Extra-anatomical intraduodenal endoscopic–radiologic biliary rendezvous for treatment of iatrogenic complete stenosis of the common bile duct

A 38-year-old woman who had undergone laparoscopic cholecystectomy 6 months earlier developed an iatrogenic biliary fistula with partial stenosis of the CBD. A biliary fully covered self-expanding metallic stent (FCSEMS) was placed for 2 months, but jaundice and pain recurred 3 months after its removal. Occlusive endoscopic retrograde cholangiography revealed complete stenosis at the mid CBD (Fig. 1).

A guidewire was maneuvered to perforate the CBD at a point distal to the stricture, and percutaneous transhepatic cholangiographic guidance was used to perforate the hepatic duct with a guidewire at a point proximal to the stricture (Fig. 2). However both guidewires tended to advance in the direction of the duodenal bulb, and several attempts to achieve a rendezvous in the subhepatic space failed. Therefore, we then advanced both guidewires along the preferential route to reach the duodenal bulb through the same hole, created by the guidewire (Fig. 3a), thus avoiding significant duodenal injury. Next, with a Dormia basket that had been inserted endoscopically, the proximal guidewire was grasped (Fig. 3a, Fig. 3b) and constant, controlled traction was applied to extra-anatomically establish continuity of the biliary tree (Fig. 4a, Fig. 4b, Fig. 4c). An FCSEMS (Wallflex; Boston Scientific, Natick, Massachusetts, USA) was delivered for definitive treatment and scheduled to be replaced after 6 months (Fig. 5). The patient was discharged...
from the hospital the next day on a normal diet.

Endoscopic–radiologic reconstruction of an injured bile duct is a feasible and safe technique that spares the patient the major surgery of biliary reconstruction. We report here the first case of extra-anatomical (i.e., intraduodenal) rendezvous to re-establish biliary continuity in a patient with an iatrogenic complete stricture. This report should encourage the use of other alternative methods, such as “pure EUS-guided endoscopic biliary rendezvous,” that make it possible to avoid the step of subhepatic rendezvous, which has been problematic until now.

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