Pedunculated Obstructive Lipoma of the Ileocecal Valve: A Case Report

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SUMMARY
Introduction Colonic lipomas are relatively common but they rarely progress to complete acute obstruction.

Case Outline We report a case of a 67-year-old woman with acute intestinal obstruction caused by a large pedunculated lipoma of the ileocecal valve. Preoperatively, the patient presented acutely with clinical and radiographic signs of small intestine ileus. A right hemicolectomy with subsequent terminal-lateral ileocolostomy was performed. The histopathological examination revealed a benign lipoma of the ileocecal valve which telescoped into the cecum and caused ileocolonic intussusception. The postoperative course was uneventful and the patient was free of symptoms during a 12-month follow-up period.

Conclusion Since these benign tumors are frequently revealed by laparotomy and the definitive diagnosis is made on the basis of histopathological examination, we can conclude that extensive resections of the large intestine are justified in cases with acute clinical presentation.

Keywords: ileocecal lipoma; acute intestinal obstruction; colonic surgery; intussusception

INTRODUCTION
Colonic lipomas are rare benign tumors, which constitute the most common nonepithelial (mesenchymal) neoplasm of the gastrointestinal tract [1, 2]. Ileocecal valve and cecum are most affected sites, followed by the rectum, sigmoid colon and descending colon [2]. They may be sessile or pedunculated. Although the majority are small and asymptomatic (<2 cm), the larger ones appear to correlate with symptomatology, such as abdominal pain, diarrhea, obstruction and rectal bleeding [3-6]. The first report of colonic lipoma was by Bauer in 1757 [7].

CASE REPORT
A 67-year-old woman presented at the emergency room with a 3-day history of severe central abdominal pain, which was associated with nausea, vomiting, abdominal distention and complete constipation. She had a four-month history of change in bowel habits. On abdominal examination, she was found to have a distended and tender central abdomen, with tympanic percussion and silent bowel sounds, with no signs of peritonism. She had no previous abdominal operations. Rectal examination was unremarkable. Blood results were normal. Plain abdominal radiograph suggested a small intestine ileus. Since the patient did not respond to conservative therapy (tube decompression, enema) and considering the abdominal radiograph, mechanical bowel obstruction was obvious and immediate laparotomy was performed. Intraoperative findings revealed dilatation of the whole small intestine caused by a palpable tumor mass in the ileocecal region with intussusception of the small intestine. A right hemicolecotomy with subsequent terminal-lateral ileocolostomy was performed. Macroscopic examination of the resected specimen showed a pedunculated, yellowish, soft tissue tumor of the ileocecal valve measuring 5 cm in diameter which telescoped into the cecum and caused ileocolonic intussusception (Figures 1 and 2). Subsequent histopathological examination revealed that the mass was a lipoma with no evidence of malignancy (Figure 3). The postoperative course was uneventful and she was discharged on postoperative day seven. The patient was free of symptoms during a 12-month follow-up period.

DISCUSSION
Colonic lipomas represent uncommon adipose neoplasms with a reported incidence ranging between 0.15 and 4.4% [8]. It is the third most common benign tumor of the large bowel after hyperplastic and adenomatous polyps [9]. These tumors are more prevalent in women than in men with a peak incidence in the 5th and 6th decade of life [2, 8, 10]. Most such lesions (65%) have been identified in the right colon [2, 10]. In 90% they are localized at the submucous level [2]. They may be sessile or pedunculated, usually solitary, but multiple lesions are also reported in 10 to 25% of cases [11]. No cases of malignant transformation or recurrent colonic lipoma have been reported [3]. Symptoms caused by colonic lipoma correlate with the size of the tumor. The majority of them are asymptomatic <2 cm in size. The symptoms usually occur when the tumor grows over 2 cm and may cause abdominal pain, diarrhea, obstruction, or rectal bleeding [3-6]. The diagnosis is made on the basis of clinical history and radiological imaging. Histopathological examination is necessary for the definitive diagnosis ensuring that these tumors remain as benign lesions without any malignant transformation. Laparotomy should be considered in cases of acute clinical presentation and extensive resection of the large intestine is justified.
is small and asymptomatic (<2 cm), and also suitable for endoscopic removal [3, 7, 8]. Large colonic lipomas are less suitable for endoscopic treatment considering the risks of complications, such as perforation and bleeding [7], but new endoscopic techniques are being developed to minimize such possibilities [12].

The majority of patients with lesions larger than 4 cm have the following symptoms: discomfort, abdominal pain and obstruction, which are mostly caused by chronic intermittent ileocolonic or colo-colonic intussusception or rectal bleeding as the result of atrophy and ulceration of mucosa overlying the lipoma [2-6, 8, 9, 10, 13].

Patients rarely present with dramatic clinical symptomatology necessitating urgent operative treatment, such as intussusception, which can lead to complete acute obstruction or acute hemorrhage. Franc-Law et al. [13] reported that the appearance of dramatic symptoms in colonic lipomas probably depends on the size of tumors and their position in the large intestine, and that larger tumors and rarer left-sided colonic lipomas are more likely to cause acute obstruction.

For large lipomas surgical resection is recommended to relieve symptoms or exclude malignancy [1, 8, 14], with a wide range of operative techniques, such as colotomy and excision, segmental colonic resection, hemicolectomy or subtotal colectomy, including laparoscopic procedures [2, 4, 5, 6, 8-11, 14]. While colotomy with excision of the tumor and laparoscopic approaches should be considered for uncomplicated preoperatively diagnosed lipomas, more extensive operations should be performed in patients with questionable diagnosis and acute clinical symptoms [14].

Symptomatic colonic lipomas are very rare, presenting with a variety of symptoms depending on their size and position, often leading to misdiagnosis. Since these benign tumors are frequently revealed by laparotomy and the definitive diagnosis is made on the basis of histopathological examination [1], we can conclude that extensive resections of the large intestine are justified in cases with acute clinical presentation.

REFERENCES

Петељкасти опструктивни липом илеоцекалне валвуле: приказ болесника
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КРATAK САДРЖАЈ
Увод Липоми дебелог црвеве су релативно чести, међуим, ретко доводе до акутне опструкције црвеве.
Приказ болесника Приказујемо случај 67-годишњег жена с акутном опструкцијом црвеве узрокованом великим петељкастим липомом илеоцекалне валвуле. Болесница је примљена као хитан хируршки случај с клиничким и радиохемико-липском експертизом. Диагностикујемо петељкасту опструктивну валвулу како је узроковао увлачење илеума у цекум с послединчном илео-цикличком интусусцепцијом.
Закључак С азимом на то да се ови бениги тумори често откопавају током операције и да се коначна дијагноза постање тек патохиостолошким прегледом, можемо закључити да узрокова увлачење илеума у цекум с послединчном илео-цикличком интусусцепцијом.

Кључне речи: илеоцекални липом; илеоцекална валвула; опструкција црвеве; операција дебелог црвева; интусусцепција

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