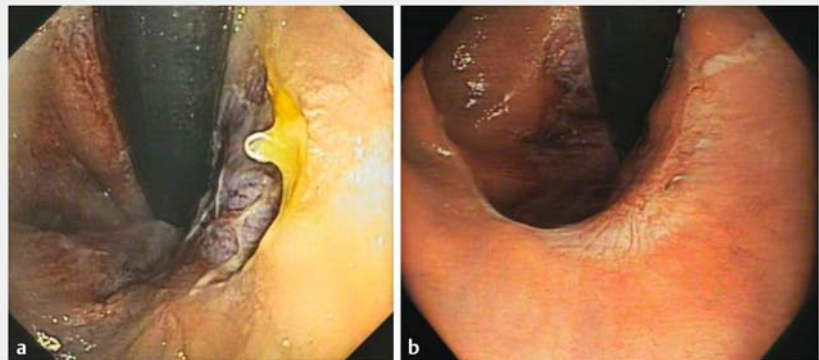


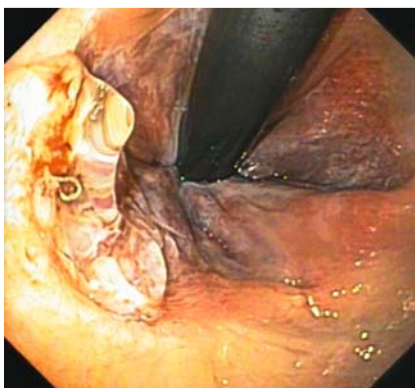
Off-label use of novel hemostatic gel to treat wound dehiscence after stapled hemorrhoidectomy



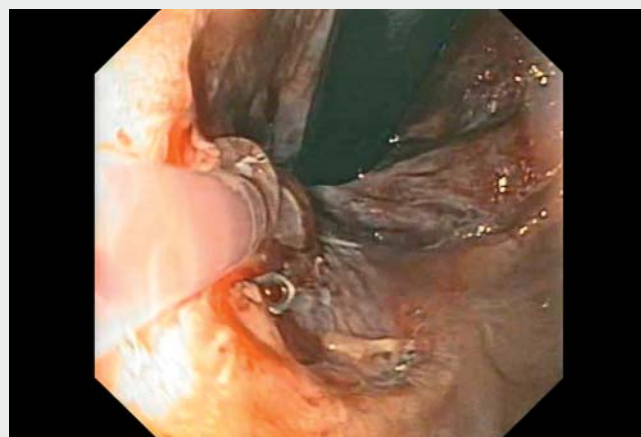

► **Fig. 1** Rectosigmoidoscopic view of 3-cm posthemorrhoidectomy wound dehiscence at the dentate line.



► **Fig. 3** Efficacy of the hemostatic gel in wound healing. The wound is shown **a** before the procedure and **b** 4 weeks after application of the hemostatic gel.



► **Fig. 2** Endoscopic application of the novel hemostatic gel.



► **Video 1** Endoscopic application of a novel hemostatic gel to treat wound dehiscence after stapled hemorrhoidectomy.

A 54-year-old man complaining of massive rectal bleeding and severe anemia was referred to our endoscopic center by the surgical unit. He had undergone stapled hemorrhoidectomy with Longo's technique 3 weeks before, and had received topical steroid and mesalamine therapy for 1 week without clinical improvement.

Rectosigmoidoscopy was scheduled and performed, showing a 3-cm dehiscence caused by impaired or delayed wound healing at the dentate line (► **Fig. 1**). During the same procedure, 3 ml of the novel hemostatic gel Purastat was ap-

plied to obtain formation of a synthetic clot covering the entire dehiscence area. No bleeding or other complications were observed during or after the procedure (► **Fig. 2**).

Four weeks later, the patient underwent scheduled follow-up rectosigmoidoscopy, which showed scarring of the area with complete mucosal healing (► **Fig. 3**). No bleeding, tenesmus, or other symp-

toms were reported by the patient (► **Video 1**).

Wound dehiscence is an early complication of stapled hemorrhoidectomy, with a prevalence of 3%–5%; it has been attributed to malfunctioning staplers and surgical inexperience, and surgical revision is often required [1]. Purastat is an uncolored, fully synthetic, viscous peptide hydrogel that self-assembles into fibers forming a sort of extracellular ma-

trix; this matrix then acts as a mechanical barrier on the bleeding source, providing a hemostatic effect [2]. In addition to the known hemostatic effect, it has been hypothesized that the similarity of the 3D nanostructure of activated Purastat to the natural extracellular matrix scaffold material favors cell and tissue proliferative processes, leading to more effective mucosal healing [3].

This treatment may become a valid alternative to revision surgery in patients with wound dehiscence following stapled hemorrhoidectomy.

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Conflict of interest

The authors declare that they have no conflict of interest.

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