Transmural cystoscopy with an ultra-slim basket for migrated stent removal after endosonography-guided hepatic cyst drainage

A 55-year-old woman with a huge hepatic cyst was admitted because of abdominal pain, fever, and jaundice. Computed tomography suggested cyst infection and cholestasis due to obstructed bile ducts (Fig. 1). Because surgical or percutaneous interventions were refused, endoscopic ultrasound (EUS)-guided drainage with double-guidewire technique [1] was attempted via the stomach. However, the gastric end of a 7-Fr double-pigtail plastic stent was misplaced in the peritoneal cavity. Although a fully covered metal stent was deployed over another guidewire to catch the double-pigtail plastic stent in the cyst, the hepatic end of the fully covered metal stent was misplaced in the peritoneal cavity again (Fig. 2). Following additional EUS-guided drainage with an external tube from the duodenal bulb, a standard endoscope was inserted into the peritoneal cavity through the fully covered metal stent, but the double-pigtail plastic stent could not be found (Fig. 3).

After 2 weeks of waiting for fistula maturation, removal of the double-pigtail plastic stent was attempted again using a duodenoscope (TJF-260V; Olympus Medical Systems, Tokyo, Japan). A guidewire was inserted into the cyst along the
external tube followed by fistula dilation with a balloon catheter. Grabbing the double-pigtail plastic stent was attempted with a wire-guided basket (TetraCatch V; Olympus Medical Systems) but failed. Thus, a SpyScope DS II (Boston Scientific, Natick, Massachusetts, USA) was inserted into the cyst, and the double-pigtail plastic stent was grasped by a dedicated forceps (SpyBite; Boston Scientific) under direct visualization but was lost during extraction owing to its weak grasping force. Finally, the double-pigtail plastic stent was caught tightly by a dedicated basket (SpyBasket; Boston Scientific) and successfully removed together with the SpyScope DS II (Fig. 4, Fig. 5, Video 1). At last, two plastic stents were placed.

Stent migration is one of the serious adverse events during EUS-guided drainage of abdominal fluid collections [2]. The application of a SpyBasket through a SpyScope DS II might be a useful option for removal of a migrated stent.

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Competing interests

The authors declare that they have no conflict of interest.

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