Rupture into the biliary tract is an unusual complication of hepatic hydatidosis seen in 1–25% of cases [1]. We present a case of hepatic hydatidosis with biliary rupture identified by endoscopic ultrasound (EUS).

A 45-year-old man presented with a 15-day history of fever, right hypochondrial pain, and jaundice. Examination revealed icterus and right hypochondrial tenderness. Investigations revealed polymorphonuclear leukocytosis and a cholestatic pattern of liver function tests. Ultrasound of the abdomen revealed an ill-defined, lobulated, 10.9-cm hyperechoic lesion in the right lobe of the liver, with dilatation of the biliary system up to the lower end of the common bile duct (CBD). The possible diagnoses were choledocholithiasis with cholangiolitic abscess or hepatic hydatidosis. EUS (Pentax 3630 UR and 3870 UTK, Pentax Corp., Tokyo, Japan) revealed a dilated CBD with floating membranes (● Fig. 1 and ● Videos 1, 2). On endoscopic retrograde cholangiography (ERC), linear filling defects were noted within the dilated CBD (● Fig. 2). Biliary sphincterotomy and balloon sweeping of the CBD resulted in expulsion of the bile-stained hydatid membranes (● Fig. 3). An occlusion cholangiogram showed contrast entering a cavity in the liver (● Fig. 4). A 7-Fr, double pigtail plastic stent was placed close to the cavity in the CBD to facilitate drainage. The patient’s condition
improved with intravenous antibiotics and albendazole, and a follow-up ultrasound 1 week later revealed a decrease in cyst diameter to 4 cm.

Hydatid disease with biliary rupture may be diagnosed by abdominal ultrasound, computed tomography (CT) or magnetic resonance imaging (MRI) in the presence of clinical features of obstructive jaundice or cholangitis [1, 2]. EUS, which can demonstrate the presence of mobile hydatid membranes or cystlike material, may be useful when other imaging modalities are unreliable or unavailable. ERC with sphincterotomy and CBD clearance/stenting has been recommended for managing biliary obstruction and cholangitis [2].

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Fig. 4 Cholangiogram showing contrast entering a cystic cavity in the liver.