Novel treatment of a gastric Dieulafoy lesion with an over-the-scope clip

A 74-year-old man presented with recurrent obscure, overt, life-threatening gastrointestinal bleeding. Esophagogastroduodenoscopy (EGD) showed blood in the fundus and a nonbleeding Dieulafoy lesion at the lesser curvature of the stomach (● Fig. 1). Due to the tangential position and large size of the lesion, thermal therapy or through-the-scope clipping were not carried out and an over-the-scope clip (Ovesco, Tübingen, Germany) was successfully deployed across the lesion (● Fig. 2).

A Dieulafoy lesion is a congenital defect consisting of an abnormally large, tortuous submucosal artery that has the potential to bleed through a small mucosal defect and is typically found in the lesser curvature of the stomach. At times, traditional methods for treating the lesion can be unsuccessful. An over-the-scope clip (Ovesco, Tübingen, Germany) has been developed for the closure of small mural defects [1]. It is thought to obtain a more sturdy closure compared with endoclips due to its capacity to grasp more visceral tissue and apply a greater compressive force.

This is the first case report from North America describing the use of the over-the-scope clipping device for the management of a Dieulafoy lesion. Animal and cadaveric trials have shown the over-the-scope clip to be more effective for spurting arterial bleeding [2]. Mangiavillano and colleagues published the first video report of over-the-scope clip treatment of a refractory Dieulafoy lesion [3]. Kratt and colleagues described a success rate of 94.2% with the over-the-scope clip in 60 patients with various causes of gastrointestinal bleeding, including three Dieulafoy lesions [4]. Kirschniak and colleagues reviewed 50 patients treated at a single center for dif-

Fig. 1 Dieulafoy lesion in the lesser curvature of stomach of a 74-year-old man with recurrent obscure, overt, life-threatening gastrointestinal bleeding.

Fig. 2 Deployment of the over-the-scope clip.

ferent indications with the over-the-scope clip, including hemostasis and perforations [5]. The primary treatment was successful in all cases, including one gastric Dieulafoy. The over-the-scope clip may have the potential for being part of the routine armamentarium for endoscopic control of large vascular ectasias.

Endoscopy_UCTN_Code_TTT_1AO_2AD

Competing interests: None

V. Gómez, K. R. Kyanam Kabir Baig, F. J. Lukens, T. Woodward

Department of Gastroenterology and Hepatology, Mayo Clinic, Jacksonville, Florida, USA

References

- 1 Kirschniak A, Kratt T, Stuker D et al. A new endoscopic over-the-scope clip system for treatment of lesions and bleeding in the GI tract: first clinical experience. *Gastrointest Endosc* 2007; 66: 162–167
- 2 Naegel A, Bolz J, Zopf Y et al. Hemodynamic efficacy of the over-the-scope clip in an established porcine cadaveric model for spurting bleeding. *Gastrointest Endosc* 2012; 75: 152–159
- 3 Mangiavillano B, Arena M, Morandi E et al. Trattamento con OVESCO® di una Dieulafoy gastrica resistente a multipli trattamenti endoscopici tradizionali. 2012; Available at: www.siedwebtv.it, Accessed October 1, 2012
- 4 Kratt T, Stüker D, Küper M et al. Das Over-The-Scope-Clip-System (OTSC): Erfahrungen in der klinischen Anwendung bei 60 Patienten. *Z Gastroenterol* 2010; 48: 584
- 5 Kirschniak A, Subotova N, Zieker D et al. The Over-The-Scope Clip (OTSC) for the treatment of gastrointestinal bleeding, perforations, and fistulas. *Surg Endosc* 2011; 25: 2901–2905

Bibliography

DOI <http://dx.doi.org/10.1055/s-0032-1326073>
Endoscopy 2013; 45: E71
 © Georg Thieme Verlag KG
 Stuttgart · New York
 ISSN 0013-726X

Corresponding author

V. Gómez
 Mayo Clinic
 4500 San Pablo Road South
 Jacksonville
 FL 32224
 USA
 Fax: +1-904-9536225
gomez.victoria@mayo.edu