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Case Report

Successful endoscopic treatment of fecalith blocking sinus in a patient with ileal pouch-anal anastomosis



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ABSTRACT

Background: Ulcerative colitis patients who underwent restorative proctocolectomy with ileal pouch-anal anastomosis can develop various mechanical complications. Among them is presacral sinus resulting from chronic anastomotic leak.

Methods: We present a symptomatic patient with a large fecalith blocking the sinus which was successfully treated with Doppler ultrasound guided endoscopic needle knife sinusotomy along with fecalith extraction.

Results: A 67-year-old female presented with a 4-month history of perianal pain and urgency. Pouchoscopy showed a 3-cm deep wide-mouthed anastomotic sinus, the orifice of which was blocked by a large hard fecalith. Removal of the fecalith using RothNet, Tripod, or Basket were made but failed. Then needle knife was applied to cut the orifice to enlarge the opening of the sinus. One month later, the patient returned and the fecalith was successfully removed with two Baskets and two Rothnets. Six months after fecalith extraction, pouchoscopy showed a compartmentalized distal pouch sinus with two cavities, which was treated by two sessions of Doppler ultrasound guided endoscopic needle knife sinusotomy. Six months following the treatment, the sinus was completely healed. The patient tolerated all procedures well without any complication.

Conclusion: Fecalith blocking pouch anastomotic sinus is a rare complication in patients with restorative proctocolectomy. In our case, this surgical complication was successfully treated with a carefully planned, stepwise endoscopy approach.

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Tratamento endoscópico bem-sucedido de fecálito bloqueando seio em paciente com anastomose bolsa ileal-anal

R E S U M O

Palavras-chave:

Fecálito

Bisturi-agulha

Seio bursal

Colite ulcerativa

Experiência: Pacientes com colite ulcerativa tratados por proctocolectomia restauradora com anastomose bolsa ileal-anal podem ser acometidos por diversas complicações mecânicas. Entre elas, cita-se o seio pré-sacral resultante de vazamento crônico pela anastomose.

Métodos: Apresentamos uma paciente sintomática com um grande fecálito bloqueando o seio, com tratamento bem-sucedido com sinusotomia por bisturi-agulha guiado por ultrassom, juntamente com a extração do fecálito.

Resultados: Mulher, 67 anos, apresentou-se com história de 4 meses de dor perianal e urgência. A avaliação endoscópica da bolsa ileal revelou um seio anastomótico com grande abertura situada a 3 cm de profundidade, cujo orifício estava bloqueado por um grande fecálito endurecido. Foi tentada sem sucesso a remoção do fecálito com a ajuda de RothNet, Tripod, ou cestos recuperadores. Depois dessas tentativas, aplicamos um bisturi-agulha com o objetivo de seccionar o orifício com vistas à ampliação da abertura do seio. Um mês depois, a paciente retornou, e o fecálito foi removido com sucesso com dois cestos recuperadores e dois RothNets. Transcorridos seis meses após a remoção do fecálito, uma avaliação endoscópica da bolsa ileal revelou um seio distal compartimentado com duas cavidades, tratado por duas sessões de sinusotomia endoscópica por bisturi-agulha guiado por ultrassom. Seis meses depois do tratamento, o seio estava completamente curado. A paciente tolerou satisfatoriamente todos os procedimentos, sem qualquer complicação.

Conclusão: A presença de um fecálito bloqueando o seio anastomótico de bolsa ileal é complicação rara em pacientes submetidos a uma proctocolectomia restauradora. Em nosso caso, essa complicação cirúrgica foi tratada com sucesso com uma abordagem endoscópica em etapas, cuidadosamente planejada.

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Background

Restorative proctocolectomy with ileal pouch-anal anastomosis (IPAA) has been widely accepted as the surgical procedure of choice for the majority of patients with ulcerative colitis (UC) or familial adenomatous polyposis (FAP) who require colectomy. However, this procedure can cause various postoperative complications. Anastomotic leak resulting in the formation of sinus is one of the most common surgical technique-associated complications.^{1,2} On the other hand, fecal bezoar can occur in patients with ileal pouches, being often located at the pouch body.^{2,3} Here we reported on a patient with a large fecalith located at the orifice of anastomotic sinus causing severe symptoms. The fecalith and sinus were successfully treated with a stepwise endoscopic approach.

The patient

A 67-year-old female presented to our Pouch Center with a 4-month history of perianal pain and urgency in April 2012. Her past medical and surgical history was significant for having a two-stage J pouch surgery for medically refractory ulcerative colitis (UC) in 1999. Both surgery and hospitalization were uneventful.

At presentation, the patient was taken to the outpatient endoscopy suite. Informed consent was obtained. On conscious sedation, a pouchoscopy was performed with a GIF-H180 gastroscope (Olympus, Tokyo, Japan). An anastomotic sinus with a depth of 3 cm was found and the orifice was blocked by a large hard fecalith. Initially we planned to retrieve the fecalith first followed by treating the pouch sinus with ultrasound (Vascular Technology Inc. [VTI], Nashua, New Hampshire, USA) guided endoscopic needle knife (Olympus Medical Systems, Tokyo, Japan) sinusotomy at the setting of ERCP endocut (USA Incorporated Surgical Systems, Marietta, Georgia, USA). Multiple attempts using RothNet (US Endoscopy, Mentor, OH), Tripod (Endoscopy Support Service America, Brewster, NY), or endoscopic Basket (Olympus America, Melville, NY) were made to remove the fecalith, however none of them succeeded. Then we decided to use the needle knife to cut the common wall between the sinus and the pouch body to lay open the sinus tract and try to take out the fecalith in the next pouchoscopy. At the pouchoscopy, there was also a tight anastomotic stricture, which was successfully dilated using the guide wire-controlled radial expansion (CRE) balloons (Boston Scientific, Boston, MA). Multiple biopsies were taken, which were not remarkable.

One month later, the patient returned to our Pouch Center. Pouchoscopy was performed following the same protocol as the previous one. The fecalith at the sinus cavity was successfully removed with two endoscopic Baskets and two Rothnets (Fig. 1A). Since there was still mucosal scar at the septum

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