Through-the-scope endoscopic balloon dilatation of a nonsteroidal anti-inflammatory drug-induced diaphragm-like colonic stricture

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A 56-year-old woman with a history of sciatica, who had been taking nonsteroidal anti-inflammatory drugs (NSAIDs) for one year complained of abdominal fullness, rectal bleeding, and decreased stool caliber for the past six months. An endoscope could not be extended beyond a stenosed region within the descending colon. This narrowed area appeared suggestive of a diaphragm-like stricture and was surrounded by areas of healed colitis and fibrosis (Fig. 1). Biopsies revealed lamina propria fibrosis with eosinophilic infiltration (Fig. 1). A through-the-scope sequential balloon dilator (Fig. 2) was used to dilate the stricture (Fig. 2) and an endoscope was subsequently advanced into the cecum, which revealed no further colopathy. The patient tolerated the procedure well; she was advised to avoid NSAIDs, and upon follow up she reported resolution of her symptoms.

Colonic diaphragm-like stricture disease was first reported in 1989. An estimated 50 cases have been described in the last 10 years. Most cases were linked to long-term use of NSAIDs [1,2]. The pathophysiology of NSAID-induced colonic strictures is still not clear, but some studies attribute fibrosis to local toxic effects of NSAID preparations on mucosal integrity due to inhibition of protective prostaglandins [3]. Colonic diaphragm-like strictures should be considered in the differential diagnosis of patients presenting with malignancy-associated symptoms, who have a history of long-term NSAID use.

References