Radial incision and cutting under gel immersion as a useful method for refractory anastomotic stricture

The radial incision and cutting method, in which the stricture is incised and the scar tissue excised, has shown promising results in the treatment of refractory anastomotic strictures [1, 2]. It is useful for refractory strictures that are not adequately dilated after repeated endoscopic balloon dilation.

Gel immersion endoscopy with clear gel (VISCOCLEAR; Otsuka Pharmaceuticals Factory, Chiyoda, Japan) is used to displace blood and clots to ensure a good field of view in situations with heavy bleeding or residue [3, 4].

The patient was a 47-year-old man who underwent low anterior resection with creation of a temporary colostomy for rectal cancer. However, a postoperative anastomotic stricture was observed, and endoscopic balloon dilation was performed twice on an outpatient basis after discharge. Because the stricture was refractory and resulted in difficulty passing the scope despite the two dilations (▶ Fig. 1), radial incision and cutting was performed (▶ Video 1).

An ITknife nano (KD-612; Olympus Corp., Tokyo, Japan) was inserted into the stricture, and the scar was incised in the endocut mode. The incision with the endocut caused a multifocal hemorrhage resulting in difficulty maintaining the field of view. When the gel was used, the bleeding point became clear, and it was possible to make an incision with a good field of view while recognizing the line of the muscle layer even with heavy bleeding (▶ Fig. 2). After the procedure, passage of the scope was possible, and no complications were observed (▶ Fig. 3). Endoscopy showed improvement of the stricture 2 weeks later (▶ Fig. 4).

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E-Videos

Video 1 Radial incision and cutting under gel immersion for the treatment of refractory anastomotic stenosis is safe and feasible.

▶ Fig. 1 The stricture was refractory and difficult for the scope to pass through despite endoscopic balloon dilation.
Competing interests
The authors declare that they have no conflict of interest.

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References
[3] Yano T, Nemoto D, Ono K et al. Gel immersion endoscopy: a novel method to secure the visual field during endoscopy in bleeding patients (with videos). Gastrointest Endosc 2016; 83: 809–811

Bibliography
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Fig. 2 It was possible to make an incision with a good field of view under gel immersion endoscopy even in a situation with heavy bleeding.

Fig. 3 It was possible for the scope to pass through after radial incision and cutting.

Fig. 4 Endoscopy showed improvement of the stricture 2 weeks after the procedure.