Endoscopic submucosal dissection (ESD) is a standard treatment for colorectal neoplasms, but the risk of severe postoperative complications persists even after successful ESD [1, 2]. Therefore, complete closure of defects after ESD is essential to prevent such complications [3]. Although complete closure is a technically difficult procedure, several techniques have been developed to assist [4, 5]. Herein, we present a case of successful complete closure of a mucosal defect after colonic ESD using clips with a silicone traction band (▶ Fig. 1).

ESD was performed to resect a 35-mm laterally spreading tumor located in the ascending colon; however, a 50-mm mucosal defect remained after lesion retrieval. Pulsating vessels and minor muscular injuries were observed in this defect. Endoscopic closure using clips with a silicone traction band was performed on the lesion (▶ Video 1).

The first clip with a band was placed at the proximal margin of the mucosal defect after colonic endoscopic submucosal dissection (▶ Fig. 2a). The second clip was placed at the distal opposite margin of the mucosal defect. Bridging the bilateral mucosal edges using clips with a silicone traction band changed the oval shape of the mucosal defect to a figure-of-eight shape. Conventional clips were placed at the left side of the figure of eight. Conventional clips were also placed on the right side of the figure of eight. Complete closure of the mucosal defect was then achieved.
the distal opposite edge, and it hooked the silicone traction band attached to the base of the first clip (▶ Fig. 2b, c). Bridging the bilateral mucosal edges changed the shape from large oval to a figure of eight (▶ Fig. 2d). Subsequently, complete closure of the mucosal defect was achieved by placing conventional clips on both sides (▶ Fig. 2e, f). No complications occurred following the procedure.

The elastic energy of the silicone traction band attached to the base of the clip was sufficiently large to generate an appropriate traction force between the two clips. The advantage of this clip is that it is easily available and does not require preparation of any complicated device. Second, it is repositionable until the clips are placed at the right site. This method can be a good option for complete endoscopic closure of mucosal defects after colorectal ESD.

Endoscopy_UCTN_Code_TTT_1AQ_2AD

Competing interests

Eikichi Ihara participated in funded research for Takeda Pharmaceutical Co., Ltd. and belongs to the endowed course supported by the companies mentioned, including Ono Pharmaceutical Co., Ltd., Miyarisan Pharmaceutical Co., Ltd., Otsuka Pharmaceutical Factory, Inc., Fujifilm Medical Co., Ltd., Termo Corporation, FANCL Corporation, and Ohga Pharmacy. Eikichi Ihara also received a lecture fee from Takeda Pharmaceutical Co. The remaining authors declare that they have no conflict of interest.

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Endoscopy
DOI 10.1055/a-1889-4838
ISSN 0013-726X
published online 2022
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