A 58-year-old man was referred to our hospital because of the large extent of his esophageal cancer. Gastroendoscopy with iodine staining showed a 17-cm long circumferential lesion.

An endoscopic submucosal tunnel dissection (ESTD) procedure was performed (▶ Video 1). First, the margins were checked. Submucosal injection and circumferential incision were done at the proximal margin. The distal margin was also injected and incised. Submucosal tunnel dissection was done from the oral side to the anal side in all four directions. Lateral resection was performed using both the IT2 knife (KD-611L; Olympus, Japan) and a dual knife (KD-650Q; Olympus). When fibrotic lesions were encountered, the SB knife (Sumitomo Bakelite, Japan) was used. With repeated injections and dissections, the anal side was finally reached, and the remnant lesion was cut.

Self-expandable fully covered stents (M.I. Tech, Pyeongtaek-si, Gyeonggi-do, Korea) were coated with polyglycolic acid (PGA) sheets (Neoveil; Gunze, Kyoto, Japan). In this patient, the two PGA-coated stents were placed to make a continuous length.

▶ Fig. 1 presents details of the esophageal cancer specimen resulting from the entire circumferential resection. The procedure took 6 hours with the patient under general anesthesia and there were no immediate complications. The stents were removed after 2 months (▶ Fig. 2a). No severe stricture was seen at gastroendoscopy 4 months after ESTD (▶ Fig. 2b).

Circumferential esophageal lesions are usually treated by ESTD [1]. However, postoperative esophageal stricture is the most common concern following very extensive ESTD [2]. Repeated endoscopic balloon dilations and steroid injection have been the standard treatment for postoperative esophageal strictures [3,4]. The PGA material has been marketed as a biodegradable synthetic suture. In previous studies, it has been speculated that PGA protects the wound surface from contact with exogenous materials, helps subsequent organization of the granulation tissue, and results in less cicatrization [5]. Our case explored the attractive option of using a PGA-coated stent to prevent esophageal stricture, even in a 17-cm long esophageal ESTD.

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Competing interests

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