

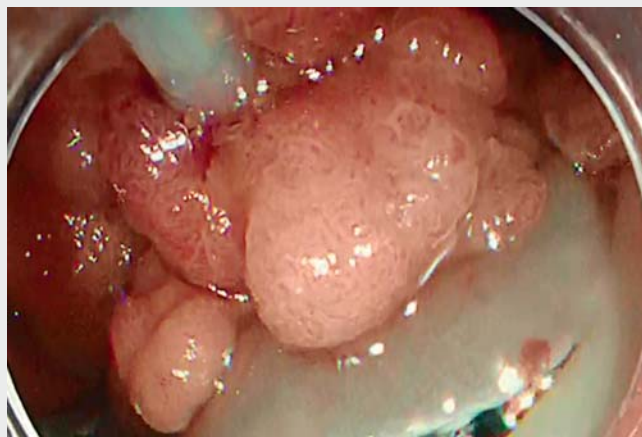
Traction-assisted colorectal endoscopic submucosal dissection using an endoloop for large semipedunculated lesions

Endoscopic submucosal dissection (ESD) for large semipedunculated lesions remains a challenging technique [1]. These lesions often have severe fibrosis or display muscle retracting sign during ESD. Despite the recent advantages of traction-assisted colorectal ESD [2,3], the efficacy of this technique is rarely investigated for such lesions. Here we describe a case of traction-assisted ESD using an endoloop (MAJ-254; Olympus, Tokyo, Japan) for the treatment of a large semipedunculated lesion in the right colon (► **Video 1**).

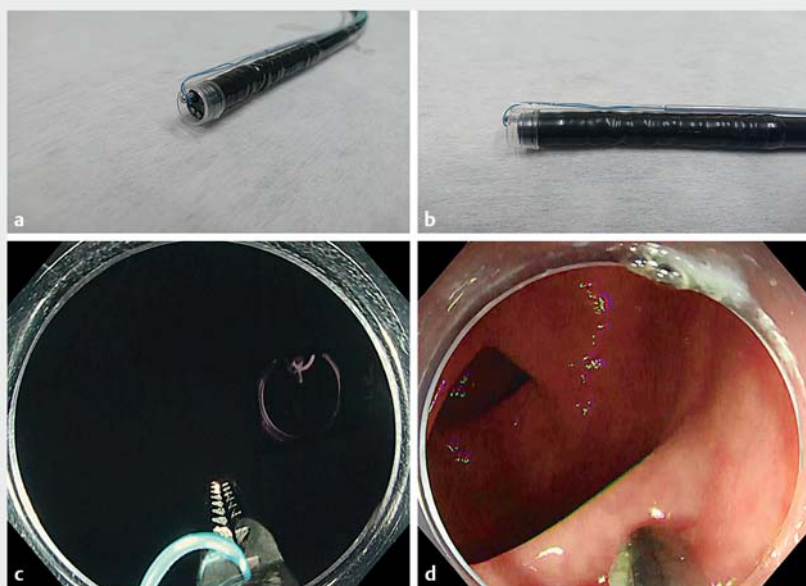
A 73-year-old man was referred to our hospital for treatment of a colonic lesion. Lower endoscopy showed a large semipedunculated lesion in the cecum, 50mm in size. As technical difficulties were expected, and traction using a conventional clip was likely to tear the lesion, we attempted to obtain traction using an endoloop.

The endoloop was held alongside the scope using a grasping forceps and brought to the lesion carefully, where it was released (► **Fig. 1**). The lesion was gently grasped with the endoloop, and then pulled toward the anal side. The traction improved visibility of the submucosal layer, facilitating the dissection procedure. The lesion was promptly resected en bloc in 35 minutes without adverse event (► **Fig. 2**). Histological evaluation revealed Tis cancer with free margins.

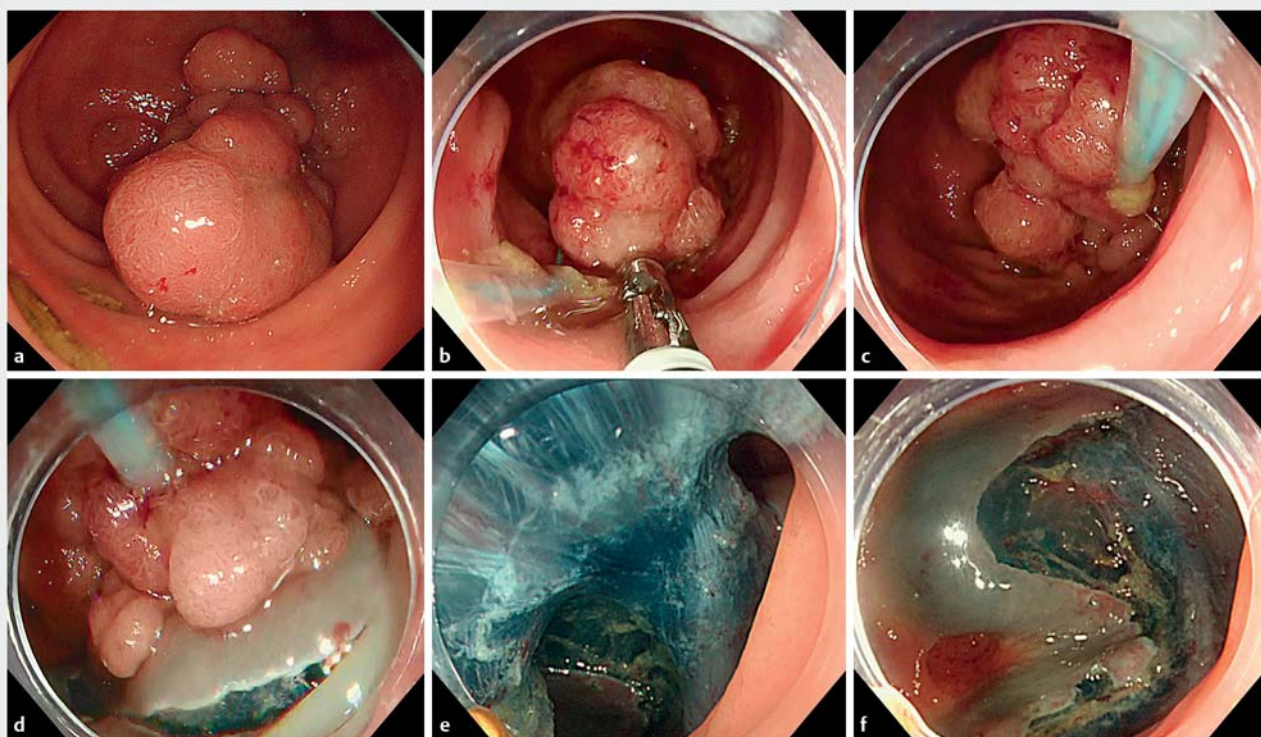
As large semipedunculated lesions are heavy, traction via clip risks tearing the marginal mucosa or damaging the specimen. The endoloop maintained good traction throughout the procedure. This method is not always effective because traction cannot be applied in all directions. In addition, if colonoscope insertion is technically difficult, it could also be difficult to bring the endoloop to the lesion while grasping it. However, this method offers an alternative for technically difficult large semipedunculated lesions in colorectal ESD.



► **Video** Traction-assisted endoscopic submucosal dissection using an endoloop facilitate the procedure for technically difficult large semipedunculated lesions.



► **Fig. 1** Preparation for traction-assisted endoscopic submucosal dissection using an endoloop. **a, b** Endoloop grasped with forceps alongside the endoscope. **c** Grasping forceps pulled into the transparent cap. **d** Careful scope insertion close to the lesion.



► Fig. 2 Procedure of traction-assisted endoscopic submucosal dissection (ESD) using an endoloop. **a** Large semipedunculated lesion located in the cecal base. **b, c** Lesion gently grasped with an endoloop and pulled toward the anal side. **d, e** Dissection becomes easy and safe with traction. **f** Mucosal defect after ESD.

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Competing interests

The authors declare that they have no conflict of interest.

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