We report the case of an 83-year-old man with past medical history of hypertension who was initially referred for the evaluation of newly diagnosed squamous cell cancer (SCC) of the esophagus. An endoscopic ultrasound was performed and showed a medium-sized flat lesion in the mid-esophagus, which appeared to be invading the muscularis mucosa (T1a). During a multidisciplinary meeting, it was decided that the patient would benefit from an endoscopic submucosal dissection of the lesion.

A medium-sized, flat lesion with no bleeding and no stigmata of recent bleeding was found in the upper third of the esophagus, 26–29 cm from the incisors. The mass was nonobstructing and partially circumferential. Using optical coherence tomography (Ninepoint Medical, Bedford, Massachusetts, USA), the lesion was confirmed to be T1 without invasion into the submucosa.

A GIF-H180 endoscope (Olympus, Tokyo, Japan) with a transparent cap was advanced to lesion. The borders of the lesion were marked circumferentially with a multipurpose knife (T knife; Erbe USA, Marietta, Georgia, USA). First, 10 mL of saline with methylene blue was injected proximally to the lesion. A tunnel was created to the distal margin of the lesion and opened laterally. There was significant scaring in the submucosal space making dissection difficult (Fig. 1, Video 1). After careful dissection of the submucosal space, the lateral and distal borders were dissected with an IT2 knife (Olympus, Center Valley, Pennsylvania, USA). The lesion was completely removed en bloc and sent for histologic evaluation. The GIF-XP180 scope was inserted through the right nostril into the stomach. Enteral feeding was started in order to allow the site to heal by secondary intention.

On 1-week follow-up, the patient had no complaints and was tolerating solid food. Based on the pathology, the resection margins were negative for carcinoma and dysplasia.

SCC of the esophagus is the most common histologic type of esophageal cancer in Asia, with lower incidence in the United States [1]. Historically, surgery was thought to be the gold standard treatment for these patients; however, esophageal ESD could be more difficult owing to the thinner wall and narrow lumen of the esophagus. Therefore, inspired by peroral endoscopic myotomy, endoscopic submucosal tunnel dissection (ESTD) has been developed for en bloc resection of these lesions, with promising results [4, 5]. This case demonstrates successful management of early SCC of the esophagus with ESTD.

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Competing interests

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