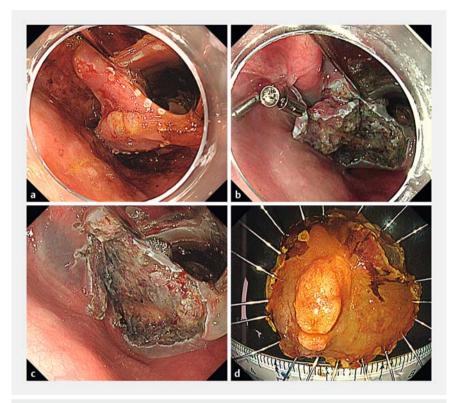
Novel clip-traction band device-assisted endoscopic submucosal dissection for superficial pharyngeal carcinoma



Extracorporeal traction-assisted endoscopic submucosal dissection (ESD) for superficial pharyngeal carcinoma has been useful [1–3]. However, owing to the anatomical features of the larynx and thyroid cartilage, working spaces within the pharynx are narrow. Furthermore, instruments such as intubation tubes, laryngoscopes, grasping forceps [1], and thin endoscopes [2] for traction of the lesion interfere with the endoscope, making endoscopic maneuverability difficult. Methods to overcome such difficulties have been reported in recent years [4,5].

Although clip-and-thread traction is useful [3], the direction of traction cannot be adjusted. Herein, we report the use of a novel clip-traction band device for intraluminal traction to achieve pharyngeal ESD, overcoming the disadvantages of the conventional traction method [1–3]. A 69-year-old man presented with a flatelevated lesion extending from the left pyriform sinus to the aryepiglottic fold (> Fig. 1 a). He had restricted mouth opening due to previous reconstructive surgery and radiation therapy for buccal mucosal carcinoma. The patient underwent ESD under general anesthesia, and laryngeal expansion was performed using a curved laryngoscope to obtain a good view of the entire lesion. After a circumferential incision, a clip-traction band device (Elastic Traction Device; Micro-Tech, Nanjing, China) was deployed. Good traction allowed safe dissection with clear submucosal visualization; however, the traction force gradually decreased as dissection progressed. Therefore, re-traction was attempted using the second ring and en bloc resection was achieved with good traction force maintenance (**Fig. 1 b-d**; **Video 1**). The traction band has two silicone rings which enable the redirection of tension or re-tension. The silicone rings are small and have poor extensibility, making this



▶ Fig. 1 Endoscopic view of clip-traction band device-assisted pharyngeal endoscopic submucosal dissection (ESD). a Lesion after marking. Lack of staining with iodine is observed from the left pyriform sinus to the aryepiglottic fold. b Re-traction of the lesion using a clip-traction band device. c Mucosal defect after ESD. d Resected specimen. The tumor (26×22 mm) was diagnosed as squamous cell carcinoma in situ with no lymphovascular invasion and negative margins.

device suitable for use in the narrow working spaces of the pharynx. Moreover, the maneuverability of the endoscope during submucosal dissection was not restricted because no grasping forceps were required (► Fig. 2). Hence, the cliptraction band device may be a useful tool for pharyngeal ESD.

Endoscopy_UCTN_Code_TTT_1AO_2AC

Competing interests

The authors declare that they have no conflict of interest.

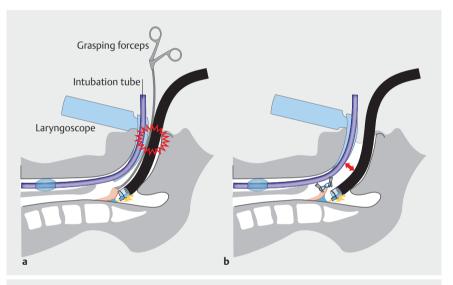
The authors

Tomoaki Tashima¹^Q Takahiro Muramatsu¹^Q Tsubasa Ishikawa¹, Tomonori Kawasaki², Akashi Fujita¹^Q Yuki Tanisaka¹^Q Shomei Ryozawa¹

- 1 Department of Gastroenterology, Saitama Medical University International Medical Center, Saitama, Japan
- 2 Department of Pathology, Saitama Medical University International Medical Center, Saitama, Japan



Video 1 Successful pharyngeal endoscopic submucosal dissection using a novel cliptraction band device.



▶ Fig. 2 Scheme of the differences in working space within the pharynx between grasping forceps traction-assisted ESD and clip-traction band-assisted ESD. a Grasping forceps traction-assisted ESD. The grasping forceps interfere with the endoscope. b Clip-traction band-assisted ESD. Adequate working space for the endoscope is ensured.

Corresponding author

Tomoaki Tashima, MD, PhD

Department of Gastroenterology, Saitama Medical University International Medical Center, 1397-1 Yamane, Hidaka City, Saitama 350-1298, Japan t.tashima1981@gmail.com

References

 Iizuka T, Kikuchi D, Hoteya S et al. A new technique for pharyngeal endoscopic submucosal dissection: peroral countertraction (with video). Gastrointest Endosc 2012; 76: 1034–1038

[2] Yoshio T, Tsuchida T, Ishiyama A et al. Efficacy of double-scope endoscopic submucosal dissection and long-term outcomes of endoscopic resection for superficial pharyngeal cancer. Dig Endosc 2017; 29: 152–159

- [3] Minami H, Tabuchi M, Matsushima K et al. Endoscopic submucosal dissection of the pharyngeal region using anchored hemoclip with surgical thread: a novel method. Endosc Int Open 2016; 4: E828–E831
- [4] Matsuno K, Miyamoto H, Tanaka M. Novel traction method for pharyngeal endoscopic submucosal dissection using ring-shaped thread and grasping forceps. Dig Endosc 2020; 32: e120–e121
- [5] Waki K, Kanesaka T, Ishihara R et al. A soft hood improves maneuverability in narrow spaces during pharyngeal endoscopic submucosal dissection. Endoscopy 2021; 53: E384–E385

Bibliography

Endoscopy 2023; 55: E424–E425 DOI 10.1055/a-2008-0552 ISSN 0013-726X © 2023. The Author(s).

This is an open access article published by Thieme under the terms of the Creative Commons Attribution-NonDerivative-NonCommercial License, permitting copying and reproduction so long as the original work is given appropriate credit. Contents may not be used for commercial purposes, or adapted, remixed, transformed or built upon. (https:// creativecommons.org/licenses/by-nc-nd/4.0/)

Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

©()(\$)=

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



Endoscopy E-Videos is an open 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. Processing charges apply (currently EUR 375), discounts and wavers acc. to HINARI are available.

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