Determinants and Outcome of Safe 2nd Trimester Medical Abortion at Jimma University Medical Center, South West Ethiopia

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Abstract

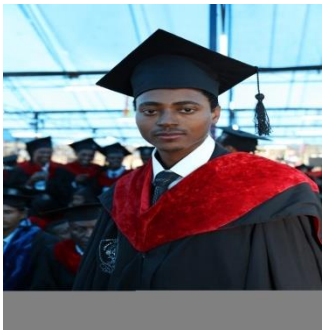
Background; although the vast majority of abortions are performed in the first trimester, still 10–15% of terminations of pregnancies have taken place in the second trimester globally. As compared to first trimester, second trimester abortions are disproportionately contribute for maternal morbidity and mortality especially in low-income countries where access to safe second trimester abortion is limited. The objective of this study was to identify factors affecting and outcome of induced safe second trimester medical abortion in Jimma University medical center, South West Ethiopia.

Methods; Institution based cross-sectional study design was used to conduct a study among women who seek safe second trimester medical abortion services and admitted at gynecology ward. All (201) eligible study subjects were included who come for the safe medical abortion service during data collection period. Data collected using pretested structured questionnaire through exit-interviewing and abstracted from their chart. The data was entered into EpData version 3.1 then exported to SPSS version 21.0 for analysis. Variables with P-value less than 0.25 in bivariate analysis were entered into the final model of multivariable logistic regressions to identify determinants with 95% CI and P-value < 0.05. Hosmer and Lemeshow Test were used to check model fitness at P-value of 0.05. Ethical clearance was obtained and cconfidentiality kept using codes and patient's chart number.

Results In this study the response rate was 98.05%. Out of 201 women participated in the study and addmitted for safe second trimester medical abortion, 154 (76.6%) of them had favorable outcome while the remaining 47 (23.4%) had unfavorable outcome. Previous experience of abortion [AOR= 6.001, 95% CI= (3.766, 8.885)], gestational age [AOR=0.902, 95% CI= (0.074, 0.986)], parity [AOR=2.384, 95% CI= (1.040, 3.693)], cervical status [AOR=8.001, 95% CI= (5.715, 10.015)], overall waiting time for more than two weeks [AOR=0.531, 95% CI= (0.504, 0.963)], overall waiting time for two weeks [AOR=0.054, 95% CI= (0.006, 0.453)] and moderate anemia -(Hgb:7-10g/dl)-[AOR=0.071,95% CI= (0.004, 0.163)] were independent predictors for outcome of safe second trimester medical abortion.

Conclusion This finding implied that favorable outcome of induced safe second trimester medical abortion overweigh its unfavorable outcome that strongly determined by gestational age, cervical status, previous experience of abortion, parity, moderate anemia and overall waiting time. Induced second trimester medical abortion is an effective and safe method however, much should be done to reduce unfavorable outcome by minimizing overall waiting time through intervening at low gestational age. Therefore, it is recommended that safe second trimester medical abortion services should be continued under a certain conditions so as to reduce maternal morbidity and mortality.

Key words; determinants, outcome, safe medical abortion, Second trimester



Biography

Personal details

- **Full name**: YIBELTAL SIRANEH BELETE
- **Sex:** Male
- **Date of Birth**: 1989 (1982 E.C.)
- **Place of Birth**: kutti kebele, GimboWoreda, Kaffa zone, S/N/N/P region.
- **Marital status:**Married
- **Health status:** Normal
- **Nationality**: Ethiopian
- **Address:** Jimma town
- **Place of work:** Jimma university main campus, dep't of Health economics, management & policy(Fuculty of public health)-Lecturer of health system management and project management,
- **Position in the University**:- Reform and Academic quality assurance coordinator at Faculty of public health and Managing editor of Ethiopian Journal of health sciences.
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Educational background

- From grade 1-8 in Kutti complete primary school, Gimbo, kaffa.
- From grade 9-10 in Gimbo secondary school,Gimbo, kaffa.
- From grade 11-12(Preparatory program) in Bonga secondary and preparatory school.
- I earned my BSC degree in public health officer and MPH/HSM from Jimma University. Some of major course I took as an undergraduate public health officer student were health service management, SRH, epidemiology, research methodology, env'tal heath sciences, human physiology, human anatomy, human pathology and other all minor and major clinical courses.
- During studying MPH-majorly project management, monitoring & evaluation, health service management, advanced health economics, health policy, principles of health education/behaiveral sciences, BCC/IEC material development, Behaiveral intervention models and reproductive health courses were some of well taken and highly scored with demonstrable skill.

Language skill

Language	Reading	Writing	Speaking
English	Excellent	Excellent	Excellent
Amharic	Excellent	Excellent	Excellent
Kaffinoono	Excellent	Excellent	Excellent
Afan Oromo	Good	Good	Good

Work experience

I worked in multi extra-academic services by representing students union in different positions. I designed and coordinated many projects that provide a lot service to Jimma University students and community of Jimma town. I took many trainers of training (TOT) in varies topics such as Technology and innovation, peer-counseling & guidance, gender issue, peer-education, giving tutorial class for junior female students, sustained campus dialogue in peace and security, basic leadership skill, sexual & reproductive health (SRH), weekend online program at Jimma FM 102.0 radio (Basic principles of journalism-TOT by SNNPR For community radio program establishment), are the major ones. Recently taken trainings were on Research ethics by Oslo university/SACCED project, Innovation-Design thinking by Mekerer University/ HoARILab.team, Business Modeling by HoARILAB Office of JU and Need finding training with online and

by HoARILAB Office of JU staff. Some of my extra academic services in Jimma University can be attached with this letter as a recommendation and certificate form if needed.

Beside lecturing, as a public health professional-health services management specialist, the researches and projects I involved in designing new projects, writing synopsis, collecting and supervising data collection process, Conducting FGD & IDI, compiling statistical data, interpret and draft appropriate reports were maternal health project(option B+ ART program and health professionals commitment to increase MCH services utilization), RH services projects, producing new insecticidal spray that kill mosquitoes innovation, outcome and determinants of abortion project and BCC material development sub-project. Besides the experience I have in research Project, presenting results/findings on different national and international conferences were some of my experiences.

Project/Research experiences

1) HoARILab.Youth spark innovation grant winner, JU, Ethiopia in 2016--Co-Innovator
2) Sexual and reproductive health services project, HAPCCO, in 2014-2016.—Co-PI
3) Maternal and child health: implication to SDG project, JU, in 2016---PI
4) Outcome and determinants of safe 2nd TM medical abortion, JU, CIRHT, 2015-2016…Co-PI
5) KOFIH-JU-JZHD project on maternal and child health as an internal consultant for BCC/educational material development and radio program script/audio content preparation, 2016/17 –Coordinator
6) Sub-investigator for the innovative project "phone based maternal and child health services (hello doctor)" funded by Grand challenge Ethiopia/FMoH with Canada gov't.

Awards and special skill

- Bachelor of Science degree in public health and MPH/HSM from Jimma University
- Certificate from Jimma university community based education office for valuable contribution and coordination of community service activities.
- Certificate of valuable contribution in the process of overall activities in Jimma University students union office.
- Certificate of TOT from NGOs like OSSA, Dkt, FGA, and mar stops international and from different projects
- Appreciation for designing, implementing and coordinating of varies projects in collaboration with governmental and non-governmental organization.Certificate for my research presentation on national and international conferences.
- In addition to this, I had basic computer skill including SPSS research analyzing software.

Research experience

- Community health problem identification and intervention as well as measuring effectivness
- Uptake of PMTCT option B+ ART program among all HIV +ve pregnant & lactating mothers in JUSH at ANC clinic, Jimma, south west Ethiopia,2006 E.C. and the master's thesis on health professionals commitment. Both of the papers were on progress for publication on national and international journals.
- Many term papers that were submitted for partial fulfillment of MPH course
- Three research projects which were on data analysis stage and two manuscripts submmitted for publication
- I had 5 contributions on conference proceedings of Jimma university, Arbaminch university, Mekele University, EPHA and EPHI after presenting on those national and international research conference.(If you need evidence, I can submit book of abstract or certificates)

Hobbies and interest

- Further education, lecturing and training, Innovation-Researching
- Reading scientific books & designing new projects
- Working in any extra academic activities including research and community services
- Conducting training and workshop
- Public service, volunteer work and teamwork
- Visiting new places and environments

Reference

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