When esophageal neoplasia occurs distally to severe stenosis after prior endoscopic submucosal dissection (ESD) [1, 2], a conventional endoscope cannot pass through. Therefore, a small-caliber endoscope (SCE) must be used. Although transnasal ESD of a small esophageal lesion using an SCE without sedation has been reported [3], it is unclear whether an SCE is feasible for standard ESD with compatible devices. Herein, we report the first case of esophageal ESD using an SCE for a circumferential lesion located distally to severe stenosis. Esophageal carcinoma occurred distally to stenosis after a previous ESD and prevented the passage of a conventional endoscope (Fig. 1). After obtaining written informed consent, ESD using an SCE (EG-L580NM7; Fujifilm, Tokyo, Japan) was performed under general anesthesia. Auxiliary devices included a transparent hood (Nanoshooter; Top Co., Tokyo, Japan) connected to a waterjet generator, electrosurgical unit (VIO3; ERBE Elektromedizin, Tübingen, Germany), a multifunctional snare (SOUTEN; Kaneka Medics, Tokyo, Japan), and a 25-G needle (Super Glip, Top Co.) for local injection of hyaluronate sodium solution.

Hyaluronate sodium was injected locally via a 25-G needle (Super Glip, Top Co.). Hemostasis was achieved with hemostatic forceps (RC1900; Kaneka Medics). Submucosal...
tunnel resection [5], which is a standard strategy for esophageal ESD, comprised the creation of a 10-mm entry point proximal to the stenosis, and a submucosal tunnel (▶ Fig. 3); after penetration of the submucosal tunnel, the residual submucosa was resected (▶ Fig. 4, Video 1). The procedure was completed without complications (▶ Fig. 5). Histological examination of the resected specimen revealed curative resection of squamous cell carcinoma.

The advantages of an SCE are its ability to enter the submucosal space easily and maintain fluent maneuverability in narrow spaces. An SCE and associated equipment are useful for ESD in cases with esophageal stenosis.

Endoscopy_UCTN_Code_TTT_1AO_2AG

Competing interests

None

References


Bibliography

DOI https://doi.org/10.1055/a-1011-3729
Published online: 2019
Endoscopy
© 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

The authors

Noriko Nishiyama1, Hideki Kobara1, Tatsuo Yachida1, Hirohito Mori1, Tingting Shi1, Keiich Okano2, Tsutomu Masaki1
1 Department of Gastroenterology and Neurology, Faculty of Medicine, Kagawa University, Kagawa, Japan
2 Department of Gastroenterological Surgery, Faculty of Medicine, Kagawa University, Kagawa, Japan

Corresponding author

Noriko Nishiyama, MD, PhD
Department of Gastroenterology and Neurology, Faculty of Medicine, Kagawa University, 1750-1 Ikenobe, Kagawa 761-0793, Japan
Fax: 81-87-8912158
n-nori@med.kagawa-u.ac.jp