Duodenal neuroendocrine tumors (D-NETs) are uncommon neoplastic entities [1]. The current guidelines advocate for resection when the lesion is ≤ 20 mm in size, in the absence of lymph node involvement [2]. However, the utility of endoscopic resection remains unclear, especially due to the risk of incomplete resection [3]. Endoscopic submucosal dissection (ESD) is an attractive technique because it offers the potential to achieve en bloc resection with clear margins. In a previous retrospective study, ESD for D-NETs achieved a 100 % en bloc resection rate; however, the R0 resection rate is far from perfect and the perforation rate is not null [4]. The use of a traction device, with double clips and rubber band traction, has been described previously to improve the exposure of the tiny submucosal space [5].

In this case, we describe the benefits of using an adaptative traction device (A-TRACT; Hospices Civils de Lyon, Lyon, France) during duodenal ESD (Video 1). A 76-year-old patient was referred for removal of a D-NET of 8 mm in size, located in the upper part of the duodenal bulb, just behind the pylorus. An ESD was indicated to ensure R0 resection. After circumferential incision and trimming, the two loops of A-TRACT 2 were fixed by two clips to the lesion edges and another clip was used to affix the rubber band to the opposite mucosal wall, allowing exposure of the lesion previously hidden by the pylorus (Fig. 1). The dissection was started with good traction, allowing the cut line to be clearly identified. After half of the lesion had been cut, traction was tightened to optimize visualization, and the dissection was safely completed in 40 minutes without adverse events. The histopathology revealed a G1 NET with lateral free margins but without deep free margins.

We hypothesize that this traction device could facilitate duodenal ESD, which is known to be technically challenging and with high risk of adverse events.

Conflict of Interest

J. Jacques, M. Pioche, and J. Rivory are co-founders of the ATRACT devices and co. E. De Cristofaro, T. Walter, T. Wallenhorst, and P. Lafeuille declare that they have no conflict of interest.

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