We report the first case of bleeding gastric antral vascular ectasia (GAVE) treated successfully by endoscopic band ligation after failure of argon plasma coagulation (APC) to achieve hemostasis.

A 55-year-old woman presented with a 1-month history of recurrent melena and severe anemia (hemoglobin 4.5 g/dL) caused by severe bleeding from GAVE of idiopathic origin. She was transfused with 4 units of packed red blood cells. She underwent two sessions of APC in an attempt to achieve hemostasis but responded suboptimally, and the melena recurred within 2 weeks with a drop in the hemoglobin from a post-transfusion level of 11.0 g/dL to 7.9 g/dL (Figure 1). Endoscopic band ligation was considered as a salvage therapy for the APC-refractory GAVE lesion and two sessions were performed with a 2-week interval between them by applying five and eleven rubber bands respectively in the antrum (Figure 2). After the endoscopic band ligation, there was clinical and endoscopic improvement and a rise in the hemoglobin to 10.4 g/dL (Figure 3). The adverse effects after banding were epigastric pain requiring oral analgesia and ulcers at the sites of band application, which healed completely (Figure 4). In the 15 months of follow-up after the band ligation no gastrointestinal bleeding occurred and her hemoglobin remained stable, with persisting improvement of the endoscopic lesions (Figure 5).

GAVE is an important cause of overt or occult gastrointestinal bleeding, and mainly affects elderly women [1]. Occult blood loss is the most common feature, and transfusion dependence is seen in a half to two-thirds of cases. Because of a lack of randomized trials, the best treatment modality remains unknown, but APC is currently the most common and popular method of treatment [2,3].

We used endoscopic band ligation to treat GAVE in this patient because of its proved safety, effectiveness, and simplicity in achieving hemostasis in variceal and various nonvariceal gastrointestinal bleeding conditions [4,5]. Unlike APC, endoscopic band ligation can be applied all over the antrum in a single session without causing the discomfort associated with excessive gaseous distension, and because it is a very simple and cost-effective method that does not require any costly equipment, accessories, or advanced training. Its simplicity, safety, and cost-effectiveness make it a superior alternative to APC.
for the treatment of bleeding GAVE, especially in countries with limited resources.

In conclusion, endoscopic band ligation is a novel therapy for GAVE and can also be used as a salvage therapy if other treatment modalities fail.

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References


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