This is the first report of successful endoscopic resection of an esophageal liposarcoma, in which the patient’s main symptom was dysphagia as a nonspecific sign [1, 2]. The differential diagnosis of this type of lesion includes leiomyoma, lipoma, gastrointestinal stromal tumor (GIST), and sarcoma [2–6]. The first case of a liposarcoma within the esophagus was reported in 1983 [2, 7]. In a 60-year-old man, endoscopic ultrasonography (EUS) revealed a pedunculated tumor (4 × 4 × 20 cm in size) originating at the oral orifice of the esophagus and hanging down to the cardia along the wall of the esophagus (there were no enlarged locoregional lymph nodes) (Figure 1, 2). The patient declined surgery. A loop was placed from the tip to the base of the pedunculated tumor near the oral esophageal orifice, which made it possible to remove part of the tumor using diathermy. Bleeding at the tumor transection site was stopped with Hemoclips and epinephrine administration. The specimen was removed with an esophageal tube. The patient reported slight dysphagia and a foreign-body sensation in the pharynx. The residual tumor was therefore subsequently removed using an Inoue cap (a novel technique), into which the peduncle of the tumor was sucked and partially ablated with the loop at its anterior part, followed by dissection of the posterior part with the needle-knife (Figure 3). A check-up endoscopy showed no detectable residual tumor. Histological examination showed that the lesion was a dedifferentiated liposarcoma, with a dedifferentiating component of low malignancy with a good prognosis, including a highly differentiated adipocytic tumor component. The patient was discharged on the third day after the procedure. Check-up endoscopic examinations after 2, 4, and 12 months showed no recurrent tumor growth.

Esophageal liposarcomas are rare [2, 3, 5, 6, 8]; only 13 case reports are found in the literature, only some of which describe lesions of similarly gigantic size [1–4, 7–9]. None of the previous reports have described curative resection of an esophageal liposarcoma as in this case [2–4, 6, 9]. We favored EUS and repeated endoscopy for diagnosis of the lesion [1] instead of the computed tomography and magnetic resonance imaging procedures that are usually used [9, 10]. Endoscopic resection was preferred to excision for this gigantic esophageal tumor for the following reasons:

- The patient expressed a strong desire to have a nonsurgical approach.
- There was EUS evidence of nonmalignant tumor characteristics.
- There was esophagoscopic evidence of a tumor peduncle.
- There was a potential for curative resection.

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Figure 3 Specimens of the endoscopically excised esophageal liposarcoma. a The lower (aboral) two-thirds of the lesion, showing the flat resection area after the first resection step. b The oral third and smaller particles after the second resection procedure using Inoue’s cap, loop, and the needle-knife.