Tented elevation with numerous tractions (TENT) technique to aid endoscopic submucosal dissection of a large cecal lesion

A 79-year-old woman who had been diagnosed with a 40-mm laterally spreading tumor (LST-G [nodular mixed]) in the cecum during a screening colonoscopy was referred for ESD (Fig. 1). After a partial mucosal incision and dissection had been performed, a single clip-band elastic traction device was deployed on the dissected mucosa and attached to the contralateral mucosa using a repositionable hemostatic clip (Fig. 2a,b). Because of the size and location of the lesion, the dissection plane was still poorly visualized owing to collapse of the dissected mucosa onto the remaining undissected submucosal layer (Fig. 2c,d). Using the TENT technique, five more clip-band elastic traction devices were individually attached to multiple points on the dissected mucosa and fixed in different directions to further lift the lesion and increase the visibility of the submucosal dissection plane (Fig. 3a,b). With adequate tension having been achieved, the ESD knife was then positioned perpendicular to the vertically taut submucosal fibers, providing a safe plane for dissection (Fig. 3c,d). The total procedure time was 80 minutes. Complete resection was achieved with...
no complications (▶Fig. 4 and ▶Fig. 5; ▶Video 1).

To use the TENT technique effectively, it is necessary to apply traction, not only to the center of the lesion but also to both ends of the peeled area, to achieve a tent-like appearance. This is a modification of the conventional techniques, which apply traction only centrally or on a few random points, resulting in limited effectiveness because they do not adequately improve the visibility of the submucosal plane. Although the TENT technique requires more traction than is conventionally required, the clear visualization of the dissection plane results in more efficient, faster, and safer dissection.

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References


Bibliography

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