Endoscopic submucosal dissection in the stomach under equal multi-traction from four directions

Although endoscopic submucosal dissection (ESD) has become widespread because of its higher cure rate for nonmetastatic gastrointestinal tumors [1–3], it is technically challenging. Therefore, several traction techniques have been developed [4, 5]. We report a case in which multi-traction was useful for gastric ESD. A 77-year-old man visited our hospital because of abdominal discomfort. Esophagogastroduodenoscopy revealed superficial gastric cancer at the greater curvature of the antrum (▶Fig. 1a), where endoscope instability is expected during ESD. ESD was performed using an IT knife-2 (Olympus, Tokyo, Japan) [3] under equal traction from four directions in order to secure the submucosal layer. After circumferential mucosal incision and sufficient cutting of the submucosal layer, four-point traction was established using an SB clip (Sumitomo Bakelite Co., Ltd., Tokyo, Japan) and DT hood (Adachi Co., Ltd., Osaka, Japan) [5], which stores two elastic strings consisting of seven rings (▶Fig. 2). The first ring of the first string was fixed to the opposite intact mucosa by the first clip through the endoscope. The second ring was fixed to the left anal edge of the lesion by the second clip. Next, the fifth ring was fixed to the right anal edge of the lesion by the third clip, and the sixth ring was fixed to the opposite intact mucosa by the fourth clip. Thus, two-point traction was created in a U-shaped manner (▶Fig. 1b). Next, two-point traction in the oral bilateral edge of the lesion was similarly created using the second string. After completing equal four-point traction from four directions (▶Fig. 3), one-piece resection was performed under more effective traction and without adverse events (▶Fig. 1c, d, e, ▶Video 1). Histopathological findings included intramucosal well-differentiated adenocarcinoma with a negative cut margin.

Four points of equal traction were established from four directions using the DT hood, which is useful for ESD of widespread superficial neoplasms.

Competing interests

The authors declare that they have no conflict of interest.

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Endoscopic submucosal dissection (ESD) under equal four-point traction from four directions. Traction was created by endoclips and a DT hood, which facilitated safe ESD despite the difficulty of an unstable endoscope.

References


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