CARCINOID TUMOUR WITH CYSTIC TERATOMA IN OVARY- A CASE REPORT

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ABSTRACT

BACKGROUND
Primary ovarian carcinoid tumours are very rare. They arise from neuroendocrine tissue and represent less than 0.1% of all ovarian tumours. Generally, carcinoid of the ovary shows a single histological type; however, some cases of primary mixed carcinoid, characterised by two or more subtypes have been reported. Furthermore, over 90% of cases are unilateral. Distant metastases have been described only for subtypes with high proliferative activity.

Aims and Objectives- To present rare case of Ovarian cystic teratoma with carcinoid changes.

CONCLUSION
This case adds to rare reports in literature of a carcinoid of low malignant potential occurring in a mature cystic teratoma. The treatment for early stage ovarian carcinoid tumours confined to one ovary is surgery alone and excellent outcomes can be expected.

KEYWORDS
Carcinoid Tumour, Cystic Teratoma.


BACKGROUND
Mature cystic teratomas are benign unilateral tumours, often diagnosed in young females. Teratomas are composed of tissues derived from the three germ layers; ectoderm, mesoderm and endoderm. The most common sites of occurrence is the ovary. A malignant tumour that arises in a pre-existing mature teratoma is called teratoma with malignant transformation, which occurs in 1 - 3% of all mature teratomas. Transformation includes thyroid carcinoma, adenocarcinoma and carcinoid tumour. Squamous cell carcinoma is the most common form of transformation. Carcinoid tumours are slow-growing tumours, originating from neuroendocrine cells which are classified into four categories: i) Insular; ii) Trabecular; iii) Strumal; and iv) Mucinous types. Carcinoids are most commonly found in the ileum and appendix. While mature cystic teratomas are benign tumours, carcinoid tumours of the ovary are considered to be malignant and are occasionally associated with metastases. The overall 5-year survival rate for patients with carcinoids regardless of location is 44 - 56%. The presence of regional and distant metastases is associated with a worsening in the prognosis. Hormone and vasoactive amine secretion from the carcinoid tumour cells cause carcinoid syndrome. Serotonin, tachykinins, prostaglandins and histamine are the main secretions of carcinoids. The secretions of these substances cause symptoms like flushing, diarrhoea, bronchial obstruction and heart failure. Surgery is the main treatment for carcinoid tumours and previous cases of carcinoids arising in mature teratomas of the retroperitoneum and ovary, which were successfully treated by surgical resection have been reported in the literature.

Case Report
A 56 years postmenopausal female came to Krishna Hospital, Karad, on an OPD basis with complaints of pain in abdomen since 1 month. She was second para with both full term vaginal deliveries. The patient was postmenopausal since 10 years. No significant past and family history.

On examination, patient was vitally stable. An adnexal mass was located in right iliac fossa approximately 7 x 7 cm was felt which was mobile, cystic in consistency and regular margins. Cervix and vagina was healthy on per speculum examination. On per vaginal examination uterus size was normal, anteverted and cystic mass felt in right fornix.

All preoperative examinations were normal. Tumour marker CA-125: 8.3 U/mL.

USG Report
Right ovarian complex lesion measuring 84 x 62 x 78 mm in size, encapsulated with nodular outline suggestive of dermoid cyst.

Financial or Other, Competing Interest: None.
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DOI: 10.14260/Jemds/2017/402

Figure 1. USG
Patient was posted for laparotomy. Intraoperatively, uterus and left ovary appeared to be normal, while right ovary showed yellowish white surface of cystic consistency of size 79 x 70 x 70 mm. Pan abdominal hysterectomy was performed and the sample sent for HPR.

Carcinoid tumours arising in mature teratomas are tumours with low malignancy potential. However, the prognosis and clinical behaviour of these tumours have not yet been clarified.

Without resection of the tumour, the risk of malignant transformation increases with time. All suspected areas in the cyst walls should be sampled in order to define these unusual rare neoplasms. In the present case report, the tumour was in a small area in the cyst wall and completely resected. This case was notable due to the rarity of this occurrence.

CONCLUSION
This case adds to rare reports in literature of a carcinoid of low malignant potential occurring in a mature cystic teratoma. The treatment for early stage ovarian carcinoid tumours confined to one ovary is surgery alone and excellent outcomes can be expected.

REFERENCES


