Intramural hematoma with gastric outlet obstruction: a rare complication of endoscopic injection therapy for bleeding anastomotic ulcer

A 66-year-old man was admitted to our department because of severe hematemesis and melena for 2 days. He had a history of gastric ulcer, which had been treated by a Billroth I partial gastrectomy 15 years previously. His hemoglobin was 3.4 g/dL and he was transfused with 5 units of packed red blood cells. Laboratory tests revealed normal platelet count and coagulation profile. Endoscopy showed blood oozing from an anastomotic ulcer (Fig. 1 a). The bleeding was arrested by injecting approximately 8 mL of diluted epinephrine (1 : 10 000) into and around the bleeding site (Fig. 1 b).

On the following day, the patient developed nausea and vomited the gastric contents, which consisted of greenish-yellow fluid. Follow-up endoscopy on day 3 revealed a large, intramural hematoma in the area of the injection site that was causing almost complete obstruction, such that the gastroscope was unable to pass through the stricture (Fig. 2). The patient was managed conservatively with fasting, nutritional support, and a proton pump inhibitor, and made a complete recovery. A follow-up endoscopy after 2 months revealed complete resolution of the hematoma (Fig. 3).

Intramural hematoma of the gastrointestinal tract is an uncommon disorder. The causes of intramural hematoma include: coagulopathy [1], Ivor Lewis operation [2], endoscopic therapy [3], or spontaneous hematoma [4]. We believe that in this case the formation of the gastric in-
Tramural hematoma was due to the large volume of diluted epinephrine that was injected into the mucosa and submucosa. The arterioles in the submucosa or muscularis may have been damaged during deep and massive submucosal injection. Although this is the first case report of a gastric intramural hematoma with gastric outlet obstruction following endoscopic injection therapy for a bleeding anastomotic ulcer, clinicians should be alert to this potential complication to ensure its recognition and appropriate management. We advocate consideration of conservative management as the procedure of choice for gastric intramural hematoma.

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**Competing interests:** None

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**Bibliography**

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