The patient was a 27-year-old woman, with a past medical history notable for 15 years of recalcitrant Crohn’s disease with severe perianal fistulas and strictures, and anemia, psoriasis, and osteoporosis. Throughout, she had been treated with glucocorticoids for flare-ups and with antibiotics, surgical drainage, and seton placement for her perianal disease. Periodic remission was maintained with immunomodulators and antitumor necrosis factor (anti-TNF) biologic therapies throughout the disease course.

In 2009 she developed an ulcerated distal rectal stricture 1 cm in length, which was successfully treated with a wire-guided balloon (CRE; Boston Scientific, Marlborough, Massachusetts, USA). She underwent laparoscopic ileocolonic resection with a diverting end-ileostomy later in the same year for severe Crohn’s disease and malnutrition, and because of failure of treatment with adalimumab and certolizumab pegol. A significant portion of the large bowel remained in situ. Her luminal Crohn’s disease went into remission post-resection, but the perianal fistulas persisted, necessitating long-term therapy with ciprofloxacin and tinidazole in addition to placement of draining setons. Her perianal fistulas eventually healed with the medical therapy and fecal diversion.

She later developed psoriasis and psoriatic arthritis, while receiving adalimumab, and was switched to etanercept. Subsequent ileoscopy via the stoma showed a normal neodistal ileum. In July 2015 she presented with a completely sealed rectal stricture (Fig. 1). It was then decided to create an access through computed tomography (CT)-guided wire placement. Using CT guidance, and with the patient under conscious sedation, an expert radiologist (J.C. V.) placed a 20-gauge Chiba needle through the stricture. Location of the needle tip in the distal rectum was confirmed by air insufflation. Then a 24-gauge modified Kopans wire (Cook Medical, Bloomington, Indiana, USA) was passed through the Chiba needle into the patent portion of the distal rectal lumen (Fig. 2). The Chiba needle was withdrawn and the wire was secured to the skin externally. The patient was transported from the radiology suite to the endoscopy suite. With the patient under conscious sedation, the gastroenterology team (B. S., C. T.N.) performed endoscopic needle-knife stricturotomy along the course of the radio-
graphically placed metal guidewire (Video 2, Video 3, Video 4), making a patent access through the 2-cm stricture (Fig. 3). We passed a gastroscope through the previously strictured region without resistance. Mild diversion colitis with mucosal edema and multiple semi-formed fecal bezoars were visualized. The large bezoars were removed endoscopically. Normal saline was administered into the defunctionalized bowel, the patient reported being able to pass soft liquid substances within 24 hours, and the whole procedure was successful.

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Competing interests: None

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