Retrieval of a migrated stent during endoscopic ultrasound-guided drainage of duodenal diverticular abscess

A 91-year-old woman with upper right abdominal pain and fever was referred to our hospital. Computed tomography showed a duodenal diverticular abscess (Fig. 1). Therefore, EUS-guided drainage of the abscess was performed.

The abscess was punctured with a 19-gauge needle, and a 0.025-inch guidewire was placed. Subsequently, an additional guidewire was placed using a triple-lumen catheter (Haber RAMP catheter; Cook Japan, Tokyo, Japan). A 7-Fr double-pigtail stent was placed over the wire. However, before the nasobiliary drainage tube could be placed, the stent accidentally jumped into the abscess (Fig. 2b).

We opted to retrieve the migrated stent using a basket catheter. First, the triple-lumen catheter was inserted over the remaining guidewire to place an additional guidewire. Then, a basket catheter (FG-V435P; Olympus Medical Systems Corp., Tokyo, Japan) was introduced into the abscess over the guidewire, and the migrated stent was removed by grasping its tip with the basket catheter (Fig. 2c, Video 1). Finally, a 7-Fr double-pigtail stent and a 7-Fr nasobiliary drainage tube were placed successfully (Fig. 2d).

Endoscopic ultrasound (EUS)-guided drainage for an abdominal abscess has become recognized as a minimally invasive alternative to surgery. With regard to EUS-guided drainage of a pancreatic pseudocyst, the occurrence of stent migration into the pseudocyst is a relatively rare complication [1] and can be prevented by using double-pigtail stents [2]. This report describes endoscopic retrieval of a migrated double-pigtail stent during EUS-guided drainage of duodenal diverticular abscess.


Competing interests: None

Sho Kitagawa, Keiya Okamura, Daiki Oku, Ai Minoura

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References


Video 1

Retrieval of a migrated stent using endoscopic ultrasound scope with a basket catheter under fluoroscopy.

Fig. 1 Computed tomography showed a duodenal diverticular abscess, with air-fluid level.

Fig. 2 Radiographic images. a Two guidewires were placed within the abscess using a triple-lumen catheter. b A 7-Fr double-pigtail stent accidentally jumped into the abscess. c A basket catheter grasped the tip of the migrated stent. d A 7-Fr double-pigtail stent and a 7-Fr nasobiliary drainage tube were placed successfully.

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