Images in Gastroenterology and Hepatology



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Rare Differential Diagnosis for a Common Crohn's Disease Presentation

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Keywords

 $\label{leocecal} Ileocecal\ endometrios is \cdot Crohn's\ disease \cdot Intestinal\ obstruction$

Diagnóstico diferencial incomum com apresentação Crohn-like

Palavras Chave

Endometriose ileocecal · Doença de Crohn · Obstrução intestinal

A 36-year-old female with no past medical history was admitted with a 1-week history of abdominal pain, vomiting, and no passing of stool or gas for 5 days. One week before, she had presented to the emergency department with a 2-week history of diarrhea, vomiting, generalized abdominal pain, and a 4-kg weight loss, without fever, which had been diagnosed as gastroenteritis and had been treated with broad-spectrum antibiotics and antiemetics. Physical examination showed a distended and tym-

panized abdomen, without peritoneal signs. Laboratory workup was only relevant for an elevated C-reactive protein 7.5 mg/dL. Abdominal X-ray revealed multiple airfluid levels; therefore, computed tomography was performed, showing marked thickening of the terminal ileum wall and a dilated small bowel, locoregional and mesenteric lymphadenopathies, as well as free liquid in the mesentery, paracolic gutter, and pelvic cavity (Fig. 1). Taken together, these findings were suggestive of ileal Crohn's disease with small-bowel obstruction, so she was started on methylprednisolone. As there was no improvement, the patient underwent ileocolonoscopy that revealed a deformed cecum and a short segment of edematous ileum without erosions or ulcers (Fig. 2). Biopsies were inconclusive, so an ileocecal resection was scheduled.

The surgical specimen revealed thickening of the terminal ileum and cecal wall, caused by multiple foci of endometrial glands with low proliferative activity along the muscularis propria, corresponding to ileocecal endometriosis (Fig. 3a, b).

In a previously asymptomatic immunocompetent young female, alternative diagnoses such as infectious ileitis were considered less likely due to the persistence of

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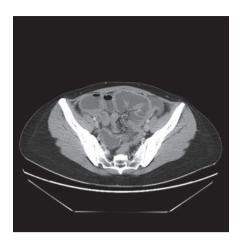


Fig. 1. Marked thickening of the terminal ileum wall and a dilated small bowel.

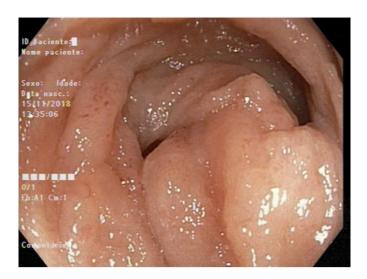
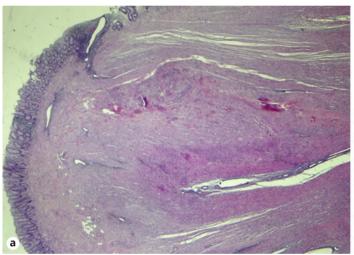


Fig. 2. Edematous ileum without erosions or ulcers.



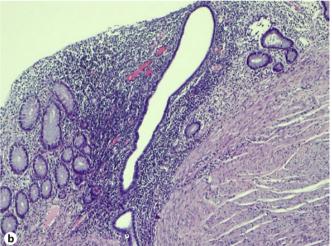


Fig. 3. a, b Multiple foci of endometrial glands.

symptoms despite broad-spectrum antibiotics and the lack of risk factors for tuberculosis. Additionally, there were no clinical and laboratory clues suggesting malignant, vascular, or infiltrative diseases. Thus, given the typical clinical scenario, a presumptive diagnosis of Crohn's disease was made. Colonoscopy was not initially performed due to the increased risk as well as the inability to undergo bowel preparation in the setting of bowel occlusion. Steroids were started as an urgent therapy with the intent to avoid surgery. Afterwards, the lack of improvement under steroids raised diagnostic doubts;

therefore, a colonoscopy was done using carbon dioxide insufflation following several cleansing enemas.

Endometriosis was not considered in the initial differential diagnosis because there were no gynecological symptoms. However, estimates of endometriosis prevalence range from 2 to 10% of the women of reproductive age, and an unknown proportion are asymptomatic [1]. Ileocecal involvement is rare and may perfectly mimic or overlap with Crohn's disease [2, 3]. Moreover, patients with endometriosis are at an increased risk of developing Crohn's disease, which may cause future misdiagnosis of

abdominal and gynecological symptoms in this patient [4]. In conclusion, although preoperative diagnosis is difficult, endometriosis should always be considered in the differential diagnosis of Crohn's disease in women of reproductive age.

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Statement of Ethics

This study did not require informed consent nor review/approval by the appropriate ethics committee.

Disclosure Statement

The authors declare no conflicts of interest.

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Author Contributions

Joyce Chivia: acquisition of data; analysis and interpretation of data; drafting of the manuscript.

Teresa Costa: histological analysis and interpretation.

Pedro Figueiredo: critical revision of the manuscript for important intellectual content.

References

- 1 Dunselman GA, Vermeulen N, Becker C, Calhaz-Jorge C, D'Hooghe T, De Bie B, et al.; European Society of Human Reproduction and Embryology. ESHRE guideline: management of women with endometriosis. Hum Reprod. 2014 Mar;29(3):400–12.
- 2 Machairiotis N, Stylianaki A, Dryllis G, Zarogoulidis P, Kouroutou P, Tsiamis N, et al. Extrapelvic endometriosis: a rare entity or an under diagnosed condition? Diagn Pathol. 2013 Dec;8(1):194.
- 3 Craninx M, D'Haens G, Cokelaere K, Baert F, Penninckx F, D'Hoore A, et al. Crohn's disease and intestinal endometriosis: an intriguing co-existence. Eur J Gastroenterol Hepatol. 2000 Feb;12(2):217–21.
- 4 Jess T, Frisch M, Jørgensen KT, Pedersen BV, Nielsen NM. Increased risk of inflammatory bowel disease in women with endometriosis: a nationwide Danish cohort study. Gut. 2012 Sep;61(9):1279–83.

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