In a 45-year-old woman with epigastric discomfort for 1 year, upper gastrointestinal endoscopy and endoscopic ultrasonography (EUS) showed a hypoechoic solid mass originating from the muscularis propria of the posterior wall of the gastric fundus (Fig. 1). EUS revealed that this 0.8 × 0.6 cm mass was probably a gastrointestinal stromal tumor (GIST) because of its morphological characteristics; the tumor was growing towards the gastric lumen and was partly connected with the muscularis propria.

The patient underwent band ligation of the submucosal lesion, using a standard endoscope (Olympus GIF-XQ240 Gastroscope, Olympus Optical Co., Tokyo, Japan), to which was attached a ligator cap with a diameter of 1.0 cm. The lesion was sucked sufficiently into the ligator cap and the rubber band (6 Shooter Saeed Multi-Band Ligator, Wilson-Cook Medical, Winston-Salem, North Carolina, USA) was released to fully ligate the lesion (Fig. 2). After the procedure, the patient was prescribed esomeprazole 20 mg twice daily. However, 41 hours after band ligation, the patient developed severe epigastric pain that persisted for 34 hours, after which the patient attended the hospital. On physical examination, she had rebound tenderness in the upper abdomen. An abdominal X-ray revealed intraperitoneal free air, suggestive of a gastrointestinal perforation. A 1-cm perforation was found on the posterior wall of gastric fundus, which was repaired successfully. The patient had an uneventful recovery and was discharged 10 days after surgery.

There are rare reports of complication of perforation, it is vital that only tumors with the appropriate volume are selected for this approach and the sucking force is carefully controlled so that a minimum part of gastric wall is ligated.

**Acknowledgments**

This work was supported by the National Natural Science Foundation of China (81000887) and the Research Fund for the Doctoral Program of Higher Education of China (20090171120064).

**Competing interests:** None

**References**

3. Wang XQ, Chen HX, Chen Bin et al. Efficiency of endoscopic ligation in treating upper gas-
trointestinal submucosal tumors. New Medicine (Chinese) 2010; 41: 88–90

Bibliography
DOI http://dx.doi.org/10.1055/s-0032-1309916
Endoscopy 2012; 44: E296–E297
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

Corresponding author
Professor Y. Cui
Department of Gastroenterology
First Affiliated Hospital of Sun Yat-sen University
58 Zhongshan II road
Guangzhou 510080
P.R. China
Fax: +86-20-87755766
gzcuiyi@163.com