Gastric pyogenic granuloma: rare entity, usual therapy

Lobular capillary hemangioma, known as pyogenic granuloma, is a benign vascular tumor that generally appears on the skin or in the oral cavity but rarely occurs in the gastrointestinal tract, where it can cause bleeding [1]. Although gastric pyogenic granuloma is rarely reported in the literature, up to 2016, approximately 50 cases of gastrointestinal pyogenic granuloma in the English literature had been indexed on MEDLINE, including a few cases of gastric involvement, the actual incidence is probably higher [2, 3].

The endoscopic appearance of pyogenic granuloma is usually a single polypoid lesion, smooth and ulcerated; the color ranges from bluish to reddish with a superficial white or opaque film covering. Resection of pyogenic granuloma is necessary in patients with anemia, but post-resection bleeding is a potential complication. The lesions typically involve the mucosa but may extend to the deep layers; thus, preoperative endoscopic ultrasonography is recommended [1, 4, 5]. Histopathologically, pyogenic granuloma is a hemangioma characterized by a lobule-like growth of capillaries with enlarged vascular endothelial cells and inflammatory cell infiltration in the stroma. Granulation tissue may also be present; the main pathological differential diagnosis of pyogenic granuloma includes bacillary angiomatosis, Kaposi’s sarcoma, or inflammatory and/or hyperplastic polyps [1, 3].

We report a case of a 78 year-old Caucasian woman with a medical history significant for ibuprofen use admitted to our department for anemia and melena requiring transfusion. Esophagastroduodenoscopy revealed a nearly 20-mm pedunculated polyp, strongly hyperemic with a superficial white film, in the gastric body (Fig. 1). Endoscopic ultrasonography evidence of a hypoechoic lesion arising from the second wall layer with preserved wall layers and no deep infiltration. (Fig. 2).
phy showed mucosal involvement without deep infiltration (▶ Fig. 2).

We removed the polyp using endoscopic mucosal resection, lifting the lesion with a solution of indigo carmine and epinephrine; in addition, multiple clips were used to close the defect to prevent bleeding (▶ Video 1). Histology demonstrated foveolar hyperplasia and lobulated capillary hemangioma, characteristic of pyogenic granuloma (▶ Fig. 3, ▶ Fig. 4). Her refractory anemia improved after the procedure.

Competing interests

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The authors

Marco Bassi1, Elisa Righi2, Emanuele Dabizzi1, Stefania Ghersi1, Pasquale Apolito1, Stefano Landi1, Vincenzo Cennamo1

1 Gastroenterology and Interventional Endoscopy Unit, AUSL Bologna, Surgical Department, Bologna, Italy
2 Anatomic Pathology Unit, AUSL Bologna, Bologna Metropolitan Department of Pathology, Bologna, Italy

Corresponding author

Marco Bassi, MD
Gastrointestinal and Interventional Endoscopy Unit, Surgical Department, AUSL Bologna, Maggiore Hospital, Largo Nigrisoli 2, 40139 Bologna, Italy
Fax: +39-05-1647814
m.bassi@ausl.bologna.it

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