

EP02.48: Ultrasound features of ovarian microcystic stromal tumor: a rare type of ovarian tumor

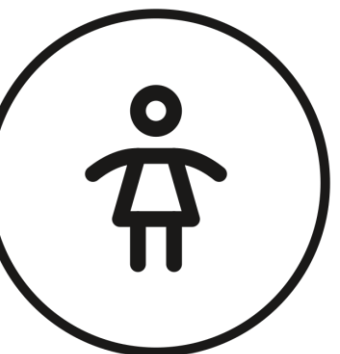
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Introduction

Microcystic stromal tumor (MCST) is a rare subtype of ovarian sex-cord stromal tumor. Although generally considered benign, rare cases of recurrence and metastasis have been described. Fewer than 60 cases have been reported worldwide and the ultrasound features of this tumor remain poorly defined.



Case

61-year-old postmenopausal woman referred for evaluation of a **right adnexal mass**, detected during routine gynecological evaluation. Initially asymptomatic; during follow-up she developed **pelvic pain**. Serum CA-125 was normal (5 U/mL) and no ascites or extra-ovarian disease was identified.



Ultrasound findings

January 2024: right ovarian solid lesion, 35 × 29 × 32 mm, mixed content, color score 2

July 2024: 42 × 32 × 46 mm, heterogeneous echotexture, mild acoustic shadowing, color score 3 with ectatic vessels (Figure 1 and 2)



Surgery and histopathology

The patient underwent laparoscopic right adnexectomy and left salpingectomy, without complications. Histopathology: stromal tumor composed of **microcystic areas within fibrous stroma**. Immunohistochemistry positive for **WT1, cyclin D1, CD10 and nuclear β-catenin**, confirming the diagnosis of **microcystic stromal tumor**.

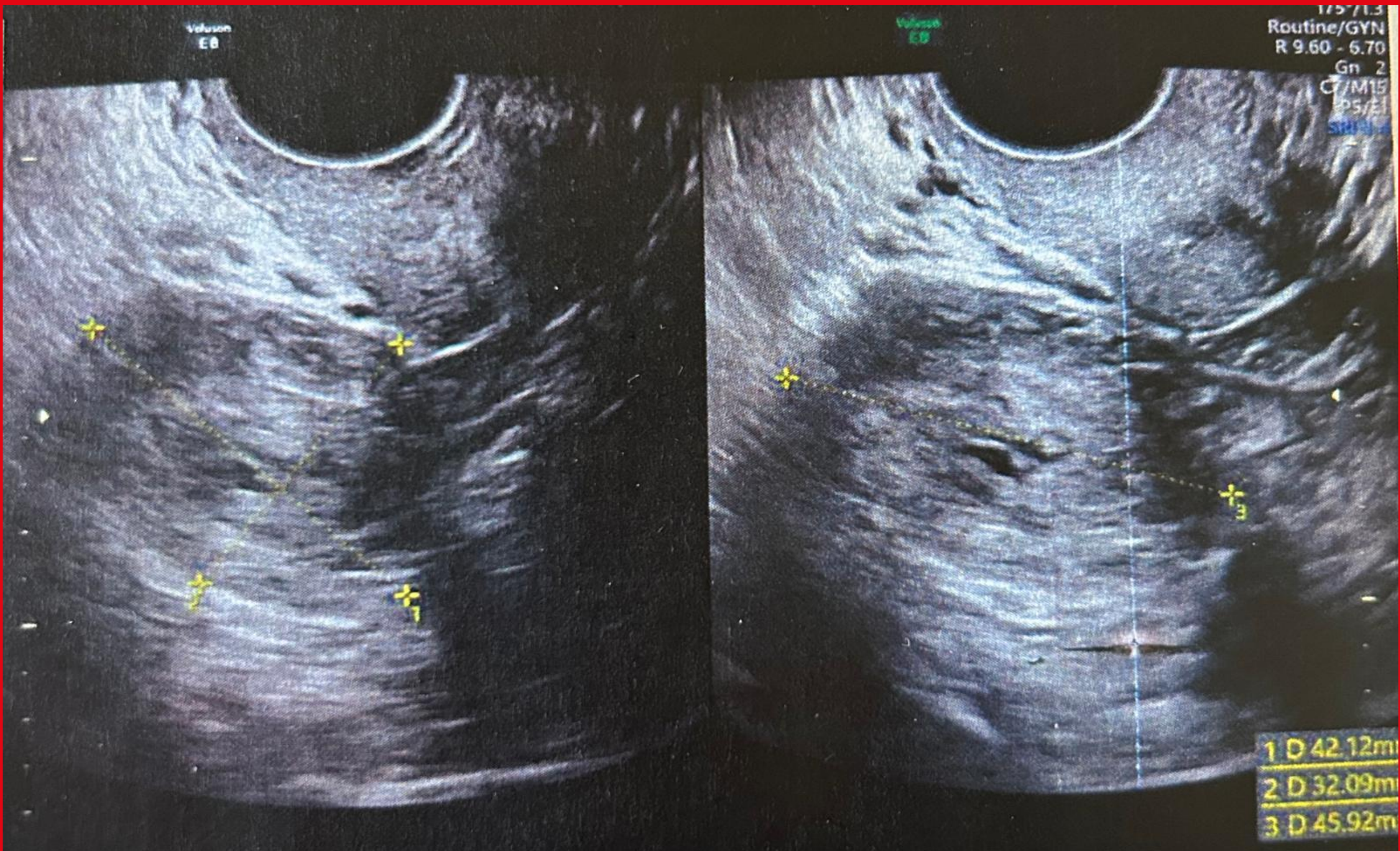


Figure 1. Follow-up transvaginal ultrasound (July 2024)

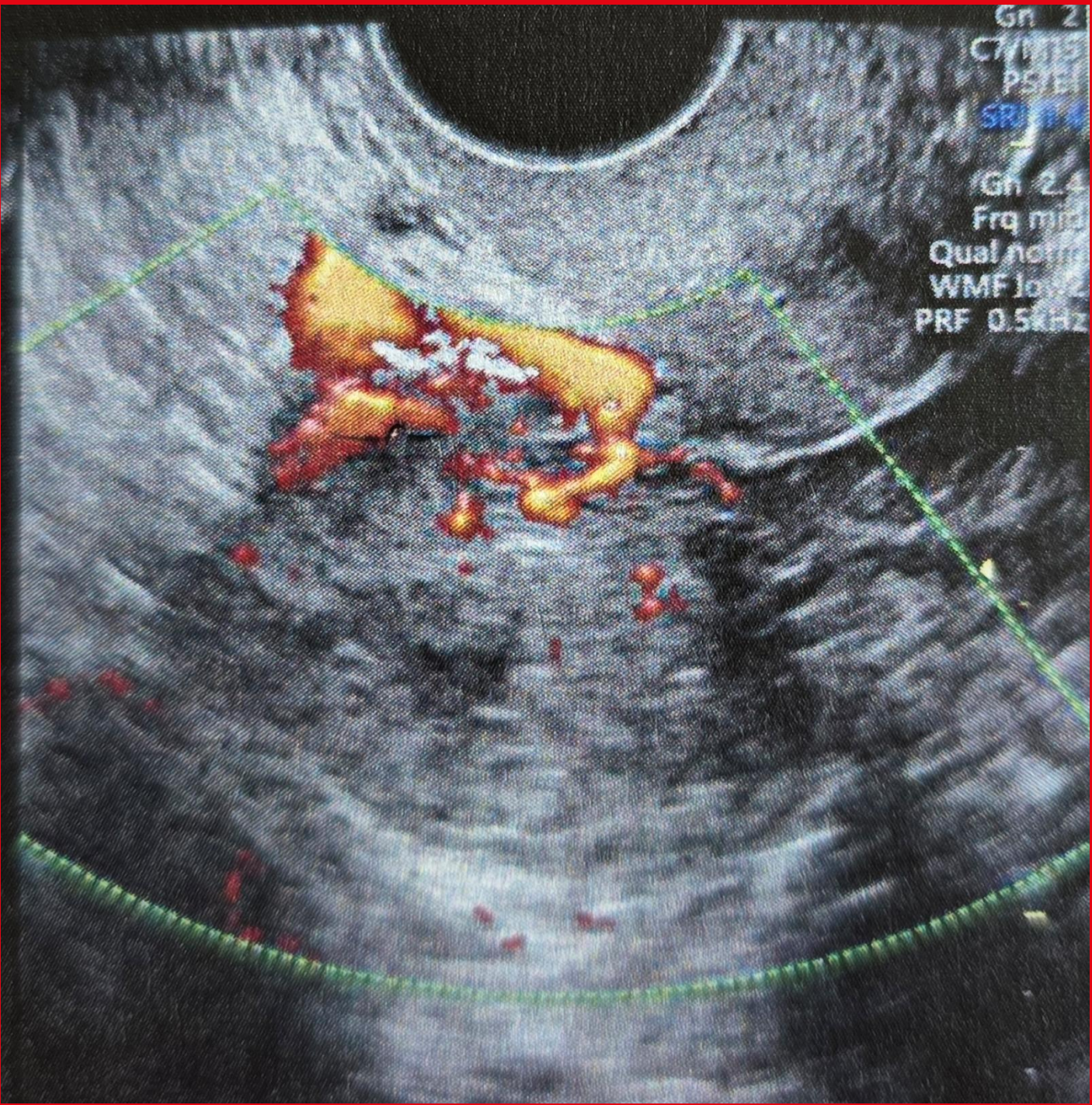


Figure 2. Color Doppler

Conclusion

This case contributes to the limited description of the ultrasound features of ovarian microcystic stromal tumor and may help improve its recognition among adnexal masses. In a postmenopausal woman, a solid adnexal lesion with growth and increasing vascularization warrants surgical management, even when CA-125 is normal.