Case Report

Small bowel intussusception from an underlying MALT Lymphoma: A double rarity case report

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A R T I C L E   I N F O

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Introduction

Intussusception relates to the invagination of a segment of bowel into the lumen of a distally adjacent segment. It is rarely seen in adults, representing only 5% of all cases of intussusception and only 1-5% of all causes of intestinal obstruction. Of all adult intussusceptions, up to 90% involve a pathologic lead point, 65-70% of which are malignancies. Presenting symptoms in adults are often non-specific and long-standing, making it difficult to diagnose. We report a case of a small bowel intussusception induced by a MALT lymphoma.

Case report

A 78-year-old man with a history of hypertension, type 2 diabetes mellitus and previous stroke with no subsequent deficits, medicated with insulin, amlodipine and clopidogrel, was referred to Gastroenterology consultation due to a 3-month history of intermittent abdominal pain relieved by the passage of loose stools, with no blood, mucus or pus, as well as sporadic vomiting and loss of 15% of his body weight. On physical examination he presented good general condition, the abdomen was not distended, had normal bowel sounds, was non-tender and no masses or organomegalies were noted.

Laboratory tests showed complete and differential blood count, blood chemistry and urinalysis within the normal range. Esophagogastroduodenoscopy and colonoscopy with terminal ileoscopy were performed, both without relevant findings. Abdominal and pelvic computerized tomography (CT) showed slight bowel distension, with no identified obstacles.

On follow-up consultation, his clinical condition deteriorated, namely the weight loss and the abdominal pain, which was more frequent, intense and accompanied by abdominal distension and vomiting. On physical examination he maintained good general condition, stable vital signs and his abdomen was now slightly distended, with visible peristaltic bowel movements, intense gurgling and diffusely tender. The hernial orifices were continent and digital rectal examination was normal.

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A magnetic resonance imaging (MRI) scan was made, showing an enteroenteric intussusception, probably ileoileal, with an intraluminal lesion in the same location, and proximal small bowel dilation (shown in Figure 1A and 1B).

An exploratory laparotomy was undertaken, identifying a small bowel neoplasm with mesenteric adenomegalies. Segmental resection with lymphadenectomy was performed. Pathological analysis showed a small bowel segment with lymphocytic infiltrate of the whole intestinal wall, featuring small lymphocytes diffusely disposed, lymphoepithelial lesions and an immunohistochemistry panel positive for CD20 and Bcl2, negative for CD3, CD5, CD10, Bcl6, CD23 and cyclin D1, with low Ki-67 (30%), compatible with low grade MALT lymphoma, affecting some of the resected lymph nodes (shown in Figure 2 A to F).

He was referred to the Hematology department, having completed 6 cycles of R-CHOP (rituximab, cyclophosphamide, vincristine and prednisone), with clinical remission.

Discussion

Intussusception in adults is rare, accounting for only 5% of all intussusception cases. In contrast to pediatric populations, where 95% are idiopathic, the vast majority of adult patients have an underlying etiology. According to a recent meta-
analysis of intussusception in adults, only 15.1% are idiopathic, 32.9% are related to malignant tumors and 37.4% to benign tumors. Owing to its nonspecific and usually long-standing presentation, diagnosis is often challenging and delayed. Various imaging modalities have been described as valuable diagnostic tools, abdominal CT being one of the methods of choice, given not only its availability, but also a sensitivity of 71.4–87.5% and a specificity of 100%. In our case report, CT did not identify any signs of intussusception, which might be attributable to its dynamic behavior. In view of the high incidence of underlying abnormalities, surgery is often required and sometimes is the ultimate diagnostic and therapeutic tool.

Unlike gastric MALT lymphomas, which are relatively frequent, representing 60–75% of all primary gastric lymphomas, have a strong association with Helicobacter pylori and a more favorable prognosis once its eradication is attained, non-gastric MALT lymphomas are much less frequent and the relation with H. pylori infection, as occurs in the stomach, is still controversial.4–6 Other pathogens, such as Campylobacter jejuni and Chlamydia psittaci, have been postulated, but the supporting evidence is scarce, and testing for these organisms is still not recommended for disease workup or management.4,5

Clinical presentation of gastrointestinal lymphoma is usually nonspecific. Abdominal pain is present in approximately 45–65% of cases, due to mass effect or bowel obstruction; other symptoms, like fever, diarrhea, hematochezia and weight loss are also frequent.8 Presentation as intestinal intussusception has been rarely described in adults, with only three published reports, two as ileocecal intussusception and only one as an ileoileal intussusception.7–9 Since small bowel lymphoma is a rare condition (10–30% of all small bowel tumors5), definitive treatment has not yet been established, but a combination of surgery and chemotherapy may be an option.6

In conclusion, small bowel MALT lymphoma presenting as intussusception is a combination of two rare conditions, with only another published case in the literature with an ileoileal presentation. Given the dynamic behavior of intussusception, abdominal CT may be misleading and a high index of suspicion may be required to allow an early diagnosis.

Statement of ethics

This study did not require informed consent or review approval by the appropriate ethics committee.

Authors’ contributions

All authors contributed to the study conception and design. Mariana Coelho performed the material preparation, data collection, and first draft of the manuscript. All authors read and approved the final manuscript.

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Conflicts of interest

The authors declare no conflict of interest.

REFERENCES