Endoscopic ultrasound-guided transesophageal drainage of a mediastinal pancreatic pseudocyst using a novel lumen-apposing metal stent

There have been a few previous reports of transesophageal endoscopic ultrasound (EUS)-guided drainage of pancreatic fluid collections (PFC). In these reports the drainage modality has been a single aspiration or deployment of a plastic stent [1–4]. We report a patient who underwent transesophageal EUS-guided drainage of a mediastinal PFC using a novel lumen-apposing metal stent.

A 37-year-old man with a history of right-sided pneumothorax and four episodes of acute pancreatitis was referred for drainage of a PFC. He was experiencing abdominal pain and cysts of increasing size had been seen on his imaging procedures. Computed tomography (CT) scanning revealed an 80 × 50-mm PFC, which had herniated into the mediastinum adjacent to the lower esophagus.

The PFC was accessed from the lower esophagus using a linear echoendoscope and a novel access device (NAVIX; Xlumena Inc., Mountain View, California, USA) that enables dilation of a tract up to 10 mm and placement of a guide wire. Once the cystoesophagostomy had been created, a fully covered metal stent with bilateral anchor flanges that can appose nonadherent lumens (AXIOS, 10 × 10 mm; Xlumena) was placed across the tract (Fig. 1, Fig. 2 and Video 1) and 900 mL of fluid was aspirated. An immediate chest radiograph revealed a tension pneu-
mothorax on the right side, which required intercostal drainage. The thoracic surgeon who performed the drainage procedure felt that this was a complication of the orotracheal positive pressure. By day 7, the patient reported resolution of his abdominal pain and a repeat CT scan revealed a marked reduction in the size of the PFC (Fig. 3). The AXIOS stent was removed (Fig. 4) and the patient was discharged with marked improvement in the pneumothorax. Follow-up imaging after 6 weeks showed complete resolution of the lesion by both EUS and CT scanning (Fig. 5). The patient remains asymptomatic 4 months later.

EUS-guided transesophageal drainage of PFCs has become an alternative to surgery or percutaneous drainage [1–4]. We describe the first case of transesophageal EUS-guided drainage of a PFC using a novel lumen-apposing metal stent. The procedure was technically successful and led to complete resolution of the lesion, although a pneumothorax occurred as an immediate complication.

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