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FACTORS ASSOCIATED WITH INDUCED ABORTION AMONG WOMEN IN HOHOE, GHANA

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Abstract

In Hohoe, induced abortion is the second highest cause of hospital admissions. We aimed to describe factors influencing induced abortion among 408 randomly selected women aged 15–49 years. 21% of women had had an abortion; of those, 36% said they did not want to disrupt their education or employment; 66% of the abortions were performed by doctors. Bivariate logistic regression showed that compared with women with secondary education, women with basic education (OR=0.31, CI:0.18–0.54) and uneducated women (OR=0.24, CI:0.07–0.70) were significantly less likely to have had an abortion. Women who were married (OR=1.83, CI:1.10–3.04), peri-urban residents, compared with rural (OR=1.88, CI:0.95–3.94), and women with formal employment (OR=2.22, CI:0.86–5.45), were more likely to have had an abortion. Stakeholders should improve access to effective contraception to lower the chance of needing an abortion and targeting education programmes at those with unmet need for contraception.

Keywords

Induced abortion; age; marital status; education; residence; employment; Hohoe

INTRODUCTION

Induced abortion remains a huge public health problem worldwide and, particularly in developing countries. Even though the number of induced abortions declined worldwide between 1995 and 2003, about one-in-five pregnancies still end in an abortion. The world unsafe abortion rate has remained essentially unchanged within the period; 15 and 14 abortions per 1,000 women aged 15–44 years respectively^{1,2}.

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Despite the fact that more abortions occur in developing countries than in developed countries (35million versus seven million), a woman's likelihood of an abortion is similar in both places; 26 abortions per 1,000 women aged 15–44 years in developed countries compared with 29/1,000 in developing countries¹. In 2008, of the estimated 185 million pregnancies that occurred in developing countries, 40% were unintended and 19% ended up in induced abortion³. According to a 2009 report, an estimated 251million women in developing countries have an unmet need for modern contraceptives and over four-in-five of unintended pregnancies occur among such women⁴.

In East Africa, the estimated abortion rate in 2003 was 39 per 1,000 women aged 15–44 years, in Central and West Africa, the rate was 26–28 per 1,000 women aged 15–44; all of the procedures in these sub-regions were judged to be unsafe^{2,5}. The World Health Organization (WHO), defines unsafe abortion as a procedure for terminating an unintended pregnancy carried out either by persons lacking the necessary skills or in an environment that does not conform to minimal medical standards, or both⁶. Almost all abortion-related deaths occur in the least developed countries (LDCs); they are highest in Africa where 650 deaths per 100,000 unsafe abortions were recorded in 2003^{2,7} accounting for an estimated 14% of maternal deaths².

In Ghana, unsafe abortion remains a major public health problem despite the liberalization of the law on abortion over two decades ago; many women still obtain unsafe abortions due to lack of knowledge at the population and provider levels 8,9,10 . Induced abortion is the second largest direct cause of maternal mortality in Ghana; second only to haemorrhage¹¹. Data on induced abortion are not available in the Ghana Demographic and Health Surveys and the most common data available are usually hospital-based or the results of small surveys. Over the period 1972–1994, of the 22 published studies conducted in Ghana on induced abortions, only one did not use hospital-based data¹². Different authors have provided various estimates of induced abortion in Ghana, mainly based on small samples and hospital data; Bleek & Asante-Darko (15% in 1973), Lamptey et al., (25% in 1981-82), Nabila & Fayorsey (13% in 1991), Taylor & Abbey (22% in 1992), Ahiadeke (17 per 1,000 women aged 15-49 years in 1998), Geelhoed et al., (22.6% among women aged 15-49 years in 1999), Turpin et al., (38.8% in 1994) and Adanu et al., (31% in 2005)^{10,13-19}. The Ghana Maternal Health Survey 2007, provides data on abortion from a nationwide sample of 10,370 women aged 15-49 years; 15% of these women reported having had at least one abortion in their lifetime¹¹.

Ghana's total fertility rate has declined steadily since 1990; 5.2 in 1993, 4.4 in 1998, 4.4 in 2003 and 4.0 in 2008^{20–23}. However, the modern contraceptive prevalence rate (MCPR) has also declined between the two most recent rounds of the Demographic and Health Surveys. Proximate determinants such contraceptive use, marriage and sexual activity, post-partum insusceptibility and abortion are expected to contribute to observed fertility declines²⁴ but this has not been entirely the case for Ghana²⁵. It is possible that there has been a decline in marital coital frequency that is not captured by the main proximate determinants. How much induced abortion really contributes to the TFR-MCPR mismatch in Ghana is an investigative challenge.

METHODS

Study area

Hohoe is one of the 18 districts/municipalities in the Volta region of Ghana. In 2008, it had a projected population of 171,346 (annual growth rate of 1.9%) and spread across 152 communities. The Hohoe municipal hospital reported managing a total of 326 abortions in 2007, with 64% of them being self-induced. Post-abortion complications were the second leading cause of all admissions to the hospital. The contraceptive prevalence rate for the municipality is 24% for all methods but 15% for modern methods. The municipality has two hospitals, three community-based health planning and services (CHPS) compounds (Ghana's contemporary version of primary health care provision), four private clinics and 26 public health centres²⁶. The Volta Region accounted for 18% of the national burden of abortions based on hospital data in 2006, the third highest among 10 regions²⁷.

Study design

A community-based cross-sectional survey was undertaken over the period July to October 2008. We used multi-stage sampling technique to select seven sub-districts and a total of 408 study participants/households from urban, peri-urban and rural communities using the probability proportionate to population size technique. In any given randomly selected household, if there were more than one eligible study participant; woman aged 15–49 irrespective of marital status, simple random sampling was used to select one. Data were double-entered into Epi Info ver 6 (CDC, Atlanta, USA).

Ethical clearance for the study was obtained from the Kwame Nkrumah University of Science and Technology-Komfo Anokye Teaching Hospital Committee on Human Research, Publications and Ethics (KNUST-KATH CHRPE), while administrative clearance was obtained from the Hohoe Municipal Health Directorate. Additional permission to undertake the study was sought from the community leaders, gatekeepers, and in cases where the selected respondent was married, permission was sought from her husband. Eligible study participants were enrolled into the study only after they had verbally consented.

Analysis

We describe the reasons given for opting for an induced abortion, as well as where the abortion was obtained and the method of termination. In addition we provide data on women who reported friends who had had an abortion. We began the statistical analysis with summary statistics and conducted bivariate analysis to compare women who had had an abortion with women who did not, using chi square test for trends. To determine significant differences between the levels of the variables, bivariate logistic regression models were used. Table 1 outlines the variables used in the statistical analysis.

RESULTS

Factors influencing induced abortion

Characteristics of the study population are shown in Table 2. Married women constituted 58.8% of the study sample while unmarried women made up 41.2%. The respondents' mean age was 29.9 years and most had been educated up to junior high school. Almost two-thirds (64.5%) were peri-urban dwellers, 70.3% were self-employed and nearly all 93.9% were Christians. One-fifth (21.3%) of the sample had ever had an induced abortion.

Women who had had an induced abortion differed significantly from those who had not had an abortion in terms of age, marital status, level of education and place of residence. Employment status did not differ significantly between women who had had an abortion and those who had not (p=0.15) (Table 2).

Among those who had had an abortion, the most commonly given reasons were "not to disrupt education or employment" (35.6%) and "too young to bear a child" (28.7%). The commonest providers of abortion for this sample were the medical doctor (65.5%) and partners and/or friends (31%). The abortions were undertaken mainly at the hospital (60.9%) or at home (29.9%). Sharps or hospital instruments were the most common "instruments of abortion" (50.6%), while others used herbs or concoctions (31.0%).

A little over half (52.9%) of the total study sample, reported knowledge of a friend who had undergone an induced abortion. These friends reportedly had given similar reasons for the abortion: "not to disrupt education or employment" (31.5%), "could not cater for a baby" (19.4%) and "partner rejected the pregnancy" (19%) (Table 3).

Bivariate logistic regression was run for factors associated with having an induced abortion (Table 4). Women aged 45–49 years were five times more likely to have had an abortion than those aged 15–24 (OR=5.04, CI: 1.38–17.16). Compared with married women, those who were unmarried were almost twice as likely to have had an abortion (OR=1.8, CI: 1.10–3.04). However, women without any formal education and those with basic education (up to junior high school), had a 76% (OR=0.24, CI: 0.07–0.70) and a 69% (OR=0.31, CI: 0.18–0.54) reduction in the odds of having had an abortion respectively, when compared with women with at least a high school education. Peri-urban residents were 1.9 times more likely than rural residents to have had an abortion (OR=1.88, CI: 0.95–3.94). Compared with the self-employed, women in formal employment twice as likely to have had an abortion (OR=2.22, CI: 0.86–5.45) (Table 4).

DISCUSSION

Accurate data on induced abortion are difficult to come by particularly in settings where it is illegal or where it is highly stigmatized. Where abortion is highly restricted by law, no official data would be available and efforts to collect such data through surveys are unlikely to yield accurate and reliable data²⁸. Even though abortion is legal in Ghana, data on induced abortion are unreliable; poor record-keeping and the reluctance of health workers to accurately classify abortion types together with other factors, render hospital data inadequate

for estimation of induced abortion¹⁰. The fact that abortion is highly stigmatized in the Ghanaian society means that many people will not be willing to accurately report its prevalence and a lot of under-reporting can be expected particularly when questions require individuals to report on multiple abortions.

Among the women in our sample, nearly a fifth reported an induced abortion (21.3%), a rate similar to that reported by other studies in Ghana^{14,16,17}. Ahiadeke found a much lower prevalence (1.7%) in a study of 18,301 women aged 15–49 years in four regions of Ghana¹⁰ while Adanu et al., found a much higher rate (31%) in a hospital-based study population¹⁹. The Ghana Maternal Health Survey 2007 reported 15% of women having had at least one induced abortion in their lifetime¹¹. The estimated abortion rate for West Africa is one of the highest worldwide^{2,5}.

Age, education level and marital status of women have been found to be related to the decision to abort pregnancies, particularly unplanned and/or unwanted ones¹⁹. Our results, based on bivariate analysis show that older women, who were not married, had a higher than secondary education, lived in peri-urban areas and were in formal employment were more likely to have had an induced abortion. It is possible that for these women who were likely to be in formal employment (single with a higher level of education), the need to keep their formal employment status to earn a living, was important in the decision to have an abortion.

Various studies report differently on the relationship between age and induced abortion; some studies found that women over 30 years were significantly less likely to have an abortion when compared with younger women^{17,29,30}. Other studies in Ghana, Kenya, Nigeria and Ethiopia found the inverse was true^{10,11,19,31,32,33}. We found that the older the age group of a woman, the more likely she was to have an abortion. In fact, women aged 45–49, were over five times as likely to have an abortion than women aged 15–24. In many settings, it is believed that distribution by age of abortion is bimodal—women in the youngest age groups who want to delay childbearing and women at the end of the childbearing, who believe they are unable to get pregnant, are most likely to get induced abortions. One explanation may be the perceived need or lack thereof, for contraception at the end of childbearing ages or lack of awareness or unmet need for contraception at the youngest age groups.

In view of the generally pro-natalist views expressed in many communities in Ghana and the stigma associated with pregnancy outside marriage, married women would be expected to have fewer abortions than single or out of union women. In Ethiopia married women who were peri urban or urban residents and without formal education were more likely to have an abortion³³ while in Kenya, married women, who were rural residents and were housewives were more likely to have sought an abortion.³¹ In Hohoe, single women were significantly more likely to have had an abortion when compared with married women.^{10,19,29}

In Hohoe, the lower a woman's level of education, the less likely she was to have had an abortion.¹⁷ National level data confirm a strong link between education and experience of abortion—women with no education are the least likely to have abortions in Ghana¹¹. These

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findings differ from those in other studies^{10,19,33}. The women in Hohoe with low level of education may not know where to go to have an abortion.

Differences in the economic status of women reflected by the type of employment they are engaged in influences abortion decisions¹⁸. Women in formal employment (employed by others) who are earning a regular income may be influenced by this status in the decision to keep or terminate an unintended pregnancy. One-third of the women in Hohoe who had had an abortion, did so in order not to disrupt their education or employment.^{10,31,34} Other studies reported differently¹⁹

Women seek abortion in all sorts of places: hospitals, at home, and in traditional settings. Most women seeking an abortion in Hohoe went to doctors who used hospital instruments to perform the abortions in hospitals,¹¹ similar findings are reported in Nigeria and Uganda. However urban women in Uganda, Burkina Faso and La Cote d'Ivoire, are much more likely than rural women to use the services of doctors³. In Hohoe, urban women are more likely than rural women to be using a contraceptive and hence have a lower need for an abortion.

In Africa, many women who do not want a child in the next two years or who want no more children are not using any method of contraception. In Hohoe, 58.2% of such women were not using a contraceptive (data not shown).

A limitation of this study is that we did not try to explore whether the women had had more than one abortion and their reasons. In addition, it would also have been interesting to determine the proportion of women who had had an abortion, were sexually active but were still not using contraceptives. Last, our results are based on bivariate regression analysis and do not include controls for other factors.

CONCLUSION

Policies and programmes need to provide affordable avenues for safe and comprehensive abortion services, particularly for single, peri-urban residents older than 25 who have formal employment. Improving access to effective contraception is the surest way to prevent mistimed and unwanted pregnancies, thus greatly reducing the need for induced abortion. Women who do seek abortion should be encouraged to find safe means of termination in order to decrease postpartum hospital admission and the risk of maternal mortality.

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Table 1

Study variables

Variable	Description/operational definition	Range & value
Induced abortion	Termination of pregnancy by any means or person other than spontaneously (excludes miscarriage)	Induced=0 Not induced=1
Age	Completed years of life	15–49
Marital status	Legal union of a couple (are you married?)	Yes=0 No=1
Level of education	Level of formal education attained	No formal education= 0 Basic up to junior high school=1 Secondary school or higher=2
Residence	Place of usual abode as classified by the Hohoe Municipal Assembly according to population and social amenities available	Urban=0 Peri-urban=1 Rural=2
Employment status	Daily occupation	Formal sectors employment=0 Self-employed=1 Unemployed=2 Housewife=3
Reasons for having abortion	Reasons as provided by respondents (one reason per respondent who had had an abortion)	
Providers of abortion	As named by respondents (one per respondent who had had an abortion)	
Abortion venues	As reported by respondents (one per respondent who had had an abortion)	
Abortion instruments	As reported by respondents (one per respondent who had had an abortion)	
Reasons for abortion as given to respondents by friends	As reported by respondents (one reason allowed per respondent whose friend had had an abortion)	

Table 2

Socio-demographic factors and other characteristics of the study sample

Variable	Induced abortion n(%) n=87	No induced abortion n(%) n=321	Total	Chi-square test for trend
Age category: (years)				p=0.007
15–24	15(17.2)	108(33.7)	123	
25–34	43(49.4)	131(40.8)	174	
35–44	22(25.3)	72(22.4)	94	
45–49	7(8.1)	10(3.1)	17	
Total	87(100.0)	321(100.0)	408	
Marital status:				p=0.01
Married	41(47.1)	199(62.0)	240	
Single	46(52.9)	122(38.0)	168	
Total	87(100.0)	321(100.0)	408	
Education:				p=0.002
No formal education	5(5.7)	41(12.8)	46	
Basic (up to JHS*)	50(57.5)	217(67.6)	267	
Secondary or higher	32(36.8)	63(19.6)	95	
Total	87(100.0)	321(100.0)	408	
Residence:				p=0.04
Urban	8(9.2)	51(15.9)	59	
Peri-urban	66(75.9)	197(61.4)	263	
Rural	13(14.9)	73(22.7)	86	
Total	87(100.0)	321(100.0)	408	
Employment:				p=0.15
Formal	10(11.5)	17(5.3)	27	
Self-employed	60(69.0)	227(70.7)	287	
Unemployed	13(14.9)	50(15.6)	63	
Housewife	4(4.6)	27(8.4)	31	
Total	87(100.0)	321(100.0)	408	

*JHS = junior high school

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Table 3

Contextual factors related to abortion seeking among women who reported an induced

Factor	Frequency (n=87)	%
Reasons for having an abortion:		
Not to disrupt education or employment	31	35.6
Too young to bear a child	25	28.7
Could not afford to cater for a baby	13	14.9
Partner refused to accept pregnancy	8	9.2
Others(to delay, postpone or stop child-bearing)	10	11.5
Total	87	*100.0
Providers of abortion:		
Medical doctor	57	65.5
Partner and or friends	27	31.0
Others (nurses, TBAs)	3	3.5
Total	87	100.0
Abortion venues:		
Hospital	53	60.9
Home	26	29.9
Maternity home	5	5.7
Others (herbalist)	3	3.5
Total	87	100.0
Abortion "instruments:"		
Sharps or hospital instruments	44	50.6
Herbs or concoctions	27	31.0
^b Orthodox medicines	9	10.3
Manual vacuum aspiration	7	8.1
Total	87	100.0
Reasons for having an abortion as reported to respondents by friends $a(n=216)$		
Not to disrupt education or employment	68	31.5
Could not afford to cater for a baby	42	19.4
Partner rejected pregnancy	41	19.0
Was too young to have a child	22	10.2
To increase interval between child births	15	6.9
Low income	14	6.5
To postpone child-bearing	10	4.6
Do want any more children	4	1.9
Total	216	100.0

 * Total less than 100.0% due to rounding off

 $^a\mathrm{n=}216$ is total number of respondents within study sample who had a friend who had had an abortion

^bMisoprostol

Table 4

Bivariate logistic regression of having an induced abortion among women in Hohoe (n=408)

Variable	OR	95% CI
Age category: (years)		
15-24 (reference)	1.00	
25–34	2.37	1.20-4.82
35–44	2.20	1.01-4.87
45–49	5.04	01.38-17.16
Marital status:		
Married (reference)	1.00	
Single	1.83	1.10-3.04
Education:		
No formal education	0.24	0.07-0.70
Basic (up to JHS [*])	0.31	0.18-0.54
Secondary or higher (reference)	1.00	
Residence:		
Urban	0.88	0.29-2.49
Peri-urban	1.88	0.95-3.94
Rural (reference)	1.00	
Employment:		
Formal	2.22	0.86-5.45
Self-employed (reference)	1.00	
Unemployed	0.98	0.46-1.99
Housewife	0.56	0.14-1.70

*JHS = junior secondary school