A 75-year-old woman underwent emergent Billroth I gastrectomy for perforated peptic ulcer. Postoperatively, she developed progressive jaundice (total bilirubin 13 mg/dL). Abdominal CT scan showed moderate bile duct dilatation and abrupt transition of the proximal common bile duct to a normal caliber, with a small subhepatic fluid collection. ERCP showed extravasation of contrast from the common bile duct into the subhepatic space with no connection to the proximal biliary system (● Fig. 1). Percutaneous transhepatic cholangiography (PTC) showed complete obstruction of the proximal common bile duct (● Fig. 2). A biliary drainage catheter was advanced across the obstruction into the subhepatic space.

The next day a combined procedure was performed in the radiology suite with the patient supine and under general anesthesia. An ERCP was performed and the bile duct was cannulated. An angled 0.035-inch hydrophilic wire (Glidewire; Boston Scientific Corporation, Natick, Massachusetts, USA) was passed into the subhepatic space. From the percutaneous approach, a snare (Angiotech Medical Technologies, Gainesville, Florida, USA) was inserted through a sheath and used to grasp the endoscopic wire (● Figs. 3 and 4), which was then withdrawn externally. A 12-French catheter was inserted percutaneously (● Figs. 5 and 6) and internal biliary drainage was established. Six weeks later an elective open hepaticojejunostomy was performed.

Nonoperative management of complete bile duct transection is difficult but has been described. Although combined endoscopic and percutaneous methods are well known, the use of a common pathway outside the biliary tree to allow reconnection has been infrequently reported [1, 2]. This modified rendezvous technique was performed with simultaneous endoscopic and percutaneous approaches and is useful for the nonoperative man-
agement of bile duct transection. In this case it allowed an elective, delayed reconstructive operation in a healed surgical bed, and also established physiologic internal biliary drainage, avoiding the nutritional and metabolic complications of external biliary diversion.

Competing interests: None

References

Bibliography
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