A 43-year-old man with a history of heavy alcohol consumption and recent acute pancreatitis was admitted for recurrent epigastric pain and diagnosed as having a 4-cm pancreatic pseudocyst. Endoscopic retrograde cholangiopancreatography (ERCP) showed a pancreas divisum with total obstruction of the main pancreatic duct (MPD) in the mid-pancreas and no communication with the fluid collection. Minor papilla sphincterotomy was performed with placement of a 7-Fr plastic stent (Zimmon, Wilson-Cook, Winston-Salem, North Carolina, USA) in the pancreatic duct. Endoscopic ultrasound-guided cystogastrostomy was carried out (Pentax EG3860UT, Hamburg, Germany) and a single, 10-Fr double-pigtail stent was placed (Fig. 1).

After 1 month, the patient complained of fever and recurrent pain. ERCP revealed total obstruction of the MPD and a fistula with the site of gastrostomy in the stomach. The corporeocaudal MPD was opacified via the cystogastrostomy site (Fig. 2).

Dual drainage was carried out with a 5-Fr transgastric stent in the corporeal duct via the cystogastrostomy site and a 7-Fr transpapillogastric stent via the minor papilla. Complete bridging of the MPD rupture was tried again 1 month later, but the guide wire could not unite the proximal and distal parts of the pancreatic duct. A dual-scope approach (with both endoscopes inserted together per orally into the esophagus) was therefore attempted with insertion of a guide wire (Jagwire 0.035, Boston Scientific, Diegem, Belgium) through the papilla toward the stomach with the duodenoscope (TJF-160R, Olympus, Aartselaar, Belgium). Retrieving the guide wire and bringing it into the pancreatic tail was done with a gastroscope (GIF180, Olympus, Aartselaar, Belgium) positioned in front of the gastric fistula orifice (Fig. 3).

A long, plastic, single-pigtail stent was then placed to bridge the rupture and drain the entire pancreatic duct (Fig. 4). Eventually, the patient’s pain resolved and 10-Fr stent exchanges were carried out every 6 months for 2 years, with no further symptoms.

Per oral dual-scope rendezvous technique has been used for natural orifice transluminal endoscopic surgery (NOTES), but have been only reported in animals [1,2]. In this report, we have described an application of this approach to bridge a complicated rupture of the MPD and a pancreato-gastric fistula following EUS cystogastrostomy, using a modified dual-scope rendezvous technique [3–5].

Competing interests: None

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