Endoscopic ultrasound-guided gastroenterostomy using a lumen-apposing self-expanding metal stent for decompression of afferent loop obstruction

Acute afferent loop syndrome following pancreaticoduodenostomy is generally caused by mechanical occlusion due to pancreatic cancer recurrence. Historically, it has been treated with palliative surgical bypass [1–5]. A retrograde endoscopic approach with placement of an enteral metal stent across the afferent limb stricture is often not possible [2]. We report the first case series of endoscopic ultrasound (EUS)-guided gastrojejunostomy using a lumen-apposing, self-expanding, metal stent (LASEMS) for therapy of acute afferent loop syndrome.

Three patients who had previously undergone a pancreaticoduodenostomy for pancreatic cancer presented with acute abdominal pain and vomiting. Computed tomography revealed dilation of the afferent loop (Fig. 1A) in direct apposition with the stomach (B). Contrast was injected through the 19-gauge needle into the dilated afferent limb to confirm the position, and a 0.035-inch guidewire was introduced through the needle and coiled into the obstructed afferent limb. Needle-knife cautery was used to make an incision into the fistula tract, and then a 6-mm balloon was used to dilate the tract (Fig. 2). A 15 mm × 10 mm LASEMS (Axios; Boston Scientific Corp., Marlborough, Massachusetts, USA) was then deployed under fluoroscopic guidance across the tract, resulting in apposition between the dilated afferent limb and the stomach wall. A 15-mm balloon was then used to dilate the tract within the lumen of the LASEMS to create an endoscopic gastrojejunos- tomy for drainage of the obstructed afferent limb (Fig. 3). All three patients had resolution of clinical symptoms and were discharged. This series demonstrates that EUS-guided gastroenterostomy involving LASEMS placement offers a safe, technically feasible, and clinically successful endoscopic method of management for acute afferent loop obstruction.

Endoscopy_UCTN_Code_TTT_1AO_2AC

Competing interests: None

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Endoscopic ultrasound-guided gastroenterostomy and placement of a lumen-apposing, self-expanding, metal stent for decompression of afferent loop obstruction... Endoscopy 2015; 47: E395–E396
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DOI http://dx.doi.org/10.1055/s-0034-1392564
Endoscopy 2015; 47: E395–E396
© Georg Thieme Verlag KG Stuttgart · New York
ISSN 0013-726X

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