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Gastric Carcinoid Tumour as a Cause of Severe Upper Gastrointestinal Haemorrhage

A 39-year-old woman was admitted on an emergency basis with severe upper gastrointestinal bleeding. On examination, she was shocked and had a haemoglobin of 37 g/l. Following resuscitation, she underwent an emergency upper gastrointestinal endoscopy, which showed a polypoid lesion in the antrum of the stomach (Figure 1). As she remained unstable, a laparotomy was undertaken, at which the palpable lesion was identified (Figure 2) and excised using an elliptical incision, with clear macroscopic margins. Pathological examination of the gastric tissue revealed a gastric carcinoid tumour (Figure 3). The patient subsequently underwent a radical subtotal gastrectomy with Roux-en-Y gastrojejunal anastomosis. Histology showed that the resection margins were free from any tumour.

Four previous cases of severe bleeding from a gastric carcinoid, requiring surgical treatment, have been reported [1–4]. In all cases, a single gastric carcinoid of the sporadic type was found. In two of these cases, abnormal submucosal vasculature eventually opening up onto the mucosal surface was thought to explain the severity of the bleeding [1,2]. This also appears to have been the situation in the present case, with large feeding blood

vessels to the tumour and an apparent nonbleeding visible vessel at endoscopy.

Three types of tumour have been classified. Type I and II tumours are characteristically multiple and small, with low malignant potential. Type III tumours are usually single and associated with a high malignant potential. More radical surgery, such as complete or partial gastrectomy, is required in such cases [5]. As this patient had a type III tumour, it was considered that an aggressive surgical approach was indicated, and she therefore subsequently underwent a radical subtotal gastrectomy.

We would suggest that if a lobulated tumour is found at endoscopy, gastric carcinoid tumour should be considered in the differential diagnosis. Although these tumours are rare, recognition is important, as certain types are associated with a high malignant potential.

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Figure 1 Endoscopic view of the polypoid lesion in the antrum of the stomach, with a prominent nonbleeding visible vessel at the tip.



Figure **2** The posterior wall of stomach at laparotomy, showing a multilobed, irregular lesion (3.6 cm in diameter), with large feeding vessels.

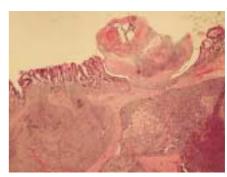


Figure **3** The lobulated tumour within the submucosa, consisting of bland cells with abundant cytoplasm (haematoxylin–eosin stain; original magnification × 20). There was marked intravascular invasion, with the tumour extending to the resection margin.