

Gastric Metastatic Melanoma Mimicking a Hyperplastic Lesion

Cláudia Martins Marques Pinto^a Marta Rodriguez^a Madalena Souto Moura^b
Mariana Afonso^b Pedro Bastos^a Mário Dinis Ribeiro^{a, c}

^aGastroenterology Department, Portuguese Oncology Institute of Porto, Porto, Portugal; ^bPathology Department, Portuguese Oncology Institute of Porto, Porto, Portugal; ^cMEDCIDS, Faculty of Medicine, University of Porto, Porto, Portugal

Keywords

Endoscopy · Gastric lesion · Metastasis

Metástase gástrica de melanoma a mimetizar lesão hiperplásica

Palavras Chave

Endoscopia · Lesão gástrica · Metástase

A 56-year-old woman was submitted to an upper gastrointestinal endoscopy due to a recent history of epigastric pain. Endoscopic examination revealed a 20-mm 0-IIa type lesion in the great curvature of the proximal corpus with a hyperplastic appearance and a dark coloration area in one of the edges (Fig. 1, 2). Biopsy of the lesion was suggestive of mesenchymal proliferation and some cells with moderate cytologic atypia. The patient was then referred to our Endoscopy Department to undergo endoscopic resection. Due to the previous histological result, we decided to perform an endoscopic ultrasonography that showed thickening of the superficial layers of the mucosa. Endoscopic biopsies were repeated, and pathological evaluation revealed diffuse involvement

of the lamina propria by a malignant neoplasm, composed of cells with nuclear pleomorphism and high mitotic rate, entrapping benign gastric glands. Immunohistochemistry showed diffuse positivity for melanocytic markers (PS100, SOX10 and MelanA) and negativity for cytokeratins, DOG-1 and CD45 (Fig. 3, 4). Given the clinical history of a malignant melanoma of the third left hand finger submitted to amputation 5 years before, a diagnosis of gastric metastasis of malignant melanoma was made. Thoraco-abdomino-pelvic computed tomography and PET scan showed no other metastasis. After multidisciplinary discussion, total gastrectomy was proposed to the patient given the location of the lesion (proximal corpus). During surgery, it was decided to perform an atypical gastrectomy following endoscopic tattoo. The histological specimen confirmed the diagnosis of malignant melanoma with free surgical margins. The patient is currently under clinical and imagiological (PET scan) surveillance.

Malignant melanoma is a frequent source of metastases in the gastrointestinal tract [1]. The most frequent location is the small bowel followed by the colon and rectum; gastric metastases are rare [1, 2]. Metastatic disease is usually diagnosed within the first 3 years, but metasta-

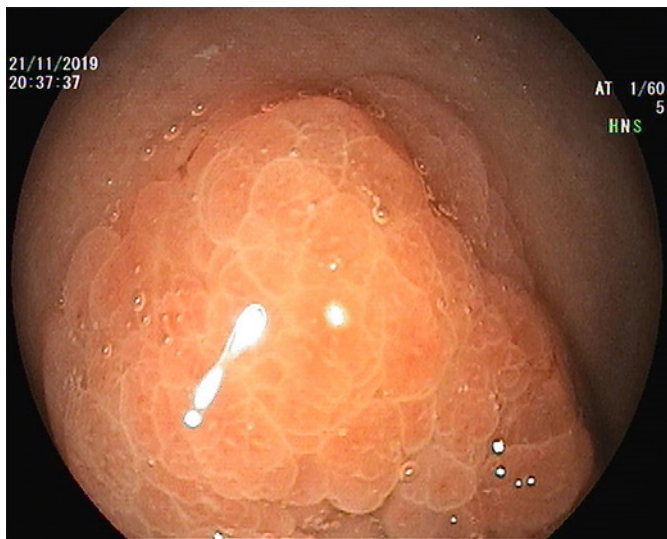


Fig. 1. Endoscopic image of a gastric lesion 0-IIa with hyperplastic appearance of the mucosa.

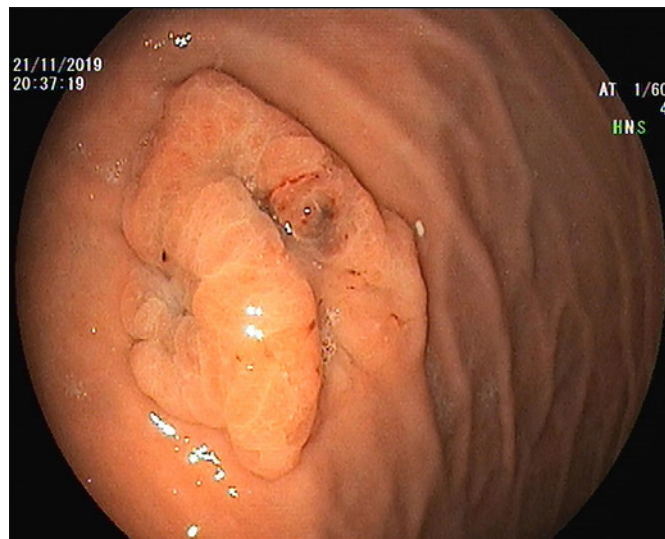


Fig. 2. Endoscopic image of the lesion with a dark coloration area of 5 mm in one of the edges.

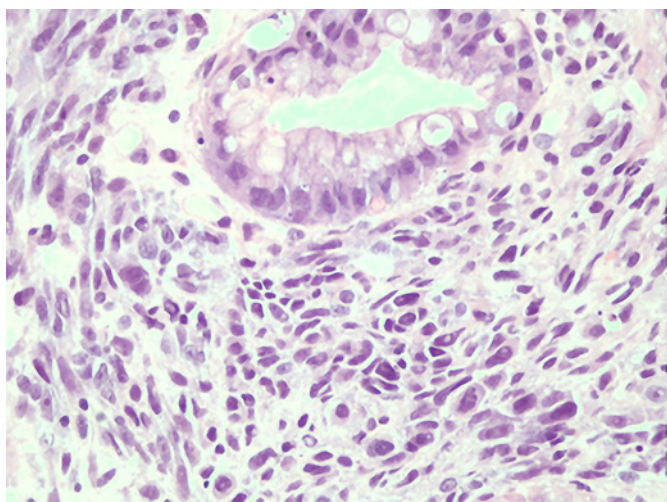


Fig. 3. Gastric body mucosa with normal epithelial cells and a diffuse infiltration of the lamina propria by sheets of malignant neoplastic cells. HE staining, ×40.

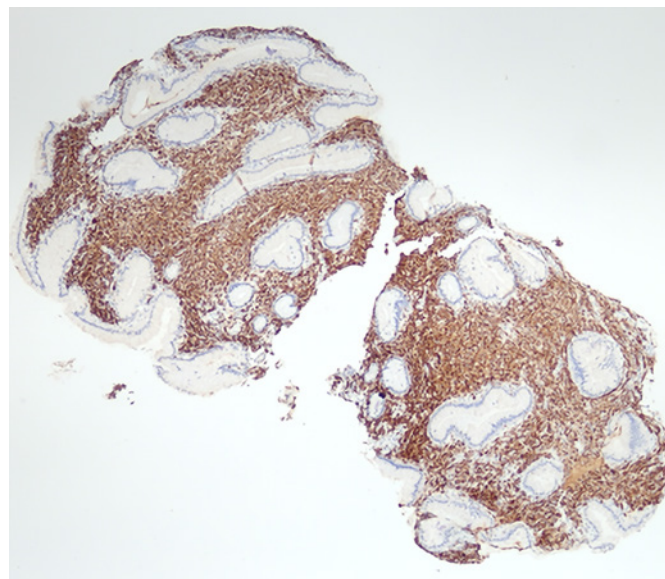


Fig. 4. Diffuse positivity for MelanA and PS100.

ses after 15 years have also been reported [3]. Lesions mimicking submucosal or primary gastric ulcerated tumours are the most frequent presentation, although endoscopic findings are variable [2, 4].

It is important to keep in mind the different possible endoscopic appearances of metastatic lesions to avoid further delay in diagnosis and treatment. Immunohistochemistry is an imperative tool for making a correct diagnosis in these circumstances.

Statement of Ethics

Patient consent was obtained for publication of the case (including publication of images).

Conflict of Interest Statement

The authors have no conflicts of interest to declare.

Funding Sources

The authors have no funding source to declare.

Author Contributions

C.M.M. Pinto wrote the manuscript. M. Rodriguez, M. Souto Moura, M. Afonso, P. Bastos and M. Dinis-Ribeiro wrote and revised the manuscript. M. Souto Moura and M. Afonso collected the pathology images. All authors approved the final version. C. Pinto is the article guarantor.

References

- 1 Blecker D, Abraham S, Furth EE, Kochman ML. Melanoma in the gastrointestinal tract. [Am J Gastroenterol](#). 1999 Dec;94(12):3427–33.
- 2 El-Sourani N, Troja A, Raab HR, Antolovic D. Gastric Metastasis of Malignant Melanoma: Report of a Case and Review of Available Literature. [Viszeralmedizin](#). 2014 Aug;30(4):273–5.
- 3 Farshad S, Keeney S, Halalau A, Ghaith G. A Case of Gastric Metastatic Melanoma 15 Years after the Initial Diagnosis of Cutaneous Melanoma. [Case Rep Gastrointest Med](#). 2018 Jul;2018:7684964.
- 4 Rastrelli M, Tropea S, Rossi CR, Alaibac M. Melanoma: epidemiology, risk factors, pathogenesis, diagnosis and classification. [In Vivo](#). 2014 Nov-Dec;28(6):1005–11.