

EP12.18: The unexpected twist – malignant transformation of a mature teratoma component into papillary thyroid carcinoma in pregnancy

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23-year-old pregnant woman referred to our tertiary center after incidental discovery of a **right ovarian mass on first-trimester obstetric screening**.

TRANSVAGINAL ULTRASOUND:



Right ovarian unilocular cystic mass (119 mm × 64 mm × 112 mm) with regular margins, **mixed content**, **acoustic shadows** and Color score 2 — **findings suggestive of a mature cystic teratoma**.



Tumor markers [alpha-fetoprotein, beta-2-microglobulin, cancer antigen (CA) 15.3, CA 19.9, CA 72.4, and carcinoembryonic antigen] were all **within normal limits**.



Pregnancy progressed uneventfully to 40 weeks with a **term vaginal delivery** of a **healthy newborn**; **six months postpartum** the patient underwent an uncomplicated **laparoscopic right ovarian cystectomy**.



Histological diagnosis: ovarian teratoma with malignant transformation – papillary thyroid carcinoma (PTC).

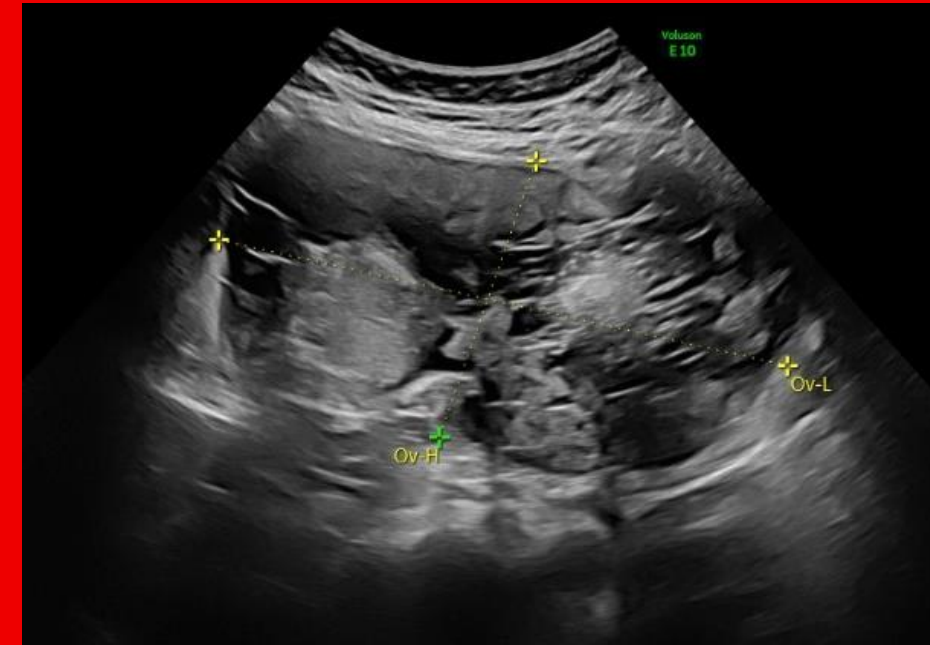


FIGURE 1. Right ovarian unilocular cystic mass on ultrasound with mixed content and acoustic shadowing, suggestive of a mature cystic teratoma.

CONCLUSION:

This case highlights the importance of recognizing the potential for malignant transformation in mature cystic teratomas. Since PTC arising from teratoma is extremely rare, further reporting of such cases is essential to better characterize its clinical and imaging manifestations.