# **Images in Gastroenterology and Hepatology**



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# Capsule Endoscopy in the Diagnosis of Eosinophilic Enteritis

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#### **Keywords**

Capsule endoscopy  $\cdot$  Eosinophilic enteritis  $\cdot$  Nonspecific findings

Cápsula endoscópica no diagnóstico de enterite eosinofílica

## **Palavras Chave**

Cápsula endoscópica · Enterite eosinofílica · Achados inespecíficos

A 45-year-old female patient with allergic rhinitis without medication was referred for evaluation for suspected Crohn's disease in 2004. She presented with epigastralgia, dyspepsia, and iron deficiency anemia. Upper digestive endoscopy showed multiple erosions in the 2nd and 3rd duodenal portions; ileocolonoscopy was normal, and capsule endoscopy revealed 10 aphtoid erosions in the duodenum, jejunum, and ileum. Peripheral eosinophilia and elevated serum IgE were absent, and antitransglutaminase and stool for ova and parasites were negative. Surveillance without treatment was recommended, and the patient was lost to follow-up until 2017 when capsule endoscopy was repeated and revealed

several focal areas of mucosal congestion, villous atrophy and pleomorphic denudation, and wide superficial erosions in the duodenum distal to the second portion (Fig. 1). Based on these findings, the patient underwent balloon-assisted enteroscopy (Fig. 2) to obtain histological material, which revealed a small intestinal mucosa with loss of the normal villous architecture secondary to chorion expansion by chronic inflammatory infiltrate, with the participation of numerous eosinophils with variable intensity, in some areas >50 eosinophils per large magnification field. The patient was referred to the immunoallergology department and started an empirical elimination diet with improvement of the abdominal symptoms.

Eosinophilic enteritis is a rare inflammatory disease with indefinite pathogenesis that is based on eosinophilic infiltration of the gastrointestinal tract and should be considered in the differential diagnosis of unexplained gastrointestinal symptoms. Since capsule endoscopy can visualize the entire small bowel, it is useful in the diagnosis, contributing to the localization of the lesions for biopsy [1]. Nevertheless, the findings in capsule endoscopy are nonspecific and difficult to differentiate from other entities and can include erythema, whitish specks, focal erosions, ulcerations, thickening of the folds, polyps, nodules, and friability [2, 3].

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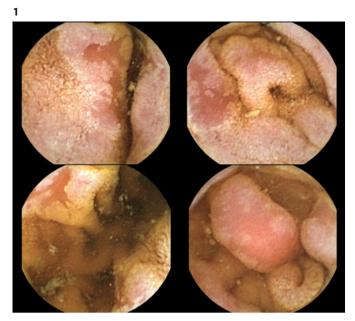
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**Fig. 1.** Capsule endoscopy findings revealing several focal areas of mucosal congestion, villous atrophy and pleomorphic denudation, and wide superficial erosions.

**Fig. 2.** Balloon-assisted enteroscopy image showing focal areas of villous atrophy and pleomorphic denudation.

# **Statement of Ethics**

An informed patient consent was obtained for the publication of the case details.

### **Disclosure Statement**

The authors have no financial support or competing interests to disclose.

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