A 70-year-old man with an adenocarcinoma of the gastroesophageal junction developed an anastomotic leak three weeks after Ivor Lewis esophagectomy. Initially, a fully covered metal stent was placed, but after stent redraw, endoscopy revealed the persistence of the leak and an associated 5-cm cavity (Fig. 1). Endoluminal vacuum-assisted therapy was then considered. Since at that time there were no available kits in our country for this procedure in the upper gastrointestinal tract, open-pore polyurethane foam attached to a nasogastric tube (NGT) was used (Fig. 2).

During the procedure, the sponge must be inserted into the deepest point of the cavity, which is the most demanding part of the procedure. There are several methods for sponge placement [1]: a) advancing or pulling with grasping forceps [2]; b) using the piggyback method, where a suture loop secured to the tip of the NGT is grasped with endoscopic forceps and passed into the cavity [3]; c) placing the sponge through an overtube [2, 4]; and d) passing the sponge into the esophagus using a rendezvous technique [5]. Regardless of the method used, the final position of the foam frequently needs to be adjusted endoscopically.

In this case we used a modified overtube technique (Video 1). The overtube was placed proximal to the cavity. A guidewire was advanced into the deepest point of the cavity (Fig. 3). The sponge attached to the nasogastric tube was inserted into the cavity through the overtube (Fig. 4).
passed over the guidewire through the overtube (▶Fig. 4) and pushed into the cavity using a pushing probe. The final position of the sponge was confirmed endoscopically (▶Fig. 5).

The sponge was replaced every 3 to 4 days for 8 weeks with gradual debridement and reduction of the cavity. This technique guarantees that the sponge is correctly placed into the cavity, avoiding the need to adjust the position with endoscopic forceps, which can be extremely challenging.

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