The risk of lymph node metastases from invasive submucosal (T1b) colorectal cancers >1000 µm deep is 1.3% according to the Japanese guideline [1]. Over 98% of stage T1b cancers without evidence of lymphovascular invasion, poor differentiation, or budding have no associated lymph node metastases. Achieving an endoscopic R0 resection allows curative resection of the majority of stage T1b cancers. Although magnifying colonoscopy can diagnose stage T1b cancers, pathological evaluation using specimens from an R0 resection is more reliable. If a cancer is diminutive and possibly a stage T1b cancer, total excision for pathological evaluation may avoid surgical resection but, to be justified, must be safe and reasonable. Although endoscopic submucosal dissection is reliable for R0 resection, Fukuda et al. recently showed that underwater endoscopic mucosal resection (UEMR) can completely resect stage T1b lesions [2]. Endoscopic ultrasound (EUS) demonstrates the submucosa under the tumor, which facilitates decision-making about UEMR.

A 73-year-old man was referred because of a cecal lesion that was suspected to be an adenocarcinoma after biopsy. An outpatient colonoscopy revealed a 7-mm sessile cecal tumor. Magnifying narrow-band imaging using an EC-760ZP-W/M colonoscope (Fujifilm, Tokyo, Japan) with distal attachment (D-201-14304; Olympus, Tokyo, Japan) suggested a T1b cancer (Video 1). EUS (EU-ME1; Olympus) clearly demonstrated residual submucosa under the tumor. When the cecum contracted, the muscularis became recessed circumferentially, with a thickened submucosa on EUS imaging. This transformed the lesion into a floating subpedunculated tumor in the underwater endoscopic view (Video 2), which suggested that complete endoscopic resection using UEMR for complete pathological evaluation would be both safe and feasible on an outpatient basis. UEMR was completed without complications (Fig. 3). Pathologic evaluation revealed a submucosal invasive adenocarcinoma with negative margins (Fig. 4).

This patient demonstrates that a stage T1b cancer can be safely and completely resected with UEMR after first confirming the submucosal characteristics using EUS. Indiscriminate EMR and/or cold snare polypectomy should be avoided for such lesions.
Competing interests

H. Yamamoto is a consultant for Fujifilm Corporation and has received honoraria, a grant, and royalties from the company. The remaining authors declare that they have no conflict of interest.

The authors

Kazuaki Akahoshi1, Takakii Morikawa1, Hisashi Fukuda1, Yoshikazu Hayashi1, Koizu Ando1,2, Alan Kawarai Lefor3, Hironori Yamamoto1

1 Department of Medicine, Division of Gastroenterology, Jichi Medical University, Shimotsuke, Japan
2 Department of Diagnostic Pathology, Jichi Medical University, Shimotsuke, Japan
3 Department of Surgery, Jichi Medical University, Shimotsuke, Japan

Corresponding author

Yoshikazu Hayashi, MD, PhD
Department of Medicine, Division of Gastroenterology, Jichi Medical University, 3311-1 Yakushiji, Shimotsuke, Tochigi, Japan
hayashil@jichi.ac.jp
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Endoscopy
DOI 10.1055/a-1838-4311
ISSN 0013-726X
published online 2022
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