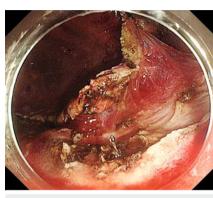
# Whole-fornix endoscopic submucosal dissection for gastric mucosal adenocarcinoma



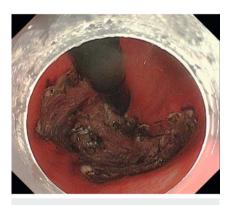
► Fig. 1 A huge superficial elevated lesion was observed in the entire fornix, after marking.



► Fig. 2 The dissecting plane of the submucosal layer was distinctly observed by pulling the clip-and-line system.



► Fig. 3 The use of multiple clip-and-line procedures facilitated submucosal dissection from both the anterior and posterior sides



► **Fig. 4** Mucosal defect after endoscopic submucosal dissection.



▶ Fig. 5 The lesion was resected en bloc.

A 69-year-old man with a history of radiation therapy for gastric malignant lymphoma had undergone follow-up esophagogastroduodenoscopy (EGD) at a previous institution, and a superficial elevated lesion was found at the fornix. Examination of a biopsied specimen revealed well-differentiated adenocarcinoma. Endoscopic submucosal dissection (ESD) was attempted, but the procedure was stopped because Mallory-Weiss syndrome occurred in and around the lesion during endoscopic observation immediately before starting ESD. The patient was then referred to our hospital for fur-

ther treatment. EGD at our institution revealed a huge superficial lesion occupying the whole fornix (**Fig.1**). As no evidence of invasive cancer was found, we performed endoscopic resection.

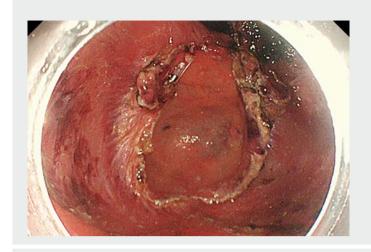
A multi-bending two-channel scope (GIF-2TQ260M; Olympus Medical Systems, Tokyo, Japan) was used because this device can closely approach the fornix. We performed traction-assisted ESD using the clip-and-line technique [1–4]. After performing a mucosal incision on the anterior side of the lesion using a FlushKnife BT (DK2618JB15; Fujifilm Medical, Tokyo, Japan) and an

ITknife2 (KD-611L; Olympus Medical Systems), we grasped the anterior side of the specimen with the clip-and-line technique. The dissecting plane of the submucosal layer was distinctly observed by pulling the line (> Fig. 2), and submucosal dissection was then easily performed. After creating a circumferential incision, a second clip-and-line procedure was applied to facilitate submucosal dissection of the anterior wall [5] (▶ Fig. 3). Perforation occurred during dissection, but the defect was promptly closed by endoscopic clipping. Using a third clip-andline procedure on the greater curvature side of the specimen, the specimen was resected en bloc (▶ Fig. 4, ▶ Fig. 5). The pathological diagnosis of the resected specimen was an intramucosal adenocarcinoma with a diameter of 110 × 48 mm.

Endoscopy\_UCTN\_Code\_CPL\_1AH\_2AZ

# Acknowledgement

We thank Angela Morben, DVM, ELS, from Edanz Group (https://en-author-services.edanzgroup. com/), for editing a draft of this manuscript.





▶ Video 1 Whole-fornix endoscopic submucosal dissection for gastric mucosal adenocarcinoma.

### Competing interests

The authors declare that they have no conflict of interest.

#### The authors

Satoki Shichijo, Yoji Takeuchi, Hiromu Fukuda, Akira Maekawa, Takashi Kanesaka, Noriya Uedo, Ryu Ishihara

Department of Gastrointestinal Oncology, Osaka International Cancer Institute, Osaka, Japan

## Corresponding author

#### Satoki Shichijo, MD, PhD

Department of Gastrointestinal Oncology, Osaka International Cancer Institute, 3-1-69 Otemae, Cyuo-ku, Osaka 541-8567, Japan

Fax: +81-6-69814067 shichijiyou-tky@umin.ac.jp

#### References

- [1] Yoshida M, Takizawa K, Suzuki S et al. Conventional versus traction-assisted endoscopic submucosal dissection for gastric neoplasms: a multicenter, randomized controlled trial (with video). Gastrointest Endosc 2018; 87: 1231–1240
- [2] Oyama T. Counter traction makes endoscopic submucosal dissection easier. Clin Endosc 2012; 45: 375–378

- [3] Shichijo S, Yamasaki Y, Takeuchi Y. Case of colonic adenoma involving a diverticulum resected by a traction-assisted endoscopic submucosal dissection technique. Dig Endosc 2017: 29: 729–730
- [4] Shichijo S, Takeuchi Y, Matsuno K et al. Pulley traction-assisted colonic endoscopic submucosal dissection: a retrospective case series. Dig Dis 2019; 37: 473–477
- [5] Yamasaki Y, Harada K, Okada H. Tractionassisted endoscopic submucosal dissection for a giant rectal tumor: multiple clip-andthreads technique. Dig Endosc 2018; 30: 697–699

# Bibliography

DOI https://doi.org/10.1055/a-1085-9472 Published online: 22.1.2020 Endoscopy 2020; 52: E243–E244 © Georg Thieme Verlag KG Stuttgart · New York ISSN 0013-726X

# ENDOSCOPY E-VIDEOS https://eref.thieme.de/e-videos



Endoscopy E-Videos is a free access online section, reporting on interesting cases and new

techniques in gastroenterological endoscopy. All papers include a high quality video and all contributions are freely accessible online.

This section has its own submission website at https://mc.manuscriptcentral.com/e-videos