Self-induction of abortion among women accessing second-trimester abortion services in the public sector, Western Cape Province, South Africa: An exploratory study

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Background. Despite South Africa’s liberal abortion law permitting abortion on request in the first trimester and under restricted conditions for second-trimester pregnancies, the practice of unsafe self-induced abortion persists. However, the prevalence of this practice, the methods used and the reasons behind it are relatively under-researched. As part of a larger study seeking to improve abortion services in the Western Cape Province, we explored reports of prior attempts to self-induce abortion among women undergoing legal second-trimester abortion.

Objectives. To describe the prevalence and methods of and factors related to unsuccessful attempts at self-induction of abortion by women presenting without complications and seeking second-trimester abortion at public health facilities in the Western Cape.

Methods. In a cross-sectional study from April to August 2010, 194 consenting women undergoing second-trimester abortion were interviewed by trained fieldworkers using structured questionnaires at four public sector facilities near Cape Town.

Results. Thirty-four women (17.5%; 95% confidence interval 12.7 - 23.4) reported an unsuccessful attempt to self-induce abortion during the current pregnancy before going to a facility for second-trimester abortion. No factors were significantly associated with self-induction, but a relatively high proportion of this small sample were unemployed and spoke an indigenous African language at home. A readily available herbal product called Stametta was most commonly used; other methods included taking tablets bought from unlicensed providers and using other herbal remedies. No use of physical methods was reported.

Conclusions. The prevalence of unsafe self-induction of abortion is relatively high in the Western Cape. Efforts to inform women in the community about the availability of free services in the public sector and to educate them about the dangers of self-induction and unsafe providers should be strengthened to help address this public health issue.
and urban areas, unsubstantiated rumours around potential harms related to abortion, and intimidation by and negative attitudes from pre-abortion counsellors.[9,10]

Grossman et al.[5] found that delays in accessing services were common among women seeking second-trimester abortion services in the Western Cape, SA. We hypothesised that these delays may have been associated with prior attempts to self-induce, and undertook this exploratory study to assess this question. We describe the prevalence and practices of unsuccessful attempts at self-induction and related factors among women presenting without complications and seeking second-trimester abortion at public health facilities in the Western Cape.

**Methods**

This study forms part of a larger, repeated cross-sectional study of women undergoing second-trimester abortion. The baseline survey was completed in 2008,[9] and the data reported here are derived from a second round of data collection in 2010. Study sites included four public hospitals in the Western Cape that provided second-trimester abortion services, which were selected according to the volume of women seeking abortion services. Some facilities provided surgical abortion (dilation and evacuation), while others provided medical induction using misoprostol. Women were referred to these facilities based on proximity to their home. Three of the four sites served urban communities in the Cape Town metropolitan area, while the fourth served a small town roughly 120 km away in a primarily agricultural area.

Ethical approval was obtained from the University of Cape Town Human Research Ethics Committee, the Stellenbosch University Committee for Human Research, and the Allendale Investigational Review Board. All participants provided written informed consent, and confidentiality and anonymity were ensured.

The study was conducted between April and August 2010. All women attending the hospitals for second-trimester abortion on days when study interviewers were present were invited to participate. Eligibility criteria included age 18 years or older, gestational age between 12.1 weeks and 20.9 weeks, and ability to communicate in English or Xhosa. Bilingual interviewers administered questionnaires in a private location at the hospitals after the women had recovered from the abortion. Data were obtained on demographic and socioeconomic indicators, reproductive history and care-seeking behaviour. In addition, participants were asked whether they had tried any other methods to end the pregnancy before the abortion procedure, and if so, what method they had attempted. Qualitative, open-ended responses were recorded and later coded into categories.

Data were analysed using Stata (version 12, College Station, TX, USA). A priori factors identified for potential association with self-induction included age, education, socioeconomic status, home language, parity, previous abortions, gestational age according to ultrasound scan, and care-seeking experiences. Proportions were compared using χ² tests or Fisher's exact tests when appropriate. When means were compared, Students t-tests were used. Two-sided significance tests were used throughout, and valid percentages are reported for all results. The number of subjects recruited was sufficient to detect a prevalence of self-induction of 20% (±10%), with 90% power and a two-sided alpha of 0.05.

**Results**

At the four facilities involved in the study, a total of 698 women had second-trimester abortions performed during the sampling period. For logistical reasons, we were only able to obtain consent from and interview 28.1% of them (N=196). Two interviews were excluded because the forms were largely incomplete, so the final sample consisted of questionnaires from 194 women.

A total of 34/194 (17.5%; 95% confidence interval 12.7 - 23.4) women interviewed reported that they had attempted to end their current pregnancy before coming to the facility. Table 1 compares characteristics of the women who had and had not attempted prior self-induction. Means, medians and standard deviations, or percentages by self-induction (yes/no), are shown for factors that were hypothesised a priori potentially to be associated with self-induction. These factors included age, educational level achieved, home language, type of housing and employment status (as a proxy for socioeconomic status), parity, prior abortion, gestational age at first ultrasound examination (usually at a different facility), and gestational age as calculated on the day of admission for the abortion procedure. In this small exploratory sample, the results suggest that self-induction was most common among unemployed women and those speaking an indigenous African language at home; however, no significant associations with any of these factors emerged. There also appeared to be a trend towards presenting at a later gestational age at the time of first ultrasound among women who had attempted self-induction compared with those who had not, but this association was also not significant.

Table 2 summarises the methods women used for self-induction. In 2 of the 34 cases the method used for self-induction was not recorded. The most common practice (17/32, 53.1%) was ingestion of an herbal product called Stametta. According to the manufacturer's details listed on the package, Stametta can be used for a wide range of ailments such as painful menstruation and fatigue, and to improve general well-being.

The product label cautions that it should not be used by pregnant women and children under the age of 14 years. The composition includes a blend of aloe, ascorbic acid, aniseed oil, magnesium sulphate and preservative. Stametta is readily available in drug stores and shops. Other methods women used included responding to an advertisement by an illegal backstreet provider and taking tablets (unnamed) (5/32, 15.6%), using other herbal remedies (6/32, 18.7%), using other medications such as emergency contraceptives or antibiotics (2/32, 6.2%), or 'smoking a lot', probably cigarettes (1/32, 3.1%).

Two women elaborated on their experience and their reasons for attempting self-induction. One woman who consulted an illegal backstreet provider said that she was given three tablets to take at home and that the provider called twice, but then disappeared. The other respondent explained that she had been turned away from a healthcare facility because she was there too late in the day to be seen. She then called a number from an advertisement and paid R1 600 (approximately US$220) for tablets which she took, but did not abort.

**Discussion**

Despite liberal abortion laws and previous reductions in maternal mortality attributable to unsafe abortion, SA continues to face problems with unsafe abortion and a relatively high rate of self-induction. SA's Confidential Enquiry on Maternal Death (CEMDSA) or 'Saving Mothers' reports for 2002 - 2004[11] and 2005 - 2007[12] showed that unsafe abortion contributed to 3.5% and 3.4% of all maternal mortality, respectively. However, in the 2005 - 2007 report, this proportion rose to 4.9% after the figures for misclassified HIV/AIDS-related deaths were adjusted.[13] Unfortunately, in the latest report, for 2008 - 2010,[14] the CEMDSA committee reclassified abortion-related deaths as 'unsafe miscarriage', so the reports are not directly comparable; however, the prevalence was 3.8% for this period.

The prevalence of self-induced abortion (17.5%) reported in this study is high compared with developed countries where abortion is legal. In two recent US studies, self-induction was reported by 4.6% of ever-pregnant women[15] and by 2.6% of women attending abortion clinics.[16] Although not significant, the results from our exploratory study show that self-induction was more common among African language-
While the failed attempts at self-induction in this sample of women did not appear to have been harmful to their health, they may have pushed women later into pregnancy and contributed to their seeking a second-trimester abortion, which is associated with an increased risk of complications.[14]

Use of physical trauma for self-induction after the legalisation of abortion services in SA had dramatically reduced by 2005[6] and was absent in our sample. While misoprostol is potentially less hazardous than physical means, without knowledge of dose requirements and possible complications, using misoprostol supplied through backstreet sources remains a potentially hazardous path for women seeking assistance.

In SA, where abortion is legally permitted within broad criteria, access to safe abortion services remains suboptimal. A scarcity of nurse providers has become apparent in recent years, and those working in abortion facilities describe services as overcrowded and overburdened. The dearth of trained and willing abortion care providers has compromised access to safe abortion services.[8] In the Western Cape, less than 75% of the 40 designated facilities are functional, and at some services are offered only every second week or on a monthly basis. First-trimester services are provided at 29 facilities, and second-trimester services at just 8 of these facilities (unpublished data, 2010). Where access is problematic, women are likely to resort to unsafe and clandestine abortion services. The current plethora of advertisements by illegal providers in public urban spaces, coupled with limited availability of services and service providers, is an alarming trend that could contribute to maternal mortality resulting from unsafe procedures.

**Study limitations and recommendations**

The data presented in this report are limited to women seeking second-trimester abortion at public facilities. Our interpretations of prevalence and methods of self-induction are therefore not generalisable to women outside the formal healthcare system, those with incomplete abortions resulting from self-induction, or those presenting for abortion in the first trimester of an unwanted pregnancy.

As this study included only women in their second trimester, and the whole sample may therefore be considered somewhat delayed, associations between self-induction and delays in accessing services...
are less likely to be uncovered than in a broader-based sample in which women in both the first and second trimesters are included.

To address the issue of unsafe practices, further efforts should be channelled towards informing women in the community about the availability of free services in the public sector and educating them about the dangers of self-induction and unsafe providers. In this exploratory study we did not ask women why they chose self-induction before accessing legal services. Further details would have provided useful information to inform efforts to prevent unsafe practices. Service provision also needs to be strengthened by making services more acceptable and woman-friendly, including reducing the delays experienced by women seeking abortion care at public facilities.10

Conclusion

Seventeen per cent of women accessing second-trimester abortion services in the Western Cape public sector had resorted to self-induction before entering legal public sector services. This reflects a high percentage of unsafe practices before entering legal public sector services. This reflects a high percentage of unsafe practices despite SA’s liberal abortion law and the relatively widespread availability of abortion services in urban settings. No significant associations with self-induction were found in this exploratory study.

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References


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