Endoscopic submucosal dissection in the colon using a novel adjustable traction device: A-TRACT-2

A major barrier to expansion of endoscopic submucosal dissection (ESD) remains the technical difficulty of the procedure. Thus, several devices and techniques have been described to ease this procedure [1], but all have their limitations, the main one being that they provide only a fixed amount of traction that tends to decline as the dissection advances [2]. However, we think that the ideal traction would be soft at the beginning of the procedure so as not to rip the clips of the lesion, intermediate as the dissection advances, and hard at the end to facilitate the cutting of the last fibers, often the trickiest part of the procedure.

We describe the use of a new traction device (A-TRACT-2) that is both easy to use and adjustable, providing growing traction and continuous easy access to the submucosa during ESD (▶ Video 1). We report here the case of a 69-year-old patient with a 3-cm laterally spreading granular tumor of the cecum. The first step of the procedure was making a peripheral incision. We then fixed the device with clips to the upper and lower edges of the lesion. Afterward, we used another clip to attach the rubber band to the opposite wall (▶ Fig. 1). Initial traction was obtained, and dissection started. After 1/4 of the lesion was cut, traction began to decline (▶ Fig. 2), and we tightened the device to bring both the anchoring points of the device closer to the traction point between them and to the rubber band in order to reestablish optimal traction (▶ Fig. 3). The submucosal exposure was ideal through the end of the procedure (▶ Fig. 4). This technique allowed a curative R0 resection of the lesion.

To our knowledge, this is the first time that an adjustable traction system has been used in humans. This technique seems attractive, especially in difficult locations. Further studies are needed to confirm its effectiveness.

Competing interests

The authors declare that they have no conflict of interest.

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