Novel lumen-apposing stent to treat benign esophageal stricture

A 58-year-old patient underwent an esophageal epiphrenic diverticulum resection with a video thoracoscopic approach. The surgery was complicated by an esophageal pleural fistula, which was successfully treated using a fully covered self-expandable metal stent. One week after stent removal the patient experienced dysphagia and vomiting. The endoscopy showed a short esophageal stenosis in the proximal esophagus about 25 cm from the dental arch (Fig. 1a).

Two consecutive endoscopic hydropneumatic balloon dilations of the stenosis were attempted but failed, as the stenosis recurred. In order to achieve the desired dual effect of maintaining the patency of the esophageal lumen while continuing dilation, we decided to place a novel lumen-apposing fully covered metal stent (Spaxus stent—body diameter 16 mm, flare diameter 31 mm, length 20 mm; Taewoong Medical Co., Gyeonggi-do, South Korea) (Fig. 2).

Under endoscopic and fluoroscopic guidance, we released the stent across the stricture (Fig. 1b, Video 1). The contrast dye injection showed correct placement of the stent, which kept the esophageal lumen open. The patient was fed a liquid diet 24 hours later, and 1 week later, the patient started a semi-liquid diet.

At 2 months after stent placement, using crocodile tooth forceps, we grasped the knot situated in the proximal flange of the released stent (Fig. 1c). There were no peri-procedural or delayed adverse events. Following removal of the stent, the patient was put on a normal diet. The post-treatment 6-month follow-up showed no recurrence (Fig. 1d).

Refractory benign esophageal strictures can be a challenge for clinicians. After failure of standard therapeutic options,
Stent placement can be considered as a strategy to avoid surgery, with its attendant risks of morbidity and mortality. Placement of lumen-apposing stents for treatment of short stenoses is technically easy, and safe. Furthermore, the Spaxus architecture helps to prevent migration, which occurs at a high rate when using conventional fully covered metal stents.

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Competing interests

None

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