A 36-year-old woman developed jaundice, fever, and biliary leak after laparoscopic cholecystectomy. Endoscopic retrograde cholangiopancreatography (ERCP) (Video 1) identified massive extravasation of contrast into the peritoneum through a large fistula, without filling of the proximal biliary tract (Fig. 1). Cholangioscopy (SpyGlass; Boston Scientific Corp., Marlborough, Massachusetts, USA) showed the confluence between the hepatic and cystic ducts, and the peritoneal space was accessed through a complete transection of the hepatic duct (Fig. 2), with identification of the percutaneous surgical catheter and the liver. The proximal aspect of the transected hepatic duct could not be found with the cholangioscope. Using endoscopic ultrasound (EUS), the proximal and distal segments of the extrahepatic bile duct were identified, separated by a 1.5-cm-diameter collection. Transgastric puncture of the intrahepatic bile duct with a 22-G needle was performed, hindered by lack of duct dilation. A 0.018-inch guidewire was advanced anterogradely through the transection into the distal common bile duct and duodenum. The EUS-guided rendezvous was finally completed and an 80 × 10-mm fully covered metal stent was deployed in the subsequent ERCP (Fig. 3). The proximal end was placed immediately distal to the biliary confluence and the distal end into the duodenal lumen, securing bilateral biliary drainage. The patient’s jaundice resolved within a few days, and 6 months after discharge the patient remains asymptomatic.

Complete transection of the common bile duct is a severe complication of hepatobiliary surgery which usually requires subsequent open surgical treatment by means of Roux-en-Y hepaticojejunostomy or choledochojejunostomy. However, successful management with a less invasive percutaneous approach or a combination of percutaneous and endoscopic approaches has also been described [1–4]. EUS-guided rendezvous is commonly indicated in patients with an accessible papillary area where cannulation is not feasible [5]. We report a case in which extrahepatic bile duct transection was successfully managed with a purely endoscopic approach combining EUS-guided rendezvous and ERCP, which, so far as we know, has not been described previously.
Competing interests

Dr. Juan J. Vila is a consultant for Boston Scientific and has lectured for Olympus and Cook Endoscopy. The other authors declare that they have no conflict of interest.

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