A novel technique for stent dysfunction after endoscopic ultrasound-guided hepaticogastrostomy with antegrade stenting

Recently, endoscopic ultrasound-guided hepaticogastrostomy (EUS-HGS) has been developed as a new drainage technique for malignant biliary obstruction; however, a high adverse event rate has been reported [1]. Stent migration is a serious adverse event. The use of long stents in EUS-HGS is therefore recommended to prevent this complication [2]. However, when a long stent is placed in the gastrointestinal lumen, re-intervention at the time of stent dysfunction can be challenging; several re-intervention techniques have been reported [2–4]. We present a case using a successful simple re-intervention technique for stent dysfunction after EUS-HGS combined with antegrade stenting.

A 67-year-old man with advanced gastric cancer presented with a recurrence of jaundice 6 months after undergoing EUS-HGS combined with antegrade stenting for distal biliary obstruction. An 8 × 100-mm covered metal stent had been deployed during EUS-HGS (▶Fig. 1).

Because his cholangitis was classified as moderate according to the Tokyo Guideline [5], urgent biliary drainage was attempted. First, a therapeutic duodenoscope was advanced to the EUS-HGS site. Second, a guidewire was advanced through the EUS-HGS and antegrade stents; it was successfully passed via the ampulla into the duodenum (▶Fig. 2). Finally, a 6-Fr endoscopic nasobiliary drainage (ENBD) tube (Flexima; Boston Scientific, Marlborough, Massachusetts, USA) that had been self-adjusted with side holes opened with a hole puncher up to 25 cm from the tip was placed through the HGS and antegrade stents with its tip located in the duodenum (▶Fig. 3). The patient’s cholangitis resolved within a few days. A week after the procedure, the ENBD tube was cut in the gastric lumen using a loop cutter (Olympus, Tokyo, Japan) for internalization (▶Fig. 4; ▶Video 1).

Currently, >6 months have passed, and the patient is continuing chemotherapy without stent dysfunction. This novel re-intervention technique is simple and...
could be useful for stent occlusion after EUS-HGS combined with antegrade stenting.

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Competing interests

None

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