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. Esophagogastroduodenoscopy 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.

Endoscopic ultrasonography evidence of a hypoechoic lesion arising from the second wall layer with preserved wall layers and no deep infiltration.

Video 1 Gastric pyogenic granuloma effectively removed by endoscopic snare resection.
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.

Endoscopy_UCTN_Code_CCL_1AB_2AD_3AC

Competing interests

Dr. Cennamo is a consultant for and has received speaker fees and travel grants from Olympus Italia, Olympus Europa, Euromedica, and Novità Medici. All other authors declare that they have no conflict of interest.

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Bibliography

Endoscopy
DOI 10.1055/a-1730-4529
ISSN 0013-726X
published online 2022
© 2022. Thieme. All rights reserved.
Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

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