the gastrointestinal tract, enabling endoscopic management with no complications.

References


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Simultaneous volvulus of the ileum and sigmoid colon

Vólculo simultáneo de íleon y sigmoide

A 33-year-old woman was admitted to the emergency department due to abdominal pain and distension and a 2-day absence of bowel movement. An abdominal CAT scan was taken, showing the whirl sign, and sigmoid colon volvulus was diagnosed (fig. 1). It was resolved through rectosigmoidoscopy and the patient was released. She returned 3 weeks later due to sudden abdominal pain, distension, fecaloid vomiting, and dehydration of 2-day progression. Physical examination revealed absence of peristalsis, abdominal pain and generalized tympanism, and a positive Blumberg’s sign. Her CBC reported leukocytosis of 17,300 and 16% band forms. She did not have any radiography studies. An abdominal ultrasound was given, identifying generalized distension of bowel segments and the presence of free fluid. An exploratory laparotomy was performed, considering a diagnosis of recurrent sigmoid colon volvulus, given her past history. Unexpectedly, simultaneous small bowel and sigmoid colon volvulus was found (fig. 2). The ileum was the affected portion of the small bowel, at approximately 2.7 m, just 5 cm from the ileocecal valve. The latter presented with necrosis due to clock-wise torsion of its mesentry, together with the clock-wise volvulus of the sigmoid colon. The decision was made to perform ileal resection with primary anastomosis and sigmoid colon resection with the Hartmann procedure.

The patient had adequate progression and upon improvement was released from the hospital. Colostomy closure has now been carried out and the patient continues to have adequate progression and is being seen in outpatient follow-up.

This case corresponds to a simultaneous volvulus of the ileum and sigmoid colon, also known as double or compound volvulus.

First described by Parker in 1845, it is a rare entity that has been reported in the Middle East, Asia, and Africa more often than in the western medical literature. Three factors have been related to double volvulus: a long and mobile small bowel mesentry, a redundant sigmoid colon with a short pedicle, and a diet simultaneously high in volume and abundant liquid intake.

In relation to its pathogeny, it is suggested that when the abovementioned diet is ingested, it progresses through segments of the jejunum, making them heavier, and causing their collapse toward the left inferior quadrant, while the empty segments of the ileum and distal jejunum twist clockwise around the narrow base of the sigmoid colon. Double volvulus is a condition that rapidly progresses to gangrene of both twisted segments and the most common complications are peritonitis, sepsis, and dehydration. The main symptoms include abdominal pain (100%), abdominal distension (94-100%), nausea and vomiting (87-100%), and rebound tenderness (69%).

Preoperative diagnosis of this condition is very difficult and is calculated to exist in only 20% of the cases. However, there are 3 orienting characteristics: symptoms of small bowel occlusion, an x-ray predominantly showing large bowel obstruction, and the impossibility of inserting a sigmoidoscope.

In addition, the so-called whirl sign can be identified through CAT scan. This sign was described by Fisher as an image produced in the mid-gut when intestinal segments

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Numerous cases have been described. The findings from imaging studies are useful for early diagnosis.

A 15-73% mortality rate has been reported, and septic shock is the main cause. Its reduction is related to the presence of a non-gangrenous colon, and therefore it is imperative that the patient be treated with aggressive fluid resuscitation, antibiotics, and effective surgery that is individualized and directed according to operative findings and the condition of the patient.

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**Conflict of interest**

The authors declare that there is no conflict of interest.

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