A 56-year-old woman was transferred to our hospital 1 day after balloon dilation for recently diagnosed achalasia that had been complicated by transmural esophageal perforation. Physical examination revealed tachycardia and fever, as well as left-sided pleural fluid. Emergency surgery was performed, which involved transthoracic primary closure of a 4-cm long transmural perforation, debridement of the left pleural cavity, and placement of a thoracic drain. Despite the patient making an initial recovery, signs of inflammation recurred 1 week after surgery, with production of increased fluid via the drain. Esophagogastroduodenoscopy revealed the surgical sutures just proximal to the esophagogastric junction and at least two locations where these sutures had given way resulting in recurrent perforation (Fig. 1). Clipping was considered unlikely to be helpful because of the size of the perforation. Stent placement was not considered to be a useful option because of the wide diameter of the esophagus. Therefore, an over-the-scope clip (OTSC, Ovesco Endoscopy GmbH, Tübingen, Germany) was deployed to close the perforation (Fig. 2). Subsequent application of methylene blue did not result in staining of the drainage fluid, which suggested immediate complete closure had been achieved. The thoracic drain was able to be removed 1 week after the endoscopic procedure, and oral intake was reinstated after a barium swallow showed no leakage of contrast medium. The patient was discharged in a good clinical condition 10 days after the procedure.

Esophageal perforation occurs in approximately 2% of balloon dilations being performed for achalasia [1]. Nonsurgical management is feasible, with favorable short-term and long-term outcomes, but in our patient severe systemic inflammation required closure of the perforation and debridement of the pleural space [2]. The OTSC system has been developed for treatment of gastrointestinal bleeding and colonic perforations [3]. Recently, its use in postoperative esophageal leaks has been described as well [4,5]. This clipping device is relatively easy to use and may play an important role in primary closure of (iatrogenic) gastrointestinal perforations, as well as being a second-line treatment after failed surgical therapy.

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S. J. B. Van Weyenberg1, N. K. de Boer1, B. M. Zonderhuis2, D. L. van der Peet2

1 Department of Gastroenterology and Hepatology, VU University Medical Centre, Amsterdam, The Netherlands
2 Department of Surgery, VU University Medical Centre, Amsterdam, The Netherlands

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Corresponding author
S. J. B. Van Weyenberg, MD
Department of Gastroenterology and Hepatology
VU University Medical Centre
De Boelelaan 1118
1081 HV Amsterdam
The Netherlands
Fax: +31-20-4440554
sjb.vanweyenberg@vumc.nl