A 66-year-old man with pancreatic cancer developed an anastomotic leakage of the pancreaticogastrostomy 15 days after pylorus-preserving pancreaticoduodenectomy. An easy-flow drain was identified endoscopically in the extraluminal cavity.

Two-sided sponge (TSS) treatment was initiated [1]. A gastric tube was attached to the outer end of the drain with adhesive tape (Opsite Flexfix; Smith & Nephew Medical, Hull, UK). The drain was then grasped inside the cavity with a forceps (foreign-body removing forceps; MTW Endoskopie Manufaktur, Wesel, Germany) ▶Fig. 1, ▶Video 1). The drain was orally removed, with the gastric tube still attached to its end. The TSS (Braun, Melsungen, Germany) ▶Fig. 2 was connected to the gastric tube by adhesive tape, and was drawn into the cavity by pulling the abdominal end of the gastric tube. The oral end of the TSS tube was nasally diverted (▶Video 1). Both ends of the TSS tube were connected to a vacuum pump (~30 mmHg).

When the TSS was changed at day 5, a clean cavity was seen (▶Fig. 3, ▶Video 1). At day 9, sponge-induced granulation tissue was seen (▶Video 1). A rubber drain was introduced (▶Fig. 4) to promote the formation of granulation tissue and thus definitive healing. At day...
12, only a fistula opening persisted (▶Fig. 5). The rubber drain was successively drawn back externally.

Rectal endoscopic vacuum treatment (EVT) with the Endo-SPONGE is well established. Recently a comparable system (Eso-SPONGE; Braun) has been launched for upper gastrointestinal leaks [2, 3]. The sponge is placed similarly, via an overtube. Given the diameter of the overtube, leaks have to reach a diameter of 17 mm (manufacturer’s specifications for the smaller Eso-SPONGE version). For smaller anastomotic insufficiencies, sponges may be mounted individually on a gastric tube [2, 4]. Introduction into an extraluminal cavity using an endoscopic “backpack technique” is demanding [5], and also it is difficult to access angulated entrances because of the stiffness of the overtube. Use of the TSS (▶Fig. 2) may simplify these challenges [1]. The sponge is pulled to the target site, which is easier and faster compared to the backpack technique. However, an accessible drain in the extraluminal cavity is required (▶Fig. 6). In anatomically difficult situations the TSS might simplify and extend the therapeutic EVT spectrum.
Competing interests

All authors declare no conflicts of interests for this article.

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