ENDOSCOPIC SPOT

Esophageal melanocytosis: Case report and literature review

Melanocitose esofágica: relato de caso e revisão da Literatura

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Introduction

Esophageal melanocytosis is a rare benign entity, with little specificity in terms of symptoms, usually located in the middle and lower thirds of the esophagus, characterized by melanocytic proliferation in the esophageal squamous epithelium and melanin deposition in the mucosa.\textsuperscript{2-4} Little is known about the etiology and natural course of this condition, although it is hypothesized that it may result from a chronic irritant stimuli such as gastroesophageal reflux disease, chronic esophagitis, which would cause mucosal damage and subsequent reactive melanocytic hyperplasia.\textsuperscript{2,3,5} This article aims to report a rare case of melanocytosis in a patient with atypical chest pain and dyspepsia. During upper digestive endoscopy, a flat blackened area was located beginning at 32 cm from the upper dental arch (Fig. 1). The lesion was about 30 mm in extent and occupied about 30\% of the esophageal circumference, having an interspersed area of mucosa of normal color.

Case report

A female patient, aged 45, presented with atypical chest pain and dyspepsia. During upper digestive endoscopy, a flat blackened area was located beginning at 32 cm from the upper dental arch (Fig. 1). The lesion was about 30 mm in extent and occupied about 30\% of the esophageal circumference, having an interspersed area of mucosa of normal color.

Figure 1 Endoscopic image showing flat blackened area.
Figure 2  Fragments of esophageal squamous mucosa with epithelium presenting hyperplasia, hyperpigmentation of the basal layer and lymphocyte exocytosis.

Figure 3  One slide shows fragments of esophageal squamous mucosa with epithelium presenting hyperplasia, hyperpigmentation of the basal layer, and lymphocyte exocytosis. The chorion was sparsely sampled, containing a discrete mononuclear inflammatory infiltrate and several melanocytes/melanophages. No signs of malignancy in this sample.

Microscopy showed a fragment of esophageal squamous mucosa with the epithelium presenting hyperplasia, hyperpigmentation of the basal layer, and lymphocyte exocytosis (Fig. 2); the chorion was sparsely sampled, containing a discrete mononuclear inflammatory infiltrate and several melanocytes, melanophages with no signs of malignancy (Fig. 3).

Discussion

Esophageal melanocytosis is endoscopically characterized by a circular, linear, or oval lesion of dark-brown color, smooth surface, and jagged edges.\(^4\) In histological examination, it is characterized by melanocytic proliferation in the esophageal squamous epithelium and by mucosal melanin deposition.\(^4,5\) Proliferation of melanocytes is seldom observed, with an estimated incidence of about 0.07–0.15%.\(^5\) Differential diagnoses should include melanocytic nevi and malignant melanoma.\(^4\) We can differentiate melanocytosis from malignant melanoma by the absence of spindle cells and cytologic atypia in the histopathology exam, and endoscopically the melanoma assumes a polypoid form.\(^1,4\) Anthracosis, hemosiderosis, dye intake, and lipofuscin deposition should also be considered as differential diagnoses.\(^4\)

Ethical disclosures

Protection of human and animal subjects. The authors declare that no experiments were performed on humans or animals for this study.

Confidentiality of data. The authors declare that they have followed the protocols of their work center on the publication of patient data and that all the patients included in the study received sufficient information and gave their written informed consent to participate in the study.

Right to privacy and informed consent. The authors have obtained the written informed consent of the patients or subjects mentioned in the article. The corresponding author is in possession of this document.

Conflicts of interest

The authors have no conflicts of interest to declare.

References