Successful Hemostasis Using an Over-the-scope Clip for a Dieulafoy’s Lesion in the Greater Curvature of the Fundus

Dieulafoy’s lesion is a relatively uncommon, occasionally fatal, cause of gastrointestinal bleeding. Endoscopy is useful for its diagnosis/treatment [1–3]. We report a case of bleeding from a Dieulafoy’s lesion in the greater curvature of the fundus treated using an over-the-scope clip (OTSC) (Ovesco Endoscopy AG, Tübingen, Germany).

A 72-year-old man presented with fainting and shock. Computed tomography revealed an exposed blood vessel with a major axis of 6 mm in the fundus and no extravasation (▶Fig. 1). Endoscopy revealed a Dieulafoy’s lesion in the greater curvature of the fundus (▶Fig. 2). We performed endoscopic hemostasis using OTSC (▶Video 1). The following day, hemostasis was confirmed on endoscopy (▶Fig. 3). The patient was discharged on hospital day 5.

Dieulafoy’s lesion in the stomach commonly occurs in the lesser curvature [2]. A lesion can be detected by endoscopy in only 71% of patients [1], because securing the visual field is difficult owing to the large amount of blood and small lesion size [2]. Moreover, as in this case, blood and food residue accumulate in the greater curvature of the fundus, making it difficult to locate a lesion during urgent endoscopy. Rebleeding during endoscopic treatment causes further difficulty in securing a visual field. For Dieulafoy’s lesions, injection treatment, thermal coagulation, and mechanical therapy (clipping and band ligation) are endoscopic hemostasis approaches. Although outcomes have improved because of advances in endoscopy, results remain unsatisfactory owing to difficulty in hemostasis (5.9%), rebleeding (10.2%), transition to surgical treatment (4.6%), and death (1.4%) [3].

OTSC is effective as a first-line and second-line treatment for peptic ulcers [4,5] (injection therapy and through-the-scope clips are ineffective). OTSC was selected based on the large vessel diameter and lesion site in this case, because we believe OTSC does not induce bleeding, unlike other mechanical hemostatic devices.

We considered OTSC to be an effective device for treating a Dieulafoy’s lesion.

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Competing interests

None

The authors

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▶Fig. 1 CT image of an abnormally expanded, meandering submucosal artery with a major axis of 6 mm was observed in the fundus of the stomach in: a axial image of the arterial phase, and b coronal image of the arterial phase. There was no clear extravasation. c Axial image of the equilibrium phase. There was no clear extravasation in the equilibrium phase. d Three-dimensional computed tomography angiography. There were abnormal expansion/meanders of the left gastric artery in the fundus.
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