

# Underwater endoscopic mucosal resection of a large depressed adenoma in the ileum.

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# Underwater endoscopic mucosal resection of a large depressed adenoma in the ileum



Fig. 1 Endoscopic photograph showing a large (2.5 cm) flat polyp with central scarring in the ileum. a White-light endoscopy. b Chromoendoscopy (indigo carmine).



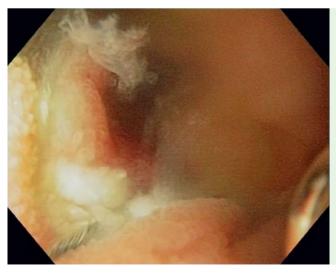


Fig. 2 Endoscopic photograph showing underwater endoscopic mucosal resection of a large (2.5 cm), flat polyp in the ileum.

A 70-year-old man with Lynch syndrome underwent a subtotal colectomy and ileorectal anastomosis in 2005. During endoscopic follow-up, a large (2.5 cm), flat polyp was detected in the ileum, 20 cm proximal to the ileorectal anastomosis (• Fig. 1). Multiple biopsies were taken from the center of the polyp, which revealed adenoma with low grade dysplasia. The patient was referred for an attempt to remove the polyp endoscopically.

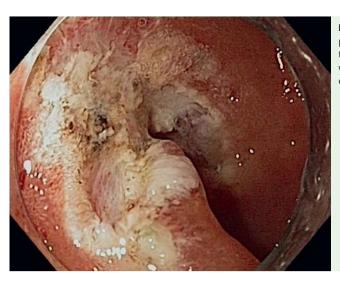
The lesion passed over one fold in the ileum and was judged to be difficult to remove safely using conventional endoscopic mucosal resection (EMR). Recently, underwater EMR without submucosal injection has been described, in which polyps are completely immersed in water and removed using a snare [1,2]. Underwater EMR has been reported to be a safe method of removing large, sessile, colorectal polyps [1] and laterally spreading duodenal polyps [2]. Thus, it was decided to use underwater EMR to remove this large, flat adenoma in the ileum.

The polyp was completely immersed in water, and a polypectomy snare (13 mm, Captivator; Boston Scientific, Natick, Massachusetts, USA) was used to resect it using a piecemeal technique ( $\circ$  Fig.2). The lesion was completely removed without any bleeding, and there were no signs of perforation in the remaining wound ( $\circ$  Fig.3). However, the patient presented with minor rectal bleeding the day after the procedure. Bleeding was easily managed endoscopically using coagulation forceps, after which the patient was discharged.

Large, flat adenomas in the small intestine are difficult to remove and are associated with a high risk of complications [3,4]. The present case is the first one in the literature describing the use of underwater EMR to remove a polyp in the ileum. In experienced hands, underwater EMR seems to be an effective method for removing polyps in difficult locations in the small intestine.

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Competing interests: None



**Fig. 3** Endoscopic photograph showing the wound after underwater endoscopic mucosal resection.

#### **Bibliography**

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