EUS-guided detection and internal drainage of an open pancreaticocutaneous fistula after acute necrotizing pancreatitis

Endoscopic ultrasound (EUS)-guided drainage is one of the leading methods for the management of pancreatic fluid collections (PFCs) and fistulas [1, 2]. However, it is technically challenging to find a fistula, which is usually smaller than a collection since the fluid discharges spontaneously.

We report the case of a 37-year-old patient with pancreaticocutaneous fistula after acute pancreatitis. First, transpapillary drainage with a plastic stent in the Wirsung duct was attempted, but the pancreatic fistula remained productive and was confirmed by MRI. Again drainage was attempted, but this time the caudal part of the pancreatic duct was totally excluded and a double pigtail plastic stent was placed between the duodenum and the remaining PFCs (▶ Video 1, ▶ Fig. 1). In a second step, we then tried to puncture the fistula tract through the stomach, but the fistula was too small to be detected by EUS alone. We used a guidewire through the cutaneous orifice of the fistula to find the tract and instilled water and contrast agent through an opacification catheter, but again we could not identify the fistula. We then inflated a 4-mm-diameter dilatation balloon into the fistula tract as close as possible to the pancreas to make it visible on EUS. We punctured the balloon with a 19-G needle through the gastric wall (▶ Fig. 2) without managing to explode it, but we succeeded in placing the guidewire in the fistula when we deflated the balloon and retrieved it at the skin orifice. After this, with EUS guidance ensuring the correct position, we used a 10-Fr cystotome to place a double pigtail plastic stent into the fistula tract (▶ Fig. 2, ▶ Fig. 3). The cutaneous orifice of the fistula sealed immediately, and this result was still sustained 2 months later.

A balloon can be used as a landmark to help the endoscopist detect a small fistula tract in which he or she wishes to place a transgastric drain.
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Competing interests

The authors declare that they have no conflict of interest.

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