Endoscopic ultrasound-guided rendezvous for access to the right posterior bile duct in a surgical candidate

Endoscopic ultrasonography-guided rendezvous technique (EUS-RV) includes two approaches: the intrahepatic and extrahepatic bile duct approaches from the stomach and duodenum, respectively [1,2]. However, the technique is impractical when drainage is required for right hepatic bile duct obstruction. Percutaneous transhepatic biliary drainage has a possible risk of tumor seeding in a patient with cholangiocarcinoma; therefore, it is not recommended for surgical candidates [3–5]. We present a case of successful drainage of the obstructed right posterior bile duct using EUS-RV (Video 1).

A 63-year-old woman was admitted with acute cholangitis. Contrast-enhanced computed tomography revealed Bismuth-Corlette type 4 perihilar cholangiocarcinoma. The surgeons recommended left trisectionectomy. Drainage for the right posterior bile duct was required because the posterior segment of the liver was the future remnant lobe. Transpapillary insertion of the endoscopic nasobiliary drainage tube was attempted. However, this procedure failed, despite the combination of a hydrophilic guidewire and steerable or double-lumen catheter, although biliary cannulation was achieved (Fig. 1). We exchanged the duodenoscope for a linear EUS scope and inserted it into the duodenal bulb. The dilated posterior bile duct was then punctured using a 19-gauge needle (Fig. 2, Fig. 3). A 0.025-inch guidewire was manipulated into the duodenum via the obstruction site and ampulla. The EUS scope was removed with the guidewire left in place. The duodenoscope was reinserted where the EUS-placed guidewire passed from the ampulla. The distal end of the guidewire was grasped with a snare and pulled out through the accessory channel (Fig. 4). A catheter was inserted over the guidewire, and finally, a nasobiliary drainage tube was placed in the posterior bile duct (Fig. 5). No adverse event was encountered, and cholangitis and jaundice subsided.

EUS-RV can be useful, especially when drainage for the isolated right hepatic duct is needed in patients scheduled for surgery.

Competing interests

None
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