A 58-year-old man with severe alcohol-related necrotizing pancreatitis was admitted and was treated initially with conservative management including aggressive intravenous fluid hydration and placement of a percutaneous gastrojejunostomy tube for enteral nutrition. Endoscopic retrograde cholangiopancreatography (ERCP) was performed with no evidence of pancreatic duct disruption or contrast leakage, but sludge was swept from the bile duct and biliary sphincterotomy was performed. Endoscopic ultrasound (EUS) revealed acute inflammatory changes in the entire pancreas without any well-formed fluid collection that could be drained.

The patient was treated conservatively with aggressive intravenous fluid hydration, bowel rest, and enteral nutrition for 4 weeks. He subsequently developed sepsis and a repeat computed tomography (CT) scan was performed, which demonstrated a large, complex 17 × 7-cm pancreatic fluid collection that was extending from the left anterior perirenal space to the left lower quadrant in the pelvis. EUS-guided cystgastrostomy was performed with a 15-mm lumen-apposing metal stent (LAMS; Axios, Boston Scientific, Natick, Massachusetts, USA). An ultrathin upper gastrointestinal (GI) endoscope was then used to enter the cyst cavity and a necrotic fistula tract was identified that extended into the jejunal lumen. Wire guidance was used to place a bridging esophageal fully covered self-expanding metal stent (FCSEMS; Wallstent, Boston Scientific) across the jejunal fistula tract with the distal end being in the jejunum and the proximal end in the stomach via the LAMS creating a cystgastrojejunostomy (Video 1). A 12-mm over-the-scope clip (OTSC; Ovesco, Cary, North Carolina, USA) was used to anchor the FCSEMS to the gastric mucosa to prevent migration.

A repeat CT scan 2 weeks later showed interval improvement in the necrotic fluid collection but a 13 × 2.7-cm residual collection was seen extending deep into the left pelvis (Fig. 1). The decision was made to pursue repeat EUS-guided drainage through the existing cystgastrostomy fistula to access the deep pelvic collection.

An upper GI endoscopy was performed with removal of the bridging cystgastrojejunostomy stents. The fistula tract appeared mature. An echoendoscope was then advanced through the fistula tract into the jejunum. The posterior pancreatic fluid collection was identified; a 15-mm LAMS (Axios, Boston Scientific) was deployed using an EUS-guided tech-
nique with the distal end in the necrotic cavity and the proximal end in the jejunum, resulting in the drainage of pus and fluid (Video 1). The patient underwent multiple necrosectomies through the cystgastrojejunostomy with complete resolution of the pancreatic necrosis at his final follow-up 9 months later.

The most common locations for pancreatic fluid collections are close to the stomach or the first part of the small bowel where EUS-guided drainage via cystgastrostomy or cystenterostomy can be readily performed [1–3]. In our patient, the walled-off necrosis was located in the pelvis, making access to the collection more difficult. The use of this novel technique allows deep and difficult-to-reach pelvic pancreatic fluid collections to be drained using a bridging technique with combined placement of LAMSs [4] and FCSEMSs across long fistula tracts, as we have demonstrated here.

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Competing interests

Michel Kahaleh has received grant support from Boston Scientific, Fujinon, EMcision, Xlumena Inc., W. L. Gore, MaunaKea, Apollo Endosurgery, Cook Endoscopy, ASPIRE BARiatri- trics, Gi Dynamics, NinePoint Medical, Merit Medical, Olympus and Mi Tech. He is a consultant for Boston Scientific, Xlumena Inc., Concordia Laboratories Inc., ABBvie, and MaunaKea Tech. Nikhil Kumta is a consultant for Boston Scientific.

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