A 17-year-old man with recurrent abdominal pain for 8 years was diagnosed with Crohn’s disease (CD) with perforation. After surgery, the patient’s abdominal pain persisted despite treatment with azathioprine, adalimumab, and infliximab. Laboratory testing revealed a positive fecal occult blood test, markedly elevated fecal calprotectin (698 µg/g) and slightly elevated plasma C-reactive protein (CRP) level (8.5 mg/L). Colonoscopy showed an anastomotic ulcer and stricture. The patient was treated with an intravenous infusion of cyclophosphamide and oral thalidomide. After 6 months, his abdominal pain had disappeared and the inflammatory markers had returned to normal. Colonoscopy showed the anastomotic ulcer had disappeared but the stricture had worsened. Thalidomide therapy was maintained; however, after another 6 months, the patient again experienced abdominal pain and his inflammatory markers were significantly elevated (CRP 14 mg/L, fecal calprotectin 1376 µg/g). Computed tomographic enterography (CTE) showed the anastomotic stricture and thickened bowel wall without a fistula.

On colonoscopy, the scope could not be passed through the anastomosis and ulcers were visible again (Fig. 1). After injecting contrast agent to delineate the proximal lumen (Fig. 2), we performed endoscopic stricturotomy (Video 1) as the stricture was short and straight and accompanied by ulceration (Fig. 3a,b). We initially cut the mucosa on the opposite side from the ulcer, assumed to be the thicker part of the bowel wall, to avoid perforation. After the incision had been made, the colonoscope could be passed through the stricture into the small bowel, where an active ulcer was found (Fig. 3c).

The patient was subsequently treated with hormone therapy combined with methotrexate. Repeat colonoscopy after 6 months showed that the anastomotic stoma was significantly wider so the colonoscope could be passed through, and the ulcer on the oral side was well healed. In conclusion, anastomotic strictures without fistulas could be effectively treated by endoscopic stricturotomy in CD patients. Where strictures are accompanied by ulcers, stricturotomy may be safer than endoscopic balloon dilation [1–4].

Endoscopy_UCTN_Code_TTT_1AQ_2AF

Funding

Capital’s Funds for Health Improvement and Research
Grant No.2018-1-5091
Competing interests

The authors declare that they have no conflict of interest.

The authors

Yan Jia1*, Xianzong Ma1,2*, Yurong Tao1, Limin Zhang1, Jianqiu Sheng1,2, Bing Wu3, Peng Jin1,4

1 Department of Gastroenterology, Seventh Medical Center of Chinese PLA General Hospital, Beijing, China
2 Medical School of Chinese PLA, Beijing, China
3 Diagnostic Radiology Division, Seventh Medical Center of Chinese PLA General Hospital, Beijing, China
4 Senior Department of Gastroenterology, First Medical Center of Chinese PLA General Hospital, Beijing, China

Corresponding author

Peng Jin, MD
Department of Gastroenterology, Seventh Medical Center of Chinese PLA General Hospital, Nanmenchang 5#, Dongcheng District, Beijing 100700, China
dr_pengjin@qq.com

* Co-first authors

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Endoscopy 10.1055/a-1941-8409
ISSN 0013-726X
published online 2022
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Fig. 3  Endoscopic images showing: a incision of the anastomotic stricture; b the appearance of the anastomotic stoma after endoscopic stricturotomy; c ulceration on the oral side of anastomosis.