A case of colitis cystica profunda in a patient with diverticulosis

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Abstract

Objective and importance: colitis cystica profunda is an unusual benign recto-colonic condition that can closely resemble the much dreaded adenocarcinoma of the colon. It is important to establish the correct diagnosis for this condition in order to prevent added investigations, worsening morbidity and higher care cost.

Clinical presentation: we present a case of colitis cystica profunda in a man known to have diverticulosis. Persistent left lower quadrant pain was his only presentation.

Intervention: The patient underwent a colonoscopy that demonstrated two sigmoid polyp-like lesions that were removed. Histopathological exam of the 2 cm polypoid lesion confirmed mucinous sub-mucosal cysts consistent with the diagnosis of colitis cystica profunda. The second polyp was a 5 mm hyperplastic polyp.

Conclusion: while benign, colitis cystica profunda can cause diagnostic and therapeutic confusion with colon cancer. Clinching the right diagnosis can prevent unnecessary further interventions and avoid additional morbidity.

Introduction

The spectrum of colonic pathologies is extremely wide. Colon cancer however remains the top priority of most preventive and therapeutic interventions. Few benign conditions can resemble its presentation: one of them is Colitis Cystica Profunda.

Case presentation

A 67 year man presented with six-week persistent left lower quadrant pain. He is known to have hypertension, hyperlipidemia and prior removal of two diminutive polyps from the sigmoid colon six years before this presentation. One was tubular adenoma and the second was hyperplastic. He was also found to have sigmoid colon diverticulosis and internal hemorrhoids. Another colonoscopy was done as part of work up for iron deficiency anemia one year later revealed only diverticulosis and internal hemorrhoids.

The patient has been taking aspirin 81 mg daily with the rest of medications. Vital signs: Temp: 98.6 F BP: 122/71 mm Hg, Pulse: 56/mn, BMI: 30 Kg/m2. The patient is well-nourished; his physical examination is essentially unremarkable with normal auscultation and absence of abdominal tenderness or peritoneal signs. Stool for occult blood was not done at the time. With the exception of borderline hypokalemia, his laboratory investigations, including CBC and metabolic profile, were within normal range. The patient was also found to have incidental 7 mm cholelithiasis per abdominal US and a 4 mm right non-obstructive nephrolithiasis per CT scan. Because of his prior colonic history of a small adenomatous polyp and the nature of his left-sided abdominal pain which was not due to diverticulitis per CT, he underwent a colonoscopy. In addition to left sided diverticulosis, two sigmoid polypoid lesions were removed: the first one was pedunculated 2 cm in size (Figure 1). The histopathology exam detected multiple mucin filled submucosal cysts pointing to the diagnosis of colitis cystica profunda (Figure 2). The second polyp was only 5 mm in size hyperplastic in nature.

Discussion

Colitis Cystica Profunda (CCP) is a benign disease with reactive mucosal change characterized by submucosal mucus filled cysts lined by benign epithelium [1]. It is a rare colorectal condition that can closely mimic mucinous adenocarcinoma of the colon wherein lies its importance as there is no increased risk of malignancy associated with CCP. It can also manifest itself in the forms of polypoid lesions,
localised sub-mucosal cysts, diffuse colonic disease or mucosal ulcerations; the latter presentation can occasionally progress into solitary rectal ulcer syndrome [2]. Colonic adenocarcinoma associated with colitis cystica profunda was also reported [3]. CCP seems to have predilection for men and seen more in the recto-sigmoid portion of the large bowel [4]. Rarely, it can result in large bowel obstruction.

Clinical presentation varies from completely asymptomatic to more specific symptoms such as mild lower bowel pain, diarrhea, mucous discharge, and rectal bleeding. Rectorrhagia followed by abdominal discomfort are the two most prevalent symptoms according to a large single-center experience [5]. Other symptoms such as rectal prolapse were also described [6]. CCP can occasionally be associated with either Crohn’s disease or ulcerative colitis. This association is challenging because of the inherited malignancy risk with inflammatory bowel disease [7,8]. CCP probably occurs due to accumulation of the mucin from the extension of the mucosal glands in the diverticuli beyond the muscularis propria as a result of a micro-perforation of the diverticulum [9]. As with our patient, he presented with left lower abdominal pain and known history of diverticulosis.

Radiologic investigations such as abdominal magnetic resonance imaging might assist in the diagnosis. Establishing the correct diagnosis for colitis cystica profunda is more demanding. Clarifying the benign nature of CCP, by final histopathologic diagnosis, brings relief to everyone. Stressful for both patient and care givers. Bismar MM (2017) A case of colitis cystica profunda in a patient with diverticulosis

Conclusion

The initial findings of Colitis Cystica Profunda, such as rectal bleeding and visualization of large polyps can be worrisome and stressful for both patient and care givers. Clarifying the benign nature of CCP, by final histopathologic diagnosis, brings relief to everyone. Endoscopic removal usually takes care of this uncommon condition. Therefore, the need for endoscopic monitoring for patients with this condition is advised on case by case basis.

References

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