症例報告 Inflammatory fibroid polyp of the ileum presenting with intussusception : A case report and a review of the literature

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Inflammatory fibroid polyp of the ileum presenting with intussusception:
A case report and a review of the literature

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ABSTRACT

Inflammatory fibroid polyps (IFPs) of the small intestine are relatively rare. We report a case of IFP of the ileum presenting with intussusception, and we review the pertinent literatures. A 39-year-old woman was admitted to our hospital because of intermittent abdominal pain and vomiting. Abdominal ultrasonography and computed tomography revealed small bowel obstruction due to intussusception. An emergency laparotomy was performed because of signs of impending acute intestinal obstruction. At surgery, ileo-colic intussusception caused by an ileal polyp was found. A partial resection of the ileum including the polyp was carried out. Pathological diagnosis of the polyp was IFP. IFP should be included in the differential diagnosis of adult intussusception. IFPs have no malignant potential, and surgical resection is curative.

Key words: inflammatory fibroid polyp, intussusception

INTRODUCTION

The inflammatory fibroid polyp (IFP) is a simple localized lesion that arises in the submucosa of the gastrointestinal tract, usually in the stomach. IFPs of the small intestine are relatively uncommon and usually present with intussusception and obstruction. Here we report an IFP of the ileum presenting as intussusception, and a review of the pertinent literatures.

CASE REPORT

A 39-year-old woman was admitted to our hospital with a 4-month history of intermittent abdominal pain. Her symptoms became worse 4 days before admission. She complained of more frequent colicky abdominal pain, anorexia, nausea and vomiting. Her past medical history revealed a cesarean section and a blood transfusion. Physical examination on admission showed mild tenderness in the epigastric region but normal peristaltic bowel sounds. The patient had a low grade fever (37.5°C). Her WBC was 11900/mm³, her peripheral eosinophil count was normal, and her other laboratory tests were within the normal range. Abdominal X-ray disclosed a small bowel obstruction. An abdominal ultrasonography showed a multicentric ring sign indicating intussusception (Fig. 1). Abdominal computed tomography depicted an ileo-cecal intussusception with a well-defined intraluminal solid mass (Fig. 2). An emergency laparotomy was performed due to signs of an impending acute intestinal obstruction. At surgery, an ileo-colic intussusception caused by an ileal polyp was found (Fig. 3). A partial resection of the ileum including the polyp, 30cm proximal to the ileo-cecal valve and an end-to-end...
anastomosis were carried out. Grossly, the lesion revealed a dumbbell-shaped sessile lesion measuring 3 cm in diameter. The mucosa was focally ulcerated (Fig. 4). Microscopically, the lesion consisted essentially of a mass of loose connective tissue. The main cells were spindle-shaped fibroblasts and inflammatory cells, including eosinophils. Some perivascular concentric arrangement of fibroblasts (onion skin formations) were also present. The pathological diagnosis was ileal IFP (Fig. 5). The patient made an excellent recovery and was well on discharge. She has been doing well with no recurrence, 1 year after surgery.

**DISCUSSION**

IFPs are localized submucosal polypoid lesions of the gastrointestinal tract, consisting of fibrous connective tissue, blood vessels and inflammatory cell infiltrate, usually with a varying number of eosinophils. Since the IFP was first described by Vanek in 1949 as a "gastric submucosal granuloma with eosinophilic infiltration", many different terms have been used to describe it, including eosinophilic granuloma, inflammatory pseudotumor, and so on. The term inflammatory fibroid polyp first
proposed by Helwig and Ranier61 for the gastric polyp in particular has gained acceptance for similar lesions throughout the gastrointestinal tract. There is general agreement that these lesions are predominantly submucosal, non-encapsulated and composed of fusiform cells, fibrous tissue and blood vessels forming characteristic concentric patterns, so-called onion-skin formations. A variable inflammatory cell infiltration composed of eosinophils, lymphocytes and plasma cells has been reported in all reported cases7'. The cause and genesis of IFP have remained obscure. Bacterial, chemical, metabolic and traumatic stimuli have been suggested to initiate the lesions6'. The histogenetic origin of the IFP has been controversial. Recent immunohistochemistry and electron microscopy studies suggest that IFPs represent reactive lesions that are fibroblastic in nature8', but some authors report a myofibroblastic9' or vascular origin10. In a previous review, the most common site was the stomach, followed by the ileum11. IFPs of the colon, jejunum, duodenum and esophagus are extremely rare11. Most patients with an IFP of the small bowel presented with clinical evidence of small bowel obstruction, in most cases was due to intussusception9'. Only occasional intestinal bleeding and anemia have been reported11. The surgical outcome of this disease is good and only one case of recurrence has been reported9'. One reported case had two polyps; multiple IFPs in the intestine are extremely rare9'. IFPs have no malignant potential, and surgical resection is considered curative. It is difficult to make an accurate preoperative diagnosis. Surgical resection of the lesion for both diagnosis and treatment is required in most cases. We suggest that IFP of the small intestine should be included in the differential diagnosis of intussusception or small bowel obstruction.

REFERENCES