Recovery technique using a double scope to rescue failed primary endoscopic ligation

It is important to address the ideal management of artificial large-sized ulcers or perforations, especially those related to endoscopic submucosal dissection (ESD). A few techniques have been described [1–5]. However, highly advanced endoscopic skills are usually required to achieve complete closure of the defects using standard hemoclips. In contrast, closure using an endoscopic ligation device (ELD) combined with hemoclips allows closure to be achieved relatively easily [1–3]. However, we sometimes encounter difficulty when using a combination of endoloop and hemoclips. We therefore propose a recovery technique for cases in which endoloop closure fails (Video1).

A 67-year-old woman underwent an ESD-associated biopsy for submucosal tumor arising from the muscular layer. While closing the procedure-related ulcer using an ELD (Olympus Corp., Tokyo, Japan), something went wrong with the delivery of the ELD, and the loop became detached from the delivery device (Fig. 1a). We therefore inserted a double-scope endoscope (XP260; Olympus Corp.). First, we held the base of the loop using the grasping forceps, and then we pulled and fixed the loop on the near side of the ulcer with one scope (Fig. 1b).

Second, we grasped the stopper of the ELD with the other scope (Fig. 1c). Third, we gradually advanced the stopper and tightened the loop appropriately (Fig. 1d). Finally, we placed a clip to fix the loop to the mucosa (Fig. 1e), and completed the closure successfully. No complications occurred after this procedure, and the patient was successfully treated. Use of this double-scope technique may be helpful for rescuing failed primary loop closure.

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Video 1 Steps in the recovery technique using a double scope to rescue failed primary endoscopic ligation.

Competing interests
None

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References
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