Botulinum toxin: endoscopic treatment in fecal incontinence after ileoanal anastomosis

Botulinum toxin A is used in gastroparesis treatment [1], esophagus motility disorders [2], and anal fissures [3]. Botulinum toxin A injection after proctectomy was proposed more recently by our team for treating fecal incontinence [4]. Its use in treating fecal incontinence after ileoanal anastomosis has never been studied in humans. We report the first case of ileal botulinum toxin A injections in a human after ileoanal anastomosis.

A 42-year-old woman presented with chronic non-bloody diarrhea and fecal incontinence after ileoanal anastomosis. Laparoscopic coloproctectomy with an ileal J-pouch had been performed 9 years before because of refractory ulcerative colitis. Biological tests, biopsies and endoscopic investigations were normal. Anorectal manometry was performed, and no hypercontractile reservoir was noted. Assessment of the anal sphincter was normal. Her stool diary showed a mean of 59.8 stools per week (▶ Fig. 1) on a maximum dose of loperamide and codeine. The Cleveland Clinic score was 18/20; the fecal incontinence quality of life scale was 12.7.

Ten injections of Dysport (Ipsen Limited, Slough, Berkshire, UK) botulinum toxin A (50 UI each diluted in 1 mL of saline solution) were administered through a 0.5-mm sclerotherapy needle during flexible ileoscopy, with the patient unanesthetized (▶ Video 1). The procedure took approximately 10 minutes. At month 7, a reduction of 11 stools per week was observed. At months 8, 15, and 22, new injections of 500 UI Dysport were given via the same modalities. The patient regarded clinical improvement as insufficient (▶ Fig. 1). Thus, a switch to an injection of 200 UI Botox (Allergan, Irvine, CA, USA) was decided. During the next 3 months, the patient recorded an average...
of 36.7 stools per week. The Cleveland score was 6 and fecal incontinence quality of life score was 15.8. At month 29, a new injection of 200 UI Botox was administered. Maintenance injections will be planned according to the patient's symptoms. No adverse effect was noted.

When medical treatment fails, therapeutic options for fecal incontinence after ileoanal anastomosis are scarce and mainly involve surgery and ileostomy. Here we propose a well-tolerated endoscopic approach using the same procedure as in the colon [4]. The clinical result was relevant in this case and medical treatment remained unchanged. Great care should be exercised when performing submucosal Botulinum toxin A injections to prevent endoscopic perforation and eventual abdominal wall abscess. The duration response to this injection is not well defined. In our patient, we administered an injection when clinically needed. In fecal incontinence, the median duration of response to Botulinum toxin A injection is 4.5 months and shorter in patients with a neo-reservoir than in patients with their native rectum [4].

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Competing interests

The authors declare that Guillaume Gourcerol have received research subsidies from Allergan. The remaining authors declare that no conflicts of interest exist.

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