A 47-year-old man came to our hospital with half a year’s history of chest discomfort. An upper gastrointestinal endoscopy detected seven protruding lesions distributed in a dispersed fashion on different areas of the esophageal walls (▶Fig. 1), about 23–32 cm from the incisors. Endoscopic ultrasound (EUS) revealed the tumors to be originating from the muscularis propria layer, without any malignant features (▶Fig. 2). Although he was told that a “wait and see” approach could be taken at first, the patient requested active treatment.

Given our previous success in creating a tortuous tunnel to resect two contralateral esophageal leiomyomas [1], submucosal tunneling endoscopic resection (STER) was performed. A longitudinal mucosal incision was made on the axis where most of the tumors were located, 3 cm above the most proximal one. A submucosal tunnel was created, and the first tumor was revealed. The second one was not aligned with the first, so could not be directly reached by a straight tunnel; therefore, a tortuous tunnel was created. Methylene blue was injected at the site of the second tumor, indicating the tunnel route, and the two tumors were identified (▶Fig. 3 a). We then repeated the submucosal injection and tunneling procedure from the oral side to the anal side, and identified the seven tumors one by one. All of the tumors were then clearly exposed. Meticulous resection was performed with an insulated-tip knife (IT knife), and all of the tumors were dissected off the muscularis propria layer (▶Fig. 3 b, c). Visible blood vessels were coagulated, and the mucosal entry site was closed (▶Video 1).

The procedure took 190 minutes and there were no adverse events. The diameter of the largest tumor was 1.8 cm and all of the tumors were leiomyomas histopathologically (▶Fig. 4). The patient did not complain of further chest discomfort during the 3-month follow-up period, and no recurrence was noticed.

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Video 1  Endoscopic appearance of seven esophageal submucosal tumors, and the procedure for their resection by the submucosal tunneling endoscopic resection (STER) technique.

Competing interests
None

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