Endoscopic submucosal dissection of recurrent duodenal adenoma: combined use of multiple strategies for a difficult case

The duodenal anatomy, which involves a thin muscle layer and rich vascularization, makes endoscopic resection harder and more dangerous in this region than in other regions of the gastrointestinal tract. Additionally, the physiological shape of the stomach decreases endoscope maneuverability. Thus, large non-ampullary duodenal adenomas are usually removed through snare-based techniques because endoscopic submucosal dissection (ESD) is considered excessively hazardous. However, in select difficult cases, ESD may be the sole viable option for successful resection [1].

A 73-year-old woman was referred to our unit for resection of a Paris IIa 25-mm non-ampullary duodenal adenoma near the major papilla. The adenoma had been treated by surgical mucosectomy more than 10 years prior to referral. After 30 min of attempting to remove it by piecemeal endoscopic mucosal resection, which was unsuccessful because the lesion could not be retrieved with a snare, we converted the procedure to ESD (▶ Video 1).

Because the scope maneuverability was poor, we used the pocket-creation method, beginning with incision and trimming on the oral side. We then placed a countertraction system consisting of two clips and a rubber band. The use of traction combined with the saline-immersion technique provided complete exposure of the dissection plane (▶ Fig. 1), which was immediately below the hard fibrotic area; accurate dissection was then performed [2, 3] (▶ Fig. 2). The use of a scissors-type knife was required to complete the dissection because the anal side of the lesion could not be easily accessed. Finally, we used a side-viewing scope to close the scar, exercising caution to avoid grasping the major papilla (▶ Fig. 3). En bloc R0 resection of the adenoma, which exhibited high-grade dysplasia, was achieved. No adverse events occurred.

Indications for duodenal ESD are rare. Combinations of complementary strategies such as the pocket-creation method, saline-immersion technique, and traction are essential in these challenging cases.

Conflict of Interest

The authors declare that they have no conflict of interest.

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Endoscopy_UCTN_Code_TTT_1AO_2AG
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Endoscopy 2024; 56: E120–E121
DOI 10.1055/a-2239-3182
ISSN 0013-726X
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Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

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