Rescue endoscopic therapy after malfunctioning choledochoduodenostomy in patient with malignant distal biliary obstruction

Endoscopic ultrasound-guided choledochoduodenostomy (EUS-CD) using a lumen-apposing metal stent (LAMS) has recently been reported as an alternative approach after failure of endoscopic retrograde cholangiopancreatography (ERCP) in patients with malignant obstructive jaundice [1]. Here, we report the case of an 83-year-old man affected by obstructive jaundice (total bilirubin 25 mg/dL, predominantly direct) due to advanced pancreatic head cancer with gallbladder in situ. He underwent ERCP; however, it was not possible to cannulate the common bile duct (CBD) because of serrated stenosis, and therefore EUS-CD was performed. From the duodenal bulb view, the CBD had a diameter of about 20 mm above the pancreatic mass, and no interposing vessels on Doppler flow were present. An 8 × 8 mm LAMS (Hot Axios; Boston Scientific, Marlborough, Massachusetts, USA) was directly deployed, creating an EUS-CD with initial good biliary drainage into the duodenum. A computed tomography scan confirmed the correct positioning of the stent, which, together with subsequent decompression of the CBD, resulted in improvement in cholestasis parameters. Nevertheless, 2 days later, obstructive jaundice worsened. Cholangiography with sphincterotome through the LAMS revealed CBD decompression and the LAMS distal flange located close to the contralateral CBD wall, hampering biliary drainage. A 10 × 40 mm uncovered self-expandable metal stent (SEMS; Wallflex; Boston Scientific) was placed inside the LAMS with its proximal edge in the common hepatic duct, restoring a functional axis, and allowing biliary drainage (▶ Fig. 1, ▶ Video 1). The patient remained in a satisfactory clinical condition with progressive resolution of obstructive jaundice and was referred for outpatient oncologic treatment. After 4 weeks of follow-up, laboratory tests revealed that total bilirubin levels had returned to normal (1.2 mg/dL). In conclusion, the “SEMS in LAMS technique” can be considered as rescue therapy after malfunctioning EUS-CD. Placement of the uncovered SEMS within the LAMS restored the functional axis, thus avoiding both risk of stent misplacement and cholecystitis.

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▶ Fig. 1 Fluoroscopic image showing complete biliary drainage after self-expandable metal stent placement inside the lumen-apposing metal stent.

▶ Video 1 Rescue endoscopic therapy – self-expandable metal stent placement inside the lumen-apposing metal stent – after malfunctioning choledochoduodenostomy in a patient with malignant distal biliary obstruction.
Competing interests

None

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