Endoscopic submucosal dissection of giant colorectal lesion using the “multiple-clip-facilitated rubber-band method”

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 semicircumferential incision was made around the lesion and semicircumferential dissection of the mucosa was performed. 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

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

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