportion of women getting shower service in the unit at time they want	4.5	2.23	49.45	
	Proportion of women responding that clean water is access able in the unit		2.03	50.71	
	Proportion of women responding that the toilet is clean	4	2.47	61.77	
	proportion of women responding the unit is clean	5	4.19	83.81	
	want				
	Proportion of mothers getting opportunity to see specialist at time they	3.5	1.94	55.45	
	services				
	Proportion of mothers who can choose health care provider in delivery	3.5	1.92	54.82	
	religious leader in their hospital stay				
	Proportion of women getting opportunity of religious support from	3.5	1.83	52.21	
	Proportion of women having opportunity of daily visitors	3.5	2.28	65.24	
	consultations				
	Proportion of women not spending unnecessary long-time for getting	5	2.96	59.24	
	Proportion of women getting service as quick as she wanted	4.5	2.57	57.19	
	providers explanation		2.37	57.12	
	Proportion of mothers who understand things easily from health care	4	2.39	59.72	
	Proportion of mothers getting careful listening from their health care provider	4.5	2.69	59.87	

The score of 60.52% based on the judgment matrix criterion indicates that JUMC's delivery service responsiveness is fair.

The dependent variable's normality and the presence of multicollinearity in the independent variables were both examined. The dependent variable findings of the Kolmogorov-Smirnov test supported the assumption of normality (p = 0.001). We used a normal P-P plot, Q-Q plot, and histogram to determine whether the residuals were normal. The plot demonstrates that there are no significant departures from the typical distribution of the points. This suggests that the residuals are distributed normally. Residuals have a positive correlation and the overall model is significantly useful in explaining responsiveness, F(20, 401) = 7.893, p < 0.001 (i.e., the regression model is a good fit for the data).

6.5. Factors associated with responsiveness

Bivariate analysis

The presence of any association between an independent variable and responsiveness as a dependent variable was investigated using a bivariate linear regression statistical test. The bivariate analysis revealed that at a p-value less than or equal to 0.25 significance level, 09 variables were identified as a candidate such as the age of respondents, residency of respondents, educational status, occupational status, number of family members living together, average family monthly income, place of delivery, mode of current delivery and history of stillbirth. The enter method was used to input the variables into a multivariable linear regression in order to establish the final predictors of responsiveness while controlling for potential confounders.

Variable	Characteristics	Frequency (%)	Unstandardi zed	p-value	95.0% CI for B		
S		(70)	CoefficientB		LB	UB	
Residency	Jimma town*	178(42.2%)	0	·			
	Out of Jimma but urban	153(36.3%)	-2.608	0.071	-5.439	.223	
	Rural	91(21.6%)	922	0.584	-4.231	2.388	
Education	No read and write	39(9.2%)	6.037	0.008	1.584	10.491	
status	Informal	13(3.1%)	-1.378	0.704	-8.510	5.753	

Table 9: Mothers related facors of responsiveness of delivery service in JUMC, Jimma, 2021(N=422)

	Primary*	140(33.2%)	0			
	Grade 9-12	114(27.0%)	-1.105	0.484	-4.207	1.998
	College & above	116(27.5%)	-7.594	< 0.001	-	-4.506
					10.682	
Occupatio	Housewife*	183(43.4%)	0			
n status	Government	99(23.5%)	-10.617	< 0.001	-	-7.603
					13.632	
	Private	40(9.5%)	-5.548	0.01	-9.766	-1.331
	Merchant	76(18.0%)	-8.934	< 0.001	-	-5.637
					12.232	
	Farmer	24(5.6%)	-7.795	0.004	-	-2.549
					13.041	
Place of	Gov't hospital*	122(28.9%)	0			
previous delivery	Health center	113(26.8%)	729	0.615	-3.578	2.121
uenvery	private hospital	2(0.5%)	-6.320	0.494	-	11.84
					24.484	3
	home	25(5.9%)	6.562	0.016	1.221	11.90
						3
Current	SVD*	166(39.3%)	0			
mode of delivery	Episiotomy	111(26.3%)	882	0.575	-3.969	2.205
uenvery	Instrumental	15(3.6%)	-10.906	0.002	-	-4.118
					17.695	
	Cesarean section	130(30.8%)	-5.449	< 0.001	-8.398	-2.500
Stillbirth	Yes	23(5.5%)	-6.464	0.021	-11.951	977
	No*	399(94.5%)	0	1	•	
Family	members living together		1.154	0.012	.260	2.049
numbers						
Family	average monthly incomes in ETB		001	< 0.001	002	001
monthly						
income				0.010		
Age	Age of respondent		406	0.012	722	089

*

Reference category (the highest frequency taken as reference category)

Multivariate analysis

As showed in table 9 above, nine variables identified for multi variable analysis to anayze and got the final associated factors using enter method. Finally, four variables of them were identified as the statistically significant predictors of responsiveness in multivariable linear regression with a p-value of 0.05 and 95% CI. The variables in this model explained 28.2% (R=0.531, R square=0.282, Adjusted R square=0.247) of the variability in client's responsiveness towards delivery service. In this evaluation, rural in residency, merchant and farmer as the status of occupation, average monthly family income and instrumental delivery from a mode of current delivery were the final independent predictors of responsiveness among study participants.

As compared to urban, living in rural areas leads to decrement of delivery service responsiveness by 3.875 (95%CI=-7.101, -.650, P=0.019). As compared to house wife by occupation, being merchant and farmer leads to decrement of delivery service responsiveness by 6.657(95%CI=-9.955, -3.359, P<0.001) and 5.984 (95%CI=-11.155, -0.813, P=0.023) respectively. As the monthly family income increases by one unit, responsiveness of delivery service decrease by 0.001(95%CI=-0.002, -0.001, P<0.001). Also, as compared to spontaneous vaginal delivery (SVD) on current mode of delivery, instrumental assisted delivery decrease responsiveness of delivery service by 7.979(95%CI=-14.236, -1.722, P=0.013).

Variables	Characteristics	Unstandardized	p-value	95.0% CI for
		Coefficients		B
Residency	Jimma town	0		
	Rural	-3.875	0.019	-7.101,650
Occupation	Housewife	0		
	Merchant	-6.657	< 0.001	-9.955, -3.359
	Farmer	-5.984	0.023	-11.155,813
Current	SVD	0		
mode of	Instrumental	-7.979	0.013	-14.236, -1.722
delivery				
Monthly	Family average monthly	-0.001	< 0.001	002,001
income	incomes in ETB			

Table 10:*Independent factors associated with responsiveness of delivery service in JUMC, Jimma, 2021 (N=422)*

Overall judgement matrix

As shown in table 11 below, overall responsiveness of delivery service assessed using availability and responsiveness with its eight subdimension scores 70.07 %. Eventhough, as pre judgment criteria setted, the responsiveness of delivery service in Jimma University medical center was in good level but which still needs more effort and attention to give more responsive maternal care.

Evaluation questions	Dimen sions	# Of indicat ors	Weight given	Observed value	100%	Judgment Criteria
Are the resources required for provision of delivery service available? If yes, how? If not, why?	Availability	11	40	33.76	84.4	>90% excellent, 81-90% v. good 70-80% good 60-69% fair <60% poor
Is labor and delivery service provided in Jimma University medical center responsive? If yes, how? If not, why?	Responsiveness	24	60	36.31	60.52	<pre>>90% excellent, 81-90% v. good 70-80% good 60-69 % fair <60% poor</pre>
Total		35	100	70.07		

Table 11: Overall judgment matrix analysis of evaluation of responsiveness of delivery service in Jimma University Medical Center, Jimma, 2021

Chapter 7: Discussion

This study evaluated the responsiveness of delivery service given in Jimma University medical center interms of availability and responsiveness dimension. The availability of resource was 84.40 %, responsiveness of delivery service was 60.52% and overall responsiveness was 70.07% based on judgement parameter.

7.1. Availability Dimension

As per referral hospital national standard, 90 (all types) of nurses and midwifes were required in, but only 77.80 % of them were available at the time of this study. The average number of clients assigned to one nurse/midwife per shift in JUMC were 7-10 in maternity ward, this finding is high as compared to the national standard, which recommends as to be six. 2 midwifes for five coaches, 2 midwifes for 10 beds of post-partum and 5 midwifes for 12 beds of laboring mother per shift, this showed that high number of clients assigned for one midwifes. This implies that nurses/midwifes in the JUMC were overloaded by extra clients compared to the national standard(36,49).

There were different equipment and supplies shortage and absence notice in this evaluation. but, it must to be available 24 hours a day to give maternal care according to Ethiopia hospital service transformation guideline(50).

As the findings showed, there is no CRC and CEmONC training for staff working in delivery services yet. But, giving training for clinical staff is an important way to increase professionalism, improve quality of care, save lives, and increase good interaction between clients and healthcare providers (34,53).

7.2 Responsiveness dimension

This study evaluated the responsiveness of delivery services in JUMC from a user's and care providers perspective. The responsiveness performances of the healthcare in delivery services of Jimma University medical center were 60.52 % and it was varied across the domains; dignity (63.33%), confidentiality (60.61%) and communication (62.35%), were the highest score whereas choice of care provider had lowest score of 55.13%.

Study conducted on labor & delivery services of 3 district hospital in Ghana showed that perception score of responsiveness was 43.3% and Confidentiality, dignity, and autonomy received the highest standard scores (58.3%, 57%, and 53.7%), respectively, while

conducive physical environment or amenities received was the lowest (19.2%)(29). This discrepancy might be occurred due to difference in service quality, health care providers behavior, socio-culture, socio-economic, infrastructures and study period. It means as service quality and health care providers professionalism increased, improved infrastructures, and if different strategies implemented without discrimination in culture and economic status, through time it will result in responsive delivery services.

The result of this study showed relatively high as compared to study conducted in Hadiya zone public hospital showed that, 53.0% of users reported the delivery care was responsive and also varied across the domains; dignity 77%, prompt attention 71.7% and communication 71.4% were the high score whereas choice of care provider 41.6% was the lowest score(48). This discrepancy occurred might be due to difference in numbers and types of hospital. This variation might be due to various healthcare professionals' presence with qualified sub-specialities in tertiary hospital than primary hospital and health care providers practice and monitoring system in giving responsive delivery service towards legitimate expectation of mothers might differ from hospital to hospital.

In this finding, 172(40.84%) of women were not consented before procedures, 182(43.13%) of women didn't get information on her progress of labor and health status, 160(37.9%) of clients cannot ask questions freely and 59.72 % did not explained what can be done for them. As study conducted in Addis Ababa public health facilities, 78% faced one or more categories of disrespect and abuse. 89% of service providers did not introduce themselves, 32.9% did not got periodic updates of labor progress, 43.4% did not explain what was being done to them and 48% did not obtain their consent prior to any procedure(54). This discrepancy may be due to mothers in Addis Ababa being awared and knowledgable about their rights and gaps in getting responsive service, study time means after various effort and strategies nationally implemented and relatively large sample size used in this study which might increase representation of mothers.

Also, previous studies on disrespect and abuse of maternal care in JUMC showed that 90% of womens right to information, being consent and choice of service was not protected, 50% not got dignified care, 24.1 % not got equitable service, and confidentiality was not kept in 81.7% of mothers(22). This discrepancy might be occurred due the

previous study was conducted during the initiation of health sector transformation plan I to improve healthcare service quality using various strategies and professionals' qualification improvement to quality services at health facity level.

Different studies were conducted in Ethiopia related to compassionate and respectful maternal care; in 28 Public health facilities of Ethiopia (66%), public health institution of south Gondor and Bahir Dar (39.4%) & 57% respectively), referral hospital of north west Amhara (56.3%), health institution of west Shoa Oromia(35.8%), in 17 public health facilities of Ilu Ababor (47.3%), in Harar town hospitals (38.4%), in Adama hospital medical college(42.4%), Addis Ababa in 4 public hospital (65.8%) and in Addis Ababa Tirunesh Beijing (87.4%) of mothers got compassionate and respectful maternal care(14,21,23,55–61). Nationally, ministry of health does various activities using different strategies to meet universal health coverage and to improve health system responsiveness which might result in variation of infrastructures of health facilities, study period of facilities, and service quality difference secondary to care providers attitude and skills.

7.3 Factors affecting the responsiveness of delivery service

The finding of this evaluation showed that there were statistical association between residency, occupation, family's average monthly income and current mode of delivery of respondents' responsiveness towards delivery service.

Concerning clients' socio demographic characteristics, being living in rural leads to decrement of responsiveness of delivery service score by 3.87 as compared to living in urban. study done in Bahir Dar showed that living in rural, the maternal care services given was 6.49 times in disrespectful manner(21) but the finding contrasts with study done in Hadiya Zone(48) showed that poor responsiveness of maternal care was high in urban residents. This difference might be happened due to most rural mothers comes relatively from different socio-cultural and educational level to new hospital environment which leads to poor communication and understanding with care provider and finally might be end with poor responsiveness of delivery service.

This evaluation finding showed that as average monthly income of the family increases by 100 unit, the responsiveness of delivery service decreases by 0.1. But, study done related to respectful maternal care of mothers in public health facilities of Bahir Dar and Addis Ababa (21,54)contradict that in which decrement of average family monthly income resulted in increased the maternal care disrespect and abuse as compared to high monthly income. The variation might be due to clients having high income will expect more quality health care services from health care providers and discrimination from health care providers.

As mode of delivery was instrumental, the responsiveness of delivery service decreases by 7.97 as compared to spontaneous vaginal delivery (SVD). As study done in public health facilities of Ilu Ababor zone(57) in which instrumental assisted delivery were 95% less likely to have respectful care but study in Bahir Dar showed that a caesarian section service were 4.52 times more likely to encounter disrespect(21). This might be due to having a spontaneous onset of labor resulting in vaginal delivery is the natural way, instrumental assisted deliveries are more traumatic, painful and might end with significant complications when compared with SVD and health care attitudes towards mothers.

Being merchant and farmer of respondents leads to decrement in responsiveness of delivery service by 6.65 and 5.98 respectively as compared to housewife. But, study conducted in southern Thailand(2) showed that as mothers income increase and being an employee by occupation when compared with housewife, the health system responsiveness of delivery service shows incremental. This discrepancy may be due to difference socio economic, socio cultural, educational status, infrastractures of facilities & waiting time for service.

7.4: Limitations of evaluation

Even though, this evaluation is important in increasing the responsiveness of health system, there was possible limitation faced. Since, the data collection is in the hospital, there was social desirability bias and fear of responding to what extent the service is responsive. To reduce this the data collector doesn't wear gown and building trust between interviewer and participants, interview was in private room of the setups, assures confidentiality and the purpose of evaluation was discussed clearly. The data collected from mothers who was giving birth via cesarean section was biased due anesthesia effect and pain. To minimize this, interview was taking place after 3 days of operation and after women health condition assessed and possible prior to discharge.

Chapter 8: conclusion and recommendation

8.1. Conclusion

Based on judgment parameters of this evaluation, the overall responsiveness of delivery service was good in Jimma University Medical Center. But there were differences across the eight subdimensions that were used to assess responsiveness dimension of delivery service in which dignity scores highest whereas choice of care provider scores the lowest relatively.

Moreover, according to this evaluation, the availability of resources for providing delivery service in JUMC was very good. majority of medical equipment, drugs and supplies are available to give delivery services in JUMC. However, there is some interruption of supplies, drugs and absence of medical equipment particularly; IV fluids, 40% dextrose, dexamethasone, ceftriaxone, Iv cannula, syringe with needle, sterile glove, urinary catheter, thermometer and stethoscope. There is nurse and midwife shortage as per the standard and those available care providers in maternity unit have not taken CRC & CEmOC training yet.

Rural residency, merchant and farmer by occupation, average monthly family income and instrumental assisted current mode of delivery were independent factors associated with decrement of responsiveness of delivery service in JUMC.

This finding has important implications for facility-based delivery, which must address responsiveness to promote its increased use and protect women's rights while giving birth in a medical facility. The estimation of gaps in responsiveness of delivery service is useful to health care providers of the unit and stakeholders who works for health care service improvement.

8.2. Recommendation

For JUMC

- In collaboration with ministry of health, additional nurses and midwifes should be recruited for JUMC
- Wurses and midwifes should receive in/off-services training on CRC and Comprehensive emergency obstetrics care.
- Cabinet or nursing station of labor and delivery or maternal unit should be filled by drugs, supplies and medical equipment like IV fluids, emergency drugs, urinary catheter, thermometer and stethescope

For nurses and midwifes

- Nurses and midwifes should properly discuss and try to fill gaps noticed in keeping women legitimate rights during service delivery
- > Nurses and midwifes should improve their communication skill with the clients.
- It is better if nurses and midwifes include clients perceived expectations during nursing assessment

For researchers

- It will be good if researchers conduct further research on health care responsiveness by including utilization and quality dimensions in health care services.
- Further evaluation may be required to confirm to what extent that the clients' backgrounds correlated to responsiveness of delivery service.

Chapter 9: Meta-evaluation

In this evaluation, Summative meta evaluation was conducted by external evaluators to point out the worthiness and merit of this service evaluation using standard checklist which have 30 standard checklists having 06 checkpoints under each substandard of meta evaluation (62). The judgment parameter was decided to be excellent, if $\geq 90\%$, very good, if 80-89.9%, good, if 70-79.9%, fair, if 60-69.9%, and poor, if < 60%. The overall status of evaluation was measured at 81.2%, which was very good according to criteria.

6.1. Utility

This standard was measured using 7 checkpoints with 26 sub checkpoints, of which 21 of them scored yes, which was an 80.8 % score. Stakeholders were identified and involved in each stage of evaluation on different phase of service description and their interest for service improvement. The evaluation result was described with clear way for the stakeholder found in Jimma university medical center.

6.2. Propriety

Propriety is about protection and respecting of the right of subject under evaluation. It was conducted legally, ethically, and with due regard for the welfare of those involved in the evaluation. This standard was measured using 8 checkpoints with 34 sub checkpoints, of which 29 of them scored yes, which was an 85.3 % score.

6.3. Feasibility

Feasibility standard recognize that evaluation usually is conducted in a natural setting and consume valuable resources. This standard was measured using 3 checkpoints with 10 sub checkpoints, of which 7 of them scored yes, which was an 70 % score.

6.4. Accuracy

To maintain the accuracy standard training was provided to data collectors to collect valid, credible and reliable information with different data collection methods from appropriate sources, prepared valuable judgment, feasible recommendations and change to the service was evaluated. This standard was measured using 12 checkpoints with 44 sub checkpoints of which 39 scored yes, which was an 88.6 % score.

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Annexes

Annex 1: relevance and information matrix of indicators of evaluation responsiveness of delivery service

Table 12: Relevance matrix of indicators of evaluation responsiveness of delivery service in Jimma University medical center,Jimma, 2021

List of indicators	Dimension	Relevance (RRR, RR, R) RRR - most relevant, RR - relevant R - Least relevant
Number of health care provider in labor ward	Availability	RRR
Number of health care provider in maternity operation room	Availability	RRR
Number of health care provider in maternity ward	Availability	RRR
Number of operation theatre table	Availability	RRR
Number of delivery coaches in delivery unit	Availability	RRR
Number delivery set in delivery unit	Availability	RRR
Number of cesarean sections set in maternity operation room	Availability	RRR
Number of laparotomies sets in maternity operation room	Availability	RRR
Number of CEmONC guideline in delivery unit	Availability	RR
Percentage of equipment must be available 24 hours & functional in delivery unit	Availability	RRR
Percentages of emergency drugs must be available 24 hours in delivery unit cabinet	Availability	RRR
Proportion of mothers who respond the healthcare giver is kind and respectful	Dignity	RRR
Proportion of mothers who are respected to their desire for privacy during treatment and examinations	Dignity	RRR

Proportion of women encouraged to discuss their concerns and needs freely, during the	Dignity	RRR
process of care		
Proportion of mothers provided information on treatment option	Autonomy	RRR
Proportion of mothers get informed consent before any procedure	Autonomy	RRR
Proportion of mothers get periodic information on her status of health	Autonomy	RRR
Proportion of women getting conversation where others can't hear	Confidentiality	RRR
Proportion of women getting consultation where others can't see	Confidentiality	RRR
Proportion of women getting confidentiality of her information	Confidentiality	RRR
Proportion of women getting confidentiality of her medical records	Confidentiality	RRR
Proportion of women get clear explanation about delivery service and other treatment	Communication	RRR
Proportion of women getting opportunity of asking question	Communication	RRR
Proportion of mothers getting careful listening from their health care provider	Communication	RRR
Proportion of mothers who understand things easily from health care providers explanation	Communication	RRR
Proportion of women getting service as quick as she wanted	Prompt attention	RRR
Proportion of women not spending unnecessary long-time for getting consultations	Prompt attention	RRR
Proportion of women having opportunity of daily visitors	Social support	RRR
Proportion of women getting opportunity of religious support from religious leader in their	Social support	RRR
hospital stay		
Proportion of mothers who can choose health care provider in delivery services	Choice	RRR
Proportion of mothers getting opportunity to see specialist at time they want	Choice	RRR

proportion of women responding the unit is clean	Basic amenities	RRR
Proportion of women responding that the toilet is clean	Basic amenities	RRR
Proportion of women responding that clean water is access able in the unit	Basic amenities	RRR
Proportion of women getting shower service in the unit at time they want	Basic amenities	RRR

 Table 13: Information matrix of evaluation of responsiveness of delivery service of Jimma University medical center, Jimma, 2021

List of indicators	Data source	DC methods	Data collection tool
Number of health care provider in labor ward	Head of the unit	KI interview	Checklist & interview guide
Number of health care provider in maternity operation room	Head of the unit	KI t interview	checklist & interview guide
Number of health care provider in maternity ward	Head of the unit	KI interview	checklist & interview guide
Number of operation theatre table	Head of the unit	KI interview	Inventory checklist
Number of delivery coaches in delivery unit	Head of the unit	KI interview	Inventory checklist
Number delivery set in delivery unit	Head of the unit	KI interview	Inventory checklist
Number of cesarean sections set in maternity operation room	Head of the unit	KI interview	Inventory checklist
Number of laparotomies sets in maternity operation room	Head of the unit	KI interview	Inventory checklist
Number of CEmONC guideline in delivery unit	Head of the unit	KI interview	Inventory checklist
Percentage of equipment must be available 24 hours & functional in delivery unit	Head of the unit	KI interview	Inventory checklist
Percentages of emergency drugs must be available 24 hours in delivery unit cabinet	Head of the unit	KI interview	Inventory checklist
Proportion of mothers who respond the healthcare giver is kind and respectful	Mothers	Exit interview	Interview guide
Proportion of mothers who are respected to their desire for privacy during treatment and examinations	Mothers	Exit interview	Interview guide
Proportion of women encouraged to discuss their concerns and needs freely, during the process of care	Mothers	Exit interview	Interview guide

Proportion of mothers provided information on treatment option	Mothers	Exit interview	Interview guide
Proportion of mothers get informed consent before any procedure	Mothers	Exit interview	Interview guide
Proportion of mothers get periodic information on her status of health	Mothers	Exit interview	Interview guide
Proportion of women getting conversation where others can't hear	Mothers	Exit interview	Interview guide
Proportion of women getting consultation where others can't see	Mothers	Exit interview	Interview guide
Proportion of women getting confidentiality of her information	Mothers	Exit interview	Interview guide
Proportion of women getting confidentiality of her medical records	Mothers	Exit interview	Interview guide
Proportion of women get clear explanation about delivery service and other treatment	Mothers	Exit interview	Interview guide
Proportion of women getting opportunity of asking question	Mothers	Exit interview	Interview guide
Proportion of mothers getting careful listening from their health care provider	Mothers	Exit interview	Interview guide
Proportion of mothers who understand things easily from health care providers explanation	Mothers	Exit interview	Interview guide
Proportion of women getting service as quick as she wanted	Mothers	Exit interview	Interview guide
Proportion of women not spending unnecessary long-time for getting consultations	Mothers	Exit interview	Interview guide
Proportion of women having opportunity of daily visitors	Mothers	Exit interview	Interview guide
Proportion of women getting opportunity of religious support from religious leader in their hospital stay	Mothers	Exit interview	Interview guide
Proportion of mothers who can choose health care provider in delivery services	Mothers	Exit interview	Interview guide
Proportion of mothers getting opportunity to see specialist at time they want	Mothers	Exit interview	Interview guide
proportion of women responding the unit is clean	Mothers	Exit interview	Interview guide
Proportion of women responding that the toilet is clean	Mothers	Exit interview	Interview guide
Proportion of women responding that clean water is access able in the unit	Mothers	Exit interview	Interview guide
Proportion of women getting shower service in the unit at time they want	Mothers	Exit interview	Interview guide

Annex 2: Budget breakdown

Table 14:budget break down of evaluation of responsiveness of labor and deliveryservice in Jimma University Medical Center, Jimma, 2021

S.no	Item	Unit	Unit price	Total	Total price
				quantity	
1	Pen	Number	10	5	50.00
2	Pencil	Number	2	5	10.00
3.	Pencil sharpener	Number	10	2	20.00
4	Eraser	Number	8	3	24.00
5	Blank CD	Number	25	2	50.00
6	Data collectors fee	Per	25	422	10550.00
		questionnaire			
7	Training of data	Day	500	6	3000.00
	collectors				
8	Transportation fee	Day	30	30	900.00
9	Refreshment cost	Day	150	2	300.00
10	Marker	Number	30	2	60.00
11	Paper A4	Pack	600	1	600.00
12	Printing	Page	2.5	280	700.00
13	Color print	Page	10	10	100.00
14	Binding	Number	30	4	120.00
15	Contingency 10%		1		1646.4
Total					18110.4
grant					

Annex 3: Data collection tools

Annex 3.1. Check list for inventory

Name of health facility ______Date_____

Availability check list verified by observation for evaluation of responsiveness of labor and delivery service in JUMC, Jimma Ethiopia 2021 was followed as below.

S.no	Drugs available and infrastructures	Yes	No	Remark			
	Infrastructures						
1	Independent labor room						
2	Independent delivery room						
3	Toilet for mothers						
4	Shower room for mothers						
5	water supply						
6	Electricity presence in all class						
7	Beds, mattresses, pillows, blankets, and linens						
8	bed side tables/lockers						
9	Bed screens						
10	Bed side chair						
Drugs ar	nd equipment for delivery service						
11	Oxytocin/ Ergometrine						
12	Magnesium sulphate/diazepam						
13	Antihypertensive (Nifedipine and Hydralazine)						
14	40% glucose						
15	Lidocaine						
16	Tetracycline eye ointment						
17	Atropine						
18	Hydrocortisone						
19	Ca gluconate						
20	Adrenaline						
21	Aminophylline						
22	Dexamethasone						
23	Misoprostol & mifepristone						
24	Ceftriaxone		1				
25	TDF/3TC/EFV (ARV drugs)	1					
26	Nevirapine syrup						

27	Oxygen		
28	Tetracycline eye ointment		
29	Vitamin K		
30	Ephedrine injection		
31	Ketamine injection		
32	Oxygen inhalation		
33	Thiopental iv		-
34	Halothane		-
35	Muscle relaxant (Suxamethonium & Vecronium)		
36	Lidocaine injection and or Bupivacaine		
37	Lidocaine + epinephrine injection		
38	Spinal Needle		
39	IV fluids (crystalloids)		
40	Sterile gloves		
41	IV Cannula		
42	IV sets		
43	Syringe with needle		
44	HIV test kits		
45	Delivery sets		
46	Episiotomy sets		
47	Craniotomy sets		
48	Sterile suture kit		
49	B/P apparatus with cuff		
50	Stethoscope		
51	Thermometer		
52	Weight scale for baby		
53	Urinary Catheter		
54	Ultra Sound		
55	Suction machine portable		
56	Incubator		
57	Radiant warmer		
58	Vacuum extractor		

59	Cord cutting/clumping set	
60	Forceps	
61	Suction bulb for newborn	
62	IV cannula of different size	
63	IV stand	
64	Sterilizer	
65	Ambu-bag with sterile mask	
66	Delivery coaches	
67	C/S or maternity Operation table	
68	Nasal prong for oxygen	
69	Mask for oxygen administration	
70	Catheter for oxygen administration	
71	Filled oxygen tank with flow meter	
72	Stand lamp	
73	Partograph	
74	Fetoscope/ doppler	
75	Tape to measure baby length and Head circumference	
76	Speculum for vaginal examination	
77	MVA set (at least two)	
78	E & C set (at least two)	
79	Mask for staffs	
80	Sanitizer	
81	Towels for drying and wrapping	
82	weighing scale for baby	
83	Long sleeve glove for placenta removal	
84	Functioning clock	
85	Registration books	
86	Reporting formats	

Category	Units	Professions or	Ma	ale	Female		Total	Remark
		duty	BSc	Dip	BSc	Di		
						р		
Medical	Labor	Nurse						
staffs	ward	Midwifes						
Supportive	Labor	Runner						
staffs	ward	Porter						
		Cleaner						
		Guard						
Medical	Maternal	Nurses						
staffs	OR	Midwifes						
Supportive staff	Maternal OR	Runner						
starr	OK	Porter						
		Cleaner						
		Guard						
Medical staffs	Maternity ward	Nurses						
		Midwifes						
Supportive staffs	Maternity ward	Runner						
		Porter						
		Cleaner						
		Guard						

Annex 3.2. Human Resource in labor, delivery and maternity ward of JUMC,2021

Annex 4: English Version exit interview Questionnaires

Instructions for the interviewers:

First of all, greeting the mother and ask them whether they are willing to be asked some questions related to her and service given by clarifying the purpose of evaluation and get informed consent to be interviewed. If they accept, make sure that you are in a place that comfortable and privacy for the mothers. For each item in the interview, gave appropriate response accordingly. Lastly don't forget to thanks participants.

Informed Consent Form for the Client interview

My name is ______, and I am an interviewer for the evaluation conducting on the responsiveness of delivery service in Jimma University medical center, the study is conducting to see what delivery service and its non-medical aspect of care look like in this hospital. This information helps us to propose ways in which to improve the services offered. As part of this study, we are interviewing women who came for delivery service. The interview is private, and none of the care providers cannot hear and share the information I ask you rather than the study members. However, your participation in this study is voluntary, and you can totally refuse or interrupt at any time. You have a full right to stop at any time but your participation has a great contribution to the study to make service improvement in future. If you have questions, you can ask me any unclear things you have.

Do you agree to participate	A. Yes	B. No
Date of interview	_Start time	End time

Code of participant ______Signature of participant_____

Status of the questionnaires: 1. Partial 2. Completed

Thanks for your cooperation !!

Code	Questions	Possible answers	Remark
100	How old are you?	years	
101	What is your marital status?	1. Single 2. Married 3. Divorced	
		4. Widowed	
102	What is your religion?	1. Muslims 2. Orthodox 3.	
		Protestant 4. others/specify	
103	What is your ethnicity?	1. Oromo 2. Amhara 3. Gurage	
		4. Kafa 5. Dawro 6. other/specify	
104	Where is your residency?	1. Jimma town 2. Out of Jimma	
		but Urban 3. Rural	
105	What is your educational	1. Illiterate (no read & write)	
	level?	2. Informal education 3. Primary	
		4. 9-12 grades 5. college and above	
106	What is your occupation?	1.government employee	
		2. Private employee 3. Merchant	
		4. Housewife's 5. Farmer	
		6. other/specify	
107	Currently, how many		
	family members are living		
	together?		
108	What are your family	ET. birr	
	average monthly incomes?		

Part I: Socio-demographic characteristics of respondents

Part II: Reproductive health history of respondent

Code	Questions	Possible answers	Skip pattern
200	Was it your first pregnancy?	Yes 2. No	If yes to Q200 go
			to Q 204

201	If no to Q200, how many times you are		
	pregnant including this?		
202	What was your age at first pregnancy?	years	
203	Where you gave birth the last baby	1. Health center 2.	
	before?	Public hospital	
		3. Private hospital 4.	
		Home	
		5. Other/specify	
204	What is your current mode of delivery?	1. SVD 2. Episiotomy	
		3. Instrument assisted	
		4. C/S	
205	Do have live birth baby?	1.yes 2.no	If no to Q205 , go
			to Q207
206	If yes how many children do you have?		
207	Do you have ANC follow up during	1. Yes 2. No	If no to Q207 , go
	this pregnancy?		to Q209
208	If yes to Q207, how many times?		
209	Do you have still birth history?	Yes 2. no	If no to Q209 go
			to Q211
210	If yes to Q208, how frequent?	1. Once 2. Twice	
		3. >= 3 times	
211	Have you ever had abortion?	1. Yes 2. No	If no to Q211 go
			to Q300
212	If yes to Q211, how frequent	Once 2. Twice 3. >=3	
		times	

Part III: delivery service responsiveness related questions

For the following questions response can be 1= never, 2=sometimes, 3=usually, and 4=always

Cod	Question of responsiveness	Response		ons	se
e		oj	ptio	ns	
		1	2	3	4
300	How often you are treated with respect?				
301	How often your rights kept safe from any communicable or infectious				
	diseases in this unit?				
302	How often you are encouraged to discuss your concerns freely?				
303	How often you are encouraged to ask questions about diseases, treatment				
	and care?				
304	How often you are respected to your desire for privacy during treatment				
	and examinations?				
400	How often you are provided information on alternative treatment options?				
401	How often the health care providers obtain your consent or permission				
	before any procedure?				
402	How often you are consulted about your preferences over alternative				
	treatment options?				
403	How often health care provider gives you periodic updates on the status				
	and progress of your labor?				
500	How often your consultations carried out in a manner that protects your				
	confidentiality?				
501	How often you do have conversation with health care providers where				
	others can't hear?				
502	How often do you get consultation with health care providers where others				
	can't see?				
503	How often the confidentiality of information you provided is preserved				
	(except if the information is needed by other health care providers)?				

504	How often is the confidentiality of your medical records preserved (except		
504			
	if the information is needed by other health care providers)?		
600	How often clearly health care providers explained about delivery service		
	and other treatment?		
601	How often health care providers listen to you carefully?		
602	How often the health care providers explain things clearly so that you can		
	understand easily?		
603	How often the health care providers give an opportunity to you to ask		
	questions?		
700	How often you get services you want as quickly as you wanted?		
701	How often you will spend an unnecessarily long time waiting to get		
	service you want?		
702	How often is the length of time spent at health care units waiting for		
	consultation/ treatment reasonable?		
800	How often you do have an opportunity of getting daily visitors?		
801	How often you do have the opportunity to have your personal needs taken		
	care of by friends and family?		
802	How often you do have the opportunity of getting religious support here		
	from religious leader?		
900	How often you do have a choice between health care providers in a health		
	care unit?		
901	How often you do have the opportunity to see a specialist, if they wish to?		
		L	

For next basic amenities questions response is 1=very poor, 2=poor, 3=good, 4=very

good

Code	Questions	1	2	3	4
1000	How would you rate the cleanliness of health care units?				
1001	How would you rate the maintenance of buildings in health care units?				
1002	How would you rate the adequacy of furniture in health care units?				

1003	How would you rate the nutrition and edibility of food provided to you in health care units?		
1004	How would you rate access to clean water at health care units?		
1005	How would you rate the cleanliness of toilets in health care units?		
1006	How you rate in getting shower access at time you want?		
1007	How would you rate the cleanliness of linen in health care units?		

Annex 5: Afan oromo version for clients exit interview questionnaires <u>Qajeelfama warra ragaa funananiif</u>

Hunda dursa haadholee nagaa gaafachuun jalqabi. Kaayyoo qorannoo kana sirritti hubachiisuun akka fedhiin gaaffii fi deebii isaanii fi tajaajila argataniin wal qabatu keessatti hirmaatan taasiisi. Walii galuu isaanii erga mirkanneeffatee booda haala mijataa fi iccitii eeguu danda'uun gaaffii gaafachuuf qopha'i. Gaafiileen hunduu gaafatmanii fi deebi'aanii xumuramuu isaa mirkanneeffadhu. Xumuraa irrattis warra hirmaatan galateeffachuu hin dagatin.

Unkaa walii galtee gaaffii fi deebii

Ani maqaan koo______nan jedhan. Qorannoo hospital waldhaansa giddugala yunivarsitii Jimmaatti taasisnuu keessatti waa'ee tajaajila da'umsaa fi haala ogeessi fayyaa itti siin tajaajiluun walqabatee gaaffiilee muraasa siin gaafachuu fedha. Odeeffannoon gaaffiif deebii kana irraa argamu hunduu rakkoolee jiran adda baafachuun tajaajila kennamaa jiru caalmatti fooyyessuuf qofa kan ooludha. Odeeffannoo nu kennitafiis iccittiin isaa kan eegnudha. Qorannoo kana keessatti hirmachuu keessaniin yeroo muraasa nu kennuun alatti miidhaan sinirraa gahu hin jiru. Kanaaf akka qorannoo kana keessatti hirmaataniif kabaja guddaan siin gaafana. Yeroo kamuu hirmaannaa addaan kutuu ni dandeessu. Garuu, oddeffannoon nuuf kennitan kayyoo galmaan gahuuf ga'ee guddaa qaba.

Gaaffii fi deebii kana keessatti ni hirmaatuu? 1. Eeyyeen 2. Lakkii

Guyyaa gaaffiif deebii_____

sa'aatii jalqabame_____xumura sa'aatii_____

Koodii hirmaatan_____ Mallattoo_____

Hirmannaa keessaniif guddaa galatoomaa!!

Gaaffii	Deebii	Yaada
Umrii kee meeqa?	Ganna	
Haalli ga'ila kee maal	1.Baaqqee/ leexaa	
fakkaata?	2. Heerumte jirti 3.addaan bahaniiru	
	4. Jaarsi jalaa du'eera	
Amantaan kee kaminii?	1. Muslimaa 2. Ortoodoksii 3.	
	Proteestantii 4. Kan	
	biraa/ibsi	
Sabni kee kam?	1. Oromo 2. Amhara 3. Gurage 4.	
	Kafa 5. Dawro 6. Other/specify	
Iddoon jireenya kee	1. Baadiyaa 2. Magaala	
eessa?		
Sadarkaan barnootaa kee	1. Hin barane (barreessuu fi dubbisuu	
hagam?	hin dandeessu) 2. Barnoota al-idilee	
	3. Sadarka 1ffaa 4. Kutaa 9-12 ffaa	
	5. Kolleejjii fi isaa ol	
Hojiin kee maaliin?	1. Hojii mootummaa 2. Hojii dhunfaa	
	3. Daldalaa 4. Haadha manaa 5.	
	Qotee bulaa 6. Kan	
	biraa/ibsi	
Yeroo amma maatiin		
waliin jiraatan meeqa?		
Galiin maatii keetii	Qarshii	
giddugaleessan meeqa?		
	Umrii kee meeqa?Haalli ga'ila kee maalfakkaata?Amantaan kee kaminii?Sabni kee kam?Iddoon jireenya keeeessa?Sadarkaan barnootaa keehagam?Hojiin kee maaliin?Yeroo amma maatiinwaliin jiraatan meeqa?Galiin maatii keetii	Umrii kee meeqa?GannaHaalli ga'ila kee maal fakkaata?1.Baaqqee/ leexaa 2. Heerumte jirti 3.addaan bahaniiru 4. Jaarsi jalaa du'eeraAmantaan kee kaminii?1. Muslimaa 2. Ortoodoksii 3. Proteestantii 4. Kan biraa/ibsiSabni kee kam?1. Oromo 2. Amhara 3. Gurage 4. Kafa 5. Dawro 6. Other/specifyIddoon jireenya kee eessa?1. Baadiyaa 2. Magaala eessa?Sadarkaan barnootaa kee hagam?1. Hin barane (barreessuu fi dubbisuu hin dandeessu) 2. Barnoota al-idilee 3. Sadarka 1ffaa 4. Kutaa 9-12 ffaa 5. Kolleejjii fi isaa olHojiin kee maaliin?1. Hojii mootummaa 2. Hojii dhunfaa 3. Daldalaa 4. Haadha manaa 5. Qotee bulaa 6. Kan biraa/ibsiYeroo amma maatiin waliin jiraatan meeqa?Qarshii

Kutaa I: seenaa waliigalaa hirmattoota

Kutaa 2: Haala seenaa fayyaa walhormaata hirmattootaa

Koodii	Gaaffiilee	Deebii	Irra darba

200	Ulfi kee kun kan jalqabaatii?	1. Eeyyeen	Deebiin G200
		2. Lakkii	eeyyeen yoo
			ta'e gara G204
201	Kana dabalatee yeroo meeqaaf		
	ulfooftee?		
202	Umriin kee yeroo ulfa jalqabaa meeqa	1.Ganna	
	ture?		
203	Ilmoo kee isa dhumaa isa Kanaan duraa	1. Buufata fayyaa	
	eessatti dhalate/dhalattee?	2. Hoospitala	
		mootummaa 3.	
		hospitalaa dhunfaa	
		4. Manatti 5. kan	
		biraa/ibsi	
204	Da'umsaa kee amma kana maaliin	1. Battalumaan gara	
	deesse	fuchiin da'e 2 .	
		Xiqquma cinaa	
		fuchii gara alaa	
		muruun 3. Gargarsa	
		meeshaan 4.	
		opeereshiniin	
205	Ijoollee lubbuun dhalataan qabdaa?	1. Eeyyee 2. lakkii	Deebiin G205
			lakkii yoo ta'e,
			gara G207
206	Eeyyeen yoo ta'e meeqa?		
207	Ulfa ammaa kanarratti hordoffii ulfaa	1. Eeyyeen 2.	Deebiin G207
	taasistee beektaa?	Lakkii	kee lakkii yoo
			ta'e gara G209
208	Deebii G206, eeyyeen yoo ta'e, yeroo		
	meeqaaf?		

209	Ulfa du'aan dhalate jiraayii?	1. Eeyyee 2. Lakkii	Deebiin G209
			lakkii yoo ta'e
			gara G211
210	Gaaffii 206, deebiin kee Eeyyeen yoo	1. Altokko 2. Al	
	ta'e yeroo meeqa?	lama 3. >=3	
211	Ulfii sirra bahee beekaa?	1. Eeyyeen 2.	Deebii G211
		Lakkii	lakkii yoo ta'e
			gara G300
212	Gaaffii 208 eeyyeen yoo ta'e meeqa?		

Kutaa III: Gaaffiilee haala tajaajlia da'umsaa wal qabatan

Gaaffiilee armaan gaditiif Kan deebisuun danda'amuu: 1= gonkummaa, 2=altokko tokko, 3= irra caalatti, and 4=yeroo hunda

Koodi	Gaaffiilee haala tajaajilaa da'umsa ilaalchisee	Filann	oowa	an	
i		deebii			
		1	2	3	4
300	Hagam kabajaan tajaajila argachaa jirtaa?				
301	Kutaa kana keessatti hagam dhibee dadarboo irraa eegamaa jirtaa?				
302	Hagam bilisa taate oggeessa fayyaa waliin mari'ataa?				
303	Oggeessi fayyaa akka waa'ee dhibee, yaalii fi kununsa siif godhamu gaafattu hagam sii jajjabeessuu?				
304	Yeroo yaala fi qorannoo keetii hagam kabaja argatee qofatti yaalamtaa?				
400	Hagam filannoo yaalii jirurratti oddeeffannoon siif kennamaa?				
401	Hagam ogeessi fayyaa tajaajila kamuu siif kennuun dura heeyyama kee gaafataa?				
402	Hagam waa'ee filannoowan yaalii jirurratti fedhii kee sii mariisisuu?				

403	Hagam ogeessi fayyaa haala irra jirtu fi ciniinsuu kee yerroo		
	yeroon siif ibsuu?		
500	Hagam haala iccitii kee eegeen gorsa yaalaa argataa?		
501	Hagam ogeessa fayyaa waliin iddoo namni biraa hin		
	agarreetti mari'atuu?		
502	Hagam ogeessa fayyaarraa yaalii iddoo namni biraa hin		
	agarreetti argataa?		
503	Hagam haala iccitiin oddeeffannoo ati kennite siif eegamaa		
	(hanga ogeessa fayyaa biraan hin barbadamneetti)?		
504	Hagam iccitiin galmee yookiin kaardiin yaala fayyaa kee siif		
	eegamee (hanga oddeeffannoon kee ogeessa fayyaa biraan hin		
	barbadamneetti)?		
600	Hagam ogeessi fayyaa oddeeffannoo sirritti waa'ee da'umsaa		
	fi yaaliin biraa waliin qabatan ifa godhee siif ibsaa?		
601	Hagam ogeessi fayyaa xiyyeeffannoo kennee sii dhageeffataa?		
602	Hagam ogeessi fayyaa wantoota ifatti sii ibsuun akka salphaatti		
	hubattuu taasiisaa?		
603	Ogeessi fayyaa gaaffii akka gaafataniif hagam siniif carraa		
	kennaa?		
700	Hagam tajaajilli da'umsa hospitalaa Kanaan walqabatuu		
	ariitiin haala feetun sii kennamaa?		
701	Tajaajila barbaadu argachuuf hagam yeroo hin mallee eegdaa?		
702	Yeroon ati kutaa yaalaa kanatti tajaajila argachuuf eegduu		
	hagam sababa quubsaa qaba?		
800	Hagaam firri dhufee akka sii laaluuf carraa argata?		
801	Hagaam maatii yookiin hiriyoota keen kununsi akka siif		
	taasifamuu carraa argata?		
802	As yeroo jirtu kanatti, Hagam abbootii amantaa irraa gargarsa		
	argachuuf carraa argate?		

900	Kutaa da'umsaa kanatti, hagam ogeessa fayyaa barbadeen		
	tajaajila argachuu dandeessaa?		
901	Hagam ogeessa addaa yeroo fetetti argachuuf carraa argata?		

Gaaffiilee dhiyeessi barbachiisaa walii galaa yaalaan wal qabatee jiru filannoowwan jiran

1=baay'ee gad bu'aadha, 2= gadi bu'adha, 3=gaariidha, 4= baay'ee gaariidha

koodii	Gaaffiilee	Fila	leebii		
		1	2	3	4
1000	Qulqullina kutaa yaala kanaa hagaam kennitaf?				
1001	Haala suphiinsa kanaa kanaa hagam kennitaf?				
1002	Meeshalee kutaa kanaaf galan madalawaadhaa, hagam				
	kennitaf?				
1003	nyaata kutaa kanatti siif dhiyaatuun wal qabatee sadarkaa				
	hagamii kennitaf?				
1004	Dhiyeessiin bishaan qulquluu sadarkaa hagamii kennitaf?				
1005	Qulqullina mana fincaaniin walqabatee sadarkaa hagamii				
	kennitaf?				
1006	yeroo barbadeetti, qaama dhiqachuuf jajaajila argatu hagam				
	kennitaf?				
1007	Haala qulqullina ansoolaa kutaa kana sadarkaa attamii				
	kennitaf?				

Annex 6: Amharic version for clients exit interview questionnaires አማርኛ ቅጽ - መጠይቅ የደንበኞች / እናቶች መውጣት ቃለ መጠይቅ

ለ*ቃ*ለ-መጠይቆች መመሪያዎች

በመጀመሪያ ለእናት ሰላምታ መስጠት እና ከእርሷ *ጋ*ር የተያያዙ አንዳንድ ጥያቄዎችን ለመጠየቅ እና የግምገጣ ዓላጣን በጣብራራት እና ለቃለ-መጠይቅ በእውቀት ላይ የተመሥረተ ፈቃድ ለጣግኘት ፈቃደኛ መሆናቸውን ይጠይቋቸው ፡፡ እነሱ ከተቀበሉ ለእናቶች ምቹ እና የግል ቦታ ውስጥ መሆንዎን ያረ*ጋ*ግጡ ፡፡ በቃለ-መጠይቁ ውስጥ ላለው እያንዳንዱ ነገር በዚሁ መሥረት ተገቢውን ምላሽ ሰጠ ፡፡ በመጨረሻም ተሳታፊዎችን ለጣመስገን አይርሱ ፡፡

ለደንበኛው ቃለ መጠይቅ በመረጃ ፈቃድ የተሰጠበት ቅጽ

ስሜ ______ ነው ፣ በጅማ ዩኒቨርስቲ የህክምና ማሪከል ውስጥ በአቅርቦት አንልግሎት ምላሽ ሰጪነት ላይ ለሚካሄደው ግምገጣ ቃለ መጠይቅ አድራጊ ነኝ ፣ ጥናቱ የሚያካሂደው የአቅርቦት አንልግሎት እና የህክምና ያልሆነ እንከብካቤ ክፍል በዚህ ሆስፒታል ውስጥ ምን እንደሚመስሉ ነው ፡፡ ይህ መረጃ የሚሰጡትን አንልግሎቶች ለማሻሻል የምንችልባቸውን መንገዶች ለማመልከት ይረዳናል ፡፡ የዚህ ጥናት አካል እንደመሆናችን ለወሊድ አንልግሎት ለመጡ ሴቶች ቃለ መጠይቅ እናደርጋለን ፡፡ ቃለመጠይቁ የግል ነው ፣ እርስዎ የሚሰጡት መረጃ በማሪከሉ ውስጥ በሚወልዱ እናቶች ላይ የሚሰጡትን የወሊዱ አንልግሎቶች ለማሻሻል አስተዋፅኦ ያደርጋል፡፡ እርስዎ የሚሰጡት መረጃ ከቃለመጠይቅ አድራጊው በስተቀር በማንኛውም መልኩ ለሌላ ወገን ተላልፎ አይሰጥም፡፡ በሙሉ ፈቃደኝት እንዲሳተፉ እየጠየኩ ያለመሳተፍ ወይም በማንኛውም ጊዜ ራስዎን ከጥናቱ የማግለል ሙሉ ሙበት አለዎት ነገር ግን ለወደፊቱ የአንልግሎት መሻሻል ለማድረግ ተሳትፎዎ ለጥናቱ ትልቅ አስተዋጽኦ አለው ፡፡ ጥያቄዎች ካሉዎት ያለዎትን ማንኛውንም ግልጽ ያልሆኑ ነገሮችን ሊጠይቁኝ ይችላሉ ፡፡

ለመሳተፍ እርስዎ ይስማማሉ? ሀ, **አዎ** ለ, **አይ**

የ.ቃለ	መጠይቅ	ቀን	<u>የመጀመሪያ</u>	ሰዓት	የማብቂያ

ՂԱ_____

ኮድ የተሳታሬ_____ የተሳታፊ ፊርማ _____

የመጠይቆቹ ሁኔታ- 1. ከፊል 2. ተጠናቋል

ስለ ትብብርህ አመስግናለሁ!!

ክፍል I: የተጠሪዎች ማህበራዊ-ስነ-ህዝብ ባህሪዎች

ተ.ቁ	ዋያቄ	መልስ	ላመስተውል
100	እድሜዎት ስንት ነው?	(በዓመት)	
101	የ <i>ጋ</i> ብቻዎ ሁኔታ	1. ያላንባች 2. ያንባች 3. ባሏን የፈታች 4. ባሏ የምተባት	
102	ሀይጣኖትዎት ምንድ ነዎ?	1. ሙስሊም 2. ኦርቶዶክስ 3. ፕሮቴስታንት 4. ሌላ / ይጥቀሱ	
103	ብሄርዎ ምንድ ነው?	1. አሮም 2. አማራ 3. ዮራኔ 4. ከፋ 5. ሌላ(ይተቀሱ)	
104	የመኖሪያ ቦታዎ	1. ከተማ 2. ንጠር	
105	የትምህርት ደረጃዎ	1.ያለተማረቸ 2. ማንበብምና መጻፍም የምትችል 3. የመጀመሪያ ደረጃ 4. ሁለተኛ ደረጃ (9-12) 5. ኮሌጅና ከዛ በላይ	
106	የርስዎ የስራ ሁኔታዎ	1. የመንግስት ሰራተኛ 2. በግል ተቋም 3. ነጋኤ 4. የቤት እመቤት 5. አርሶ አደር 6. ሌላ ይጥቀሱ	
107	በአሁኑ ጊዜ ስንት የቤተሰብ አባላት አብረው ይኖራሉ?		
108	ወራዊ የቤተሰቦ <i>ነ</i> ቢ ምን ያህል ነው?	(በኢትዮጵያ ብር)	

ክፍል II- የመልስ ሰጭ የስነ ተዋልዶ ጤና ታሪክ

ኮድ	ጥያቄ	ሊሆኑ የሚ ች ሉ <i>መ</i> ልሶች	ንድፍ ዝለል
200	የመጀመሪያ እርባዝናዎ ነው?	1. አዎ 2. አይ	ለጥያቄ 200 መልስ አዎ ከሆነ ወደ ጥያቄ 204
			ይሂዱ
201	ለጥያቄ 200 መልስ አይ ከሆነ ፣		
	ይህንን ጨምሮ ስንት ጊዜ		
	እርግዞዋል?		

202	በመጀመሪያ እርግዝናዎት ጊዜ	1 በአመት
	<i>ዕድሜዎ</i> ት ስንት ነበር?	2. አላስታውስም
203	የመጨረሻውን ልጅ ከዚህ በፊት	1. ጤና ጣቢያ 2. የህዝብ
	የት ወለዱ?	ሆስፒታል
		3. የግል ሆስፒታል 4. ቤት
		5. ሌላ / ይጥቀሱ
204	የአሁኑን በምንድነው የወለዱት?	1. መደበኛ በሴት ብልት
		በኩል ልጅ መውለድ
		2.በመቁረጥ በአነስተኛ
		መክፈት
		3. መሳሪያ የታግዘ
		4. በቀዶ ተገና
205	በህይወት ያለ ልጅ አለዎት?	1. አዎ 2. አይ
206	አዎ ከሆነ ስንት ልጆች አሉዎት?	
207	በዚህ በእርግዝና ወቅት የቅድመ	1. አዎ 2. አይ
	ወሊድ እንክብካቤ ክትትል	
	አለዎት?	
208	ለተያቄ 207 መልስ አዎ ከሆነ	
	ስንት ጊዜ?	
209	ከመወለድዎ በፊት የሞተ ልጅ	1. አዎ 2. አይ
	አለዎት?	
210	ለጥያቄ 208 መልስ አዎ ከሆነ ምን	1. አንዴ 2. ሁለት ጊዜ 3. ከ
	ያህል ጊዜ?	3 ጊዜ በላይ
211	ፅንስ ወረዶቦት ያው,ቃል?	1. አዎ 2. አይ
212	ለተያቄ 211 አዎ ከሆነ ፣ ምን ያህል	
	2.16	
	II. ዐመል ይ ኒስአመሎት ዐ ር አርቢ	

<u>ክፍል III: የወሊድ አንልግሎት የጤና ስርዓት ምላሽ ሰጪነት ጋር የተያያዙ ተያቄዎች</u>

ለሚከተሎት ጥያቄዎች የተሳታፊዎች መልስ 1 = በጭራሽ ፣ 2 = አንዳንድ ጊዜ ፣ 3 = ብዙውን ጊዜ እና 4 = ሁልጊዜ ሊሆን ይችላል

ኮድ ተያቄ የምላሽ አማራጭ

		1	2	3	4
300	ምን ያህል ጊዜ በአክብሮት አገልባሎት የገኛሉ?				
301	በዚህ ክፍል ውስጥ ከማንኛውም ተላላፊ ወይም ተላላፊ በሽታዎች መብቶችዎ ምን				
	ያህል ጊዜ ተጠብቀዋል?				
302	ስጋትዎን በነፃነት ለመወያየት ምን ያህል ጊዜ ይበረታታሉ?				
303	ስለ በሽታዎች ፣ ሀክምና እና እንከብካቤ ምን ያህል ጊዜ ጥያቄዎችን ለመጠየቅ				
	ይበረታታሉ?				
304	በሕክምና እና በምርመራ ወቅት ለግላዊነት ፍላንትዎ ምን ያህል የተከበሩ ናቸው?				
400	በአማራጭ የሕክምና አማራጮች ላይ ምን ያህል ጊዜ መረጃ ይሰጥዎታል?				
401	የጤና እንከብካቤ አቅራቢዎች ከማንኛውም ሂደት በራት የእርስዎን ፈቃድ ወይም				
	ፈቃድ ምን ያህል ጊዜ <i>ያገ</i> ኛሉ?				
402	በአማራጭ የሕክምና አማራጮች ላይ ስለ ምርጫዎችዎ ምን ያህል ጊዜ ምክር				
	ይሰተዎታል?				
403	የጤና እንክብካቤ አቅራቢ የጤና ሁኔታ እና ለውጥ በየጊዜው ወቅታዊ መረጃ				
	ይሰጥዎታል?				
500	የእርስዎ ሚስጥሮች ምን ያህል ጊዜ ሚስጥራዊነትዎን በሚጠብቅ መንገድ ያካሂዳሉ?				
501	ሌሎች መስማት ከማይቸሉበት የጤና እንክብካቤ አቅራቢዎች <i>ጋ</i> ር ምን ያህል ጊዜ				
	ውይይት ያደርጋሉ?				
502	ሌሎች ማየት ከማይችሉበት የጤና እንከብካቤ አቅራቢዎች <i>ጋ</i> ር ምን ያህል ጊዜ ምክክር				
	<i>ያገ</i> ኛሉ?				
503	ያቀረቡት የመረጃ ምስጢራዊነት ምን ያህል ጊዜ ተጠብቆ ይገኛል (መረጃው በሌሎች				
	የጤና እንከብካቤ አቅራቢዎች አስፈላጊ ካልሆነ በስተቀር)?				
504	የሕክምና መረጃዎችዎ ሚስጥራዊነት ምን ያህል ጊዜ ተጠብቆ ይገኛል (መረጃው				
	በሌሎች የጤና እንከብካቤ አቅራቢዎች አስፈላጊ ካልሆነ በስተቀር)?				
600	የጤና እንከብካቤ አቅራቢዎች ምን ያህል ነገሮችን በግልጽ ያብራሩልዎታል?				
601	የጤና እንከብካቤ አቅራቢዎች ምን ያህል ጊዜ በጥሞና ያዳምጡዎታል?		1		1
602	በቀላሉ ለመረዳት እንዲችሉ የጤና እንክብካቤ አቅራቢዎች ምን ያህል ጊዜ ነገሮችን		1		†
	በግልጽ ያብራራሉ?				
603	የጤና እንከብካቤ አቅራቢዎች ምን ያህል ጊዜ ተያቄዎችን ለመጠየቅ እድል		1		+
	ይሰጡዎታል?				

	• • • • • • • • • • • • • • • • • • •			1	<u> </u>
700	የሚፈልጉትን ያህል በፍጥነት የሚፈልጉትን አንልግሎት ምን ያህል ያንኙታል?				
701	የሚፈልጉትን አገልግሎት ለማግኘት ምን ያህል ጊዜ አላስፈላጊ ረጅም ጊዜን ያጠፋሉ?				
702	ምክክር / ህክምናን በመጠባበቅ በጤና አጠባበቅ ክፍሎች ውስጥ የሚወስደው ጊዜ				1
	ስንት ጊዜ ምክንያታዊ ነው?				
800	ንብኝዎች እንዲኖሩዎት ምን ያህል ጊዜ ዕድል አለዎት?				
801	የግል ፍላንቶችዎን በጓደኞችዎ እና በቤተሰቦችዎ እንዲንከባከቡ ምን ያህል ጊዜ ዕድል				+
	አለዎት?				
802	በሃይማኖታዊ እንቅስቃሴዎች ውስጥ እራሳቸውን እንዲሳተፉ ምን ያህል ጊዜ ዕድል				+
	አለዎት?				
900	በጤና አጠባበቅ ክፍል ውስጥ ባሉ የጤና እንክብካቤ አቅራቢዎች መካከል ምን ያህል				\uparrow
	ጊዜ ምርጫ አለዎት?				
901	ከፈለጉ ስፔሻሊስት <i>ጋ</i> ር ለመገናኘት ምን ያህል ጊዜ ዕድል አለዎት?				
\ሚቀጥ	ሉት <i>መ</i> ሥረታዊ አንልግሎቶች ጥያቄዎች ምላሽ 1 =በጣም ደካማ፣ 2 = ደካማ ፣ 3 =	ጥሩ ፣	4 = (ገጣም	
ዮሩ					
ኮድ	ጥያቄ	የም	ነሽ አơ	የራጭ	
		1	2	3	4
1000	የጤና እንክብካቤ ክፍሎችን ንፅህና እንኤት ይ <i>ገመግሙ</i> ታል?				1
1001	በጤና አጠባበቅ ክፍሎች ውስጥ የህንፃዎችን ጥገና እንዴት ይ <i>ገመግጣ</i> ሉ?				
1002	በጤና አጠባበቅ ክፍሎች ውስጥ የቤት እቃዎችን በቂነት እንዴት ይመዘኑታል?				+
1003	በጤና አጠባበቅ ክፍሎች ውስጥ ለእርስዎ የሚሰጠውን ምግብ አመጋገብ እና				+
	ተመጋቢነት እንኤት ይመዘኑታል?				
		L			_

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በጤና አጠባበቅ ክፍሎች ውስጥ የንጹሀ ውሃ አቅርቦትን እንዴት ይመዘኑ ነበር?

በጤና እንክብካቤ ክፍሎች ውስጥ የመፀዳጃ ቤቶችን ንፅሀና እንኤት ይገመግጣሉ?

በምፈልጉት ሰኣት የሰውነት መታጠብን አንልባሎት መግኘትን እንኤት ይመዝኑታል?

በዚህ ጤና እንክብካቤ ክፍል ውስጥ የኣንሶለን ንፅህና እንዴት ይመዝነሉ?

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Annex 7: Interview guide for in-depth interview of key stakeholders

I'm ______. I am the principal investigator for the Jimma University Medical Center's evaluation of the responsiveness of the delivery service in Jimma University medical center. This research was done to better understand how care providers deal with clients when they are in the maternity unit. Your information provides strong backing for our review procedure, particularly for service enhancement. The interview's results will all remain private. Only the evaluation team was informed of the findings. Additionally, we will make sure that none of the data we provide in our report identifies you as the respondent. If you decide not to take part in our study, you won't be penalized in any way, but if you agree to take part and then change your mind, your involvement will be very helpful to the study.

Do you agree? 1. Yes 2. No,

The interview status 1. Completed 2. Refused

Age_____Position_____

Work experience_____

Do you take training like CRC, CEmONC or other in the last two years?

Thank you for patience and for your time!!!

A. Interview guide for health care providers and head nurses in maternity unit

- Are the resources required for provision of delivery service available? If yes, how? If not, why? (Probe on availability) ______
- 2. Do mothers get respect and having physical examinations conducted in privacy during labor & delivery? If yes, how? if no, how? (Probe it dignity of clients)
- 3. Do the mothers have active engagement or involvement in delivery service decision making? If yes, how? If no, how? (Probe it) _____
- 4. Do mothers have right of auditory and visual privacy in labor and delivery service and confidentiality in documents and information they have? (Probe it) _____
- 5. Do mothers get clarity on delivery service and other medical health care by health care providers to make autonomous decision? (Probe it) _____
- 6. Do mothers getting service in short waiting time and as soon as wanted? (Probe it)
- Do families or religious leaders asks & give support to mothers during her stay? (Probe it)
- 8. Do mothers have right in choosing health care providers in Jimma University medical center for delivery service? (Probe it) ______
- 9. Are there infrastructures that keep comfort for mothers while stay here for service? (Probe it.)

B. Interview guide for nursing and medical director of JUMC

- 1. Are the resources required for provision of delivery service available? If yes, how? If not, why? (Probe on availability and supply shortage)
- 2. Why training was not given for staffs particularly on CRC and CEmONC?
- What plans you have to improve the capacity of health care providers? (Probe on training, education and incentives)
- 4. Do you have regular supervision and feedback how clients and care provider interact with service provision in delivery service? (Probe it on)

C. Interview guide for pharmacy department of JUMC

- 1. How do you describe the availability of resource to provide delivery services in JUMC?
- 2. Why supplies and drugs shortage happened here in JUMC? (Probe it)
- 3. Do you have regular meeting with JUMC management team to improve the overall supplies continuously for delivery service? If yes how? If not why? (Probe)_____

D. Interview guide for nursing school and obstetrics & gynecology department

- 1. How you explain the availability of resources in JUMC delivery services?
- 2. Do you have any contribution on availability of supplies and drugs? Probe it)
- 3. Do you train your students on utilization of resources? If yes how? If no why?
- 4. Do you train your students on how they interact with the staffs and clients during attachment in delivery service? If yes, how? If no, why?

E. Interview guide for Jimma zonal health department and Jimma town health office

- Do you have any contribution for availability of supplies in JUMC delivery service? If yes how? If no why? (Probe it) ______
- Do you have monitoring way on how care providers interact with clients in JUMC of delivery service? (Probe) ______
- 3. Do you have regular meeting with JUMC management team to improve the overall service quality of delivery service? If yes how? If not why? (Probe)

Annex 8: Meta-Evaluation Judgement checklist

Checklist used for judging evaluation designs and reports on title of Evaluation document: Evaluation of responsiveness of delivery service in JUMC. This judgement checklist contains the 4 Meta evaluation standards (Utility, propriety, feasibility and accuracy) with their total 30 check points and 114 sub-check points.

Sub-standards and checkpoints	Crite	eria res	sponse	Remark
	Yes [1]	No [0]	NA	
Requirement for utility standard	1	1		
U1- stakeholder identification				
Do clearly identify the evaluation client?	1			
Do you consult stakeholders to identify their information needs?	1			
Do you ask stakeholders to identify other stakeholders?	1			
Do arrange to involve stakeholders throughout the evaluation, consistent	1			
with the formal evaluation agreement				
Do you keep the evaluation open to serve newly identified stakeholders?	1			
U2 Evaluator Credibility				
Engage evaluators whom the stakeholders trust	1			
Engage evaluators who can address stakeholders' concerns	1			
Engage evaluators who are appropriately responsive to issues of gender,		0		
socioeconomic status, race, and language and cultural differences				
Attend appropriately to stakeholders' criticisms and suggestions	1			
U3 Information Scope and Selection				
Assign priority to the most important questions	1			
Allow flexibility for adding questions during the evaluation		0		
Obtain sufficient information to address the stakeholders' most	1			
important evaluation questions				
Allocate the evaluation effort in accordance with the priorities assigned	1			
to the needed information				

114 Volues Identification				
U4 Values Identification				
Consider all relevant sources of values for interpreting evaluation		0		
findings, including societal needs,				
Provide a clear, defensible basis for value judgments	1			
Distinguish appropriately among dimensions, weights, and cut scores on	1			
the involved values				
Take into account the stakeholders' values	1			
U5 Report Clarity				1
Issue one or more reports as appropriate, such as an executive summary,	1			
main report, technical report, and oral presentation				
Focus reports on contracted questions and convey the essential	1			
information in each report				
Write and/or present the findings simply and directly	1			
U6 Report Timeliness and Dissemination				
Make timely interim reports to intended users		0		
Deliver the final report when it is needed	1			
U7 Evaluation Impact				
As appropriate and feasible, keep audiences informed throughout the	1			
evaluation				
Forecast and serve potential uses of findings		0		
Provide interim reports	1			
Supplement written reports with ongoing oral communication	1			
Requirement for feasibility standard				I
F1 Practical Procedures				
Minimize disruption and data burden		0		
Appoint competent staff and train them as needed	1			
Make a realistic schedule		0		
	1	1	1	1

FA D 197 1 197			
F2 Political Viability			
Anticipate different positions of different interest groups	1		
Report divergent views	1		
Terminate any corrupted evaluation	1		
F3 Cost Effectiveness			
Be efficient	1		
Foster service improvement	1		
Provide accountability information	1		
Generate new insights	1		
Requirement of propriety standard			 I
P1 Service Orientation			
Promote excellent service	1		
Identify service strengths to build on	1		
Identify service weaknesses to correct	1		
Expose persistently harmful practices	1		
P2 Formal Agreements, reach advance written agreements on:			1
Evaluation purpose and questions	1		
Audiences	1		
Release of reports		0	
Evaluation procedures and schedule	1		
Evaluation resources		0	
P3 Rights of Human Subjects			
Follow due process and uphold civil rights	1		
Understand participants' values	1		
Respect diversity	1		
Follow protocol	1		

Honor confidentiality/anonymity agreements	1			
Minimize harmful consequences of the evaluation	1			
P4 Human Interactions		1	1	
Consistently relate to all stakeholders in a professional manner	1			
Honor participants' privacy rights	1			
Honor time commitments	1			
Be sensitive to participants' diversity of values and cultural differences	1			
Be evenly respectful in addressing different stakeholders	1			
P5 Complete and Fair Assessment				
Assess and report the service strengths and weaknesses	1			
Report on intended and unintended outcomes	1			
Acknowledge the final report's limitations	1			
P6 Disclosure of Findings				
Clearly define the right-to-know audience	1			
Report balanced, informed conclusions and recommendations	1			
Report all findings in writing, except where circumstances clearly	1			
dictate otherwise				
Assure the reports reach their audiences		0		
P7 Conflict of Interest				
Identify potential conflicts of interest early in the evaluation		0		
As appropriate and feasible, engage multiple evaluators		0		
Maintain evaluation records for independent review	1			
Engage uniquely qualified persons to participate in the evaluation, even	1			
if they have a potential conflict of interest; but take steps to counteract				
the conflict				
P8 Fiscal Responsibility		1	1	
Specify and budget for expense items in advance	1			

Maintain adequate personnel records concerning job allocations and	1			
time spent on the evaluation project				
Be frugal in expending evaluation resources	1			
Requirement for accuracy standard	1	<u> </u>	<u> </u>	1
A1 service Documentation				
Collect descriptions of the intended service from various written sources	1		T	[
and from the client and other key stakeholders				
Various descriptions of how the service was intended to function	1			
Analyze discrepancies between how the service was intended to operate	1			
A2 Context Analysis				
Maintain a log of unusual circumstances	1		1	
Estimate the effects of context on service outcomes	1			
Describe how people in the service general area perceived the service		0		
existence, importance, and quality				
A3 Described Purposes and Procedures				
Monitor and describe how the evaluation's purposes stay the same or		0		
change over time				
As appropriate, update evaluation procedures to accommodate changes		0		
in the evaluation's purposes				
Record the actual evaluation procedures, as implemented	1			
Describe the evaluation's purposes and procedures in the summary and	1			
full-length evaluation reports				
A4 Defensible Information Sources				
As appropriate, employ a variety of data collection sources and methods	1			
Document and report information sources	1			
Document, justify, and report the means used to obtain information	1			
from each source				

Include data collection instruments to appendix of the evaluation report	1		
A5 Valid Information			
Focus the evaluation on key questions	1		
Document how information from each procedure was scored, analyzed,	1		
and interpreted			
Report and justify inferences singly and in combination	1		
Assess and report the comprehensiveness of the information provided	1		
by the procedures as a set-in relation to the information needed to			
answer the set of evaluation questions			
A6 Reliable Information		·	
Identify and justify the type(s) and extent of reliability claimed	1		
Check and report the consistency of scoring, categorization, and coding	1		
Train and calibrate scorers and analysts to produce consistent results	1		
A7 Systematic Information			
Establish protocols for quality control of the evaluation information	1		
Verify data entry	1		
Proofread and verify data tables generated from computer output or	1		
other means			
Systematize and control storage of the evaluation information	1		
Have data providers verify the data they submitted	1		
A8 Analysis of Quantitative Information			
Employ multiple analytic procedures to check on consistency and	1		
replicability of findings			
Examine variability as well as central tendencies	1		
Identify and examine outliers, and verify their correctness	1		
Identify and analyze statistical interactions	1		

A9 Analysis of Qualitative Information			
Define the boundaries of information to be used	1		
Classify the obtained information into the validated analysis categories	1		
Derive conclusions and recommendations, and demonstrate their	1		
meaningfulness			
Report limitations of the referenced information, analyses, and	1		
inferences			
A10 Justified Conclusions			
Limit conclusions to the applicable time periods, contexts, purposes,	1	T	
questions, and activities			
Cite the information that supports each conclusion	1		
A11 Impartial Reporting			
Engage the client to determine steps to ensure fair, impartial reports		0	
Safeguard reports from deliberate or inadvertent distortions	1		
As appropriate and feasible, report perspectives of all stakeholder		0	
groups and, especially, opposing views on the meaning of the findings			
Describe steps taken to control bias	1		
A12 Meta evaluation			
Designate or define the standards the evaluators used to guide and	1		
assess their evaluation			
Record the full range of information needed to judge the evaluation	1		
against the employed standards			
As feasible and appropriate, contract for an independent meta evaluation	1		
Evaluate all important aspects of the evaluation, including the	1		
instrumentation, data collection, data handling, coding, analysis,			
synthesis, and reporting			

Assurance of principal evaluator, examiner, and advisors

The undersigned agrees to accept responsibility for the scientific ethical and technical conduct of the scientific research and for providing of essential progress reports as per terms and settings of the faculty of public health in result at the time of contribution is forwarded as the result of this application.

Title of the thesis: <u>Process evaluation of responsiveness of delivery service in Jimma</u> university medical center, Oromia region, south west, Ethiopia.

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Date: December 29, 2022

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Date: December 29, 2022