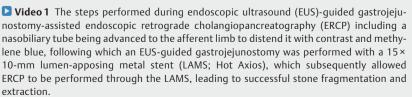
Endoscopic ultrasound-guided gastrojejunostomy-assisted ERCP in a Billroth II gastrectomy patient

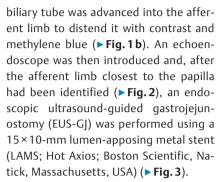
An 85-year-old man who had previously undergone a Billroth II gastrectomy was admitted because of biliary sepsis due to choledocholithiasis. An urgent percutaneous cholecystostomy was performed and endoscopic retrograde cholangiopancreatography (ERCP) was requested. The afferent limb was however not accessible with either the duodenoscope or a therapeutic gastroscope because of the sharp angulation and a long

afferent limb (> Fig. 1 a). An 8.5-Fr naso-

▶ Fig. 1 Radiographic images during endoscopic retrograde cholangiopancreatography showing: **a** the afferent limb; **b** an 8.5-Fr nasobiliary tube in the afferent limb.

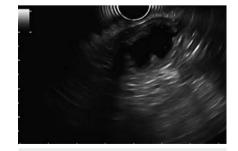




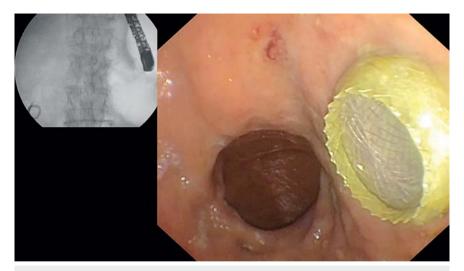


A week later an ERCP was performed through the LAMS (>Fig.4). Sphincterotomy was performed with a sphincterotome (Autotome: Boston Scientific) rotated 180°. Several stones were extracted; however, one was impacted at the papilla. An electrohydraulic lithotripsy (EHL) probe was introduced through the extractor balloon and fragmentation of the stone was performed while saline was injected continuously. Fragmentation of the stones was completed using an intraductal cholangioscope (Spy-Glass; Boston Scientific) and, following 15-mm papillary large-balloon dilation, all of the stones were successfully removed (► Video 1).

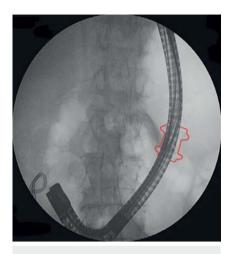
In patients with previous gastric surgery, such as Roux-en-Y gastric bypass, EUS-GI has been shown to be effective for access to the bile duct, with greater technical and clinical success than ERCP by enteroscopy [1]. To date, its use in patients with a Billroth II gastrectomy has not been de-



▶ Fig. 2 Endoscopic ultrasound image showing the afferent limb distended with saline, methylene blue, and contrast.



▶ Fig. 3 Endoscopic image (inset radiographic image) showing the lumen-apposing metal stent in the stomach forming a gastrojejunostomy.



▶ Fig. 4 Radiographic image during the second endoscopic retrograde cholangio-pancreatography procedure a week later showing the duodenoscope passing through the lumen-apposing metal stent.

scribed. In most cases, access to the afferent limb is possible by duodenoscope, therapeutic gastroscope, or enteroscope [2]; however, in some cases this is not possible. In our patient, the sharp angle, in addition to the length of the limb, prevented the duodenoscope or the gastro-

scope moving beyond the entrance to the limb. In this context, the creation of a bridging EUS-GJ allowed the performance of ERCP successfully and without adverse effects.

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Competing interests

Dr. Aparicio Tormo has provided consultancy services for Boston Scientific.

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References

- [1] Bukhari M, Kowalski T, Nieto J et al. An international, multicenter, comparative trial of EUS-guided gastrogastrostomy-assisted ERCP versus enteroscopy-assisted ERCP in patients with Roux-en-Y gastric bypass anatomy. Gastrointest Endosc 2018; 88: 486–494
- [2] Park TY, Song TJ. Recent advances in endoscopic retrograde cholangiopancreatography in Billroth II gastrectomy patients: A systematic review. World J Gastroenterol 2019; 25: 3091–3107

Bibliography

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