Surgical removal of a hepaticogastrostomy stent because of its recurrent dislocation into the esophagus

For endoscopic ultrasound-guided hepaticogastrostomy (EUS-HGS), an echoendoscope is advanced to the gastric cardia to puncture the ducts in segment 2 or 3 (B2 or B3) [1]. As proximal migration of a stent can be fatal, endoscopists usually prefer to use a long stent [2, 3]. We describe a case in which an HGS metal stent was surgically removed because of its recurrent dislocation into the esophagus, with accompanying vomiting.

A 68-year-old woman with hilar cholangiocarcinoma presented with cholangitis. An endoscopic retrograde cholangiopancreatography (ERCP) was performed, but after insertion of bilateral metal stents (8 mm × 8 cm; LCD Biliary, Taewoong, Korea) into the right anterior and B3 ducts, the B2 duct still showed isolated dilatation and the patient continued to have fever and jaundice. Endoscopic ultrasound (EUS)-guided antegrade stenting (8 mm × 6 cm; LCD Biliary, Taewoong, Korea) of the B2 duct across the previously inserted stent was therefore performed. An EUS-HGS was also performed using a fully covered metal stent (6 mm × 10 cm; Bonastent Biliary, Standard Sci Tech Inc., Korea) (Fig. 1). Following the stenting and HGS procedure, the patient’s symptoms improved, but the HGS stent migrated into the esophagus, which was accompanied by vomiting (Fig. 2). At first, the stent was pushed back into the gastric cavity using forceps; however, the patient experienced recurrent vomiting and radiographic imaging showed repeat stent dislocation into the esophagus. In an attempt to prevent further stent dislocation, another fully covered metal stent was inserted through the previous stent; however, dislocation still occurred. We then tried to anchor the stent to the stomach by placing a double-pigtail plastic stent (5 Fr × 7 cm, Zimmon; Cook Medical, USA) at the distal tip of the HGS stent (Fig. 3). Instead of providing anchorage however, the metal stent migrated into the stomach (Fig. 4). Therefore, we removed the plastic stent. Finally, the HGS stent was removed during a laparoscopy (Video 1). After stent removal, the patient no longer experienced vomiting.

Endoscopists should be aware of this adverse event before performing EUS-HGS.

Competing interests

None
The authors

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References


Video 1 Laparoscopic removal of the hepaticogastrostomy stent after dissection, with the fistula between the stomach and the liver being closed surgically.

Fig. 4 Abdominal radiograph showing proximal migration of hepaticogastrostomy stent owing to the anchoring plastic stent (arrow).

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