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Original Research

Integration of Family Planning Services within Post Abortion Care at Health Facilities in Dessie –North East Ethiopia.

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Abstract

The aim of this study is to investigate the integration of family planning services within post abortion care that plays a vital role in reducing maternal morbidity and mortality resulting from abortion and its complications. Facility based cross sectional study design was used including both quantitative and qualitative data collection method. The sample size was 291. The number of study units to be sampled from each facility was determined using proportional allocation to size and systematic random sampling was employed to select and approach each study subjects. A validated semi structured questionnaire was used to collect the data. Bi-variate analysis and multivariate logistic regression analysis was carried out to identify the most important predictors of integrating family planning services within post abortion care. A total of 282 post abortion women were included in the exit interview. Among these 158 (56.0%) reported that they have got family planning (FP) counselling and 134 (47.5%) left the health facility with modern contraceptive method. Lack of trained provider, being over loaded by other routine activities, absence of separate post abortion room, lack of commodities and supplies were major identified barriers of integrating family planning services within post abortion care. Family planning services were partially integrated within post abortion care. Attention should be given in service providers training, availing post abortion family planning supplies and equipments in the post abortion recovery room.

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INTRODUCTION

Unsafe abortion is a major public health problem in many countries. It is one of the most easily preventable causes of maternal death and ill-health which causes about 13% of global maternal mortality and approximately 20% of overall burden long term sexual reproductive ill-health. A woman die every eight minutes some were in developing countries due to complications arising from unsafe abortion (WHO, 2007). Providing post abortion service is a widely accepted public health strategy to reduce maternal mortality and morbidity from unsafe abortion and an opportunity to provide

comprehensive reproductive health services (FHI, 2007). Providing post abortion family planning (PAFP) services and facilitating post abortal women's access help to prevent future unwanted pregnancies and break the cycle of repeat abortion (Post abortion Care Consortium Community Taskforce, 2002). Abortion care is one of the few contacts that women visit health facilities and thus becomes an opportunity for receiving family planning and other reproductive health services (Abdel-Tawab, 2009).

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A consensus statement stated by post abortion care consortium and international conference on population and development (ICPD) program of action said that if the woman we treat for abortion is there because she could not get contraception, we have failed her. If she leaves without family planning method we have failed her twice (ICPD, Post abortion Care Consortium, 1994). Based on health and health related indicators report of medical abortion without complication (safe abortion) is indicated as the fifth leading cause of health facility admission for female in Ethiopia (FMOH, 2009). Unsafe abortion accounts for nearly 60% of all gynaecologic admissions and almost 30% of all obstetric and gynaecologic admissions all together (MOH, Family health department, 2006). Due to the clandestine nature of unsafe abortion services, however, these figures represent only the tip of the iceberg and not full magnitude of the problem.

The national reproductive health strategy and the health sector development plan (HSDP) give emphasis to improve quality and coverage of reproductive health services through (MOH, integrated approach National reproductive health strategy, 2006). Many calls exist for integration as a way to address unmet need for family planning. Family planning services may be integrated with a wide range of other services; such as with STI/HIV/AIDS services, with post abortion care, immunization service (Farrell, 2007). national Ministry of Health issued guideline for implementation of safely induced abortion services in 2006 and the guideline mentioned post-abortion counselling and family planning services provision as one component of comprehensive post abortion care. (MOH, Effectively 2006). treating abortion complications, providing family planning to prevent future unintended pregnancies and unsafe abortions, and linking women to other reproductive health services can substantially reduce the number of abortion-related death, taking a significant step toward the global goal of reducing maternal mortality (Post abortion Care Consortium task force, 2002; USAID and JHIEGO, 2002; Maureen and Katherine, 2003). Many post abortion women likely need family planning services, but unmet need for these greatest. services often World health is organization (WHO) advises that all post abortion patients receive contraceptive counselling before leaving the health facility (WHO, 2003; Elizabeth and Laura, 2006). Family planning services need to be initiated

immediately during postabortion as ovulation returns as early as day 11 and usually occurs before the first menstrual bleeding. Recent WHO guidelines recommend a six month interpregnancy interval following abortion to ensure better maternal and fetal outcomes (WHO, 2006; Huntington, 2000).

There are varieties of integration strategies to bring FP services to health programs already accessed by women. The FP service integration models ranges from the simple incorporation of information about healthy timing and spacing of pregnancy, to the provision of information about referrals for available methods, to counselling and actual method provision (Dieng, 2008; Hala et al., 2007). The different models of FP service integration have their own effect on service quality, acceptability and continual use of family planning services, and cost-effectiveness (FHI, 2004; Monica et al., 2007). Offering services in one place at one time and by the same provider may generally be preferable for clients and ensures that their needs are met during one visit. Referring clients for related services may be more feasible and less costly for some programs, but doing so may reduce their effectiveness in ensuring that clients actually receive the services (Engender Health, 2003; Hala et al., 2007). Considering integration of family planning services within post abortion care, it is not known which integration model(s) would be more effective in different hospital settings of Ethiopia. In general, little is known about how integrated services can best be configured, and what impact they have on the service provision.

There is remarkably little empirical evidence available about integration of family planning services within post abortion care nationally & particularly there is no study on this issue at the study area. Therefore this study aimed at providing information on the integration of family planning services within post abortion care that plays a vital role in reducing maternal morbidity and mortality resulting from unwanted pregnancy, abortion and its complications among women getting abortion care.

The specific objectives of present research are to assess the future fertility desire, knowledge on fertility return after abortion, family planning service provision among post abortion women and to investigate the integration model of providing family planning services within post abortion care at the target health facilities. The specific objectives of this research are to assess

the future fertility desire, knowledge on fertility return after abortion, family planning service provision among post abortion women and to investigate the integration model of providing family planning services within post abortion care at the target health facilities.

MATERIALS AND METHODS

Study Area and Period

The study was conducted at health facilities providing abortion service in Dessie city, South Wollo zone, Amhara Regional state from Feb-April 2010. In Dessie city administration abortion service was provided at Dessie referral hospital, Boru-Meda district hospital, Dessie health centre, three private general hospitals, two private higher clinics, Marie Stopes international and FGAE Dessie branch Reproductive health clinic.

Study Design

A facility based cross - sectional study using both quantitative and qualitative data collection method was conducted.

Sample Size and Sampling Techniques

The required sample size was determined using one-population proportion formula. A proportion 0.78 (78 % post abortion patients received modern contraception) was taken from end line assessment study done in Tigray region (Benson et al., 2009) and it was 291. A preliminary survey at all these health facilities was done to collect the average prior two month case load, since the time for data collection was planned to be two month. The number of study units to be sampled from each facility was determined using proportional allocation to size and systematic random sampling was employed to select and approach each study subjects. Those sampled post abortion women during the data collection time at the studied facilities were the study populations.

Data Collection Instrument and Methods

The data for the quantitative study was pre-tested collected using interviewer administered semi-structured questionnaire socio-demographic which contain characteristics, previous reproductive health history, future fertility desire and post abortion family planning service related questions. The questionnaire was adopted from standard instrument designed by USAID (Rivero-Fuentes et al., 2008) and it was modified depending on

the local situation and the research objectives. Client exit, service provider interview, key informant in-depth interview and observation were used to assess the same aspects of the services in order to improve validity of the conclusions or appraised different aspects of the services.

Statistical Analysis

SPSS version 16.0 statistical package soft ware was used to analyze the data. In addition to descriptive statistics, odds rations and 95% confidence interval were used to determine the strength of the associations. The logistic regression analysis model was used to assess the relative effect of variables.

Ethical Consideration

The proposal was approved by Ethical Review Committee of college of Public Health and medical science of Jimma University before the conduct of the study. Letter of permission was obtained from the Dessie city administration and Zonal department health office. All the study participants were informed about the purpose of the study and finally their written consent was obtained prior to interviewing them.

RESULTS AND DISCUSSION

A total of 282 post abortion women were included making a response rate of 97.0 %. One hundred seventy eight (63.1%) of them were in the youth age group (15-24 year). One hundred fifty-seven (55.7%) of study subjects were urban dwellers. One hundred sixty four (58.2%) attained secondary and above school. Majority 258 (91.5%) were Amhara by ethnicity. One hundred thirty five (48%) of respondents were married. By religion little more than half (56.7%) were Islam. By occupation 82 (29.1%) were student, 75 (26.6%) were house wife (Table 1).

Among the total studied women, 132 (46.8%) had history of previous pregnancy, out of which, 35 (26.5%) reported one or more previous history of abortion. Majority (92.2%) said that the index pregnancy which resulted in abortion was unwanted. Ninety two (32.6%) of the study subjects used modern contraceptive during the event of the index pregnancy. The gestational age of the index pregnancy ranged from 2 to 27 weeks and 240 (85%) of them were aborted at 12 weeks of gestational age and below.

Table 1. Socio-demographic characteristics of post abortion women at the study health facilities in Dessie, North-East Ethiopia, Feb - April, 2010.

Characteristics	N (%)
Age(year)	
15-24	178(63.1)
25-34	91 (32.3)
35-45	13 (4.6)
Educational level	
Can't read and write	44(15.6)
Only read and write	9 (3.2)
Primary school first cycle (1-4)	23 (8.4)
Primary school second cycle(5-8)	42 (14.9)
Secondary school and above	144 (58.2)
Residence	
Urban	157(55.7)
Semi-urban	67(23.8)
Rural	58(20.8)
Religion	
Muslim	160(56.7)
Orthodox Christian	114(40.4)
Protestant	8 (2.8)
Ethnicity	
Amhara	258(91.5)
Oromo	8(2.8)
Afar	7(2.5)
Tigrae	9(3.2)
Marital status	
Married	135(48)
Unmarried (Single and have fiance/friend)	118(41.8)
Past married (Divorced & widowed)	29(10.3)
Family size	400(00.5)
1-4	196(69.5)
≥5	86(30.5)
Total	282(100)

Two hundred twenty 220 (78%) of the studied women desired to be pregnant again, out of which, 213 (96.8%) decided to wait for more three month before becoming pregnant again. This finding is higher than as compared to the study finding done in 2002 in Addis Ababa (Yilma et al., 2003) and the finding of a study conducted in Amhara and Oromia region (Solomon, 2008) that about 82% and 43.7% of respondents reported not having a plan to become pregnant in three months period following the abortion respectively. This implies the importance of family planning service for women seeking or undergoing abortion care.

The result of this study indicated that 96(34%) of the studied women reported they were

informed about the time period that a woman could be ovulate and become pregnant again following abortion. Out of which 92.4% were told as they could ovulate after fifteen days following abortion. This is inconsistent with literatures that stated ovulation might return as early as day 11 and usually before the first bleeding following menstrual abortion (Huntington, 2000). This result is supported by the observation finding that in 13.6% observed cases the providers explained an immediate risk of repeat pregnancy if she did not use a contraceptive method. In majority of the cases the important opportunity to aware the immediate return of ovulation was missed

Table 2. Multivariate logistic analysis of factors influencing provision of post abortion modern contraception at study facilities in Dessie, North-East Ethiopia, Feb-April, 2010.

	ortion Modern Contraceptive Method Provided			
Variable	Yes	No No	COR(95% C.I)	AOR(95% C.I)
-	163	140	0011(3370 0.1)	AOI((3376 O.1)
Ownership of the Health Facility				
Public	9	42	0.08(0.03,0.17)*	0.27(0.06,1.26)
Private	10	64	0.06(0.03,0.12)*	0.01(0.001,0.08)*
NGO	115	42	1	1
Level of Health Facility				
Referral Hospital	2	37	0.03(0.01,0.14)*	0.07(0.007, 0.73) *
General Hospital	13	41	0.19(0.09,0.37)*	7.34(1.17,45.99) *
	119	70	1	1
Health Center & Clinic				
Duration at the Health Facility				
≤2hr	47	21	3.3 (1.83, 5.85)*	1.63(0.78, 3.35)
>2hr	87	127	1 1	1 ′ ′
Age(year)				
15-24	93	85	1.7(1.03,2.75)*	0.73(0.30,1.78)
≥25	41	63	1	1
Residence	93	64	2.4(1.3,4.4)*	1.4 (0.58 , 3,57)
Urban	19	48	0.65(0.3,1.4)	1.0(0.36,2.96)
Semi-urban	22	36	1	1
Rural		00		·
Marital Status	62	73	0.74(0.45,1.22)	1.14(0.46,2.84)
Married	9	20	0.39(0.16,0.93)*	0.44(0.12,1.62)
Past married	63	55	1	1
Unmarried	00	00	ı	'
Occupation	31	44	1	1
Housewife	49	33	2.1(1.11,3.98)*	1.3(0.34,3.58)
Student	16	25	0.9(0.42, 1.98)	0.61(0.19,1.90)
Government employee	38	46	0.17(0.62, 2.20)	1.04(0.39, 2.82)
Others				
Previous history of pregnancy	50	82	1	1
Yes	84	66	2.1(1.30, 3.36)*	1.3(0.51, 3.24)
No				
Want the index pregnancy	3	19	1	1
Yes(wanted)	131	129	6.4(1.86, 22.26)*	2.2(0.213 - 23.23)
No (unwanted)			- (, ,	(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gestational age of index pregnancy	129	111	8.6 (3.2, 22.64)*	0.35 (0.07 – 1.70)
≤ 12 week	5	37	1	1
>12 week	Ü	O,	•	·
Used modern FP during the index Preg.	56		2.23(1.34,3.72)*	2.3(1.12- 4.67) *
Yes	78	36	1	1
No	70	112	ı	ľ
Types of abortion	6	32	1	1
Spontaneous	128	3∠ 116	5.9(2.4, 14.58)*	0.91 (0.15 – 5.60)
Induced	120	110	5.9(2.4, 14.56)	0.91 (0.13 – 3.00)
Abortion procedure	82	33	24.8(9.79 , 63.07)*	1.7(0.35,8.56)
Medical abortion	62 46	55	8.36(3.31, 21.11)*	2.23(0.52, 9.52)
Manual vacuum aspiration	6	60	0.30(3.31, 21.11)	2.23(0.52, 9.52)
Other method (D&C and E&C)	U	50	1	ı

^{*}statistically significant (p<0.05) 1= reference group

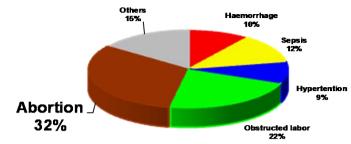


Figure 1. Share of abortion for maternal death in Ethiopia, 2003.

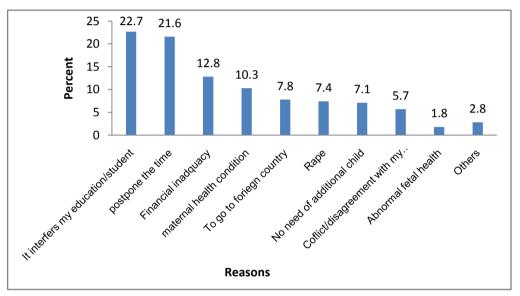


Figure 2. Reported reasons for terminating the index pregnancy at the study facilities in Dessie, North-East Ethiopia, Feb- April, 2010.

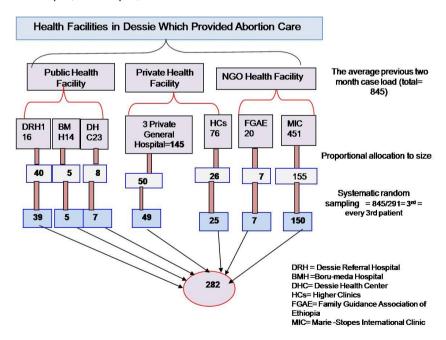


Figure 3. Schematic presentation of sampling procedure for the selection of study units in Dessie town, South Wollo Zone, Amhara Region during 2010.

One hundred fifty eight (56%) of the respondents reported that they have contraceptive counselling/ information from the service provider and 134 (47.5%) left the health facility with contraceptive methods. Out of which 90(67.3%) has taken injectables Provera®, 24(18%) oral contraceptive pills, 15(11%) implant and 5 (3.7%) condom. No one had been referred to other health facility for family planning service. It shows improvement as compared to the survey result obtained from a study done at health facilities in Addis Ababa, Amhara and Oromia which revealed that 80 % of interviewed women didn't get post abortion family planning methods (Hailu et al., 2003). But these findings of this survey are less as compared to the end line assessment finding of Tigray region (Benson et al., 2009) that 78% of abortion women received contraception before they left the health facility, this difference might be due to the implemented pilot project after the baseline assessment in Tigray region like service provider training, setting up post abortion room and availing of wide range of contraceptive methods. The finding of this research concerning integrating family planning services within post abortion care was not encouraging as compared to evidences from foreign studies conducted in Bolivia, Burkina Faso, Kenya, Mexico, Peru (Huntington, 2000) and the Tanzania research in 2007 (Kragelund-Nielsen et al., 2009). One explanation for this difference is that findings from these countries were post interventions that were taken to improve post abortion care services.

From this one can detect that majority of the respondents have intention to delay next pregnancy, this indicates critical demand for post abortion family planning services, however, the opportunity to provide this services was not fully utilized; this implies call for increased effort should be spent on making family planning services available and acceptable for post abortion women.

Most of the studied facilities used onsite provision of family planning services at post abortion/delivery room /gynaecology ward or at the same room where the abortion procedure is performed. This finding keeps in touch with the Egypt model based analysis research finding that onsite provision both FP counselling and offering FP methods at the post abortion recovery room/ Gynaecology ward was proved to be effective than provision of FP counselling and referral of those patients to any family

planning clinic near their residence (Yossef et al., 2007). This study result showed that even though the place various, family planning services were provided by the staff from the abortion care unit, this was proved to be effective in Kenya (Solo, 1999) and Egypt (Abdel-Tawab, 2009) as compared to provision of FP services at post abortion room /Gynaecology ward by MCH-FP staff from the clinic and at the facility FP clinic through referral. Majority of service providers chose onsite provision model of integrating family planning services within post abortion care by the abortion unit staff. They pointed out the reasons behind choosing this model such as maintaining the privacy and confidentiality issues of the patients, saves the time of the patients, increase satisfaction of both service providers and to ensure prompt use of contraception.

After controlling for possible confounding in multivariate logistic analysis ownership of the health facility, level of the health facility and previous use of modern contraceptive during the index pregnancy were persisted to be significantly associated with provision of post abortion FP methods (p<0.05) (Table 2). Majority of the service provides mentioned lack of training in comprehensive safe/post abortion care, being over loaded by other routine activities, absence of separate post abortion room and lack of commodities and supplies as major difficulties that hinder provision of post abortion family planning services effectively and properly.

CONCLUSION

Significant proportion of post abortion women left the health facility without getting family planning counselling and contraceptive method. Most of the studied facilities used onsite provision of FP services at post abortion/delivery room or at the same room where the abortion procedure is performed.

Lack of training in comprehensive safe/post abortion care, absence of separate post abortion care room, lack of commodities and supplies and being over loaded by other routine activities were the major identified barriers of integrating post abortion FP services within post abortion care. Thus to maximize utilization of this important opportunity for offering family planning services.

- Health facilities have to organize separate space/room for provision of post abortion family planning services.
- Due attention should be given in availing, scaling up and sustaining wider range of post abortion family planning commodities in the post abortion unit/gynecology ward.
- Service providers should provide brief information about fertility return following abortion and detail counselling family planning for post abortion women by giving adequate time.
- Service providers have to get training on comprehensive post abortion care and on integration of family planning services with other maternal and child health services.

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