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BEYOND THE SURFACE: A SURPRISING DIAGNOSIS OF GIST OF OVARIAN ORIGIN



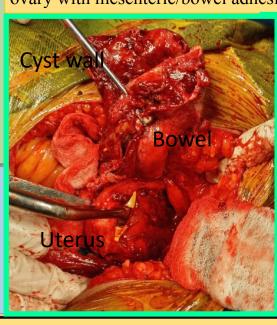
INTRODUCTION

- Gastrointestinal stromal tumors (GISTs) are rare mesenchymal GIT cancers originating from interstitial cells of Cajal.
- Extraintestinal GIST(EGISTs) arise from omentum, mesentery, retroperitoneum, uterus, and bladder; primary ovarian GIST is exceedingly rare
- Diagnosis relies on HPE/ IHC

on the existence of GIST ovary, and diagnosis to be kept in mind whilst evaluating women with large abdominopelvic mass

CASE- HISTORY -72yr F, P12L9, with C/O pain, bloating, rapidly growing abdominal lump since 5 months, with loss of appetite/weight. **EXAMINATION**-An abdominopelvic mass~18 weeks.

USG- an endometrioma in left adnexa, 70*67 mm complex left ovarian cyst. CECT- normal uterus with 97*68mm cystic lesion in left adnexae with post contrast enhancement;? Dermoid cyst TUMOR MARKERS- CA-125=44.6, AFP=8.8, CEA=3.78, LDH=214, BHCG= 2.3, CA-19-9= 3.5 OPERATION/PROCEDURE- STAGING LAPAROTOMY- Large solid cystic mass arising from the left ovary with mesenteric/bowel adhesions. Radical resection was done with double barrel ileostomy.





CONCLUSION-

- The complexity of this diagnosis highlights importance of extensive evaluation.
- Surgical resection/ adjuvant therapy forms the cornerstone of treatment.
- The marker DOG1 is consistently expressed in GIST, regardless KIT or PDGFRA mutation.

DISCUSSION-

- EGISTs are rare tumors with primary ovarian origin being unusual (2 cases so far)
- Clinical presentation/ Imaging mimics the findings of ovarian malignancies.
- This diagnosis to be kept in mind while evaluating preoperatively- UGI and LGI scopy advocated in women with GI symptoms.
- Administration of neoadjuvant therapy with imatinib can improve prognosis by reducing the size of large masses

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HPE- Left ovary cystic area s/o mature cystic teratoma. Solid areas show spindle cell tumour with oval to elongated hyperchromatic nuclei moderate amount of cytoplasm. IHC- POSITIVE DOG1 vimentin and SMA, NEGATIVE- inhibin, S-100, and MyoD1. Final impression- Mature cystic teratoma with GIST ovary with multiple omental and mesentric deposits.

No conflict of interest among authors