Rectal Lipoma Associated with Genital Prolapse

Krishnan P, Adlekha S1, Chadha T2, Babu AK3
Departments of Surgical Gastroenterology, 1Pathology, 2Microbiology, Sree Narayana Institute of Medical Sciences, 3Dermatology and Venereology, Sunrise Hospital, Ernakulam, Kerala, India

Abstract

Lipomas are the tumors of mature lipocytes with its occurrence most often on the torso, neck, upper thighs, upper arms, and armpits, but they can occur almost anywhere in the body. They are the rare tumors of intestine, more frequently located in large intestine compared to small intestine. We present the case of a 58-year-old post-menopausal lady presenting with rectal bleeding and utero-vaginal prolapse. The prolapsing mass was excised, and histopathological examination diagnosed the lesion to be a lipoma.

Keywords: Mature adipocytes, Rectal bleeding, Rectal lipoma, Utero-vaginal prolapse

Introduction

Lipomas are rare but well-recognized tumors of intestine, being more common in cecum and ascending colon.[1] Majority of these lesions arise from sub-mucosa, and they can protrude into the lumen. Ulceration of mucosa and bleeding events are particularly common manifestations of colonic lipoma. Most of these lesions are diagnosed after resection; however, deeper endoscopic biopsies can also lead to diagnosis. Microscopically, they are composed of lobules of mature adipose tissue separated by delicate fibrous septa. Areas of necrosis and hemorrhage are seen in larger lesions.

Case Report

A 58-year-old post-menopausal woman presented with six months history of hematochezia, tenesmus, constipation, loss of appetite, and vaginal mass prolapsed. On general examination, patient was thin and pale. Abdominal examination was unremarkable. Rectal examination revealed a soft swelling in the anterior wall of rectum measuring approximately 3 x 3 cm and 6 cm above the anal verge. Speculum examination showed second-degree utero-vaginal prolapse, cystocele, and rectocele. In vaginal examination, uterus appeared to be atrophic and retroverted. There were no signs of tumor infiltration into fornices. Recto-vaginal examination showed mass in rectum/recto-vaginal septum with atrophic perineal body. Findings were confirmed by colonoscopy and contrast-enhanced CT scan [Figure 1] of the abdomen, showing a sub-mucosal rectal mass. She underwent vaginal hysterectomy with pelvic floor repair. This was followed by transrectal excision of the rectal mass [Figure 2]. The macroscopic appearance of excised mass was suggestive of lipoma. Histopathological examination confirmed the diagnosis of lipoma and revealed ulceration of the overlying rectal mucosa [Figure 3].

Discussion

Lipomas of the large intestine are relatively uncommon in clinical practice. Most of them are incidentally detected during
a routine endoscopic examination. Usual occurrence is in sixth
decade of life with an incidence of 0.2% to 4.4%. Some
authors have reported a female predominance while others
found nearly equal incidences in males and females.

The most common site of origin of lipoma in gastrointestinal
tract is cecum and ascending colon. There is no explanation
for the predilection of lipomas of the large bowel to occur in
the right side. Lipomas of the rectum are quite rare with less
than 15 cases reported in literature. In multiple case series
published, rectal lipoma was only seen in nine of 227 colorectal
lipoma cases (3.9%). Lesions are sessile or polypoidal and
are sub‑mucosal in 90% of cases and rest being located in
sub‑serosal plane. Vast majority of colonic lipoma cases
(< 2 cm in size) are asymptomatic. Colonic lipomas of size greater than 2 cm
may cause symptoms such as constipation, diarrhea, and
abdominal pain. Rectal lipomas manifest as intussusception,
ulceration leading to hemorrhage, intestinal obstruction,
prolapse, and rectal bleeding. In present case, the patient
presented with rectal bleeding and partial rectal prolapse.
Spontaneous expulsion of a sigmoid lipoma has been
reported. The prolapse of a rectal lipoma through the
anus is a rare event, and only few cases are reported in the
literature. The most important clinical impact of lipoma
is its potential to be confused with colonic malignancy
because of its similarity in symptomatology. Female
genital prolapse as seen in present case can be associated
with rectal lesions. Urinary bladder, uterus, and rectum
can lose their support and can protrude into the vagina
as prolapse. Prolapse can vary from mild, with a
feeling of vaginal discomfort; to moderate, with tissue
protruding from the vagina on straining; to severe, with
tissue permanently protruding from the vagina. Multiple
non‑surgical and surgical options are available to treat
female genital prolapse. In the present case, as the patient
is post-menopausal and with co‑existing partial rectal
prolapse, vaginal hysterectomy was carried out.

Diagnostic approaches usually include endoscopy,
contrast‑enhanced CT scan of the abdomen, and barium enema.
Endoscopic biopsies usually fail to diagnose the lesion, as the
lipomas are situated below the normal mucosa. Management
depends on the location and presentation of the lipoma. Endoscopic removal has been reported for lipomas up to a size
of 2 cm; however, larger lesions carry the risk of hemorrhage
and perforation. Surgical procedures include laparotomy
enucleation, colostomy, and excision of lipoma and segmental
colonic resection. In case of rectal lipomas, trans‑anal excision
can be done for lower third lesions. Laparoscopic procedures
can be done in selected cases.

In conclusion, rectal lipomas are very rare and often pose a
diagnostic challenge. Therapeutic options depend on the size
of the lesion and associated complications.

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