A 75-year-old patient was admitted to our hospital for investigation of chronic anemia with a hemoglobin value of 6.6 g/dL. The patient’s medical history included a mitral valve replacement and a kidney transplant 10 years and 8 years ago, respectively. A diagnostic endoscopy was performed and sigmoid diverticulosis with signs of postinflammatory bowel-wall sclerosis was observed as the colonoscope was being advanced to the cecum. As the endoscope was being withdrawn, a large perforation was seen in the sigmoid colon (Fig. 1). The perforation had not been visible during introduction of the colonoscope, it seems most likely that it occurred during advancement of the scope to the cecum. A 14/6t over-the-scope clip (OTSC; Ovesco Endoscopy, Tübingen, Germany) was mounted on the colonoscope, which was advanced to the perforation site. The two perforation margins were easily grasped with the Twin Grasper (Ovesco Endoscopy) and were pulled into the transparent cap. Additional suction was then applied to the tissue that had been grasped within the cap before the clip was released. An endoscopic check showed satisfactory closure of the perforation but that the colonic lumen was considerably narrowed. Even using a gastroscope (10 mm in diameter), it was impossible to pass the scope beyond the narrowed section at the site of the clip. Computed tomography (CT) scanning with a contrast enema did not reveal a residual leak, but in keeping with the endoscopic appearance, there was total blockage of the flow of contrast agent at the level of the OTSC (Fig. 2). A contrast enema 2 days later showed a similar situation with clip-induced sub-total stenosis (Fig. 3). Because of the clinical signs of bowel obstruction (bowel distension, high-volume secretion via the gastric tube, and pain), the patient underwent open sigmoid resection 2 days after application of the clip.
On the resection specimen, the clip was causing a visible tissue bulge, which readily explained the mechanical bowel obstruction (Fig. 4). OTSCs are increasingly used in the treatment of acute gastrointestinal perforations and fistulas [1,2]. To the best of our knowledge, this is the first report describing a mechanical clip-induced bowel obstruction. If the perforation margins can be grasped with the Twin Grasper and satisfactorily pulled into the cap, it may not always be advisable to mobilize as much tissue as possible into the cap. Care needs to be taken applying additional suction, especially when there is underlying postinflammatory bowel-wall sclerosis or a small gastrointestinal lumen.

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