A 51-year-old man was transferred to our department as an emergency suffering from hematemesis for about half an hour. He had a medical history of alcoholic cirrhosis and had undergone splenectomy with portal azygos disconnection 6 years earlier. Emergency gastroscopy revealed severe esophageal varices with string-of-beads appearance. Active bleeding could be observed from the surface of the varicose veins (Fig. 1). Endoscopic variceal ligation was therefore indicated as the most appropriate therapeutic approach and a multiple band ligator (SpeedBand SuperView Super 7 Multiple Band Ligator; Boston Scientific, Natick, Massachusetts, United States) was used. When the esophageal varices and surrounding tissue were suctioned into the ligator cup at full power, the elastic band could not be released, leading to massive hemorrhage from the broken vessel as a result of the powerful suction (Fig. 2a). Many attempts were made to release the elastic band but all failed. Therefore, we decided to withdraw gastroscopy and install a new multiple band ligator. The elastic band was successfully released this time and stopped the bleeding (Fig. 2b). The previous multiple band ligator was found to have been installed incorrectly and the black marker line (arrow) was not aligned correctly with the biopsy channel of the endoscope (Fig. 2c), leading to failure of elastic band release and ligation (Fig. 2d).

The patient’s hematemesis had stopped soon after the procedure was completed with the new multiple band ligator. An additional gastroscopy performed 14 months later confirmed the absence of severe esophageal varices (Fig. 3) and the patient reported no further hematemesis or melena up to that time.

Endoscopic band ligation is an effective and safe method for the management of gastroesophageal varices and variceal hemorrhage in cirrhosis [1]. It is also considered to be safe and applicable beyond the prevention and management of gastroesophageal varices [2–5]; however...
few studies have reported complications or potential risks during its use. To our knowledge, this is the first report of endoscopic band ligation-related iatrogenic hemorrhage in the treatment of acute esophageal variceal bleeding, which was eventually well managed. In our experience, the multiple band ligator should be carefully checked and tested to confirm its normal function before use.

In conclusion, endoscopic band ligation is a relatively safe and useful method for the management of gastroesophageal varices if care is taken to ensure gentle and correct suction to avoid damage to fragile vessels or hemorrhage.

**Competing interests:** None

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**References**


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