Over-the-scope clipping in recurrent colonic diverticular bleeding

Colonic diverticula are the most frequent cause of lower gastrointestinal (GI) bleeding in adults. Nonetheless, the identification of a definite bleeding source is endoscopically challenging and diagnosis is usually presumptive. Once a source has been precisely identified, various endoscopic hemostatic methods can be used, including clipping, endoscopic band ligation and epinephrine injection [1, 2]. However, use of an over-the-scope clip (OTSC) has not yet been described.

Here, we report the case of a 76-year-old man with a history of recurrent bleeding from diffuse and severe colonic diverticulosis that had been previously treated with left-sided colectomy. In the 2 years following this, he experienced four new episodes of severe diverticular bleeding from the residual colon with spontaneous resolution, thereby providing an indication for total colectomy.

When a colonoscopy was performed after the last of his admissions, for a 3-day history of persistent lower GI bleeding, a visible vessel with pigmented hematin was seen on the neck of a diverticulum just above the colorectal anastomosis (Fig. 1a). Notably, no additional bleeding source was identified throughout the remainder of the colon and an upper GI endoscopy was negative for bleeding. Given the need to provide long-term hemostatic treatment and the presence of peri-anastomotic stiffness, endoscopic band ligation was not feasible, so we therefore decided to place an OTSC with a 6-mm depth and pointed teeth (Ovesco Endoscopy, Tübingen, Germany) [3]. The OTSC was successfully deployed at the first attempt, more than half of the volume of the clear distal cap having been filled with tissue, followed by suctioning and inversion of the bleeding diverticulum. Particular attention was paid to placing the vessel that was bleeding into the center of the clip, thereby allowing for immediate and complete mechanical closure (Fig. 1b; Video 1). No immediate complications occurred and the patient was discharged 4 days later. There were no short-term complications and no recurrent bleeding had occurred after 3 months of follow-up (Fig. 2).

This report illustrates for the first time the feasibility and efficacy of hemostasis by endoscopic clipping with the OTSC system for diverticular bleeding. Thanks to this simple and immediate endoscopic approach, our patient was able to avoid an aggressive surgical strategy, which would have been burdened by considerable risks and functional consequences.

Competing interests: None

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