Duodenopancreatectomy is burdened by a high rate of postoperative complications including anastomotic dehiscence. Although repeat surgery is considered the gold standard treatment in these settings [1, 2], it has high morbidity and mortality rates [3, 4]; thus, alternative treatments (i.e. endotherapy) have been investigated to improve clinical outcomes.

A 63-year-old man underwent Whipple–Child operation for major papilla adenocarcinoma (pT2N2). Surgery was complicated by anastomotic dehiscence of pancreaticojejunostomy, which was treated by pancreatic totalization. Subsequently, the patient developed severe sepsis associated with high output of enteral fluids from abdominal drains (600 mL/day). The patient was considered unfit for surgery because of septic status and poor general condition.

An endoscopy was performed to assess the type and severity of complications. Endoscopy revealed a large leak on the lesser curvature of the gastric stump through which it was possible to access the intraperitoneal cavity and to observe complete dehiscence of the jejunal stump (▶ Video 1). Exploiting this large and complex dehiscence, we tried endoscopically to restore intestinal continuity. A fully covered self-expandable metal stent (fc-SEMS), 24 mm × 10 cm (EuroMedical Corp., Prague, Czech Republic) was placed over the wire through the necrotic cavity to restore the connection between the gastric cavity and the biliary jejunal loop. Biliodigestive anastomotic leak was also confirmed during endoscopy; thus, we decided to also perform double stenting to repair the leak. A second enteral fc-SEMS 20 mm × 10 cm (EuroMedical Corp.) was placed into the jejunal loop, through the previously placed enteral stent. A 10 mm × 4 cm fc-SEMS (WallFlex; Boston Scientific, Marlborough, Massachusetts, USA) was then inserted through the meshes of
the second enteral stent, into the main bile duct. At the end of the procedure, an 18-Fr nasojejunal suction tube was positioned inside the two enteral stents and held in continuous aspiration (∼75 mmHg) (▶ Fig. 1).

A second biliary 16 mm × 2 cm fc-SEMS (Nagi-S; Taewoong Medical, Gyeonggi-do, South Korea) was placed 3 days later because of displacement of the previous biliary SEMS (possibly due to proximal traction of the enteral SEMSs after full expansion).

The continuous aspiration was stopped after 15 days because the surgical drainage output became null. The patient was discharged after 3 months of hospitalization (and 4 weeks after the endoscopic procedure).

All stents were removed 8 weeks after endoscopy. Fluoroscopy showed no residual leaks. At endoscopy, the gastric stump appeared to be connected to the jejunal loop by a fibrotic tunnel (▶ Fig. 2) and the biliodigestive anastomosis was regular (▶ Fig. 3).

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Competing interests

The authors declare that they have no conflict of interest.

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