E-Videos

Endoscopic management of gastrojejunocolic fistula as an unusual complication of endoscopic ultrasound-guided gastroenterostomy



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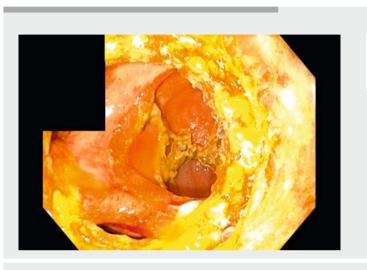


▶ Fig. 1 Fluoroscopy image showing the correct placement of a lumen-apposing metal stent during endoscopic ultrasound-guided gastroenterostomy. The anastomosis was created between the stomach and the proximal jejunum.



► Fig. 2 Endoscopic view from the stomach into two loops of the jejunum 4 months after creating the anastomosis.

Endoscopic ultrasound-guided gastroenterostomy (EUS-GE) using a lumenapposing metal stent (LAMS) is a novel endoscopic technique for treating gastric outlet obstruction and represents an alternative to stenting or surgery [1,2]. EUS-GE is minimally invasive and compares favorably with long-term surgical outcomes [1,2]. Several studies report a high degree of technical and clinical suc-



Video 1 Gastrojejunocolic fistula as an unusual late complication of endoscopic ultrasound-guided gastroenterostomy.

cess, despite a considerable rate of complications [1, 3].

A 65-year-old woman with generalized breast cancer presented with signs of gastric outlet obstruction, with a tight duodenal stenosis caused by malignant abdominal lymphadenopathy. EUS-GE was performed using LAMS (20mm Hot Axios Stent; Boston Scientific, Marlborough, Massachusetts, USA), resulting in immediate resumption of oral intake (> Fig. 1, > Video 1). Correct positioning of the stent in the small intestine was documented endoscopically and radiologically.

However, 4 months later, the patient complained of dyspeptic symptoms. Gastroscopy was performed, revealing a normal anastomosis with two jejunal loops (▶ Fig. 2, ▶ Video 1). Then, 2 months later, gradual development of anorexia, diarrhea, and fecal vomiting was observed. A computed tomography scan indicated possible communication of the stent with the colon (▶ Fig. 3, ▶ Video 1). Gastroscopy showed a patent anastomosis between the stomach and jejunum as well as the large intestine. We extracted



▶ Fig. 3 Computed tomography scan showing communication between the stomach and colon (arrow).

the LAMS and closed the gastric orifice of the anastomosis with an over-the-scope clip (OTSC; Ovesco Endoscopy GmbH, Tübingen, Germany), through-the-scope clips, and endoloop (**> Video 1**), leading to immediate remission of vomiting and significant improvement in diarrhea. Due to ongoing oncological treatment and regression of abdominal lymphadenopathy, restoration of gastrointestinal tract continuity was not necessary. Although an improvement in condition enabled chemotherapy for an additional 3 months, the patient eventually died of disease progression.

Endoscopic closure of a gastrocolic fistula following EUS-GE has been successfully performed using a suturing device [4]. Another report described gastrojejunocolic fistula as a rare complication of surgical gastroenterostomy [5]. However, our report is the first to document gastrojejunocolic fistula following EUS-GE, which we successfully resolved with endoscopic treatment.

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Competing interests

The authors declare that they have no conflict of interest.

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