A 38-year-old woman presented with abdominal distension of 2 months’ duration. Ultrasound and computed tomography (CT) scans revealed ascites. Ascitic fluid analysis revealed exudative fluid, with non-elevated fluid adenosine deaminase and amylase values. Cytological examination of the ascitic fluid did not reveal malignant cells. No fluorodeoxyglucose-avid lesions were observed on positron emission tomography (PET) scanning, and no abnormality was observed on either gastroscopy or colonoscopy. A peritoneal evaluation was performed by endoscopic ultrasound (EUS); however, no peritoneal lesion was observed on EUS performed from the stomach and duodenum. Rectal EUS was therefore subsequently performed, which revealed pelvic ascites, along with a well-defined echogenic nodular lesion adjacent to the parietal peritoneum of the lateral pelvic wall that, on initial evaluation, appeared to be a peritoneal deposit (Fig. 1a). Careful anatomical evaluation revealed the lesion to be anterior to the internal iliac vessels. The lesion had a central echogenic area with a peripheral hypoechoic area, with cysts of varying sizes (Fig. 1b). These morphological and anatomical features were suggestive of the left ovary. Careful evaluation also revealed a corpus luteum with echogenic contents (Fig. 1c). No abnormal enhancing peritoneal lesion was observed on contrast-enhanced EUS (CEUS), but the wall of the corpus luteum was found to be hyperenhancing, suggestive of increased vascularity (Fig. 2; Video 1).

On EUS, peritoneal deposits appear as echogenic rounded lesions surrounded...
by anechoic ascitic fluid [1, 2]. They can be visualized from the upper gastrointestinal tract, as well as on rectal EUS [3]. In the current report, a normal ovary mimicked a peritoneal deposit. However, careful evaluation of the anatomical location, as well as the sonographic appearance with the presence of follicles can help in correct identification of the ovary. In the majority of pre- and post-menopausal women, the ovaries are located immediately adjacent to the internal iliac vessels [4].

References


Competing interests

The authors declare that they have no conflict of interest.

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