Complete resection of a giant tumor in the ultralow rectum by a combination of transanal local excision and endoscopic submucosal dissection

Local recurrence is the main problem after ultralow rectal surgery [1]. Transanal local excision provides an adequate visual field at the anus and allows for good hemostasis of hemorrhoidal veins, but may leave residual lesions and cause perforation for lesions with severe fibrosis [2, 3]. Endoscopic submucosal dissection is difficult for ultralow rectal lesions owing to the poor visual field at the dentate line and frequent bleeding from the hemorrhoidal veins, but residual lesions and perforation can be avoided by setting accurate resection lines [4]. Herein, we present a hybrid technique combining transanal local excision and endoscopic submucosal dissection for a giant tumor in the ultralow rectum, with the technique helping to achieve complete resection, prevent perforation, and preserve anal function.

An 80-year-old man presented with anal tumor prolapse for 3 months. He had undergone intersphincteric resection for a rectal tumor 2 years previously. Endoscopy revealed a giant tumor, with its anal side invading the dentate line and its oral side straddling the anastomotic site (Fig. 1). Endoscopic ultrasound indicated fuzzy stratification between the mucosa and muscularis propria. Computed tomography showed a clear serosal layer and several anastomotic nails. After multidisciplinary consultation and with the patient’s informed consent, we performed the hybrid procedure (Fig. 2; Video 1).

A surgeon initially excised the tumor from the anal side after adequate exposure of the anus, but submucosal fibrosis near the anastomotic site interrupted the procedure. An endoscopist then took over the procedure and dissected the tumor from the oral side using a retroflexed endoscope, during which the whole tumor edge was excised and the nails were removed. Finally, the endoscopist changed to dissect the tumor from the anal side with the assistance of external traction provided by the surgeon. The tumor was completely resected, without any bleeding or perforation (Fig. 3). Deeply damaged areas in the wound were closed using sutures. Pathology demonstrated a villous tubular adenoma with high grade intraepithelial neoplasia. The patient recovered uneventfully. At follow-up after 3 months, the wound had healed and no tumor recurrence was detected (Fig. 4). In addition, the patient’s bowel movements returned to normal.

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Competing interests

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