The emergence of a precancerous lesion at the anastomotic site after radical resection of a rectal cancer is very rare [1, 2]. A salvage operation is one of the main treatments in this situation, but is a significant burden for the patient, both physically and economically [3, 4].

A 47-year-old man with a laterally spreading tumor (LST) at the site of the anastomosis with the rectum (about 3–5 cm from the anal margin) was admitted to our department ([Fig. 1a, b]). He had undergone total mesorectal excision combined with neoadjuvant radiotherapy for rectal cancer (moderately differentiated adenocarcinoma, T4N0M0) 18 years previously.

The whole procedure was similar to a routine endoscopic submucosal dissection (ESD), and included marking, submucosal injection, pre-cutting, submucosal dissection, and wound treatment [5]. However, the most important step was that, when peeling away the anastomotic site, the DualKnife was hung on the anastomotic nail, thereby integrating the nail and the knife by means of the electric conduction effect ([Video 1]). It was then possible to peel off the tissue around the anastomotic nail and remove it.

Postoperative pathological results showed low grade intraepithelial neoplasia (LGIN) with negative horizontal and vertical margins, which met the criteria for curative resection. No complications, such as bleeding or perforation, occurred ([Fig. 1c]) and the wound was well healed 3 months after the operation ([Fig. 1d]).

The difficulties of the operation were as follows: (i) the severity of submucosal adhesions at the anastomotic site ([Fig. 2]), which led to unclear demarcation of the intestinal tract at all levels; (ii) the anastomotic nail at the anastomotic site needed to be removed during the dissection process; (iii) in order to maintain the integrity of the tissue, we needed to carefully peel slightly deeper into the superficial intrinsic muscularis.

The significance of this method is that it can reduce the risk of reoperation for patients with precancerous lesions or early cancer emerging at an anastomotic site after colorectal cancer surgery. Particularly for lesions that are close to the anus, it can increase the rate of anal preservation, alleviate the trauma experienced by patients, and improve their quality of life.

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**Competing interests**

The authors declare that they have no conflict of interest.
The authors

Zhihao Chen¹, Lizhou Dou¹, Yueming Zhang¹, Shun He¹, Yong Liu¹, Huizi Lei², Guiqi Wang¹

¹ Department of Endoscopy, National Cancer Center/National Clinical Research Center for Cancer, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China

² National Cancer Center/National Clinical Research Center for Cancer/Cancer Hospital, Chinese Academy of Medical Science and Peking Union Medical College, Beijing, China

Corresponding author

Guiqi Wang, MD
Department of Endoscopy, National Cancer Center/Cancer Hospital, Chinese Academy of Medical Sciences (CAMS), 17 Panjiayuanneili, Beijing, 100021, P.R. China
Fax: +86-10-87711782
wangguiq@126.com

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