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. 1 a). The latex band was attached to the endoclip arm (Olympus, Tokyo, Japan) (Fig. 1 b). The endoclip was then set in a pair of forceps (Fig. 1 c).

After circumferential incision was completed, the latex band was attached to the edge of the exfoliated mucosa of the lesion by using an endoclip (Fig. 2 a). The nylon thread looped through the latex band was hooked on one of the arms of the endoclip. The nylon thread was clipped to the region of the intestinal wall opposite to the lesion. The lesion was pulled away from the muscle layer. Through this maneuver, sufficient space for clear visualization of the submucosal layer was obtained (Fig. 2 b).

Before the dissection was started, sodium hyaluronate solution was injected into the submucosal layer. Then, submucosal dissection was carried out. 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. 2 c).

Clear view of the incision line. In conclusion, we consider that the Latex Band is a simple and noninvasive tool for traction-assisted colorectal ESD.

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References

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