Colorectal endoscopic submucosal dissection (ESD) is considered to be one of the most challenging procedures. To perform colorectal ESD safely and efficiently, clear visualization of the submucosal layer is essential, especially for giant lesions. Various traction methods have been developed to improve the visibility of the submucosal layer [1–3]; however, few can offer continuous traction with changeable direction. Recently, we modified the rubber-band method and called the new traction method the "multiple-clip-facilitated rubber-band method" (MCRM).

A 73-year-old man with a 50-mm giant nongranular laterally spreading tumor in the transverse colon was treated with ESD using the MCRM. First, a semicircular incision was made around the lesion and semicircular traction was performed. Second, we attached a rubber band to a clip, which was then passed through the operative channel and fixed beneath the lesion. Afterwards, the rubber band was affixed with another clip to the contralateral colonic wall. These first two clips enabled the primary traction (Fig. 1a). After partial submucosal dissection, the primary traction became insufficient. We then applied a third clip, attaching the rubber band to the opposite site of the remnant lesion (Fig. 1b). In this way, continuous traction was obtained and the remnant submucosal fibers were tensioned for rapid and safe completion of the procedure, with a perfect view of the submucosal space (Fig. 1c; Video 1). If needed, a fourth or fifth clip could have been applied to give further traction. The resected lesion was fixed with a clip to the hanging rubber band, from which it was then easily removed with cutting forceps.
We have found this MCRM traction method to be very useful for giant colonic superficial neoplasia, enabling a rapid and safe ESD procedure.

Competing interests
None

The authors
Guan Yi Liu, Long Rong, Yun Long Cai, Wei Dong Nian
Endoscopy Center, Peking University First Hospital, Beijing, China

References


Corresponding author

Long Rong, MD
Endoscopy Center, Peking University First Hospital, Beijing, China
Fax: +86-86-572437
ronglong8@vip.sina.com

Bibliography
DOI https://doi.org/10.1055/a-0885-9166
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