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Original article

## Vaginal vault metastasis – The new enigma in port site recurrences in gynecological laparoscopic surgeries



K. Chitrathara, Asima Khan, Neetha Sreedharan\*, Neha Shriya, Simi Raj

Departments of Surgical and Gynecological Oncology, Lakeshore Hospital, Cochin, Kerala, India

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## ABSTRACT

**Objective:** To determine the frequency of vaginal vault recurrences in comparison with other port site recurrences following unplanned laparoscopic surgical treatment for gynecological malignancies.

**Design:** Retrospective analysis of a prospectively maintained database of eight patients who underwent laparoscopic procedures for different gynecological malignancies.

**Results:** Eight patients were identified to have port site recurrences. Out of these, seven had undergone laparoscopic surgery for ovarian tumor and were reported to be malignant with the exception of one which was a borderline ovarian tumor. One case had a fibroid uterus, which later turned out to be a leiomyosarcoma. Vaginal vault recurrence was seen in four out of the eight cases, and only one patient could be saved. Whereas out of the four cases with other port recurrences, three patients are in complete remission.

**Conclusion:** Apart from other port recurrences, vaginal vault is a potential site of recurrence. But it is more significant as it results in greater morbidity and carries a worse prognosis than other port recurrences.

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## Introduction

Port site metastasis is a well-known phenomenon following laparoscopic surgeries for abdominal malignancies. Gynecological malignancies are not an exception to this. Apart from other port recurrences, vaginal vault is a potential site of recurrence. But it is more significant as it results in greater morbidity and carries a worse prognosis than other port recurrences.

The objective of this study was to determine the frequency and outcome of vaginal vault recurrences in comparison with other port site recurrences following unplanned laparoscopic surgical treatment for gynecological malignancies.

## Materials and methods

The study is a retrospective analysis of a prospectively maintained database of all the patients who were referred to us. A total

of eight patients were identified from May 2006 to August 2009 with port site metastasis following laparoscopic procedures of varying magnitudes for gynecological malignancies. They were followed-up to date.

This study was conducted in the Department of Surgical and Gynecological Oncology at Lakeshore Hospital and Research Centre in Cochin, India which is a tertiary care center and a leading oncology center in a private set-up. A detailed note of referral documents of patients referred to us was made, followed by thorough clinical examination, radiological reassessment, and tumor marker levels wherever applicable. Histopathological reports were reviewed. Conditions of the patients were optimized and subsequently taken for exploration.

## Results

Out of the eight patients, seven patients had undergone laparoscopic surgery for ovarian tumors, and one for fibroid uterus. None of these were performed by a gynecological oncologist. Vaginal vault recurrence was seen in four out of the eight cases. In all these cases, specimens were retrieved through the vagina. No endobags were used in any of these cases. One patient had extensive disease in the abdominal port and contiguous abdominal and

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\* Corresponding author. Dr Neetha Sreedharan, AGOI Fellow in Gynaec Oncology, Lakeshore Hospital, NH 47 Bypass, Maradu, Nettoor PO, Kochi 682040, Kerala, India.

E-mail address: [dr.neethasreedharan@gmail.com](mailto:dr.neethasreedharan@gmail.com) (N. Sreedharan).

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pelvic masses. In other cases the metastasis occurred in abdominal ports. In two cases it was at the port of the ovariectomy specimen removal, and one at the biopsy removal port.

Seven had ovarian malignancy, six cases of serous cyst adenocarcinoma, and one case of borderline ovarian tumor. The eighth case which was diagnosed as a case of leiomyoma turned out to be a leiomyosarcoma at histopathological examination.

The most common mode of presentation of recurrence was bleeding *per vaginum*. The time duration for recurrence was between 2 weeks and 1 year. Out of the eight patients, four patients underwent laparotomy and cytoreduction. One patient was inoperable. Two patients were given neoadjuvant chemotherapy before surgery. The leiomyosarcoma case received radiotherapy followed by second line chemotherapy.

Out of the four vaginal vault recurrences only one patient could be salvaged. Luckily she did not have any nodal or extra pelvic disease. She is now disease free at 5 years. In spite of extensive surgery and adjuvant treatment two patients died of progressive disease and one case had an inoperable disease.

One patient with abdominal port recurrence also had an inoperable disease (Case 4). Three patients (Case 1, Case 2, and Case 3) are alive after definitive surgeries.

## Brief case summary

### First case

The patient underwent laparoscopy for bilateral ovarian tumor. She was found to be inoperable then, and definitive surgery was abandoned. Only a biopsy was taken. She was referred to us with the biopsy report of papillary serous cystadenocarcinoma. But on examination the mass was found to be mobile and felt operable. She was taken for laparotomy after complete evaluation. Staging laparotomy was done along with excision of the right iliac fossa port which was studded with metastasis. Postoperatively adjuvant chemotherapy was given.

### Cases 2 and 3

These patients had undergone laparoscopic ovariectomy for presumably stage 1 disease. The pathological report of one patient showed a borderline mucinous tumor. After 1 year she presented with a huge suprapubic port recurrence and was taken for cytoreductive surgery. Optimum cytoreduction could be achieved including excision of the port recurrence. Prolene mesh repair was performed at the site of port recurrence excision. She was given adjuvant chemotherapy with paclitaxel and carboplatin since the histopathology report showed mucinous adenocarcinoma. However, she was found to have locally progressive disease.

The other patient who had undergone laparoscopic ovariectomy had a pathological report showing a serous cyst adenocarcinoma and underwent restaging laparotomy with port excision 1 month after laparoscopy.

### Cases 4 and 5

Both patients had undergone total laparoscopic hysterectomy with bilateral salpingo oophorectomy for unilateral ovarian tumor. In one of these patients, part of the tumor was left behind as it was adherent to bowel serosa. She had received three courses of adjuvant chemotherapy and was found to have recurrence at the port site. Hence, she was referred to us for surgery. On examination she had a left iliac fossa mass (port site) with other intra-abdominal and fixed pelvic masses which were unresectable. Only the port site

could be excised completely and the pathology report confirmed recurrence.

The other patient underwent total laparoscopic hysterectomy with the removal of an ovarian tumor vaginally. She had received six cycles of adjuvant chemotherapy with paclitaxel and carboplatin. After 1 year she presented with severe vaginal and perineal pain. On examination, a huge vault recurrence was seen causing a rectovaginal fistula. As it was inoperable, she was given three courses of chemotherapy. Later she was re-evaluated and was subsequently taken for surgery with resection of the mass, resection anastomosis, and covering colostomy. She received three more cycles of chemotherapy and the colostomy closure was performed after completion of her treatment.

### Cases 6 and 7

These two patients had undergone laparoscopic assisted vaginal hysterectomy and removal of ovarian tumors vaginally. Histopathology report showed an adenocarcinoma, and adjuvant chemotherapy was given. One of these patients presented with bleeding *per vaginum* after 6 months of chemotherapy. Examination showed a huge recurrence at the vault. The mass was infiltrating the rectal wall and extensive nodal disease was present. She underwent excision of the recurrence and infiltrated rectal wall, along with nodal dissection. She died of progressive disease 1 year later.

The other case, a postmenopausal patient, had undergone laparoscopic assisted vaginal hysterectomy and removal of an ovarian tumor vaginally. She had been given three cycles of adjuvant chemotherapy followed by completion surgery (omentectomy and lymph node dissection). She then received three more cycles of chemotherapy. Six months later she presented with profuse bleeding *per vaginum*. On examination she was found to have a highly vascular vaginal vault metastasis. The vaginal vault had not been re-excised during completion surgery. She received palliative radiotherapy followed by second line chemotherapy. Later she developed an abdominal recurrence also and succumbed to death after 2 years.

### Case 8

A 44 year old female underwent total laparoscopic hysterectomy for multiple fibroids and a specimen was removed with morcellation using the morcellator. Histopathology report confirmed leiomyoma. After 6 months of surgery, she presented with bleeding *per vaginum* and on examination a huge vaginal vault recurrence was seen which was infiltrating the bladder. Trucut biopsy from the mass was taken which showed a high grade leiomyosarcoma. She was re-evaluated and re-analyzed. She said that she had noticed a recent sudden increase in the size of the fibroid and told the laparoscopist this during the initial consultation. The slides of initial Histopathological examination (HPE) could not be brought for review. The patient was given chemotherapy with ifosfamide and adriamycin, and was later taken up for surgery. Partial cystectomy and removal of the tumor was performed followed by adjuvant radiation. Despite all these, her disease progressed and she succumbed to death in a year.

## Discussion

The current study was a retrospective analysis of a prospectively maintained database. All the above cases were referred cases. All these cases were either not worked up properly or were taken up for laparoscopy with the assumption that they were all benign. Also, because of the lack of facilities for frozen sections, intra-operative conversion of laparotomy and completion of staging were

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