Endoscopic variceal ligation (EVL) is now considered to be demonstrably superior to endoscopic variceal sclerotherapy (EVS), particularly with regard to procedure-related morbidity [1]. The use of multiple-band ligators has made ligation technically easier and faster, but the long-term results of EVL are less encouraging, due to early variceal recurrence. This is particularly the case in patients with unresectable hepatocellular carcinoma and esophageal bleeding, who experience extremely high rates of recurrent bleeding and mortality [2].

A 51-year-old woman with Child-Pugh class A cirrhosis and chronic hepatitis B presented in December 2001 with hematemesis and melena. Active bleeding from large esophageal varices was observed which stopped after the application of the first elastic band over the bleeding site. Color Doppler transabdominal ultrason and conventional computed tomography revealed a large diffuse hepatocellular carcinoma involving the right hepatic lobe, a large portal vein thrombosis (20 mm), extensive collaterals in the hepatic hilum, and gallbladder varices, suggestive of a malignant cavernomatous transformation of the portal vein. Eradication of the esophageal varices was achieved in four EVL sessions, using the Saeed six-shooter Multi-Band Ligator (Wilson Cook, Winston-Salem, North Carolina, USA).

Immediately after the last EVL session, however, the patient developed complete esophageal obstruction complaining of inability to swallow either food or liquids (aphagia). This persisted for 48 hours, despite the administration of prokinetics. A subsequent examination showed that the last band had ligated the whole circumference of the esophagus (Figure 1a). The band was pushed down with the endoscope and a circumferential area of necrotic mucosa was noted on withdrawal (Figure 1b). Immediately after this procedure the patient was able to swallow liquids, although this was accompanied by a sensation of retrosternal discomfort. At a follow-up endoscopy after 10 days, a circumferential stricture with a diameter of approximately 10 mm was observed. After the stricture was gently passed with the endoscope, a small tear with minimal bleeding was noted (Figure 2). The patient is well after 1 month, with minimal dysphagia for solids.

To the best of our knowledge, this is the first case of accidental ligation of the whole circumference of the esophagus with complete esophageal obstruction. Accidental ligation of the arytenoid and accidental banding of the major papilla during ligation of duodenal varices have been reported [3, 4]. However, these complications are rare and the main advantage of EVL is still considered to be the low rate of treatment-induced complications when compared with EVS [5]. Interestingly, in our patient, the band was tight enough to hold the esophageal wall mucosa for 48 hours with complete esophageal obstruction, despite esophageal peristalsis and the administration of prokinetics.

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References

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