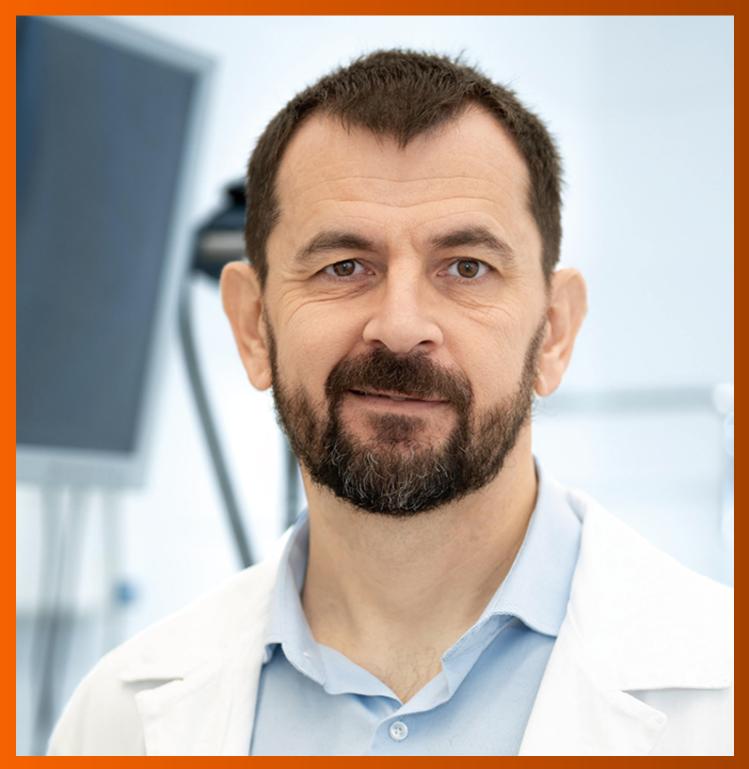
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LETTER TO THE EDITOR

## Exploring non-curative endoscopic submucosal dissection: Current treatment optimization and future indication expansion

Yi-Nong Zhu, Xiang-Lei Yuan, Wei Liu, Yu-Hang Zhang, Yi Mou, Bing Hu, Lian-Song Ye

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#### Abstract

The increasing popularity of endoscopic submucosal dissection (ESD) as a treatment for early gastric cancer has highlighted the importance of quality assessment in achieving curative resections. This article emphasizes the significance of evaluating ESD quality, not only for curative cases but also for non-curative ones. Postoperative assessment relies on the endoscopic curability (eCura) classification, but management strategies for eCuraC-1 tumour with a positive horizontal margin are unclear. Current research primarily focuses on comparing additional surgical procedures in high-risk patients, while studies specifically targeting eCuraC-1 patients are limited. Exploring management strategies and follow-up outcomes for such cases could provide valuable insights. Furthermore, the application of molecular imaging using near-infrared fluorescent tracers holds promise for precise tumour diagnosis and navigation, potentially impacting the management of early-stage gastric cancer patients. Advancing research in these areas is essential for improving the overall efficacy of endoscopic techniques and refining treatment indications.

Key Words: Early gastric cancer; Endoscopic submucosal dissection; Quality control; Noncurative endoscopic submucosal dissection; Near-infrared fluorescent tracer

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**Core Tip:** The quality control of endoscopic submucosal dissection (ESD) has gained increasing attention, and concurrently, the management of patients with non-curative ESD outcomes is equally crucial. Existing guidelines offer unclear recommendations for the management of patients classified as endoscopic curability C-1 after the procedure, warranting the need for further clinical research to refine treatment strategies for this patient population.

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#### TO THE EDITOR

A recent publication by Kim *et al*[1] highlighted the importance of quality assessment in endoscopic submucosal dissection (ESD) for the treatment of early gastric cancer (EGC). With the widespread utilization of endoscopy, endoscopic treatment, specifically ESD, has become increasingly favoured for the management of EGC, especially when the risk of lymph node metastasis is deemed negligible. Acknowledging this prevailing trend, the authors emphasize that with the increasing popularity of endoscopic therapies, the number of physicians performing ESD has been on the rise each year. Consequently, there has been a corresponding increase in the rate of non-curative resections.

Compared to patients undergoing open surgery, patients undergoing ESD undoubtedly experience less surgical trauma and improved quality of life[2]. Considering the epidemiology of gastric cancer, conducting research to enhance the quality of ESD is imperative, and an increasing number of clinical studies are currently focusing on assessing ESD quality. However, it is essential to note that curative ESD is not the sole focal point; the discourse on non-curative ESD is equally significant.

Many studies have focused on the preoperative evaluation of patients. When assessing the risk of non-curative ESD, the size of the tumour and the depth of infiltration are the two most crucial indicators[3] since pathology can be acquired directly through biopsy. However, due to the challenges in evaluating the extent of gastric cancer, especially in assessing infiltration depth, even though endoscopic ultrasound techniques are advanced and several studies have explored predictive models for risk resection[4], difficulties still persist. In regard to postoperative assessment, the commonly utilized classification in Asia for determining the completeness of ESD is the endoscopic curability (eCura) from the Japan Gastroenterological Endoscopy Society, which involves depth of invasion, ulceration, and pathology[5]. In accordance with guidelines[6], the management strategies for eCuraA, eCuraB, and eCuraC-2 are clear and well defined. However, regarding eCuraC-1 tumours, where segmental resection or a positive horizontal margin (HM) serve as the sole noncurative factor, the appropriate approach remains ambiguous. Surgical intervention is not the exclusive choice, and alternative options include repeat ESD, surgery, close observation, and endoscopic coagulation (Figure 1).

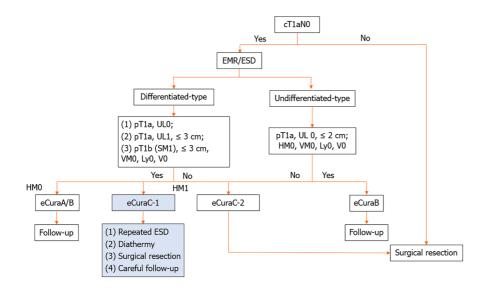


Figure 1 Diagram of the treatment procedure for early gastric cancer. pT1a (M): Intramucosal cancer (histopathological diagnosis); pT1b (SM): Submucosally invasive cancer (histopathological diagnosis). UL: Finding of ulceration (or ulcer scar); UL0: Absence of ulceration or ulcer scar; UL1: Presence of ulceration or ulcer scar. HM: Horizontal margin; HM0: Negative horizontal margin; HM1: Positive horizontal margin. VM: Vertical margin; VM0: Negative vertical margin; VM1: Positive vertical margin. EMR: Endoscopic mucosal resection; ESD: Endoscopic submucosal dissection; eCura: Endoscopic curability.

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Current clinical research on noncurative patients predominantly focuses on directly comparing the efficacy of additional surgical procedures in high-risk patients[7]. Several studies have explored the effectiveness of conservative treatments in elderly patients<sup>[8]</sup>, however, none of these studies categorized outcomes based on postoperative pathology of HM. Globally, large-scale clinical studies specifically targeting eCuraC-1 patients are scarce. The management strategies and corresponding follow-up outcomes for eCuraC-1 patients may represent valuable avenues for future research. We believe that the progressive conduct of such studies plays a crucial role in delineating both the absolute and relative indications for endoscopic treatment and contributes significantly to the overall advancement of endoscopic techniques.

In addition, with the advancement of molecular diagnostic technologies, "molecular imaging" has emerged as a new frontier in tumour diagnosis. Near-infrared fluorescent tracers have been employed for tumour navigation in breast cancer, offering real-time and precise information about the tumour for medical professionals[9]. This technology has been successfully deployed in the field of gastrointestinal cancer, specifically in colorectal tumours, through the utilization of fluorescein-conjugated carcinoembryonic antigen targeted imaging<sup>[10]</sup>. If such precision medicine approaches can be designed to identify gastric cancer, effectively label primary and metastatic lesions, and be applied in the management of early-stage cancer patients, their potential impact is also promising.

#### FOOTNOTES

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