A 60-year-old woman developed gastric outlet obstruction (GOO) due to metastatic pancreatic adenocarcinoma. Endoscopic ultrasound (EUS)-guided gastroenterostomy (EUS-GE) was planned using the Wireless Simplified Technique (WEST) [1]. Orojejunal tube (OJT) placement and jejunal instillation of saline and indigo carmine were followed by freehand placement of a 20×10-mm electrocautery-enhanced lumen-apposing metal stent (LAMS; Hot Axios, Boston Scientific). Despite jejunal fluid perturbation (▶Fig.1), suggesting successful jejunal access, we observed the following: (i) no endosonographic confirmation of endojejunal placement of the distal flange after retraction; (ii) no backflow of blue dye after LAMS release; (iii) failed through-the-LAMS aspiration of contrast injected through the OJT; (iv) peritoneum visible through the stent (▶Fig.2a–d).

Contrast injection through the OJT showed no jejunal leakage, suggesting either a type I or II misdeployment [2]. The LAMS was removed and the procedure was repeated using an identical endosonographic position (▶Video 1). Once again, acoustic coupling was challenging, but this time, following LAMS placement, blue-dyed fluid and contrast placed via the OJT were aspirated through the stent into the stomach (▶Fig.2e–h). Contrast injection through the endoscope working channel, both on the gastric and jejunal side, showed no leakage (▶Fig.3). The old access point was preemptively closed using endoclips. The patient remained asymptomatic, resumed a semisolid diet on postoperative day (POD) 1 and was discharged on POD 3. Amoxicillin/clavulanate was administered for 7 days.

Misdeployment is one of the most frequent EUS-GE complications [2,3]. In such cases, it can be challenging to ascertain whether small-bowel integrity is compromised. Fistulas created by electrocautery-enhanced 10.8-Fr catheters might be functionally silent and not always within endoscopic reach [4]. If there is uncertainty regarding small-bowel integrity, surgical exploration should still be considered; however, our case demonstrates that if no leak is demonstrated on both the jejunal (via the OJT) and gastric sides, redo EUS-GE may suffice to complete the procedure uneventfully.
Competing interests

S. van der Merwe holds co-chairs for the Boston-Scientific Chair in Therapeutic Biliopancreatic Endoscopy and holds consultancy agreements with Boston Scientific, Cook Medical and Pentax. All other authors have no conflict of interest relevant for this article.

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References

Fig. 3 Radiographic images showing: a after the misdeployment, no jejunal leakage of contrast injected through the orojejunal tube; b at the end of the procedure, no gastric leakage of contrast injected under pressure through the endoscope working channel in front of the gastric defect (inset: endoscopic view); c no jejunal leakage of contrast injected through the lumen-apposing metal stent (inset: endoscopic view) after completion of the redo-gastrojejunostomy.

Bibliography

Endoscopy
DOI 10.1055/a-1792-2755
ISSN 0013-726X
published online 2022
© 2022. Thieme. All rights reserved.
Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

Vanella Giuseppe et al. Redo-endoscopic ultrasound-guided gastroenterostomy... Endoscopy | © 2022. Thieme. All rights reserved.