A 59-year-old woman presented with weight loss and left hypochondrial discomfort that had been present for 2 weeks. Abdominal computed tomography (CT) revealed a 12 cm × 11 cm lobulated nonenhancing cystic lesion with intrinsic heterogeneous hyperdense areas (● Fig. 1) and peripheral wall calcification (● Fig. 1b). A provisional diagnosis of cystic neoplasm of the tail of the pancreas was made and the patient was referred for endoscopic ultrasound (EUS) and fine needle aspiration (FNA). EUS (3870UTK; Pentax Tokyo, Japan) revealed a cystic lesion adjacent to the pancreatic tail and continuous with the spleen (● Fig. 2a). The EUS features were characteristic for an hydatid cyst. Multiple serpentine structures (● Fig. 2b) representing collapsed membranes were seen within the cyst. A daughter cyst (● Fig. 2c) containing echogenic material was noted, and also interspersed calcifications were observed inside the cyst cavity (● Fig. 2d). The echogenic material seen inside the cyst (akin to gallbladder sludge) is termed “hydatid sand” and it settles at the most dependent portion of the cyst. FNA of cyst fluid was not done because of the risk of anaphylaxis from spillage or leak of cystic fluid during FNA [1]. An enzyme-linked immunosorbent assay (ELISA) for Echinococcus IgG antibody was positive. The patient was referred for surgery, after initiation of treatment with albendazole at a dose of 15 mg/kg bodyweight in two divided daily doses (not to exceed 800 mg/day) for 28 days.

Hydatid disease is a worldwide zoonosis caused by the Echinococcus tapeworm. Ultrasound features are characteristic although they may vary and several classifications based on the cyst appearance have been proposed [2,3]. EUS (as in our patient) can be equally effective in providing high resolution images to demonstrate characteristic cyst features when other imaging modalities are unreliable or unavailable [4]. To the best of our knowledge, this is the first such demonstration in the published literature of EUS visualization of features of an unruptured hydatid cyst.

Endoscopy_UCTN_Code_CCL_1AF_2AZ_3AD

Competing interests: None

Fig. 1 Abdominal computed tomography (CT) revealed a lobulated nonenhancing cystic lesion with: a intrinsic heterogeneous hyperdense areas; b thick peripheral wall calcification.
References

1. Neumayr A, Troia G, de Bernardis C et al. Jus-
   tified concern or exaggerated fear: the risk
   of anaphylaxis in percutaneous treatment
   of cystic echinococcosis – a systematic lit-
   erature review. PLoS Negl Trop Dis 2011; 5:
   e1154

2. Lewall DB, McCorkell SJ. Hepatic echinoc-
   cal cyst: sonographic appearance and classi-

   Ultrasound examination of the hydatid liver.
   Radiology 1981; 139: 459 – 463

   Endoscopic ultrasound in hepatobiliary
   hydatid disease. Endoscopy 2010; 42
   (Suppl. 02): E56 – E57

Bibliography

DOI http://dx.doi.org/

Endoscopy 2014; 46: E318–E319

© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

Corresponding author
Suadip Chatterjee, MD
Tata Medical Center
14–16, Main Arterial Road
Rajarhat Newtown
Kolkata 700156
India
Fax: +91-33-66057587
suvadip_chatterjee@yahoo.com

Fig. 2 Endoscopic ultrasound (EUS) appearances of a hydatid cyst. a A large cyst continuous with the spleen. b Multiple serpentine structures representing collapsed membranes were seen within the cyst cavity. c A daughter cyst with echogenic material. d Calcifications were also noted within the cyst cavity and on the cyst wall.