Collection of multiple resected proximal colon polyps >10 mm in size through a scope channel via aspiration following an endoscopic mucosal resection (EMR) is difficult; thus, polyps are currently all grasped at once using net forceps. However, the simultaneous collection by net forceps makes it difficult to identify the accurate locations of all resected polyps. Therefore, we aimed to investigate a novel technique to identify the accurate location of resected polyps using colored ring-threads.

A 58-year-old man was diagnosed with three ascending colon polyps approximately 10-mm in diameter. These polyps were located in the proximal colon and had the potential for cancerous components. The polyps were found to have an irregular microvascular pattern via narrow-band imaging magnified endoscopy. Thus, confirmation of the accurate location of each polyp was necessary because of the possibilities of subsequent additional EMR and surgery. Therefore, slight tattooing was performed in close proximity to each polyp. We prepared three types of colored and six sized ring-threads, such as white, purple, and black. After the local injection was performed and sufficient bulging was obtained, a white ring-thread 5-mm in diameter was clipped through the scope channel and fixed close to the first polyp. EMR was performed and included the clip...
with the white ring-thread. Similarly, EMR was performed on the second and third polyps with a purple ring-thread (Fig. 1) and black ring-thread, respectively. Following the completion of all EMRs, grasping forceps were inserted through the scope channel to hook and grasp the colored ring-threads to retrieve all resected polyps (Fig. 2).

EMR has been widely implemented since it was established as a standard resection method for colorectal polyps. However, local recurrence is also reported in 13% of cases.1 When multiple EMRs were performed with all polyps grasped and retrieved by net forceps at once, accurate identification of the resection sites was difficult. If the surgical margin-positive cancerous component remained among the resected specimens, specifying the accurate location of an additional resection would be difficult.2,3 This report suggested that a colored ring-thread tag clip technique with pre-EMR tattooing comprises a better approach to identify the accurate locations of resected polyps less than 20-mm in size by EMR, as well as to subsequently collect all specimens completely. Moreover, this method is simple, and only 1 minute is required to put the ring-shaped thread close to polyp and clip it.

CONFLICTS OF INTEREST

No potential conflict of interest relevant to this article was reported.

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