Side-by-side dual echoendoscope and ultrathin endoscopy to facilitate EUS–ERCP biliary rendezvous

Endoscopic ultrasound (EUS)-guided biliary access is performed when standard endoscopic retrograde cholangiopancreatography (ERCP) techniques fail and for inaccessible papillae [1]. EUS rendezvous requires passage of the guide wire into the duodenum, with subsequent removal of the echoendoscope and insertion of a second endoscope to grasp the distal end of the wire. During echoendoscope withdrawal, the position of the guide wire is tenuous. We describe EUS rendezvous whereby passage of a small-caliber endoscopy alongside the echoendoscope stabilizes the position of the guide wire.

A 67-year-old man presented with biliary and duodenal obstruction due to unresectable pancreatic cancer. An uncovered gastroduodenal stent was placed, but the papilla could not be identified through the interstices because of tumor infiltration (Fig. 1). A linear echoendoscope (UC140P-AL5; Olympus America, Center Valley, Pennsylvania, USA) was used to achieve biliary access with a 19-gauge fine-needle aspiration needle (EUSN-3; Cook Endoscopy, Winston-Salem, North Carolina, USA). A 0.025-inch hydrophilic guide wire was then advanced and coiled within the duodenum. The echoendoscope was withdrawn. Unfortunately, looping during insertion of the duodenoscope resulted in the guide wire being dislodged from the duodenum and bile duct. The echoendoscope was reinserted with biliary access and duodenal passage of the guide wire again achieved. The echoendoscope remained in place to ensure the guide wire remained in position while a 5.4-mm endoscope (Olympus) was inserted alongside and passed into the duodenum (Fig. 2). The wire was grasped with a pediatric biopsy forceps and the endoscope and wire were withdrawn followed by withdrawal of the echoendoscope, leaving both ends of the wire exiting the mouth. Using fluoroscopic guidance alone, gentle traction of the guide wire allowed balloon dilation of the stent interstices and biliary stricture and placement of a self-expandable metal stent (Fig. 3).

In type-II combined duodenal and biliary obstruction (as defined by Mutignani et al. [2]), the transpapillary approach often fails and EUS-guided drainage is the only
endoscopic option to relieve jaundice [3]. We believe this side-by-side dual endoscopic technique greatly facilitates EUS–ERCP rendezvous procedures as needed in this case.

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**Competing interests:** Olympus, ConMed, Cook, Boston Scientific (Dr. Baron); Olympus, Dr. Levy.

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**References**
3 Baron TH. Management of simultaneous biliary and duodenal obstruction: the endoscopic perspective. Gut Liver 2010; 4: 50–56