Safe guidewire-assisted method of over-the-scope clip delivery for bleeding in the small intestine

The efficacy of the over-the-scope clip (OTSC; Ovesco Endoscopy GmbH, Tübingen, Germany) for refractory gastrointestinal bleeding has been described in many clinical case reports [1–3]. However, there are no reports regarding the delivery method of OTSCs in the small intestine. The bear claw on the OTSC may pose a risk of mucosal injury owing to the anatomical features of the small and large intestine. However, it is not only the anatomical characteristics of the small intestine that make successful hemostasis difficult, as delivery of the OTSC itself may also be problematic [4,5]. We report the first case involving a guidewire-assisted method for the safe delivery of an OTSC in the small intestine.

A 71-year-old man who suffered from ulcer bleeding in the terminal ileum had undergone three failed attempts at hemostasis with conventional hemoclips and hemostatic forceps. Because of the refractory nature of the bleeding (Fig. 1), an OTSC was applied following informed consent (Video 1).

The colonoscope was inserted into the ileum, and a guidewire (Sumitomo Bake-lite Co., Ltd., Tokyo, Japan) was placed through the scope to the proximal side of the bleeding ulcer (Video 1). Using guidewire assistance (Video 1), the colonoscope-mounted over-the-scope clip (OTSC) was inserted from the anal side toward the refractory bleeding ulcer in the terminal ileum. The ulcer floor had an exposed vessel and bleeding was continuous. The entire ulcer was suctioned into the application cap, and one OTSC was released. The OTSC was deployed successfully.

Fig. 1 Endoscopic image of the terminal ileum showing a refractory ulcer with active bleeding. An exposed vessel was present on the ulcer floor.

Fig. 2 Radiograph showing the placement of the guidewire through the colonoscope to the proximal side of the bleeding ulcer.

Fig. 3 Radiograph showing safe guidewire-assisted delivery of the over-the-scope clip mounted on the colonoscope.

Fig. 1 Endoscopic image of the terminal ileum showing a refractory ulcer with active bleeding. An exposed vessel was present on the ulcer floor.
mounted with the OTSC was inserted safely toward the bleeding site (Fig. 4). The entire ulcer was suctioned into the application cap, and the OTSC was deployed successfully (Fig. 5). This guidewire-assisted delivery method is a valuable and safe method of OTSC delivery in the small and large intestine.

Competing interests: None

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