Endoscopic stricturotomy for a refractory complex esophageal stricture

Benign esophageal strictures present a frequent endoscopic challenge [1–4]. Endoscopic stricturotomy using an electrocautery technique is effective for simple or short strictures (<1 cm) [5]; however, there are few reports of its application for complex or long (>1 cm) esophageal strictures.

A 69-year-old man presented to our institution with dysphagia and a complex benign distal esophageal stricture. He was initially treated with three serial endoscopic balloon dilations up to 12 mm, followed by placement of an esophageal stent. Following removal of the stent, the patient developed recurrence of the distal esophageal stricture. He was evaluated by the thoracic surgery team for possible distal esophagectomy, but was deemed a high risk surgical candidate.

On repeat endoscopy (▶ Video 1), a severe stenosis was noted at 34 cm from the incisors (▶ Fig. 1), measuring 1 mm in diameter and 4 cm in length (▶ Fig. 2). A submucosal injection of methylene blue and saline solution proximal to the stricture was used to create a cushion to perform the stricturotomy (▶ Fig. 3a). The stenosis was first carefully incised with a dissection knife, initially the IT2 (Olympus, Tokyo, Japan) and then the DualKnife (Olympus, Tokyo, Japan), using a combination of Endocut Q and forced coagulation. A guidewire was passed through the pinhole opening, delineating the esophageal lumen. We continued to incise the fibrotic tissue of the stenosis carefully in layers, until it was possible to pass the gastroscope through it (▶ Fig. 3b). Contrast injection revealed no leakage and improved passage of the contrast into the gastric body. To allow for esophageal remodeling, the distal esophagus was then stented with a 23 x 100-mm EndoMAXX fully covered stent (▶ Fig. 3c). The procedure was technically successful and there were no adverse events. During follow-up at 3 weeks, the patient reported tolerating an oral solid diet without recurrence of symptoms.

Endoscopic stricturotomy appears technically feasible and may prove a useful treatment for refractory and complex endoscopic strictures.

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Competing interests

The authors declare that they have no conflict of interest.

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