Endoscopic sigmoidopexy with placement of a Chait catheter: a new procedure to prevent recurrent sigmoid volvulus?

An 80-year-old woman with a history of dementia and constipation was hospitalized three times within 3 years for recurrent episodes of sigmoid volvulus. As this patient was at high risk of surgical complications, a minimally invasive strategy (i.e. endoscopic sigmoidopexy), was decided after multidisciplinary discussion. In addition to previously described methods of endoscopic sigmoidopexy [1], we proposed to implant a Chait cecostomy catheter (Cook Medical, Bloomington, Indiana, USA) (► **Video 1**), as for patients treated by percutaneous endoscopic cecostomy for severe constipation [2,3].

Under sedation and after enhanced bowel preparation and antibiotic prophylaxis, a colonoscopy was performed by the first operator. On reaching the sigmoid flexure, transillumination and abdominal wall finger test in sterile conditions were used by the second operator to define the optimal site for catheter placement. Local anesthesia using ropivacaine was performed with a subcutaneous needle and confirmed the feasibility of percutaneous access under endoscopic guidance. Three anchors were then placed to fix the sigmoid to the abdominal wall (► **Fig. 1**). After making a small skin incision, a trocar needle was inserted in the center of the anchors and an 80-cm guidewire was placed through the trocar, which was then removed. Over the guidewire, three dilators 6, 8, and 10Fr were introduced consecutively allowing subsequent placement of the Chait catheter (► **Fig. 2**).

The patient was discharged the following day and returned 2 weeks later to undergo colonic antegrade enema and thus check catheter permeability. No post-operative complications occurred and the catheter tolerance was good. At 1-year follow-up, the patient had no recurrence of volvulus.

► **Fig. 1** Endoscopic view of the procedure. **a** Anchors. **b** Chait catheter.

► **Fig. 2** The patient's abdomen at 1 year follow-up.

Endoscopic sigmoidopexy with placement of a Chait catheter could be a promising method to prevent recurrence of sigmoid volvulus in patients with contraindication to surgery, as it provides not only bowel fixation but also allows on-demand colonic enemas or decompression.

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Competing interests

None

Video 1 Endoscopic sigmoidopexy with placement of a Chait catheter for recurrent sigmoid volvulus.

Bibliography

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