Colorectal endoscopic submucosal dissection by using latex-band traction

Traction can help reduce the risk of complications in colorectal endoscopic submucosal dissection (ESD) [1, 2]. We have developed a latex-band traction system for colorectal ESD [2]. Traction uses a medical rubber band, named the “Latex Band,” which is 5 mm in diameter, 1 mm in width, and 200 µm in thickness (Okamoto Co. Ltd., Tokyo, Japan). The 4–0 green nylon thread was passed through a latex band and looped (Fig. 1a). The latex band was attached to the endoclip arm (Olympus, Tokyo, Japan) (Fig. 1b). The endoclip was then set in a pair of forceps (Fig. 1c). After circumferential incision was completed, the latex band was attached to the endoclip arm (Olympus, Tokyo, Japan) (Fig. 1b). The endoclip was then set in a pair of forceps (Fig. 1c).

After the lesion was resected, the specimen hanging from the opposite intestinal wall was cut off. Since the rubber latex band could not be cut with the electric current, the nylon thread was cut with the electric surgical knife to collect the specimen (Fig. 2c). After the resected specimen was collected, the endoclip was removed with great caution. Traction using the Latex Band can be applied to any location in the colorectum.

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