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CASE REPORT

A Rare Case of Ovarian Tumor



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Introduction

Ovarian cancer is the third most common cancer in Indian women, accounting for 3% of all malignancies and 6% of deaths from cancer. It is fifth most common cause of death from malignancy in women [1].

Ovarian cancer is associated with low parity and infertility. Because parity is inversely related to the risk of ovarian cancer, having at least one child is protective for the disease, with a risk reduction of 0.3 to 0.4 [2].

This case is presented to highlight the varied presentation of ovarian masses and to outline the approach of management of ovarian mass in perimenopausal patients and to highlight the importance of ruling out gastrointestinal malignancy before proceeding for surgery. Metastatic tumours to the ovaries are most frequently from the breast and gastrointestinal tract. Krukenberg tumours can account for about 2% of ovarian cancers at some institutions, and they are usually bilateral. The lesions are usually not discovered until the primary disease is advanced, and, therefore, most patients die of their disease within 1 year. In some cases, a primary tumour is never found [3].

Before exploration for an adnexal tumour in a woman older than 40 years, a barium enema is indicated to exclude a primary gastrointestinal carcinoma with metastases to the ovaries, particularly if there are any gastrointestinal symptoms [4].

In first two decades of life almost 70% of ovarian tumours are of germ cell origin, and one-third of these are

malignant [5].

- The peak incidence of invasive epithelial ovarian cancer is at about 60 years of age. About 30% of ovarian neoplasms in postmenopausal women are malignant, whereas only about 7% ovarian epithelial tumours in premenopausal women are frankly malignant [6].
- Most epithelial ovarian cancers are sporadic but at least 5-10% result from inherited susceptibility and are hereditary.

Of all the gynaecologic cancers, ovarian malignancies represent the greatest clinical challenge because they have a high mortality.

A woman's risk at birth of having ovarian cancer at some point in her lifetime is 1% to 1.5% and that of dying from ovarian cancer is almost 0.5% [7].

Case Presentation

- My patient Mrs X, 43-year-old, nulligravida, got admitted on 9th July in the department gynaecology with complaints of pain in abdomen since 4-5 months.
- Pain was insidious in onset gradually progressive, generalized to whole abdomen, no aggravation or relieving factor, no association with food intake.
- There was no history of palpable lump or any obvious swelling. She also gives history of weight loss and loss of appetite.



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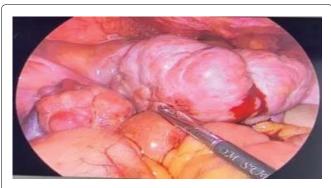


Figure 1: Intraoperative picture of bulky ovary during laparoscopic cholecystectomy.

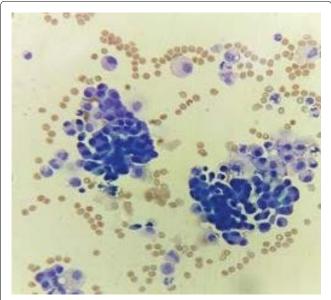


Figure 2: Ascitic fluid with SS highly cellular smears, cells singly scattered, eccentric placed nuclei, pale cytoplasm with vacuoles in many cells, some nuclei are hyperchromatic.

- No c/o heavy menstrual bleeding, no h/o intermenstrual bleeding, no c/o abdominal distension, no bowel or bladder complaints.
- Her Ultrasound report done outside showed gallbladder polyp with bilateral enlarged ovary.
- She was operated for lap cholecystectomy on 27/6/20. She was detected to have bulky ovaries intraoperatively (Figure 1) and her ascitic fluid showed cells suspicious of malignancy (Figure 2).
- Her CA-125 was 66.
- Hence her staging laparotomy with frozen section with pan hysterectomy was planned.

Menstrual history

- Last menstrual period- 6/6/2020
- Past Menstrual history- 4-5 days/28-30 days/Regular
- No history of heavy menstrual bleeding, No history of passage of clots

Obstetric history

Married since 23 years, Nulligravida

General examination

- · Patient was conscious, Oriented,
- No pallor/icterus/edema/lymphadenopathy
- PR- 80 bpm, BP 110/70 mmHg

Systemic check-up

R.S - clear, Bilateral air entry equal

CVS - NAD

Breast - Normal

P/A -

Inspection -

 Abdomen uniformly distended umbilicus inverted, No dilated veins, Visible peristalsis, Laparoscopy scar + healthy

Palpation - Soft nontender, No mass palpable, No evidence of free fluid

Percussion - Resonant

Auscultation - Bowel sounds present

Per speculum - Cervix, Vagina - Looks normal

Minimal white discharge present

P/v- uterus - Bulky, Anterior fornix fullness +/Posterior fornix free

Right lateral fornix fullness present, No finical tenderness

P/R - No growth felt mucosa intact parametrium free

Based on my clinical findings my diagnosis is 68-yearold postmenopausal women with some adnexal pathology probably malignancy.

Investigation

Hb/Tlc/Platelet - 12.2/10,000/3.35

Serum beta HCG -< 1.20

CA -125-66

LDH - 1104

Cytology report - Ascitic fluid - Suspicious for malignancy

PAP smear - NILM

CTSCAN (Abdomen + Pelvis)-24/5/2020

UTERUS - Appear normal, right ovary enlarged 7.6 \times 6.4 cm shows cystic lesion measuring 4 \times 2.8 cm within. Left ovary enlarged 5.2 \times 4.4 cm in size. No abdominal/pelvic lymphadenopathy.

USG Abdomen & Pelvis ON 24/6/2020

Uterine outlines are poorly visualised due to the pel-

vic mass. Endometrium measures 6 mm. Right ovary measures $8.2 \times 6.8 \times 4.5$ cm., Left ovary measures $5.2 \times 5.1 \times 4.4$ cm.

Both ovaries are enlarged, Hypoechoic & Heterogonous in echotexture. They show raised vascularity. Small amount of free fluid is seen in pod and interbowel Region. No significant para-aortic lymphadenopathy.

Procedure: Exploratory Laprotomy + TAH + BSO + Omenectomy + Appendicetomy

Anaesthesia: General + Epidural

Intraoperative findings-

- Incision: Midline vertical
- Minimal ascites noted Fluid collected for histopathology
- Omental thickening present
- Appendix thickened
- Liver and under surface of diaphragm were normal
- Evidence of b/l ovarian masses around 8 × 9 cm with irregular surfaces
- Pouch of Douglas thickening present on both

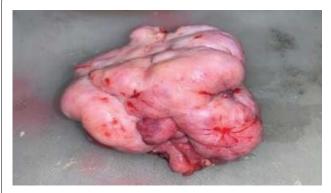


Figure 3: Right ovary of $8 \times 8 \times 5$ cm, with nodular external surface and intact capsule.

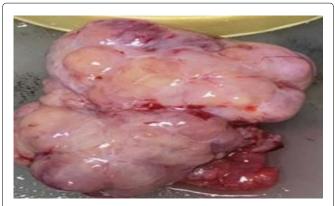


Figure 4: Specimen of left ovary, $7 \times 7 \times 3.5$ cm. External surface nodular, capsule intact. Ovarian mass on cut section shows yellowish to whitish homogenous area, Fallopian tube intact (5 cm).

- uterosacral. Right parametrium thickening present
- Bilateral Ovarian masses removed and sent for Frozen section
- Appendectomy done, partial infracolic omentectomy done
- Frozen section Suggestive of granulosa cell tumour (Figure 3, Figure 4 and Figure 5)
- · Specimen was sent for histopathology

Final Histopathological Diagnosis

Final diagnosis-> Poorly differentiated malignancy of both ovaries

- · Lymphovascular emboli seen
- Right fallopian tube is involved while left FT is free

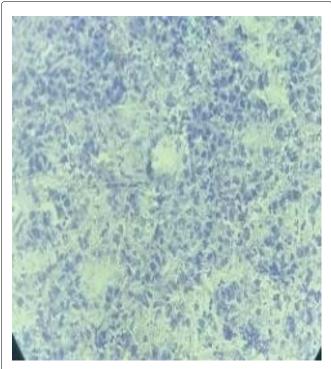


Figure 5: Tumor cells arranged in solid sheets and microfollicular pattern -> Call exner bodies.



Figure 6: Uterus and cervix.



Figure 7: Appendix specimen.



Figure 8: Omentum specimen.

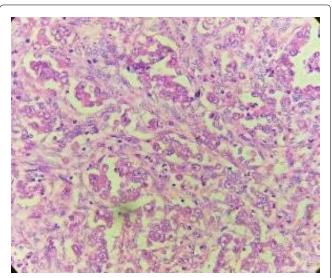


Figure 9: Microscopic -2 types of Tumour cells, Glandular pattern, Others are spindle shaped with elongated nuclei, prominent nucleoli with increased N:C ratio and scant to moderate amount of eosinophilic cytoplasm.

- Cervix, endomyometrium are free (Figure 6)
 - Bilateral parametria are free
- Omentum and the wall of appendix show tumour deposits (Figure 7, Figure 8 and Figure 9)

D/D:1. Suggestive of metastatic adenocarcinoma

2. Malignant sex cord stromal tumour

IHC advised: CK7, CK20, Inhibin

Post-operative

Patients' histopathology report came as metastatic adenocarcinoma or Malignant sex cord tumour. Her IHC marker of IHC- CK7 AND CK 20 POSITIVE, INHIBIN - NEGATIVE Which was favouring adenocarcinoma.

- Post-operative patient underwent 2 cycles of chemotherapy.
- She presented with acute abdomen after 1 month of surgery and was diagnosed with bowel perforation -> ileostomy was done.
- Colostomy bag was put. Patient was shifted to ICU postoperatively for further management.
- She was shifted towards on (0 + 3rd) post-operative day and was discharged on 10th postoperative day.
- She didn't follow up later.

Discussion

Early ovarian cancer has nonspecific symptoms resembling those of less serious conditions. Pain in abdomen and burning micturition are common complaints which may present to a general-practioner. Thus, the diagnosis of ovarian cancer is challenging, since it is detected at an advanced stage, requiring exploratory laparotomy.

Whenever a patient of ovarian tumour is posted for surgery the staging laparotomy with frozen section remains the preferred approach.

Conclusion

In this case the patient presented with vague symptoms. Ovarian cancers present with very vague symptoms; hence it is generally diagnosed in very late stage, hence whenever any perimenopausal women presents to a Primary health care with vague symptoms, possibility of ovarian cancer must be kept in mind and per vaginal examination to rule out any adnexal pathology must be done and they must be referred to tertiary care hospital for further management. Also, Gastrointestinal malignancy or Krukenberg tumour must be kept in mind as differential diagnosis of carcinoma ovary and CEA also should be done.

Frozen section may not be conclusive in every case of ovarian tumor, so staging laparotomy is ideal modality of management.

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