An 83-year-old woman on long-term warfarin and aspirin therapy after aortic valve replacement and coronary stent intervention underwent esophagastroduodenoscopy for anemia. A protruded lesion was found on the anterior side of the greater curvature of the gastric fundus (Fig. 1). This lesion was easily submerged under water in deflation view (Fig. 2). The patient opted for endoscopic submucosal dissection (ESD).

A double-channel gastroscope with a double-bending function provided by independent angulation of two separate sections (GIF-2TQ260M; Olympus, Tokyo, Japan) was used to allow a close approach to the lesion. Because the potential point of bleeding would be obscured in the event of massive bleeding, the patient’s position was changed from left lateral to supine, and the procedure was conducted while the patient was under general anesthesia. With the change of position, the lesion was shifted away from the greater curvature (Fig. 3).

Partial mucosal incision and submucosal dissection were first done from the distal side in retroflexed view (Fig. 4). This allowed good exposure of the distal submucosa and visualization of the point of bleeding with traction toward the proximal side [1]. Therefore, hemostasis subsequently became easier, and ESD was completed without severe bleeding.

After prophylactic coagulation of the mucosal defect, an endoloop was opened through the first channel, and an endoclip was prepared through the other channel. We hooked the endoclip onto the endoloop and then used the hooked endoclip to anchor the endoloop. Additional endoclips were used to fix the endoloop along the edge of the mucosal defect (Fig. 5). The mucosal defect was successfully closed by tightening the fixed endoloop (Video 1), as in the report of Matsuda et al. [2].

Second-look endoscopy on day 2 after ESD showed sustained complete closure with the tightened endoloop (Fig. 6). The patient was discharged 5 days after ESD without any complication. Examination of the resected specimen indicated a well-differentiated tubular adenocarcinoma, 29 mm in size, with a depth to the deep submucosa and a free margin.

This case highlights the following technical points: First, it is quite important to maintain an adequate operative field to conduct a difficult gastric ESD. Second, appropriate accessories and scopes should be available to close large defects. Delayed
bleeding after gastric ESD is more common in patients on anticoagulant therapy [3,4], and complete closure of the mucosal defect with an endoloop and endoclips can prevent delayed bleeding, as shown in this case.

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Seiichiro Abe, Ichiro Oda, Genki Mori, Satoru Nonaka, Haruhisa Suzuki, Shigetaka Yoshianaga, Yutaka Saito

Endoscopy Division, National Cancer Center Hospital, Tokyo, Japan

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Corresponding author

Seiichiro Abe, MD
Endoscopy Division
National Cancer Center Hospital
5-1-1 Tsukiji Chuo-ku
Tokyo 104-0045 Japan
Fax: +81-3-3542-3815
seabe@ncc.go.jp