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Intestinal Obstruction Secondary to Intestinal Intussusception in an Adult, Case Report and Review of the Literature

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Abstract: Intussusception of the bowel is defined as the telescoping of a proximal segment of the bowel within the lumen of the distal segment. Intussusception in adults is rare and accounts for only 1-5% of intestinal obstructions in adults.

Female patients of 45 years old came to hospital complaining for abdominal distention and progressive intolerance to feeding. The last two weeks only drinking water, with multiple throwing episodes. With pathological background of laparoscopic cholecystectomy one month ago. At physical exam with moderate abdominal pain at deep palpation, without clear data of intestinal obstruction, laboratory without alterations. An abdominal CT scan reported a possible intussusception. A laparoscopic exploration confirmed the intussusception that could not be reduced laparoscopically and a transumbilical exteriorization for an intestinal resection was completed without complications. Patient began feeding at fifth day without complications and discharged six days after surgery, with follow up a month after with good evolution. Pathology exam reported a gastrointestinal stromal tumor (GIST).

Intussusception in adults is rare but must be considered in the differential diagnosis of intestinal obstruction by the high morbidity associated with the delay in treatment.

Keywords: Adult Intussusception, Intestinal Obstruction, Intestinal Tumor, Acute Abdomen

1. Introduction

Intusuception is the telescoping of a proximal bowel segment into a distal segment, conducing to partial or complete intestinal obstruction. It is more frequent in the first years of life but very rare in the adulthood, with some inespecific simptoms that could difficult the diagnosis.

2. CASE REPORT

Female patients of 45 years old came to hospital complaining for abdominal distention and

progressive intolerance to feeding. She refers progressive intolerance the last 6 weeks with worsening the last two weeks and only water, with multiple throwing tolerating episodes. With pathological background of laparoscopic cholecystectomy one month ago and allergies or other pathologies denied. At physical exam she was dehydrated, had moderate abdominal pain at deep palpation specially around umbilicus, without clear data of intestinal obstruction, systemic inflammatory laboratory response or alterations.

abdominal CT scan in an external hospital reported a possible intussusception image. A laparoscopic exploration was decided for the increasing pain and confirmed the intussusception that could not be reduced laparoscopically (Fig. 1 and 2)

for this reason a transumbilical exteriorization with resection of intussusception site and 20 cm of jejunum and anastomosis was completed without complications. Patient began feeding at fifth day without complications and was discharged six days after surgery, with follow up a month after with good evolution. Pathology exam reported a gastrointestinal stromal tumor (GIST)(Fig. 3 and 4).

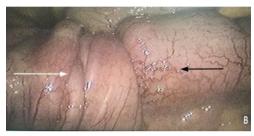


Figure 1. Intusuception site, with proximal intestine (black arrow) inside distal segment (White arrow)



Figure 2. Maneouvers for reduction without success

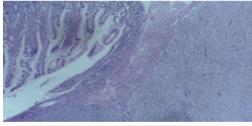


Figure3. Fusocellular mesenchymal neoplasm of submucosal predominance affecting the thickness of the intestinal Wall

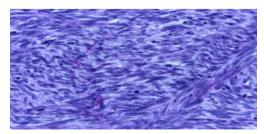


Figure4. Approach at 40x, with intersection of the fusocellular bundles of the neoplasm with apoptic bodies

3. DISCUSSION

first described Intussusception was in Amsterdam in 1674 by Barbette, and account for 1-3% of all cases of intestinal obstruction. It is common in newborns with the classical triad of abdominal pain, palpable abdominal tumor and bloody stool, but these symptoms are not frequent in adults, with other symptoms ranging from constipation, intermittent abdominal pain, partial to complete intestinal obstruction, nausea or vomiting, bleeding per rectum and others, ranging from 1 hour to 4 months since presentation [1,2].

However, the main symptom in different reported studies is abdominal pain (90.9%), and chronic symptoms in 23.3%. The more frequent presentation in adults is with chronic symptoms of constipation or partial intestinal occlusion, colic and transient pain is also frequent and for this reason the diagnosis could be overlooked. For the previous mentioned reasons, the diagnosis use to be by exclusion of other causes of abdominal pain or intestinal obstruction [3].

Once the surgeon is suspecting the diagnosis the more accurate imaging study is the CT scan, with an accuracy ranging from 58-96.5%, and the target sign on sagittal view is pathognomonic for the diagnosis [2, 4].

In child the main origin is idiopathic, whit only transient intussusception in many cases that could be reversed laparoscopically or manually. In contrast in adults the main origin is demonstrable in 70-90% of cases, with malignancies in 50-90% of cases or more depending on the literature, with enteric intussusception being the more common type and, in fact, an study by Jon Wang found that duration of symptoms >14 days, and colonic intussusception were independent predictors for malignancy [2,5].

The optimal treatment is controversial by the high rate of malignancies, some have suggested a laparoscopic approach to treat to reverse intussusception, but many other suggest the laparotomy and resection in block for the previous mentioned facts and need for pathologic study.

The prognosis after surgery is good in general, but it is conditioned by the pathology results when resection is needed, with modification according to the diagnosed tumor type and individual characteristics [2, 4, 6].

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