Endoscopic submucosal dissection using a detachable snare for a large colorectal tumor with muscle retraction

Large colorectal sessile tumors sometimes exhibit severe submucosal fibrosis with muscle retraction [1]. Endoscopic submucosal dissection (ESD) for tumors with muscle retraction tends to result in incomplete resection because submucosal dissection is difficult and carries a risk of perforation [1]. Conventional methods such as the double-tunnel and pocket-creation methods are useful for large sessile tumors with muscle retraction because good traction can be maintained and the dissection line is easier to recognize [2,3]. We report successful resection of a large colorectal tumor with muscle retraction at the center of the lesion [Fig. 1a]. To reveal muscle retraction without causing damage, mucosal incisions and submucosal dissection were repeated toward the distal side. Subsequently, the weight of the tumor was used to create appropriate traction on the retracted muscle by changing the patient’s position, followed by strangulation of the tumor with a detachable snare for extensive muscle retraction [Fig. 1b]. This method allowed good traction to be maintained and an appropriate dissection line to be identified, even in the presence of muscle retraction [Video 1]. The lesion was easily and completely resected en bloc without complications [Fig. 2]. The tumor measured 50 × 45 mm, and histological examination revealed a tubular adenocarcinoma in a tubulovillous adenoma, with free tumor margins.

ESD using the method of strangulation with a detachable snare for muscle retraction provides good traction and facil-
iates identification of the dissection line. This method is relatively easy and may reduce the treatment time compared with conventional methods.

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Conflict of Interest

The authors declare that they have no conflict of interest.

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