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## Anaplastic ovarian carcinoma arising in a borderline mixed ovarian tumor associated with endometriosis: a case report

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### Introduction

Anaplastic carcinoma of the ovary is a rare cancer commonly arising from mucinous borderline ovarian tumors or mucinous ovarian carcinomas. The limited number of cases reported restricts the current understanding of the disease and its optimal management.

### Case report

A 39-year-old woman presenting with pelvic pain was referred to Our unit after detection of a unilocular cyst with atypical content in the emergency department. Expert ultrasound examination revealed a left large multilocular-solid cyst with ground-glass content measuring 93 × 101 × 104 mm. The solid component appeared heterogeneous, with acoustic shadows and moderate vascularization at Power Doppler.

A CT scan excluded additional abdominal and distant disease. Serum CA125 and CA19-9 levels were 37 and 74 U/ml respectively.

The patient underwent diagnostic laparoscopy, which was converted to an umbilical–pubic laparotomy.

The surgical procedure included left salpingo-oophorectomy, adhesiolysis, random peritoneal biopsies, infracolic omentectomy, appendectomy and peritoneal cytology.

Intraoperative frozen-section analysis revealed a malignant neoplasm with dual morphology consisting of a myxoid component composed of epithelioid and spindle cells and a glandular component with mucus-secreting epithelial cells. Final histology demonstrated an anaplastic carcinoma arising within a borderline epithelial Müllerian (mixed) tumor of the left ovary originating from endometriosis (FIGO stage IC2). The patient was considered eligible for completion surgery followed by standard adjuvant chemotherapy.

### Conclusion

This rare case illustrates the ultrasound appearance of an ovarian anaplastic carcinoma arising in an endometriosis-associated borderline Müllerian tumor. The presence of a heterogeneous, vascularized solid component within a lesion with ground-glass content should raise suspicion of malignant transformation.

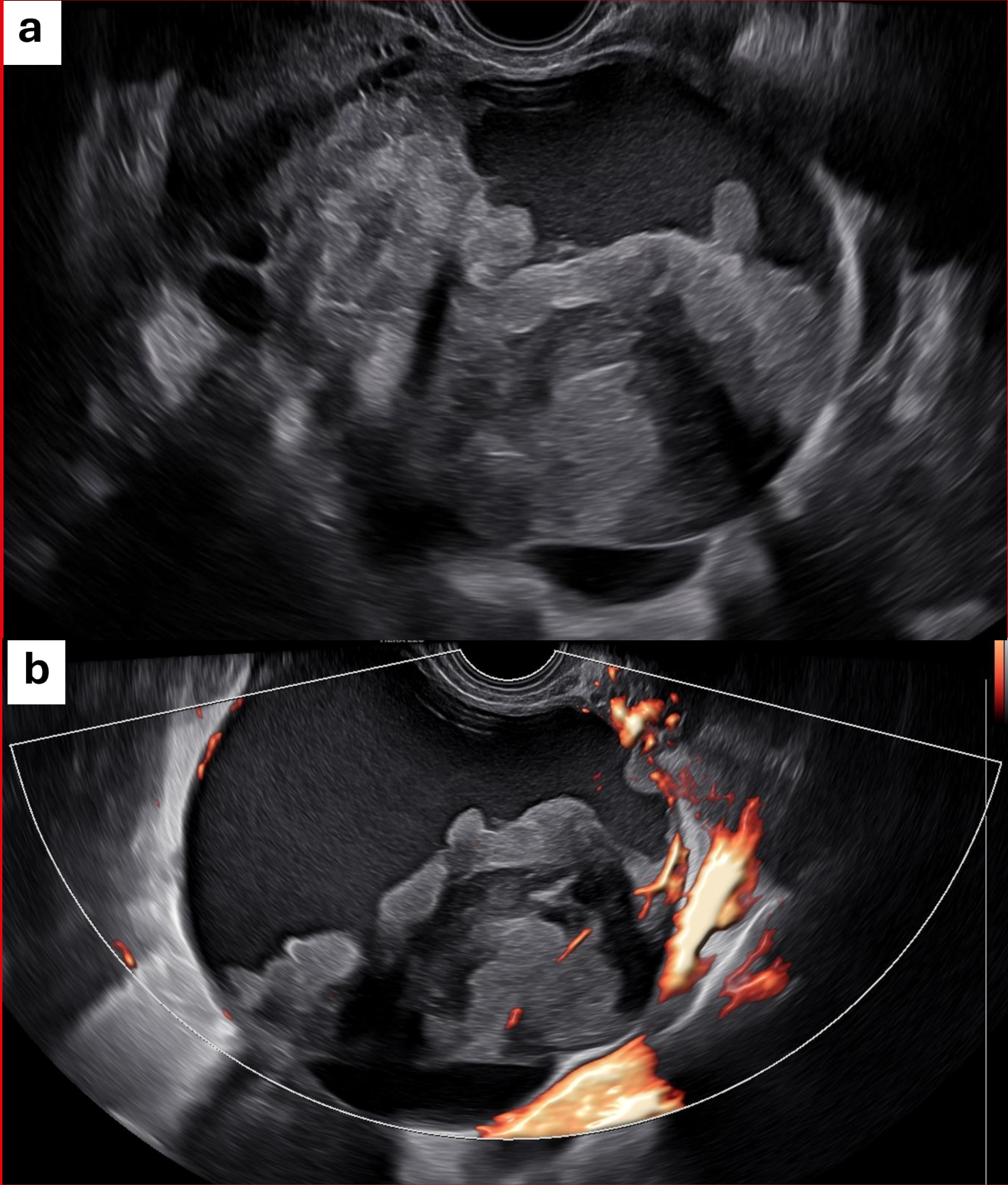


Figure 1. Ultrasound findings in grayscale (a) and power doppler (b) imaging



Figure 2. Surgical specimen