A 55-year-old man with hepatitis B virus-related liver cirrhosis presented to the gastroenterology clinic with a 2-week history of melena. Esophagogastroduodenoscopy revealed severe Sarin type 2 gastroesophageal varices with red color signs and ulcer scar with mild stricture at the descending border of the duodenal bulb (Fig. 1). The endoscope was able to pass through freely. Endoscopic variceal obturation (EVO) was performed within two large varices using 2 mL and 4 mL respectively of pure n-butyl-2-cyanoacrylate tissue glue. Four months later, a tissue glue bezoar of stone-like hardness and hill-like shape, measuring about 1.6 × 1.5 × 0.5 cm, was found detained at the duodenal bulb (Fig. 2), along with a circumferential shallow ulcer (Fig. 3). However, there were no special symptoms such as abdominal pain, distention, or the like. Three sequential esophageal variceal ligations were carried out, combined with administration of an oral proton pump inhibitor (PPI). Then, with a transparent cap providing the application point, the bezoar was trapped and fragmented with a wire snare (Video 1). The foreign bodies were then aspirated into the transparent cap and retrieved with the aid of the snare. Shallow ulcers were found circling around the outlet of the duodenum bulb, but the bezoar had caused no further injuries (Fig. 4). PPI treatment was continued and a follow-up endoscopic review 2 months later indicated eradication of the ulcer.

Despite the efficacy of EVO, complications such as needle adhesion, emboliza-
tion [1], and bacteremia can occur. We report a very rare case of duodenal tissue glue bezoar, probably due to ulcer-related poor compliance of the duodenal bulb. Besides surgical removal, various endoscopic devices and techniques have been described in use for bezoar fragmentation, e.g., basket catheter, electrohydraulic lithotripsy, and others [2]. The use of more advanced devices such as laser [3] and polyfilament snare [4] has also been described. In our patient, successful removal of the tissue glue bezoar was flexibly achieved with easily available equipment: a polypectomy snare and cap-assisted endoscopy [5].

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Competing interests

The authors declare that they have no conflict of interest.

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