



ORIGINAL RESEARCH PAPER

Gynaecology

A COMPARATIVE STUDY OF ABDOMINAL ROUTE VS NONDESCENT VAGINAL (NDVH) ROUTE FOR HYSTERECTOMY OF FIBROID UTERUS IN A RURAL HOSPITAL IN MAHARASHTRA.

KEY WORDS: Hysterectomy, Fibroid uterus

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ABSTRACT

Hysterectomy is one of the most common surgical procedure performed. The presence of uterine fibroid tumour is a common finding in women of fertile age. Hysterectomy remains the treatment of choice for symptomatic patients & can be performed abdominally or vaginally or LAVH.

Objective:-The present study was undertaken with a view to compare the technical difficulties, complications and morbidity associated with vaginal and abdominal hysterectomy for enlarged fibroid uterus.

Material and methods:- This prospective study was undertaken on 100 patients with 6-14 wks fibroid uterus admitted in gyn ward for hysterectomy ,divided equally in two groups of 50 each undergoing abdominal hysterectomy and NDVH respectively.Observations were noted and statistical tests applied.

Conclusion:- Vaginal Hysterectomy is a better alternative to abdominal hysterectomy, for patients with moderately enlarged, mobile uterus. It has fewer intraoperative and postoperative complications.

Hysterectomy is one of the most common surgical procedure performed.¹ About 75% of the hysterectomies are done by the abdominal route¹, despite its association with higher incidence of complications, longer hospital stay and greater hospital charges than Vaginal Hysterectomy. Uterine Leiomyoma are the most common pelvic tumours² in women; this condition is responsible for a large number of hysterectomies. Uterine fibroid tumour is a common finding in women of fertile age, with an incidence of approximately 20% to 25%³. Hysterectomy remains the treatment of choice in our setup for symptomatic patients which can be performed abdominally or vaginally or LAVH. An enlarged uterus is not a contraindication for Vaginal Hysterectomy⁴, provided the cases are chosen properly.

OBJECTIVES:

1. To study merits and demerits of abdominal and Vaginal Hysterectomy for fibroid uterus.
2. To assess which route will be better for a particular size of fibroid uterus with respect to :-

Duration of Surgery, Amount of Blood Loss, Operative Complication, Hospital Stay & Blood Transfusion

SITE OF STUDY- Department of OBGY , S.M.B.T IMS & RC, Dhamangaon, Nashik

TYPE OF STUDY -Prospective study

DURATION OF STUDY- 1st January 2017 to 30th November 2017.

INCLUSION CRITERIA-One hundred Patients with enlarged, mobile, uterus of 6-14 weeks size which necessitates hysterectomy for fibroid.

EXCLUSION CRITERIA-Prolapse, malignancy , PID, Endometriosis, Previous major pelvic procedures.

MATERIAL AND METHODS

Detailed Clinical evaluation of the enrolled patients was performed. Abdominal examination , P/S & P/V was done to determine the size of the uterus, mobility, presence of adnexal mass, discharge, prolapse, & PID.

Routine investigations, pre-op USG, PAP smear was done and Patients allotted to group A or B using random table.

Group A patients underwent Non descent Vaginal Hysterectomy(NDVH). Group B patients underwent Abdominal Hysterectomy(AH). All NDVH & AH were performed without laparoscopic assistance by gynaecologists under spinal anaesthesia (Assistant professor and above). Consent was taken from patients with the provision that it may be necessary to convert VH to abdominal surgery, if necessary. Patients received prophylactic antibiotics consisting of inj. cefotaxime 1 gm and inj.Metronidazole 500mg IV 30mins preoperatively and postoperatively 2 & 3 doses daily respectively for next 2 days.

The following parameters were studied

Operative time (minutes)was calculated from incision to closure. Blood loss was estimated from the soakage of the mop and pads ,suction bottle collection & 50ml blood loss was estimated as lost in drapes and gloves Use of uterine volume reduction were carried out as needed.Operative complications,injuries,technical difficulties encountered, additional procedures performed, Weight of the hysterectomy specimen before formalin fixation were noted.

Postoperatively, patients were given parenteral fluids until bowel sounds appeared. Then they were started on oral fluids. Indwelling catheter was kept usually for 24 hours. Analgesics were given on the day of the surgery and the first postoperative day based on the patient's request for pain relief. The need for analgesics was recorded.The preoperative Hb concentration was compared with that obtained after 48 hrs , to calculate the operative Hb concentration change.

Course of the immediate postoperative period of all patients was recorded.Occurrence of any complications were noted and the remedial measures taken.

METHOD OF STATISTICAL ANALYSIS

Student t- test & Chi square test. 5% & 1 % level of significance respectively.

OBSERVATIONS:PATIENT CHARACTERISTICS

1) **Age:-** Maximum of 72% patients were in the age group of 40-

the present study, the rate of postoperative complications was 4% in the vaginal group and 6% in the abdominal group. The difference was not statistically significant ($p=0.504$). In our study, fever was reported in 2% of NDVH and 4% of AH patients comparable to the study by Kovac (2000)¹¹. In the vaginal group, 66% of patients demanded only one Analgesic dose (100 mg tramadol) whereas in the abdominal group, 92% of patients demanded 2 doses (200mg Tramadol). Postoperative pain, postoperative hospital stay was significantly less & Postoperative comfort significantly better for NDVH group in the present study.

CONCLUSION

Non Descent Vaginal Hysterectomy (NDVH) is a better alternative to abdominal hysterectomy, for patients with moderately enlarged, mobile uterus. It reduces hospital stay, allows early recovery and eliminates abdominal wound complications. A proper selection of cases, patient counselling, surgeon's preference and skill are required, to perform NDVH for enlarged uteri.

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