

# Inflammatory fibroid polyp of the small bowel causing intestinal obstruction due to intussusception – a case report

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**Abstract:** Inflammatory fibroid polyp (IFP) is an uncommon lesion of the gastrointestinal tract. This paper describes the case of 72-year-old woman with IFP. The first manifestation of IFP in this patient was intussusception. She underwent emergency surgery, had uneventful post-operative recovery, and was discharged home with asymptomatic digestive tract.

**Key words:** inflammatory fibroid polyp, intussusception

## INTRODUCTION

Small bowel tumors are rare. They make only 5% of all digestive tract tumors and 90% of them are benign. Most frequent benign neoplasms of the small bowel are adenomatous polyp, lipoma, leiomyoma and angioma [1, 2]. One of the very uncommon tumours of the small intestine is the inflammatory fibroid polyp. Its histological origin is uncertain and this kind of tumor is qualified as a non-neoplastic lesion [3].

**Case report.** A 72-year-old woman was admitted to the surgery department with suspicion of *ileus*. *Anamnesis:* colical abdominal pain increasing during the previous 2 days, with nausea associated with retention of gases. Two days previously, her defecation was normal.

Several years earlier she had been operated on and underwent partial gastrectomy because of gastric ulcer (median superior incision). Four years after the first operation she was operated on again because of gallstones, in the classical way through the same surgical approach.

On arrival at the hospital she was in a quite good general condition, with efficient circulatory and respiratory systems. She complained of a strong abdominal pain, but denied vomiting. Physical examination findings included abdomen flatulence with a diffuse tenderness, without peritoneal symptoms, with a large, non-reducible, multilocular hernia in the post-operative scar. Peristalsis was slow with single loud metallic tones. Laboratory tests were normal, except for elevated leukocytosis and hyponatremy (128,5 mEq/l). A plain radiograph of the abdomen revealed feature of ileus. An abdomen ultrasound revealed no abnormality. After correction of water and electrolyte disorders she underwent emergency surgery. The operation procedure revealed intussusception of the small intestine with a length of about 1 m, on the border of ileum and jejunum (Fig. 1). The fact that the leading edge of the intussusceptum was formed by a small bowel tumour of about 3 cm diameter, without infiltration of the serous membrane, was shown after manual reposition of the intussusception.



Figure 1 Intussusception of small bowel

Numerous enlarged lymph nodes in the whole mesentery of the small bowel were discovered. No other pathological changes were discovered within the abdominal cavity. Resection of the tumour with a part of the jejunum about 20 cm in length and 'end-to-end' anastomosis was performed. The histological specimen and several small bowel mesenteric lymph nodes were sent for pathological examination. After dissection of the lesion, a pedunculated tumor covered by the normal serous membrane was discovered (Fig. 2).



Figure 2 Pedunculated inflammatory fibroid polyp

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The patient had an uneventful postoperative recovery, and was fed orally starting from the second post-operative day. She was transferred to the cardiology department on day 5 because of symptoms of cardiac infarction. The patient was discharged home in good condition, with asymptomatic digestive tract on day 21 after surgical procedure.

The inflammatory fibroid polyp was described in the received pathology conclusion, and reactive inflammation of the small bowel mesenteric lymph nodes revealed.

## DISCUSSION

Inflammatory fibroid polyp is a very rare lesion of the digestive tract. Most common localization of this lesion is the stomach [3], but a few cases in the small bowel [4, 6], large bowel [5], duodenum [8], appendix [15] and oesophagus [11] have also been reported. This lesion was described for the first time in 1949 by Vanek and defined then as 'gastric submucosal granuloma with eosinophilic infiltration' [9]. The definition 'inflammatory fibroid polyp' was first suggested in 1953 by Ranier and Helwig, and is still used today.

Macroscopically, this lesion is pedunculated or sessile, and covered by normal or inflammatory transformed mucosa. This proliferation lesion probably originated from the submucosa, but its ultimate origin is not precise. Microscopically, it is composed of mononuclear, spindle-shaped cells forming a confused or whirl-like structures [12]. The inflammatory infiltration also contains blood vessels, eosinophils, lymphocytes, macrophages and mastocytes [13].

Symptomatology of such lesions is unspecific and is correlated with tumour size and its localization. Such a lesion in the stomach most frequently produces such symptoms as vomiting, abdominal pain, and nausea. If located in the small or large intestine, it is usually symptomless, or results in subtle ailments like loss of body mass, diarrhea, and anaemia. After reaching a large size, this kind of tumour most often causes occlusive obstruction or intussusception.

Surgical resection of the inflammatory fibroid polyp with a sufficient safety margin is a good way of treatment. There are no references about distant metastases in IFP cases available in medical literature. Only one case report, published in 1984 by Anthony et al., mentions IFP recurrence after a primary surgical resection [14].

## CONCLUSION

Despite the fact that inflammatory fibroid polyp is a very rare lesion, it should be taken into consideration during the diagnostic process in patients with unspecific abdominal disorders.

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