**Traction strategy with clips and rubber band allows complete en bloc endoscopic submucosal dissection of laterally spreading tumors invading the appendix**

Endoscopic submucosal dissection (ESD) is now the reference method for en bloc resection of large colorectal neoplasia [1]. Nevertheless, appendix invasion is still considered a contraindication to resection because of the risk of perforation and the difficulty in finding the dissection space at the bottom of the appendix. We report on the case of a 72-year-old man referred for resection of a 4 cm granular laterally spreading tumor (LST) of the cecum (Video 1). The lesion had developed on the appendiceal orifice, invading it deeply. As previously demonstrated, we used a traction strategy with two clips and a rubber band [2]. After complete circumferential incision and trimming, we caught the lesion edge with the first clip, which was grasping a rubber band (Fig. 2). The second clip was then used to grasp the rubber band and stretch the lesion; the clip was then fixed to the opposite wall of the colon (Fig. 3). This traction method is flexible using stretching and relaxing of the rubber band to produce more or less traction, respectively. Greater stretching of the band resulted in strong traction, which allowed the mucosa of the appendix to be dissected and extracted through the appendiceal orifice (Fig. 4). Finally, we were able to cut the deep fibrotic fibers that fixed the mucosa at the bottom of the appendix. Pathological examination revealed a granular LST with high grade dysplasia, which was completely removed with free margins.

There were no complications either during the procedure or in the postoperative period. The patient was monitored for 48 hours, given the known risk of early and late acute appendicitis of 3% and 5%, respectively [3]. In patients with an intact appendix, there is a high risk of incomplete resection for lesions that reach and enter the appendiceal orifice with invisible margins (Type 3) [4].

**Video 1** Endoscopic submucosal dissection procedure with double clip and rubber band traction to allow complete R0 resection of a laterally spreading tumor invading the appendix.
Thus, appendiceal ESD is complex because of the technical difficulty in obtaining a complete resection, but the procedure seems feasible with traction methods [5].

Endoscopy_UCTN_Code_TTT_1AQ_2AD

Competing interests

None

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DOI https://doi.org/10.1055/s-0043-111713
Published online: 14.6.2017
Endoscopy 2017; 49: 820–822
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Stuttgart · New York
ISSN 0013-726X

Fig. 4 End of dissection. a Traction on the specimen stretched the appendix (arrow) away from its orifice. b Traction on the appendix (arrow). c Appendiceal resected area (arrow) with fibrosis and coagulated tissues. d Specimen with appendix (arrow) in the forceps. e Specimen stretched onto cork.