Endoscopic submucosal dissection of a large pedunculated gastric lesion: avoiding massive bleeding to achieve en bloc resection

A 72-year-old woman with long-term dyspepsia underwent an outpatient upper gastrointestinal endoscopy, which showed a large pedunculated polypoid lesion of 30 mm on the lesser curvature of the gastric body (Fig. 1a). As endoscopic biopsies showed tubulovillous adenoma with low grade dysplasia, the patient was referred to the hospital for endoscopic resection. Pre-procedural reassessment using virtual chromenendoscopy (narrow-band imaging [NBI]) revealed areas with an irregular glandular and vascular pattern in the pedicle and surrounding mucosa, with biopsies confirming low grade dysplasia in both sites.

En bloc resection through endoscopic submucosal dissection (ESD) using an IT Knife 2 was therefore planned (Video 1) as conventional polypectomy techniques would have been associated with a high probability of piecemeal/incomplete resection. During ESD, a large (5 mm) dominant vessel was identified at the center of the implantation point of the lesion in an area corresponding to the pedicle, which would need to be dissected to achieve a successful resection (Fig. 1b). Initial selective dissection of the surrounding submucosa was performed, with subsequent vessel ligation using three hemostatic clips, which thereby allowed for complete en bloc excision, avoiding the potential for associated bleeding (Fig. 2). No post-ESD complications were observed.

Histology of the resected specimen confirmed an R0 resection of a 50-mm adenomatous lesion with extensive dysplasia (both low and high grade) and focal areas of intramucosal carcinoma (Fig. 3). The patient has subsequently continued on endoscopic follow-up, with no evidence of recurrence.

Gastric cancer is the fifth most common cancer worldwide and the third leading cause of death from oncologic disease [1]. Gastric pedunculated polyps are often resected through hot snare polypectomy. Nevertheless, alternative techniques should be considered if a risk of incomplete resection owing to dysplasia in the implantation base is evident [2, 3]. The present case and accompanying video demonstrate an effective endoscopic approach to the finding of an unexpected large vessel and highlight that ESD may be a good option to decrease the risk of massive bleeding in gastric lesions with a large pedicle.

Competing interests

None
The authors

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