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Title: Triple Pathologies- A rare case of Ovarian Collision Tumor

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INTRODUCTION

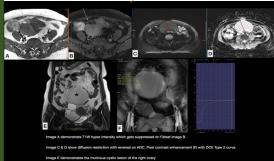
Collision tumors- two histologically distinct tumors, adjacent to one another, with no intermixing of their components.

- Incidence-ovarian collision tumors<5% (1)
- Origin- 1. Two separate cell lines growing side by side. 2. common precursor pluripotent stem cell.
- Usually diagnosed postoperatively.



Fig 1.Nondependent hyperechoic component in cystic locule of left ovary – fatty component. 2. solid component

in another locule of left ovary



C&D show diffusion restriction with reversal on ADC. Post contras enhancement (F) with DCE type 2 curve. E.Multicystic lesion of right

CASE SUMMARY

35 year, P2L2, presented with increased frequency of menstrual cycles over the past 2 months. O/E: GC: Fair, BMI-24.1kg/m², P/A: 18 weeks abdominopelvic mass, P/S: cervix and vagina healthy, **P/V**: 10X8 cm solid cystic mass in left fornix, fullness in right fornix.

USG(TAS&TVS): Bulky uterus, B/L large anechoic multiloculated thin-walled cystic lesions with thin internal septations (Fig1). **CEMRI:** 11.6X7cm, multiloculated cystic lesion, with thin walls & septations arising from Left ovary, one of the locule showed hyperintensity with suppression on T1 FATSAT images suggesting fatty component in keeping with the possibility of dermoid cyst. . Smooth enhancement of the wall and septations noted with heterogeneous enhancement of the solid component suggestive of MRI ORADS IV lesion (Fig 2). Right ovary -multiloculated cystic lesion ORADS IV lesion. **Tumor markers-** CA125 at 68.6U/ml, CA 19.9 at 54.58U/ml.

Pap Smear: ASCUS, **EB**: Proliferative phase.

Staging Laparotomy: Minimal ascitic fluid, B/L ovaries with uterus removed and sent for HPE (Fig 3A, 3B&4).



Fig 3A: Left ovarian mass measures 12X10X7cm.



pultaceous material, hair

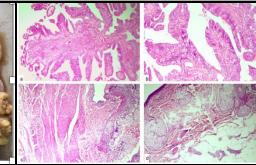


Fig 3B: Cut section showing papillary a) papillary tumor lined by polygonal cells with a fibrovascularcore b) papillary tumor with stratification and mild nuclear atypia excrescences, another solid area with colournal repithellum with goblet cells representing endoderm derived castro-instrainal anishalium and make the colournal repithellum with paper.

An ovarian collision tumor diagnosis should be considered; When two or three types of typical imaging findings of

different tumors are present in the same ovary.

components

Our Case

When the overall imaging findings of a suspected teratoma do not match its typical radiological features.

DISCUSSION

Patients who present with confounding clinical manifestations, which might only be explained by a mixture of various tumor

In the reported cases of ovarian collision, the most common combinations are epithelial and germ cell tumors, followed by germ cell tumors and sex-cord-stromal tumor (Table1)

(Table1) Author	Right ovary	Left ovary
Alayed AM	Not removed	Mucinous cystadenoma+ teratoma
Papaziogas. B et.al.	Serous cystadenoma+ teratoma	Mature cystic teratoma+ hemorrhagic follicle
Anwar Rjoop et.al	Fibroma + serous cystadenoma	Serous cystadenoma
Ozgur Bige et.al	Serous cystadenocarcinoma+ teratoma	Serous cystadenocarcinoma
0 0		Serous cystadenoma+

Mucinous cystadenoma

CONCLUSION

Awareness of rare ovarian collision tumors is crucial, as preoperative radiological detection can guide appropriate treatment strategies. The role of a meticulous histopathological examination is vital, as it not only confirms the radiological findings but also provides key information for prognosis and further management decision. Ref:1. Yin C, Wang Y, Fei ZH, Sun LH, Zhou WA, Li H. Ovarian-adnexal reporting and data system ultrasound evaluation and pathological characteristics of ovarian collision tumor. World J Clin Cases. 2024 Aug 6;12(22):4932-4939. doi: 10.12998/wicc.v12.i22.4932. PMID: 39109037; PMCID: PMC11238779.