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Demographic Profile and Clinical Outcomes of Patients Presented after Unsupervised Medical Termination of Pregnancy in a Tertiary Care Hospital in North India- A Cross-Sectional Study

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Authors' contributions

This work was carried out in collaboration among all authors. Author SS- designed the study, wrote the protocol, participated in data collection, and wrote the first draft of the manuscript. Author JB literature review, contributed to manuscript drafting and revising it critically for important intellectual content, performed the statistical analysis. Author SA played a significant role in drafting the manuscript and revising it critically for important intellectual content. All authors read and approved the final manuscript.

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ABSTRACT

Aims: To study the demography, clinical Profile and complications of unsupervised abortion among women in a tertiary care hospital in Bathinda.

Study Design: Cross-sectional analytical Study

Place and Duration of Study: Department of Obstetrics and Gynecology, Adesh Institute of Medical Sciences and Research, Bathinda, Punjab, between April 2023 to September 2023

Methodology: We included 100 patients of reproductive age (15-49 years) presented in Department of Obstetrics and Gynecology after unsupervised Medical Termination of Pregnancy. After the necessary intervention, the patients were interviewed using a predesigned proforma. Data were collected after obtaining written informed consent and study was approved by Institutional ethics committee. Data were analyzed by using SPSS 28.

Results: A total of 100 patients were included. The mean age of patients was 27.7 years, with most falling within the 20-30 age range. A significant portion had two or more children (52%), and the majority were housewives (61%) from rural areas (62%). Educational levels varied, with 32% completing 12th grade and 6% having a graduate degree or higher. 89% reported within three days. Vaginal bleeding was universal (100%), while pain abdomen was reported in 53% of cases. Reason of MTP included accidental pregnancy (59%) and spacing between children (38%). Complications included Retained products of conception (RPOC) in 37% followed by unaffected pregnancy in 10% of patients.

Conclusion: This study highlights the significant burden of unsupervised Medical Termination of Pregnancy (MTP) and its associated complications among women in Bathinda, Punjab. The findings underscore the pressing need for comprehensive reproductive healthcare services and effective implementation of abortion laws to mitigate the adverse outcomes of unsafe abortions.

Keywords: Abortion; medical termination of pregnancy (MTP); self-prescription; retained products of conception (RPOC); medication; pregnancy; reproductive-age.

1. INTRODUCTION

Abortion, the deliberate termination of pregnancy before the foetus reaches viability, remains a issue contentious globally [1]. Annually, approximately 73 million induced abortions are performed worldwide, highlighting public health significance of this topic [2]. Despite medical advancements. complications arising pregnancy-related issues contribute to over half a million maternal deaths annually. Of particular concern is the rising incidence of illegal abortions, which significantly impact maternal rates among reproductive-age mortality women [3].

Illegal abortions are associated with various complications. While most complications are considered minor, such as bleeding and retained products of conception (RPOC), others can be severe, including septic abortion, peritonitis, and uterine rupture [4].

Illegal abortions encompass a range of practices, including self-induced abortions using medication, procedures conducted in unhygienic conditions, and those performed by unqualified practitioners.[5] The Medical Termination of Pregnancy (MTP) Act of 1971 was introduced to

regulate and ensure safe abortion services. This legislation grants medical professionals, especially gynaecologists, the responsibility to provide safe abortion options without legal hindrances, thereby promoting and safeguarding women's reproductive health [6].

Recent amendments to the MTP Act have revised the guidelines for abortion procedures based on the gestational age of the foetus, ensuring appropriate medical oversight. Any abortion conducted against the provisions outlined in the MTP Act is considered a violation, emphasizing the necessity for qualified medical professionals to perform abortions with the requisite expertise and skills [7].

With this background the present study was conducted to study the demography, clinical profile and complications of unsupervised abortion among women in a tertiary care hospital, Bathinda.

2. MATERIALS AND METHODS

Present cross-sectional study was conducted on women presenting after unsupervised MTP in the Obstetrics and Gynaecology department at Adesh Hospital, Bathinda, Punjab. The study spanned a duration of six months, from April 2023 to September 2023. The sample size was determined using Daniel's formula, with a prevalence (P) of illegal abortion estimated at 0.16 [8]. At confidence level 95% and power 80%, and a precision (D) of 7.5%, considering non response rate as 10% sample size came out to be 106.

Inclusion criteria included patients reproductive age (15-49 years) who had undergone unsupervised MTP and sought medical care at the hospital and voluntarily provided consent to participate in the study. Exclusion criteria comprised patients who had supervised MTP or those with incomplete medical records. Convenience sampling was utilized to recruit participants. Patients meeting the inclusion criteria and presenting at the during the study period consecutively enrolled until the desired sample size was achieved. Data were collected using a structured interview schedule and medical records review. After taking written informed consent (available in Hindi, English, and Punjabi) and necessary intervention management, the participants were interviewed to gather information on demographic variables and clinical outcomes . Medical records were reviewed to collect additional clinical data.

Ethical approval was obtained from the Institutional Ethics Committee (IEC) of Adesh

Institute of Medical Sciences and research prior to data collection. Privacy and confidentiality of participants' information was maintained throughout the study. The recorded data were manually entered in Microsoft Excel and the descriptive data were presented in terms means and percentages. Statistical analysis was performed using SPSS version 28 and a significance level of p < 0.05 was considered.

3. RESULTS AND DISCUSSION

3.1 Results

A total of 100 patients were included. The demographic profile of women presenting after unsupervised MTP are presented in Table 1. The mean age of patients was 27.7± 4.5 years. Mean period of gestation at the time of unsupervised MTP was 7.4 weeks. The majority of patients fell within the age groups of 20-25 and 26-30 years, with 37% and 34% of the sample, respectively. Notably, there were fewer patients in older age groups. A substantial portion of patients (52%) had two or more children, followed by 36% having one child, and 12% having no children. The education levels varied among patients, with a notable proportion being 12th pass (32%) and having a graduate degree or above (6%). A majority of patients were housewives (61%) and 62% were from rural area.

Table 1. Demographic profile of patients presenting after unsupervised MTP (N=100)

Characteristic	Frequency n(%)	p- value
Age (in years)		
20-25	37	<0.01
26-30	34	
31-35	25	
36-40	4	
Number of children-		
0	12	<0.01
1	36	
2 or more	52	
Education of patient-		
Uneducated	10	
5 th pass	18	<0.01
10 th pass	34	
12 th pass	32	
Graduate and above	6	
Occupation of patient-		
Housewife	61	0.02
Working	39	
Region –		
Rural	62	<0.01
Urban	38	

*Chi- square test used to find p-value

Table 2. Clinical profile of patients presenting after unsupervised MTP (N=100)

Characteristic	Frequency n(%)	p- value
Reporting time (after unsupervised abortion, in days) -		-
Within 3 days	89	<0.01
3-7	8	
>7days	3	
Clinical features-		
Vaginal Bleeding	100	-
Pain abdomen	53	0.54
Features of shock	1	<0.01
Reason for unsupervised MTP -		
Accidental pregnancy	59	
Spacing between children	38	<0.01
Failure of contraception	3	
Complications –		
Nil	53	
RPOC	37	0.014
Unaffected pregnancy	10	

*Chi- square test used to find p-value.

The majority of cases (89%) reported within three days of the termination procedure, indicating a need for timely intervention. Vaginal bleeding was universal (100%), while pain abdomen was reported in 53% of cases. Reasons for unsupervised MTP included accidental pregnancy (59%) and spacing between children (38%). Complications were observed in a substantial proportion of cases, with retained products of conception (RPOC) being the most common (37%) (Table 2).

3.2 Discussion

Unsupervised medical termination of pregnancy (MTP) remains a significant concern, particularly among women of reproductive age. This study investigate the demographic aims to characteristics, clinical profiles, and complications associated with unsupervised MTP among women presented to a tertiary care hospital in Bathinda. The mean age of patients presenting after unsupervised MTP was 27.7 years, indicating its impact on women in their reproductive prime. Most patients fell within the age groups of 20-25 and 26-30 years, underlining the vulnerability of young women to unplanned pregnancies and the subsequent need for termination. Similar findings were noted in studies conducted by Giri et al. and Thakur et al., wherein a significant proportion of patients unsupervised who underwent medical termination of pregnancy (MTP) belonged to the 20-29 age bracket [9,10].

More than half (52%) of the patients had two or more children. The observation aligns with the

results of a study conducted by Bhalla et al., where a substantial majority of patients (77%) had a gravidity of three or more [11]. Similarly, Pal et al. reported that 62% of individuals had a parity of 1-2, while 20% had a parity of 3 or more [12]. This suggests that a notable portion of women undergoing unsupervised MTP might already bear existing family responsibilities. This emphasizes the critical need for accessible and effective family planning services to avert unintended pregnancies within this demographic.

In our study, a significant portion of patients had completed high school education (32%), with a smaller percentage holding a graduate degree or higher (6%). The majority of patients were housewives (61%) and resided in rural areas (62%), suggesting that this issue is prevalent among women who may have restricted access to healthcare resources and family planning services. Addressing the specific needs of these populations through community-based interventions and outreach programs is essential for mitigating the risks associated with unsupervised MTP.

In our study, 89% of cases were reported within three days of the termination procedure. Comparable findings were reported by Munshi et al., where the majority of women (75%) had consumed the abortion pills 1-10 days before presenting to the hospital [13]. Emphasizing the necessity for enhanced access to post-abortion care services, such as counseling, contraception, complication management, and timely intervention, is paramount in instances of unsupervised medical termination of pregnancy.

In our study, the mean gestational period at the time of unsupervised medical termination of pregnancy was 7.4 weeks. All patients presented with vaginal bleeding (100%), with over half reporting abdominal pain (53%). Similarly, in a study by Kumari et al., it was found that 50% of women took abortion pills between 7-12 weeks, 32 (32.65%) took them before seven weeks, and 17 (17.35%) took them between 13-20 weeks. The most common clinical presentation was excessive vaginal bleeding in 70 (71.42%) cases. Incomplete abortions were observed in 77 (78.56%) women, missed abortions in 10 (11.22%) women, and septic abortions in 4 [14]. (4.08%)women Highlighting significance of acknowledging and managing the physical repercussions of unsupervised MTP.

In the current study, the reasons provided for unsupervised MTP, such as accidental pregnancy (59%) and the need for child spacing (38%), underscore the intricate socio-cultural factors shaping reproductive decision-making. Furthermore, in our study a the significant rate of complications were reported particularly retained products of conception (RPOC) in 37% of cases and failure of procedure resulted in unaffected pregnancy in 10%. In a study conducted by Singh et al., it was found that 70% of patients had incomplete abortion, 22% had complete abortion, and 1.3% experienced incomplete abortion with shock [15]. This aligns with our findings, indicating a substantial prevalence of incomplete abortions and the associated risks.

4. CONCLUSION

The study highlighted significant challenges posed by unsupervised Medical Termination of Pregnancy (MTP) among women in Bathinda, Punjab. The study revealed that young women, particularly those in the 20-30 age group, are particularly vulnerable to unplanned pregnancies and resort to unsupervised MTP. Family responsibilities, limited education, and rural residence further contribute to the complexity of this issue. The high prevalence of complications, such as retained products of conception, underscores the urgent need for comprehensive post-abortion care services. These findings reinforce the critical importance of accessible family planning services, reproductive health education, and the effective implementation of abortion laws to address the socio-cultural factors influencing reproductive decision-making. Collaborative efforts involving policymakers, healthcare providers, and communities are essential to ensuring safe and legal abortion services, ultimately promoting women's reproductive rights and autonomy.

CONSENT

We declare that 'written informed consent was obtained from the patients

ETHICAL APPROVAL

We declare that the study was conducted after the approval from 'Institutional Ethics Committee", AIMSR, Bathinda, Punjab.

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COMPETING INTERESTS

Authors have declared that no competing interests exist.

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