Endoscopic ultrasound (EUS)-guided rendezvous is a feasible and safe technique to provide biliary access when endoscopic retrograde cholangiopancreatography (ERCP) fails [1,2]. Recently, EUS-guided gallbladder stent deployment has been used as an alternative drainage method [3]. Local treatment of biliary perforations aims to divert bile and allow spontaneous wound healing [4]. We describe a modified biliary rendezvous technique using a transmural gallbladder stent.

A 41-year-old woman presented with upper abdominal pain, nausea, and vomiting. Laboratory tests showed abnormal liver function tests, with normal bilirubin, and abdominal ultrasound displayed gallstones and a dilated common bile duct (CBD). EUS revealed choledocholithiasis (Fig. 1). During ERCP, a prophylactic plastic stent was placed due to inadvertent guidewire insertion into the pancreatic duct. However, after five attempts of biliary cannulation, intraprocedural perforation (Stapfer type II) was suspected. To avoid biliary leakage, EUS-guided gallbladder drainage was performed, using a linear echoendoscope, and a lumen-apposing metal stent (Hot AXIOS, 15 × 10 mm; Boston Scientific, Marlborough, Massachusetts, USA) was deployed between the duodenal bulb and the gallbladder (Fig. 2). Following the procedure, the patient was started on intravenous antibiotics. The patient showed clinical improvement in a few days, although mild cholestasis was still observed at discharge.

As shown in Video 1, a second procedure was performed. Using a gastroscope, under fluoroscopic control, a hydrophilic 0.035 inch guidewire was introduced through the gallbladder lumen until the papilla was reached (Fig. 3, Fig. 4). The duodenoscope was then introduced over the guidewire and biliary cannulation and sphincterotomy were achieved (Fig. 5). No remaining choledocholithiasis was observed. During the same procedure, the stent was removed with a biliary stent extractor and the transmural tract was closed using an over-the-scope clip (OTSC System Set 12/6 mm, type t; Ovesco Endoscopy AG, Tübingen, Germany). After stent removal, the patient was referred for cholecystectomy.

Competing interests

The authors declare that they have no conflict of interest.
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