Over-the-scope clipping and detachable snare ligation as a novel combination hemostatic therapy for diverticular bleeding

Ligation therapy, such as endoscopic band ligation and detachable snare ligation, is an effective treatment for colonic diverticular hemorrhage [1, 2]. However, delayed perforation has been reported in patients undergoing steroid therapy and endoscopic ligation [3]. As an alternative, over-the-scope (OTS) clipping enables full-thickness resection at the central tissue mound of the inverted diverticulum while preventing perforation (Fig. 1) [4]. Recent reports have described that OTS clipping is effective for hemostasis of diverticular bleeding; however, early rebleeding was observed in 33% of patients treated with OTS clips alone (Fig. 2a, Fig. 3) [5].

We developed a combination method of OTS clipping and detachable snare ligation as a novel treatment for diverticular bleeding to reduce the occurrence of rebleeding and delayed perforation (Fig. 2b–d, Video 1).

A 79-year-old man taking 15 mg prednisolone daily for remitting seronegative symmetrical synovitis with pitting edema (RS3PE) syndrome and low-dose aspirin for angina pectoris presented with hema-tochezia. Colonoscopy revealed diverticular bleeding in the ascending colon (Fig. 4). Standard marking clips were placed near the diverticulum. The scope, mounted with the OTS clipping system, was then inserted and the clip was released onto the diverticulum, allowing primary hemostasis. The resulting central tissue mound of the inverted and bulged diverticulum was further ligated using a detachable snare to prevent rebleeding (Fig. 5). The patient was discharged 6 days after endoscopic treatment without any adverse events or early rebleeding.

We believe that the novel combination method described here is a safe and effective standard therapy for hemostasis of colonic diverticular hemorrhage, especially in patients with increased risk for perforation and rebleeding.
Competing interests

The authors declare that they have no conflict of interest.

The authors

Koichiro Kawano1, Reiko Kawano1, Tomonori Moriguchi1, Hiroshi Tanabe1, Takao Katoh1, Katsuhisa Nishi1, Mamoru Takenaka2

1 Department of Gastroenterology, Hyogo Prefectural Awaji Medical Center, Sumoto, Japan
2 Department of Gastroenterology and Hepatology, Kindai University Faculty of Medicine, Osaka-Sayama, Japan

Corresponding author

Mamoru Takenaka, MD, PhD
Department of Gastroenterology and Hepatology, Kindai University Faculty of Medicine, 377-2 Ohno-Higashi, Osaka-Sayama, 589-8511, Japan
mamoxyo45@gmail.com

References


Bibliography

Endoscopy 2022; 54: 218–219
DOI 10.1055/a-1352-2162
ISSN 0013-726X
published online 5.3.2021
© 2021. Thieme. All rights reserved.
Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany