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Video Article

Over-the-scope clip rescue method of endoscopic hemostasis for severe acute colonic diverticular bleeding

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BRIEF EXPLANATION

PURASTAT (3-D MATRIX, Tokyo, Japan) is a novel synthetic self-assembling peptide approved as a hemostatic agent, and it is mainly used to stop oozing bleeding during endoscopic surgery.[1–4] We have reported on the usefulness of PuraStat for colonic diverticular bleeding[5]; in some cases, however, hemostasis is difficult because of spurting bleeding. We here report a case of severe acute colonic diverticular bleeding that was difficult to achieve

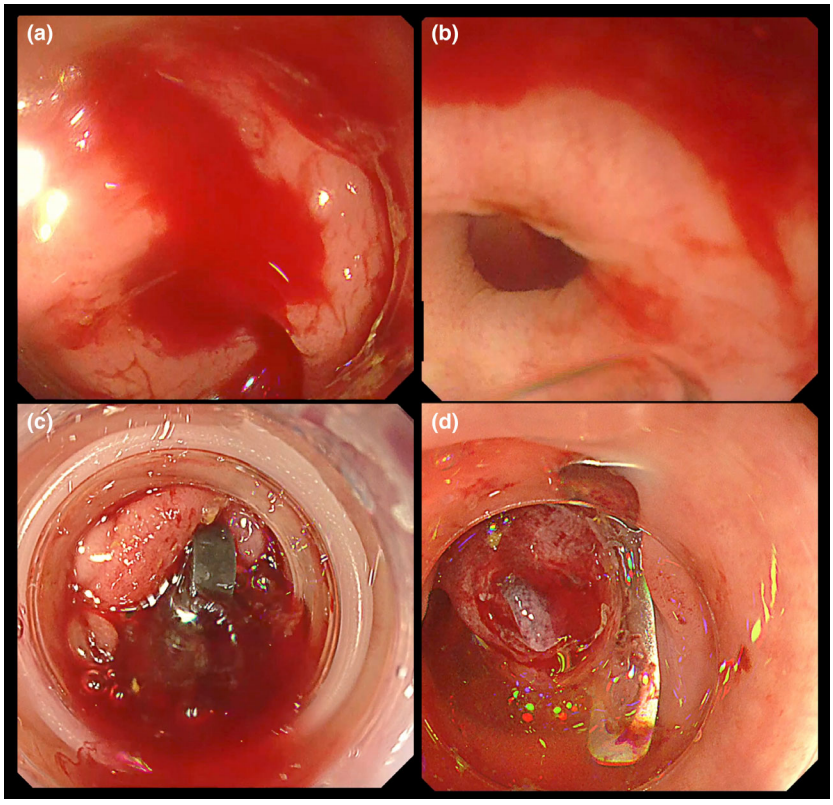


Figure 1 (a) Spurting bleeding from a diverticulum at the sigmoid colon was observed during surgery. (b) PuraStat (3-D Matrix, Tokyo, Japan) was injected into the diverticulum with a dispersal tube. (c) The band was dislodged after endoscopic band ligation. (d) Complete hemostasis was achieved using an over-the-scope clip.

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hemostasis with PuraStat and endoscopic band ligation (EBL), but was finally treated with over-the-scope clip (OTSC) as a rescue method (Video S1).

An 84-year-old woman presented to the emergency department with massive bloody stools, a hemoglobin level of 11.3 g/dL, and progressive anemia. An emergency colonoscopy was performed, during which spurting bleeding from a diverticulum in the sigmoid colon was observed (Fig. 1a). The source of the bleeding was identified as the diverticulum, and its vicinity was marked with a clip. Next, 3 mL of PuraStat was injected into the diverticulum with a dispersal tube (Fig. 1b). After injection, the gushing bleeding gradually subsided, and hemostasis was temporarily achieved. The scope was removed, the band was applied, the scope was reinserted, and EBL was performed using the clip as a landmark. However, the band was dislodged because of poor aspiration by adhesions and high peristalsis (Fig. 1c). Complete hemostasis was finally achieved by closing the bleeding point with an OTSC as a rescue method (Fig. 1d). The patient was discharged 3 days later without bleeding or progressive anemia.

Authors declare no conflict of interest for this article.

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SUPPORTING INFORMATION

ADDITIONAL SUPPORTING INFORMATION may be found in the online version of this article at the publisher's web site.

Video S1 Over-the-scope clip rescue method for severe acute colonic diverticular bleeding that was difficult to achieve hemostasis with PuraStat (3-D Matrix, Tokyo, Japan) and endoscopic band ligation.

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