Another option for biliary access in post-bypass patient: intentional disruption of a gastric staple line

Obese and post-Roux-en-Y gastric bypass (RYGB) patients are at increased risk of cholelithiasis and associated biliary disorders [1–3]. Because of the complicated postsurgical anatomy, endoscopic retrograde cholangiopancreatography (ERCP) may be more difficult, requiring deep enteroscopy or laparoscopic assistance. We report a case of intentional disruption of the gastric remnant-excluded stomach staple line to gain access to the duodenum for treatment of choledocholithiasis.

A 72-year-old woman with past medical history of recent four-vessel cardiac artery bypass, oxygen-dependent chronic obstructive pulmonary disease, dialysis-dependent end-stage renal disease, and a Roux-en-Y gastric bypass (with cholecystectomy) 30 years ago was admitted at a local hospital with gallstone pancreatitis. She was treated with typical therapy and clinically improved, but on hospital day 3 she was noted to have a persistently elevated total bilirubin of 2.7 mg/dL. Magnetic resonance cholangiopancreatography (MRCP) showed a dilated common bile duct (12 mm) with choledocholithiasis. ERCP was attempted at the local facility, but failed as the jejun-jejunal anastomosis could not be reached, prompting transfer to our facility.

On repeat ERCP, we accessed to the jejun-jejunal anastomosis, which was deep-
Intubated to 60 cm, but could not be advanced to the level of the papilla. On removing the colonoscope, scant bile was noted in the gastric pouch. After probing with a sphincterotome, a small fistula tract was noted between the gastric pouch and the excluded stomach along the staple line (Fig. 1), verified fluoroscopically by wire and contrast injection (Fig. 2). The fistula was then sequentially dilated to 18 mm with CRE balloons (Boston Scientific, Cork, Ireland) (Fig. 3). A duodenoscope was then advanced through the fistula tract and excluded stomach to a normal appearing ampulla. The duct was then deeply cannulated using a wire first technique with subsequent contrast injection revealing a dilated common bile duct to 12 mm with choledocholithiasis (Fig. 4). Following a 15-mm sphincterotomy, the duct was swept removing multiple brown pigmented stones (Fig. 5). The fistula tract from the gastric pouch to the excluded stomach was not closed to allow repeat access if necessary. The patient did well and recovered from the episode.

Post-RYBG anatomy can make ERCP difficult, occasionally requiring deep-enteroscopy techniques or laparoscopic assistance to evaluate and treat biliary disorders. Here we have presented a case of intentionally disrupting the staple line excluding the bypassed stomach in a post-RYGB patient to facilitate therapeutic ERCP.

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References

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Fig. 5 Stone extraction.