The reported incidence of anastomotic leaks is between 5% and 25%. Depending on the position and dimensions of the leaks, they are associated with a mortality of up to 60% [1]. So far endoluminal vacuum therapy has mainly been used for treatment of anastomotic insufficiencies of the rectum [2]. Its use in the esophagus was first reported in 2007 and in only three more cases since then [3–5]. Here we report a case of a 67-year-old man who developed an anastomotic insufficiency following gastrectomy. Postoperatively, the patient presented a severely septic clinical picture and therefore surgical revision was impossible. He was ventilated and given antibiotics. On endoscopic examination 7 days after gastrectomy, a 1-cm leak covering 30% of the anastomotic circumference was noted, with an abdominal fistula. We started endoluminal vacuum therapy by endoscopic insertion of the Endo-SPONGE system (B. Braun Melsungen AG, Melsungen, Germany; Fig. 1) into the esophagus. The Endo-SPONGE is an open-pored polyurethane sponge. Before insertion, we adjusted its size according to the local topography of the esophagus (Fig. 2). The suction tube was extended with a nasogastric tube and secretions were continuously evacuated with a suction of 13.3 kPa. Following daily suction...

Fig. 1 The Endo-SPONGE system: the sponge and drain.

Fig. 2 Adjusting the sponge size.

Fig. 3 Endoscopic views at the start of the treatment showing: a the anastomotic leak; and b the abdominal cavity, seen through the fistula.

Fig. 4 View at completion of endoluminal vacuum therapy: a epithelialization of the abdominal fistula; and b the closed anastomotic leak.
of 200–400 mL of secretions, the patient’s condition improved remarkably within a few days. We carried out the procedure for a total of 18 days, changing the Endo-SPONGE system every second or third day. The abdominal fistula underwent marked reduction and the anastomotic area epithelialized (Fig. 4). The leak was no longer detectable on radiographs and the patient recovered completely.

In summary, endoluminal vacuum therapy offers an alternative method for the treatment of complicated anastomotic insufficiency following esophageal or gastric surgery.

**Competing interests:** None

References


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Endoscopy 2010; 42: E165–E166
© Georg Thieme Verlag KG Stuttgart · New York · ISSN 0013-726X

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Wallstabe I et al. Endoscopic therapy for anastomotic insufficiency... Endoscopy 2010; 42: E165–E166