Rendezvous recanalization of a postoperative coloanal anastomotic dehiscence with a lumen-apposing metal stent

LAMSs have been successfully used for the recanalization of complete colorectal anastomotic obstructions [1, 2]. However, there are no reports of using LAMSs in the treatment of coloanal anastomotic dehiscence.

A 51-year-old man with a rectosigmoid tumor underwent low anterior resection. His surgery was then complicated by leakage, which was treated by proctectomy, coloanal anastomosis, and creation of a diverting ileostomy. On follow-up sigmoidoscopy, the anastomosis appeared to have dehisced and no lumen to the proximal colon was identified. Therefore, a rendezvous approach was planned for the treatment of coloanal anastomotic dehiscence.

An upper gastrointestinal (GI) endoscope was advanced transanally to the coloanal anastomosis, while a pediatric colonoscope was advanced towards the anastomosis through the loop ileostomy (Fig. 1). With the use of fluoroscopic guidance and transillumination, the dehiscent coloanal anastomosis was identified. A guidewire was advanced in an antegrade direction and was captured from the anus. A 15×10-mm LAMS was then inserted over the wire from the anal side and successfully deployed across the anastomosis (Fig. 2 and Fig. 3; Video 1). The patient was discharged home in good condition 1 day after the procedure. After 2 months, a flexible sigmoidoscopy was carried out, in which the stent was removed with a forceps. The upper GI endoscope was advanced to a point proximal to the anastomosis, which was noted to be widely patent (Fig. 4). The stent was then reloaded into the therapeutic upper GI endoscope and successfully deployed across the anastomosis (Fig. 2 and Fig. 3; Video 1).

Video 1 The video shows the rendezvous approach being used to recanalize a coloanal anastomotic dehiscence with a lumen-apposing metal stent.
GI endoscope and redeployed across the anastomosis to ensure the area remained patent. After 4 months, the stent was removed following ileostomy reversal. The patient continues to do well after 3 months of follow-up.

In conclusion, treatment of postoperative coloanal anastomotic dehiscence using a LAMS placed via the rendezvous technique is feasible and effective.

Endoscopy_UCTN_Code_TTT_1AQ_2AG

Competing interests

Mouen A. Khashab is a consultant and on the medical advisory board for Boston Scientific and Olympus. The remaining authors have nothing to disclose.

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DOI https://doi.org/10.1055/a-0591-2148
Published online: 9.4.2018
Endoscopy 2018; 50: 646–647
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

Correction

Sanaei O, Brewer Gutierrez O, Moran R et al. Rendezvous recanalization of a postoperative coloanal anastomotic dehiscence with a lumen-apposing metal stent. Endoscopy 2018, 50:
doi:10.1055/a-0591-2148
In the above mentioned article the page numbers have been corrected. This was corrected in the online version on August 17, 2018.