A 77-year-old woman diagnosed with hepatitis B presented with hematemesis. Esophagogastrroduodenoscopy (EGD) showed esophageal varices with signs of red color, and tumor-like gastric varices with a white nipple (Fig. 1a). For suspected recent bleeding, 4 ml of a mixture of N-butyl-2-cyanoacrylate (Histoacryl) and Lipiodol (1:1 ratio) was injected into the gastric varices. Follow-up EGD 1 month later disclosed two ulcers on the esophageal varices at 36 and 34 cm, respectively, from the incisor. Pathology examination of the removed protruding material at the center of the ulcer showed inflammatory cells mixed with a cyanoacrylate substance (Fig. 1b,c).

A 57-year-old woman diagnosed with hepatitis B-related liver cirrhosis presented with massive tarry stool. EGD showed huge esophageal varices with signs of red color and active gastric variceal bleeding. For hemostasis, 4 ml cyanoacrylate mixture was injected. Recurrent gastric variceal bleeding happened 1 week later, thus 6 ml cyanoacrylate mixture was injected. However, tarry stool occurred again after 1 week, and EGD showed oozing from the disrupted esophageal variceal mucosa with protruding foreign materials (Fig. 2), which made ligation difficult. Therefore 1 ml cyanoacrylate mixture was injected for hemostasis.

Endoscopic injection of cyanoacrylate to arrest gastric variceal bleeding has been widely used and is now considered more effective than sclerotherapy and band ligation [1]. However, despite the efficacy of endoscopic injection of cyanoacrylate, the serious but uncommon complications of distant and remote thromboembolism have been reported [2–4]. To our knowledge, these are the first cases of esophageal variceal embolism complicated by ulcer formation and bleeding after gastric variceal obliteration (GVO). In our pilot study, the use of cyanoacrylate injection for gastric varices and concomitant banding ligation for esophageal varices was better than separate procedures to reduce re-bleeding [5]. The actual pathogenesis is unknown. From these two cases, post-GVO cyanoacrylate embolism may be a possible pathogenesis that causes esophageal variceal bleeding and ligation failure. In summary, patients receiving GVO with large doses of cyanoacrylate may be at increased risk of esophageal variceal embolism and bleeding.

**Competing interests:** None

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