A 69-year-old woman with history of previous abdominal surgery (myomectomy and right hemicolectomy for an obstructive non-neoplastic inflammatory mass of uncertain etiology) presented with abdominal subocclusive episodes and weight loss. Blood analysis, tumor markers carcinoembryonic antigen (CEA) and CA 19.9, and abdominal computed tomography (CT) were normal. The patient underwent colonoscopy under conscious sedation and the surgical anastomosis was accessed without difficulty. No pathology was detected and no therapeutic measures were undertaken during the procedure. Two hours later, the patient had severe abdominal pain with peritonism and leukocytosis (14.5 × 10⁹/L). An abdominal film revealed pneumoperitoneum, so the surgeon proceeded with an urgent laparotomy. Multiple peritoneal adhesions were found, some of which were adherent to both small intestine loops and the sigmoid colon. The colon was intact, but on removing the adhesions between the small intestine loops, a perforation was found in the mid-ileum. The perforated segment was resected and a primary anastomosis carried out. The patient was discharged 3 weeks after the surgery.

Colonic perforation is a well-known complication of colonoscopy [1,2]. However, perforation of the small intestine is more rare. To our knowledge this is the sixth published case of this complication, with the affected segment always being the ileum (Table 1).

In two of the cases, polypectomy was carried out, during which electric current may have been transmitted to a small intestine loop adjacent to the colon, perforating it [3,4]. In another case the perforation occurred 7 days after the colonoscopy in an ileal segment already affected by chronic ischemia [5]. In the remaining two cases published previously, the perforation occurred after nontherapeutic colonoscopy in patients with major post-surgical adhesions [6,7], a situation similar to our case. The perforation may be the consequence of a tear caused by traction forces transmitted from the sigmoid colon to the adhesions between the small intestine loops when the colonoscope is introduced. This infrequent complication should be kept in mind in patients with previous open abdominal surgery.