Accidental gastrocolonic anastomosis by apposition stent: a one-month healing delay makes it possible to treat a stabilized gastrocolonic fistula rather than a double perforation

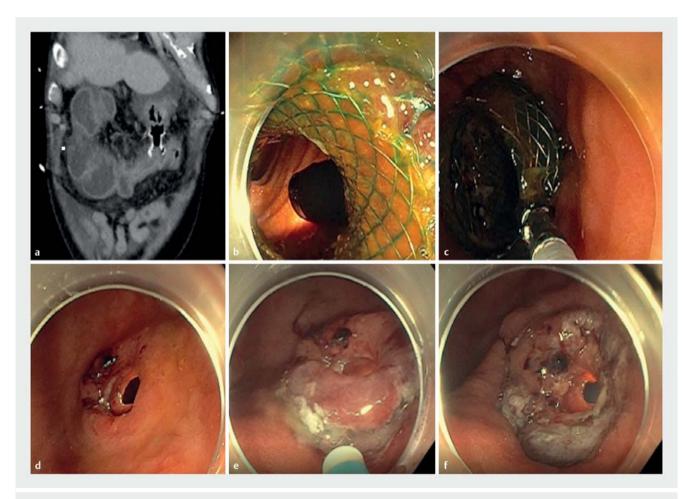
Misplacement of self-expandable apposition stent in the colon during endoscopic ultrasound (EUS) transgastric drainage of a post-pancreatitis necrotic collection is a rare adverse event [1] leading to a double perforation (stomach and colon) if the stent is removed immediately. Therefore, we proposed a waiting strategy to transform gastrocolonic anastomosis into a gastrocolonic fistula.

éWe report the case of a 76-year-old man admitted for acute necrotizing pancreatitis in a general hospital in our area.

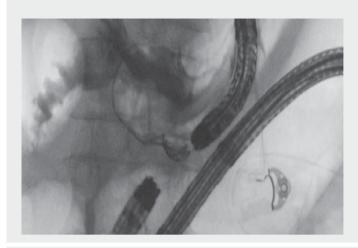
During an attempt of transgastric drainage for a necrotic collection, the colon was accidentally targeted and the apposition stent deployed (Hot AXIOS; Boston Scientific, Marlborough, Massachusetts, USA), creating a gastrocolonic anastomosis. After discussion, we recommended leaving the stent in place for 1 month instead of dealing with two perforations (colon and stomach). After 4 weeks, the patient was referred to our center. To repair the communication, simultaneous upper and lower endoscopies were

performed with two scopes (▶ Fig. 1, ▶ Video 1) to treat the two perforations in case the gastrocolonic attachment failed. The colonoscopy showed severe left colitis induced by gastric acid. The stent was removed using the upper gastrointestinal (GI) access and we confirmed the attachment of the stomach and colon through a stabilized fistula without any leakage.

éTo close the fistula, we combined circumferential endoscopic submucosal dissection (ESD) of the surrounding mu-

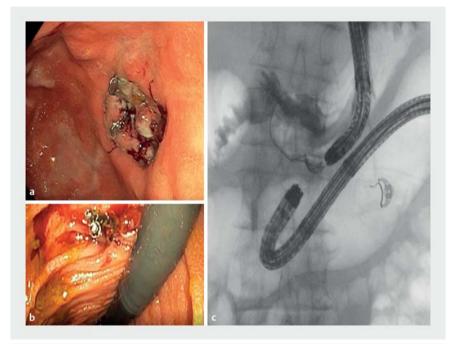


▶ Fig. 1 Closure procedure for the fistula. a Computed tomography scan aspect of the gastrocolonic anastomosis. b Endoscopic aspect of the gastrocolonic anastomosis. c Stent removal. d Aspect of the stabilized fistula with gastrocolonic attachment. e Endoscopic submucosal dissection of the surrounding mucosa. f Aspect of the fistula tract after dissection of the surrounding mucosa.





▶ Video 1 Endoscopic closure of the gastrocolonic fistula stabilized by a 1-month healing period.



▶ Fig. 2 Aspect of the closure. a Gastric aspect with the over-the-scope clip in place. b Colon aspect with two additional hemoclips. c X-ray aspect confirming the lack of leakage.

cosa and over-the-scope clipping of the fistula tract as previously reported (**> Fig. 2**) [2–4]. Two hemoclips were additionally placed on the colonic side. Successful closure without leakage was confirmed radiologically with contrast

opacification immediately and 1 month later during a necrosectomy procedure. To the best of our knowledge, this is the first report of a 1-month waiting strategy to transform a gastrocolonic anastomosis into a fistula with stable attachment in order to facilitate endoscopic closure [5]. Combining endoscopic submucosal dissection of the surrounding mucosa and over-the-scope clipping is effective to treat digestive fistulas.

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Competing interests

The authors declare that they have no conflict of interest.

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