The buried stent: a rare complication of endoscopic ultrasound-guided pancreatic necrosectomy using a lumen-apposing metal stent

A 51-year-old man was referred to our facility for endoscopic ultrasound-guided drainage of walled-off pancreatic necrosis. The cyst was first punctured with a 19-gauge needle (▶ Fig. 1). A NAGI stent (Taewoong Medical, Seoul, South Korea) was then deployed under ultrasonographic and fluoroscopic guidance without difficulty (▶ Fig. 2, ▶ Video 1). A computed tomography (CT) scan 6 weeks later revealed significant reduction in the cyst size with residual necrotic debris. Upper endoscopy showed an orifice in the middle of a small bulge of gastric mucosa and the stent could not be seen. The cystogastrostomy tract was cannulated and dilated with a 15-mm pneumatic balloon (▶ Fig. 3). The extremity of the lumen-apposing metal stent (LAMS) embedded in the gastric wall was identified, and the stent was removed using rat-tooth forceps (▶ Fig. 4). The endoscope was then passed into the cyst cavity and the residual necrotic debris was irrigated and removed with a snare. A follow-up CT scan after 3 months revealed an almost totally collapsed cyst cavity, consistent with drainage of the collection.

Plastic stents were conventionally used for the drainage of pancreatic fluid collections, and although their pigtail features decreases the risk of migration, premature occlusion usually occurs [1].

▶ Video 1: Endoscopic ultrasound-guided pancreatic necrosectomy using a lumen-apposing metal stent, with the rare complication of a "buried" stent.
Metal stents provide larger diameter lumens for better drainage, but their tubular feature increases the risk of migration [2]. The LAMS attempts to overcome these technical challenges with a “dumbbell” configuration to avoid stent migration and a large diameter allowing necrosectomy in repeated sessions [3]. Fabbri et al. were the first to describe a rare adverse event for the use of the LAMS that resembled the “buried bumper” associated with complicated percutaneous endoscopic gastrostomy, which they called the “buried stent” [4]. The buried stent appears to be a potential problem associated with use of the LAMS. To the best of our knowledge, this is the second reported case of a buried stent and the first reported case of endoscopic ultrasound-guided pancreatic necrosectomy in Egypt.

Endoscopy_UCTN_Code_TTT_1AS_2AD

Competing interests

None

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DOI http://dx.doi.org/10.1055/s-0042-124505
Endoscopy 2017; 49: E84–E85
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X