Endoscopic choledochoduodenostomy by lumen-apposing metal stent in jaundice recurrence after transpapillary metal stent placement

Endoscopic ultrasound-guided choledochoduodenostomy (EUS-CD) with placement of an electrocautery-enhanced lumen-apposing metal stent (EC-LAMS) has been increasingly used as an alternative treatment option in patients with distal malignant biliary obstruction and failed endoscopic retrograde cholangiopancreatography (ERCP) [1–3].

We report two cases of patients who have been referred to our unit for recurrence of obstructive jaundice after previous successful transpapillary metallic stent placement for distal malignant biliary obstruction.

Case 1 was a 90-year-old woman with previous placement of a transpapillary, partially covered, biliary, self-expandable metal stent (SEMS; 40 × 10 mm) for ampullary cancer, who presented 8 months later with recurrence of obstructive jaundice.

Deep biliary cannulation by ERCP was impossible because of neoplastic duodenal infiltration, and proximal migration of the biliary SEMS was evident at fluoroscopy. EUS-guided antegrade rendezvous was unsuccessfully attempted following failure to advance the guidewire through the biliary stenosis into the duodenum.

EUS-CD was then performed by transbulbar EC-LAMS (Hot Axios, 6 × 8 mm; Boston Scientific, Marlborough, Massachusetts, USA) placement despite the presence of the biliary SEMS.

Case 2 was an 81-year-old man with unresectable pancreatic cancer and previous placement of a biliary, uncovered SEMS (60 × 10 mm), who presented after 9 months with gastric outlet obstruction and recurrence of obstructive jaundice. ERCP failed due to the presence of duodenal stenosis (Fig. 1). Therefore biliary drainage by a transbulbar EC-LAMS (6 × 8 mm) was performed despite the presence of the indwelling biliary SEMS (Fig. 2, Fig. 3). Duodenal SEMS (22 × 60 mm Wallflex Enteral; Boston Scientific) was then placed during the same endoscopic session (Fig. 4, Video 1).

No procedure-related adverse events were reported and a significant decrease in total bilirubin level was registered in both patients.

Video 1 Endoscopic ultrasound-guided choledochoduodenostomy by electrocautery-enhanced lumen-apposing metal stent and duodenal stent placement for biliary and duodenal malignant obstruction despite indwelling biliary self-expandable metal stent.
To our knowledge, these are the first cases of transduodenal LAMS placement for bile duct drainage conducted in patients with an indwelling biliary SEMS. Although the presence of a previously placed biliary SEMS could be considered a contraindication to the transluminal EUS-guided approach, the EC-LAMS system seemed to be helpful in overcoming possible technical difficulties, allowing a safe and effective procedure even in such complex conditions.

References


Competing interests

None

The authors

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