A 66-year-old man presented with right upper quadrant pain and progressive dyspnea for 2 days. He had history of chronic obstructive pulmonary disease and chronic kidney disease. On admission, he was febrile and had sinus tachycardia. Laboratory findings showed an elevated white blood cell count of 18.01 × 10^9/L with 92.1% neutrophils. Liver function tests revealed normal alanine aminotransferase (14 U/L [3–37 U/L]), normal total bilirubin (0.6 mg/dL [0–1.0 mg/dL]), and elevated alkaline phosphatase (157 U/L [39–120 U/L]). Ultrasonography showed a big encapsulated cystic lesion in right upper quadrant of abdomen, with amorphous echogenic material within the lesion. The gallbladder was small in size and a 0.9-cm gallstone was noted (Fig. 1).

An abdominal computed tomography (CT) scan revealed a hepatic subcapsular cystic lesion, which was communicating with the gallbladder (Fig. 2).

Infection was initially controlled by percutaneous drainage of the lesion and administration of antibiotics. However, due to concern about the high surgical risk of the patient and the persistent large amounts (500–600 mL/day) of bile recovered from the percutaneous drainage, an endoscopic retrograde cholangiography (ERC) with endoscopic nasobiliary drainage (ENBD) was carried out, which showed extravasation of contrast medium from the gallbladder into the perihepatic area (Fig. 3).

After this procedure, the amount of bile in the percutaneous drainage decreased gradually. Two weeks later, ERC via ENBD revealed cessation of leakage (Fig. 4).

The patient was discharged uneventfully after removal of the catheters.

Gallbladder perforation is a rare but life-threatening condition and usually caused by acute cholecystitis or trauma. Niemeier classified gallbladder perforation as: free perforation to the peritoneal cavity (type I); pericholecystic abscess or localized perforation (type II); and cholecystoenteric fistula (type III) [1]. The therapeutic modalities include percutaneous gallbladder drainage and open cholecystectomy. A previous report has even demonstrated successful treatment of post-traumatic...
gallbladder perforation by endoscopic biliary stent placement [2]. Our case presented a rare complication of gallbladder perforation, which was treated successfully with EBND.

**Competing interests:** None

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