A 57-year-old patient with a T3, cN0, G2, M0 esophageal squamous cell cancer received neoadjuvant radiochemotherapy according to the CROSS trial. After successful esophagectomy and consecutive gastroesophageal anastomosis, the patient recovered appropriately. Unfortunately, the patient developed circular anastomotic insufficiency with two cavities at Day 7 (Fig. 1). One of the cavities arose from the circular insufficiency (2×2 cm), and the other was formed by a stapler insufficiency of the stomach (3×2 cm). The final tumor stage was histologically proven to be ypT0, N0, cM0, L0, V0, R0.

We started repetitive endoluminal vacuum therapy (Endo-Sponge; B. Braun, Melsungen, Germany) for a treatment period of 2 months (Video 1). Owing to the remarkable dimension of the cavities, we decided initially to place two devices per insufficiency (Fig. 2), and in total, 11 device replacements were performed. After 2 weeks of treatment, the use of one Endo-Sponge appeared to be sufficient to cover all areas of insufficiency. A negative intracavitary pressure was applied (15–20 mmHg) in order to avoid the development of pulmonary fistula. Antibiotic and antifungal treatment was also administered during the first 2 weeks of the vacuum therapy. The patient received parenteral nutrition but was allowed to drink liquids during the treatment period (Fig. 3). Unfortunately, despite appropriate endoscopic procedures and frequent Endo-Sponge exchange, the insufficiencies failed to heal and the cavities persisted. Therefore, a more aggressive endoscopic therapeutic approach was initiated (Video 1). We utilized cytological brushes and argon plasma coagulation at the edges of cavital insufficiencies in order to induce vascular spreading and wound granulation (Fig. 4). Fibrotic tissue and surgical staple sutures were endoscopically removed using cutting devices and graspers. Mucosal bridges were cut by needle-knife incision, leading to development of a neostomach and esophagogastric continuity. In addition, epithelial mucosa spreading occurred, evolving from the upper esophageal tissue.

After 2 months of endoscopic treatment, neither fistula nor anastomotic insufficiencies were detectable. In addition, a neostomach had been created, consisting of mediastinal parietal pleura, the distal esophagus, and the remnant stom-
ach (▶ Fig. 5). Continuity was proven by barium swallow.
Endoluminal vacuum therapy and esophageal stenting are established treatment options for anastomotic insufficiencies following esophageal resection [1, 2]. Whether stent placement is superior to vacuum therapy remains to be discussed, but preliminary data are in favor of vacuum therapy [3, 4].

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Competing interests

None

The authors

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References


Bibliography

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