GE – Portuguese Journal of Gastroenterology

Endoscopic Snapshot

GE Port J Gastroenterol 2023;30:384–386 DOI: 10.1159/000525963 Received: December 3, 2021 Accepted: February 13, 2022 Published online: August 25, 2022

Gastric Bleeding: When the Image Says It All

Sofia Silva Mendes^{a, b} Raquel Gonçalves^a Ana Célia Caetano^{a, b}

^aGastroenterology Department, Braga Hospital, Braga, Portugal; ^bLife and Health Sciences Research Institute ICVS, School of Medicine, University of Minho, Braga, Portugal

Keywords

Gastrointestinal stromal tumors · Hemorrhage · Endoscopic hemostasis

Hemorragia gástrica: quando a imagem fala por si

Palavras Chave Tumores do estroma gastrointestinal · Hemorragia digestiva · Hemostase endoscópica

A 61-year-old man presented to the emergency department with hematemesis. The patient referred epigastric pain, anorexia, and vomits for the past 3 days. He had a medical history of dyslipidemia and chronic venous insufficiency under treatment with bioflavonoids and a statin. Physical examination was unremarkable. Laboratorial analysis revealed a serum hemoglobin of 9.6 g/dL (normal range 13–18 g/dL). Fluids and a bolus of esomeprazole were administered, and the patient was submitted to an esophagogastroscopy (Fig. 1). Esophagogastroscopy revealed a 5-cm spheric subepithelial lesion with central ulceration and pulsatile bleeding in the posterior wall of the gastric corpus (Fig. 1). Endoscopic treatment was performed with adrenalin injection in the ulcer margins and application of 4 clips on the vessel, which controlled

Karger@karger.com www.karger.com/pjg

Kargeř^{*}

∂OPEN ACCESS

© 2022 The Author(s). Published by S. Karger AG, Basel

This is an Open Access article licensed under the Creative Commons Attribution-NonCommercial-4.0 International License (CC BY-NC) (http://www.karger.com/Services/OpenAccessLicense), applicable to the online version of the article only. Usage and distribution for commercial purposes requires written permission. the bleeding. Bite-on-bite biopsies of the ulcer borders were performed due to the suggestive features of a ruptured gastrointestinal stromal tumor (GIST) [1]. Due to the impossibility of complete closure of the ulcer and doubts if the bleeding completely stopped, *hemospray*[®] was applied over the lesion (Fig. 2). The biopsy samples were insufficient for histological characterization. A CT scan revealed a 5-cm nodular lesion with heterogeneous contrast enhancement in the posterior wall of the stomach without evidence of invasion of adjacent structures or metastatic disease. The differential diagnosis should be made with other potentially malignant subepithelial lesions of the stomach, namely, leiomyoma, glomus tumor, or neuroendocrine tumor. Nevertheless, the alternative diagnoses were less likely due to the ulceration, the location of the lesion, and the heterogeneous contrast enhancement in the CT scan [1-3].

The patient was submitted to an elective partial gastrectomy. The histological exam confirmed the diagnosis of a GIST with positive immunohistochemical staining for CD34, CD117, and DOG1 with preserved SDHB expression (stage pT2 G1 N0 R0) [4, 5]. One year after the diagnosis, the patient has no evidence of disease. This endoscopic snapshot illustrates a typical presentation of a large gastric GIST with massive luminal bleeding [5]. Endoscopic treatment was performed with success as a bridge to surgery [5].

Correspondence to: Sofia Silva Mendes, sofia.s.mendes@hb.min-saude.pt

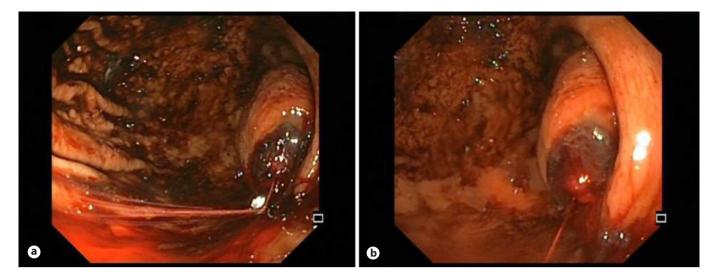


Fig. 1. a, b Endoscopic view of the gastric corpus before endoscopic treatment.

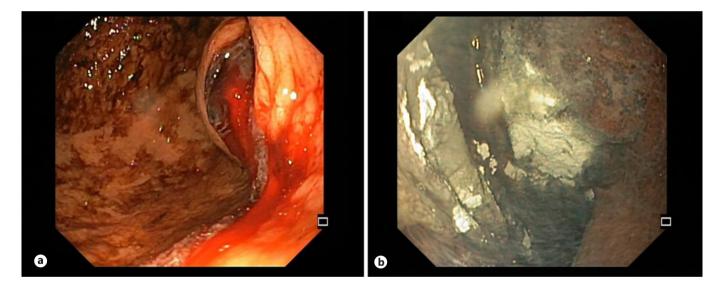


Fig. 2. Endoscopic view of the gastric corpus after adrenalin injection in the bleeding lesion (**a**) and at the end of the endoscopic treatment (**b**).

Statement of Ethics

Written informed consent was obtained from the patient for publication of the details of their medical case and any accompanying images.

Conflict of Interest Statement

The authors have no conflicts of interest to declare.

Gastric GIST Bleeding

Funding Sources

The authors have no funding to declare.

Author Contributions

S.S.M. performed the endoscopy and drafted the manuscript; R.G. and A.C.C. provided critical revision and completed the manuscript.

GE Port J Gastroenterol 2023;30:384–386 DOI: 10.1159/000525963

Data Availability Statement

The data that support the findings of this study are not publicly available due to their containing information that could compromise the privacy of research participants but are available from the corresponding author (S.S.M.) upon reasonable request.

References

- 1 Faulx AL, Kothari S, Acosta RD, Agrawal D, Bruining DH, Chandrasekhara V, et al. The role of endoscopy in subepithelial lesions of the GI tract. Gastrointest Endosc. 2017;85(6):1117–32.
- 2 Okanoue S, Iwamuro M, Tanaka T, Satomi T, Hamada K, Sakae H, et al. Scoring systems for differentiating gastrointestinal stromal tumors and schwannomas from leiomyomas in the stomach. Medicine. 2021; 100(40):e27520.
- 3 Liu M, Liu L, Jin E. Gastric sub-epithelial tumors: identification of gastrointestinal stromal tumors using CT with a practical scoring method. Gastric Cancer. 2019;22(4):769–77.
- 4 WHO Classification of Tumours Editorial Board. Soft tissue and bone tumours. 5th ed. Lyon, France: IARC; 2020. Vol. 3. ISBN-13 978-92-832-4502-5.
- 5 Casali PG, Blay JY, Abecassis N, Bajpai J, Bauer S, Biagini R, et al. Gastrointestinal stromal tumours: ESMO-EURACAN-GENTURIS Clinical Practice Guidelines for diagnosis, treatment and follow-up. Ann Oncol. 2022;33(1):20–33.