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Incidence of Hysterectomy in Tertiary Care Center: an Audit based Retrospective Study

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Authors' contributions

This work was carried out in collaboration among all authors. All authors read and approved the final manuscript.

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ABSTRACT

Background: Hysterectomy involves partial or complete removal of the uterus. In India, the exact health status in hysterectomy surgery is not clear which is due to the lack of information in large-scale health surveys at the national level. This study is designed to review the safety and efficacy of different methods used in hysterectomy procedures.

Methods: A retrospective study was done between May-2021 to July-2021 on women with hysterectomy surgery. In this study 30 cases of different hysterectomies namely Total Abdominal hysterectomy (TAH), laparoscopic-assisted vaginal hysterectomy (LAVH), total Laparoscopic hysterectomy (TLH) and Vaginal Hysterectomy (VH) were included and their clinical presentations, indications and complications were studied.

Results: This study revealed that most of the hysterectomy were carried out between 40-50 years of age and abnormal uterine bleeding with fibroid uterus was found as the common indication for hysterectomy in a total of 14 cases. Moreover, hysterectomy by Laparoscopic route is observed as the safe method as there were no post-operative complications recorded in all 22 cases.

Conclusion: Finally, this study revealed that hysterectomy should be done under the supervision of trained and experienced surgeons with good hospital facility which helps in the fast recovery of cases and also decrease the post-operative stay in hospitals.

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1. INTRODUCTION

Hysterectomy is described as a surgical procedure that involves partial or complete removal of the uterus and is considered the second most frequent surgical procedure after cesarean [1,2]. This surgical procedure is used for the treatment of several gynaecological problems such as adenomyosis, cancer of the cervix or ovaries & uterus, chronic pelvic pain, dysfunctional uterine bleeding, endometriosis, fibroids and uterine prolapse [1-4]. The surgical procedure exerts several positive impacts on women's health such as decreased anxiety and depression which lead to an upsurge in both physical as well as physiological conditions of women after 6- 12 months of surgery [5]. However, it also showed a number of adverse effects on women such as urinary incontinence, sexual dysfunction, backache, weakness, earlier of menopause, increased onset risk of osteoporosis and cardiovascular disorders, etc. The incidence and prevalence of hysterectomy vary with different geographic locations which might be due to the differences in uterine pathology, socio-cultural status, medical facilities and practices [6,7].

In India, approximately 11 in 100 women between 45-59 years of age have undergone this operation every year [4]. Its prevalence varies between 1.7-9.8% which is lower than the other countries [2,4,6,8]. However, as per the various media reports, the unusual increment in the cases of hysterectomy was recorded from the of India. different geographical locations Furthermore, the exact status such as the number of cases and impact on health is not clear in India which is mostly due to the inadequate information available in large-scale health surveys at the national level. Only the fourth National Family Health Survey (NFHS-4) first time collected information on hysterectomy and reported certain reasons as well as the health status of women after this surgical procedure [4]. Thus, the present study is designed to review the safety and efficacy of different methods used in hysterectomy procedures by analyzing different factors such as patient demographics, intraoperative and postoperative complications and length of stay in the hospital.

2. MATERIALS AND METHODS

A retrospective study was done between May-2021 to July-2021 in the Obsterics and Gynaecology Department of SSB Heart and Multispecialty Hospital, Faridabad, Harvana, India. In this study 30 cases of different hysterectomies namelv Total Abdominal hysterectomy (TAH), laparoscopic-assisted vaginal hysterectomy (LAVH), total laparoscopic hysterectomy (TLH) and Vaginal Hysterectomy and included their (VH) were clinical presentations, indications and complications were studied. Before participation in this study, all patients signed an informed written consent form and conducted it with permission from the local ethical committee of the respective Hospital.

3. RESULTS

3.1 Demographics Pattern of Hysterectomy

On the basis of age, cases are divided into 4 groups i.e. <40, 40-50, 50-60 and >60, among them, a maximum number (15 cases or 50%) were recorded in the 40-50 year age group while the minimum number i.e. 3 cases or 10% were found at >60 age group (fig. 1 and table 1). Moreover, under the age group <40, a total of 8 cases were subjected to hysterectomy out of which only 2 surgery were done between the age of 36 and 37.

Age group	Frequency	Percentage
<40	8	26.67%
40-50	15	50%
50-60	4	13.33%
>60	3	10%

Table 1. Demographic pattern of hysterectomy



Fig. 1. Number of hysterectomies in the different groups

3.2 Indication

Abnormal uterine bleeding (AUB) with fibroid uterus was found as the most common indication of hysterectomy followed by the other indications like Abnormal uterine bleeding (AUB) with adenomyosis. A total of 14 cases were found to have AUB with fibroid uterus while only 5 cases were observed with AUB and adenomyosis (Fig. 2).

Vaginal hysterectomy was done for patient with genital prolapse.



Fig. 2. Number of Indications of hysterectomies





Complications	Percentage (%)	
Conversion to laparotomy	0%	
Bladder injury	0%	
Ureter injury	0%	
Bowel injury	0%	
Return to theatre	0%	
Mean hospital stay	2 days	
Readmission rate	0%	



Fig. 4. Duration of post-operative stay of hysterectomy cases

3.3 Method of Hysterectomy

The total Laparoscopic hysterectomy (TLH) with 22 cases was found as the most common method of hysterectomy followed by total abdominal hysterectomy (TAH) and laparoscopic-assisted vaginal hysterectomy (LAVH) i.e. 3 and 4 cases, respectively. On the other hand, only 1 surgery was done by using vaginal hysterectomy (VH) (Fig. 3).

3.4 Complications and Hospital Stay

None of the cases showed any complications such as bladder, ureter and bowel injuries after the hysterectomy (Table 2). Moreover, most of the cases stayed in hospital only for 2 days after the surgery followed by 3 and 4 days (Fig. 4).

4. DISCUSSION

Hysterectomy is one of the major surgical procedures done on women. And approximately 75% of surgery is carried out between 20 to 49 years of age [9,10]. The present study showed that a higher incidence of hysterectomy was found between the age of 40 to 50 years. A similar age group was also found for hysterectomy procedures in a number of studies [4,11,12].

In the present study, abnormal uterine bleeding (AUB) with fibroid uterus was found as the common indication for hysterectomy. This study also revealed that the fibroid uterus is the common indication involved in this procedure [10, 11, 13]. However, the rate of abnormal uterine bleeding is similar to the study conducted in the USA [14]. This study revealed that most of were operated the cases through the laparoscopic route and similar finding was also reported in a various study [10, 13]. The laparoscopic procedure is recognized as the "minimally invasive" practice in hysterectomy because it does not require a large incision in abdomen and, associated with shortened period of hospitalization and fast postoperative recovery as compared with open abdominal hysterectomy. Hence it can be used as the alternative method to open abdominal hysterectomy [15].

The post-operative stay and complications study revealed that there were no side effects recorded after this surgical procedure and all complication categories were found under the standard defined in Ramdhan et al [16]. This might be due to the surgery performed by experienced medical practitioners with a well-equipped hospital facility that offers minimal complication rates and shorter post-operative hospital stay.

5. CONCLUSION

The present study concluded that the age group between 40-50 years has a high incidence of hysterectomy in India which is due to abnormal uterine bleeding with fibroid uterus. Additionally, the laparoscopic route of surgery is the found best route for this surgery with a negligible adverse effect on the health of women. Further, to assure the safety and efficacy of laparoscopic route of surgery a study with large sample size and long duration should be accompanied in future. Moreover, hysterectomy carried out under the supervision of trained and experienced surgeons with good hospital facilities such as the availability of modern hospital technology, devices, and support system helps in the fast recovery of cases and also decrease the postoperative stay in hospitals. Finally, Gynecologists should try to do laparoscopic hysterectomies as it is directly correlated with patient comfort and less morbidity.

CONSENT

As per international standard or university standard, patients' written consent has been collected and preserved by the author(s).

ETHICAL APPROVAL

As per international standard or university standard written ethical approval has been collected and preserved by the author(s).

COMPETING INTERESTS

Authors have declared that no competing interests exist.

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