A 57-year-old man with duodenal carcinoma and a biliary self-expandable metal stent (SEMS) presented with gastric outlet obstruction and an endoscopic ultrasound-guided gastroenterostomy was proposed. After the bowel had been dilated up to 15 mm to allow the gastroscope to be passed across the duodenum, loops of the small bowel were distended with 1 L of saline mixed with methylene blue, using the water-jet channel. A small-bowel loop was then accessed using the freehand technique with the delivery system of an electrocautery-enhanced lumen-apposing metal stent (LAMS; Hot AXIOS; 20×10 mm). During advancement of the preloaded guidewire, the bowel loop became tented away and the EUS window was lost, so the distal flange was deployed with concerns of possible misplacement. After deployment of the proximal flange, no flow of blue fluid was noted. The peritoneal cavity was identified endoscopically through the LAMS and the echoendoscope was exchanged for a therapeutic gastroscope. The guidewire tip, located in the duodenum, was stretched to the outside with the purpose of stabilizing the bowel. Balloon expansion of the LAMS up to 15 mm allowed the gastroscope to be passed into the peritoneal cavity using the LAMS as a trocar. Peritonoscopy was performed under fluoroscopy guidance and the entry point of the guidewire into the bowel was identified (Fig. 1). Dilation of the enteral wall up to 8 mm facilitated the advancement of a fully covered SEMS (Niti-S EnteralColonic; 20×80 mm; Taewoong Medical) through the LAMS. These technical aspects prevented the risk of tenting away of the bowel loop and loss of the guidewire. Enterography confirmed that the enteral stent was well positioned though the misplaced LAMS, allowing a correct deployment of the rescue stent under fluoroscopy and endoscopy guidance (Fig. 2). Lastly, the distal end within the duodenum was checked, and an antimigratory clip was fixed (Fig. 3; Video 1).
Several rescue options have been previously presented for gastroenterostomy [1–5]. If the wire access to the target loop is not preserved, LAMS misdeployment can require natural orifice transluminal endoscopic surgery (NOTES) or conventional surgery. If the guidewire is secure, a second enteral SEMS can be deployed safely under peritonoscopy and fluoroscopy guidance.

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Competing interests

J. B. Gornals is a consultant for Boston Scientific. The remaining authors declare that they have no conflict of interest.

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