Usefulness of a forward-viewing echoendoscope in endoscopic ultrasound-guided recanalization for complete obstruction of the esophagus after chemoradiotherapy for esophageal cancer

Complete obstruction of the esophagus after chemoradiotherapy for esophageal cancer is very rare and extremely difficult to treat. We report a recanalization using the rendezvous technique with endoscopic ultrasound (EUS) using a forward-viewing echoendoscope (TGF-UC260J; Olympus Medical) (▶Fig. 1).

A 78-year-old woman developed complete obstruction of the lower esophagus after chemoradiotherapy for esophageal cancer (▶Fig. 2) and was fed via percutaneous endoscopic gastrostomy for 7 years. The patient strongly desired to resume oral intake with minimally invasive treatment, so endoscopic treatment was performed. First, a thin endoscope was inserted through the gastrostomy route and advanced in a retrograde manner to the site of the esophageal obstruction (▶Video 1). A forward-viewing echoendoscope was then inserted orally and advanced to the obstruction site. Injection of saline solution into the esophagus through the retrograde scope made it possible to recognize the esophageal lumen on the anal side of the obstruction by EUS (▶Fig. 3). The esophageal lumen on the anal side of the obstruction was punctured with a 19G needle under EUS guidance, and the puncture needle was confirmed, by fluoroscopic contrast and also through the retrograde endoscope, to be in the esophageal lumen. A guidewire was placed in the esophagus on the anal side of the obstruction and a balloon catheter was used to dilate the obstruction site, allowing passage of the scope (▶Fig. 4).

A total of four balloon dilations and one local steroid injection were required to maintain patency. There have been several reports of treatment of complete esophageal obstruction using the EUS rendezvous technique [1, 2], but none has used forward-viewing...
EUS. When puncturing the esophagus, which is a linear organ, forward-viewing EUS is safe and easy given the angle of the needle advanced from the scope, and the risk of perforation is low because the needle can be aimed at the center of the scar site for puncture and dilation (▶Fig. 5).

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Competing interests

The authors declare that they have no conflict of interest.

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