Double-endoscope endoscopic submucosal dissection with snare traction and loop stabilization for adenoma involving appendiceal orifice

Traction during colorectal endoscopic submucosal dissection (ESD) is essential for tackling difficult lesions. Although conventional clip–band-based methods are easy to use, they are difficult to adjust, require flaps, and offer limited traction forces. Using snare traction during double-endoscope ESD (DE-ESD) has proven to be effective in reducing procedure time and overcoming complex anatomical challenges [1, 2]. The 3 cm 0-Ia adenoma was found at the appendiceal orifice in a patient requiring peritoneal dialysis. It was challenging to trim into the submucosa and create a mucosal flap for clip-based traction because bowel folds covered the surrounding area of the lesion and colonic looping obstructed the approach axis (▶ Fig. 1, ▶ Video 1). We inserted two endoscopes, one GIF H290 followed by GIF Q260J (Olympus, Tokyo, Japan), using the previously mentioned method [1]. The looping became more stable and maneuverability improved. Snare traction was created from the traction endoscope by snaring the lesion (▶ Fig. 2). The traction could be adjusted in real time as required (▶ Fig. 3, ▶ Fig. 4). The procedure time was 30 minutes without any complications (▶ Fig. 5). The patient was discharged the day after ESD, and the final pathology revealed a completely resected adenoma. DE-ESD can offer strong adjustable traction and stabilize the colon loop to facilitate resection. With the help of the additional endoscope, the snare traction can provide alternative options for traction that do not rely on clips.

Endoscopy_UCTN_Code_TTT_1AQ_2AD

Conflict of Interest

The authors declare that they have no conflict of interest.

The authors

Hsin-Yu Chen1,2, Chung-Ying Lee3,4,5, Chao-Wen Hsu6,7, Jen-Hao Ye9, Tsung-Hsien Chen9, Kun-Feng Tsai10,11, Chu-Kuang Chou10,12

1 School of Medicine, College of Medicine, Fu Jen Catholic University, Taipei, Taiwan
2 Division of Gastroenterology and Hepatology, Cathay General Hospital, Taipei, Taiwan
3 Division of Gastroenterology and Hepatology, Department of Internal Medicine, Shuang Ho Hospital, Taipei Medical University, New Taipei City, Taiwan
4 Division of Gastroenterology and Hepatology, Department of Internal Medicine, School of Medicine, College of Medicine, Taipei Medical University, Taipei, Taiwan
5 TMU Research Center for Digestive Medicine, Taipei Medical University, Taipei, Taiwan
6 Division of Colorectal Surgery, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan
7 School of Medicine, National Yang-Ming University, Taipei, Taiwan
8 Division of Gastroenterology and Hepatology, Department of Internal Medicine, E-DA DaChang Hospital, I-Shou University, Kaohsiung, Taiwan
9 Department of Internal Medicine, Ditmanson Medical Foundation Chia-Yi Christian Hospital, Chiayi City, Taiwan
10 Department of Internal Medicine, Gastroenterology and Hepatology Section, An Nan Hospital, China Medical University, Tainan, Taiwan
11 Department of Medical Sciences Industry, Chang Jung Christian University, Tainan, Taiwan
12 Division of Gastroenterology and Hepatology, Department of Internal Medicine, Ditmanson Medical Foundation Chia-Yi Christian Hospital, Chiayi, Taiwan
13 Obesity center, Ditmanson Medical Foundation Chia-Yi Christian Hospital, Chiayi, Taiwan

Corresponding author

Chu-Kuang Chou, MD
Division of Gastroenterology and Hepatology, Department of Internal Medicine, Ditmanson Medical Foundation Chia-Yi Christian Hospital, Jhongsiao Road 539, 60002 Chiayi, Taiwan
vacinu@gmail.com

References


Bibliography

Endoscopy 2023; 55: E1203–E1204
DOI 10.1055/a-2197-8828
ISSN 0013-726X
© 2023. The Author(s).

This is an open access article published by Thieme under the terms of the Creative Commons Attribution License, permitting unrestricted use, distribution, and reproduction so long as the original work is properly cited. (https://creativecommons.org/licenses/by/4.0/)
Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

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

E-Videos is an open access online section of the journal Endoscopy, reporting on interesting cases and new techniques in gastroenterological endoscopy. All papers include a high-quality video and are published with a Creative Commons CC-BY license. Endoscopy E-Videos qualify for HINARI discounts and waivers and eligibility is automatically checked during the submission process. We grant 100% waivers to articles whose corresponding authors are based in Group A countries and 50% waivers to those who are based in Group B countries as classified by Research4Life (see: https://www.research4life.org/access/eligibility/).

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