Covered self-expandable metal stents (SEMSs) can migrate, with an incidence of more than 30% [1]. Various techniques for removal of migrated SEMSs have been reported [2–4]. However, the nylon loop pusher-assisted approach for removal of a distally migrated SEMS has not been reported previously.

A 78-year-old man presented with dysphagia and was eventually diagnosed with a refractory esophageal stricture after endoscopic submucosal resection for an early esophageal cancer. We inserted a fully covered SEMS (20×80 mm; Nanjing Minimally Invasive Medical Technology Co., Ltd., Nanjing, China) across the stricture to relieve symptoms. The patient was readmitted after 6 months because of recurrent dysphagia. Gastroscopy using a GIF-H290 endoscope (Olympus, Tokyo, Japan) showed that the stent had migrated distally, with there being a stenosis above the proximal end of the SEMS (Fig. 1). Repeated conventional attempts at removal using a biopsy clamp failed both to grasp the body of the stent and to tighten the upper edge of the stent with a recyclable line.

We therefore moved to the nylon loop pusher-assisted approach. Slight resistance was encountered when passing the gastroscope (9.8 mm) through the stenosis. The lower edge of the stent was grasped with the metal hook of a nylon loop pusher (Leo Med, Changzhou, China) (Fig. 2) and pushed towards the distal esophagus, resulting in the upper edge of the stent becoming separated from the narrow tissue, as expected. After this, we were able to easily grasp the upper edge of the stent again with the metal hook of the nylon loop pusher, and compress the stent (Fig. 3). Finally, the stent was gently removed through the esophageal stricture. Post-procedural gastroscopy revealed mild bleeding from the surface of the stricture and par-
tial mucosal ulceration, but no evidence of lesions elsewhere (▶ Fig. 4; ▶ Video 1). Fully covered SEMSs are being increas-
ingly used for the benign esophageal diseases, and stent migration is a com-
mon complication. Here we provide a new safe and effective method using the metal hook of a nylon loop pusher for when removal of a migrated stent is diffi-
cult.

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Competing interests

The authors declare that they have no con-
flict of interest.

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