A 34-year-old woman presented at a primary care hospital with recurrent abdominal pain. Abdominal ultrasonography revealed a thickened terminal ileum with mesenteric wrapping and enlarged lymph nodes suggestive of Crohn’s disease. A month earlier the patient had had appendicitis with subsequent laparoscopic appendectomy. On suspicion of Crohn’s disease, the patient was started on budesonide 9mg once daily. As there was no clinical improvement after 3 weeks she was referred to our institution.

Magnetic resonance imaging revealed a spherical lesion adjacent to the ileocecal valve (Fig. 1). Transabdominal bowel sonography identified a corresponding lesion in the right lower quadrant (Fig. 2). At colonoscopy, the terminal ileum was normal, but a pseudotumor was apparent at the appendiceal orifice. The orifice was cannulated with a guidewire. Upon fluoroscopy, an appendicolith was detected in the stump of the appendix. The appendiceal orifice was dilated using a 10-mm through-the-scope balloon and the appendicolith was removed by inflation of a biliary extraction balloon (Fig. 3; Video 1). The patient was discharged without complications.

An appendicolith is formed by mineral deposits and firm feces. It may lead to obstruction of the appendix, causing appendicitis. Yet, stump appendicitis after incomplete removal of such appendicolith is extremely rare. In our patient, a 1- to 2-cm appendiceal stump with associated appendicolith remained after laparoscopic appendectomy. Extensive inflammation or a partially or completely retrocecal appendix may lead to misidentification of the base of the appendix [1].
Endoscopic imaging of the appendix has been addressed in case series [2]. When appendicitis is caused by obstruction, such as appendicolithiasis, direct visualization of the appendiceal orifice and subsequent removal with retrieval balloon (e.g., endoscopic retrograde appendicitis therapy) is a feasible therapy [3], although knowledge of variations in cecal anatomy and endoscopic landmarks is required. Nevertheless, when cannulation is feasible the natural orifice approach is a legitimate option.

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Competing interests

The authors declare that they have no conflict of interest.

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Fig. 3 a Pseudotumor was apparent at the appendiceal orifice. b Cannulation of the appendiceal orifice using a guidewire was performed. c, d Dilation of the appendiceal orifice using a 10-mm through-the-scope balloon. e, f Removal of appendicolith by balloon sweep.

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