CASE REPORT

A 55 year-old patient was attended at our institution due to epigastric pain. She had suffered an appendectomy in her childhood and an endometrial carcinoma treated with surgery and radiotherapy 10 years ago. She had been attended at emergency room on several occasions for nausea, bilious vomiting, and abdominal pain. No abnormalities were seen either on her analyses or in her abdominal X-ray. Along these years (2008-2011), two upper gastrointestinal endoscopies, one colonoscopy with ileoscopy, an abdominal CT scan, a nuclear magnetic cholangioresonance and a small bowel barium enema were performed, which yielded no pathological findings. Only abdominal CT scan finally identified thickened bowel loops and free fluid suggesting radiation enteritis. So, wireless capsule endoscopy was indicated. This study showed angiectasias, severe villous edema and diffuse lymphangiectasias with mucosal denudation (Fig. 1). There were at least 3 strictures in the proximal small bowel (Fig. 2 A and B). The capsule remained stationary for almost two hours in one of them. After 7 hours recording, it had not reach the cecum, but it was retrieved 24 hours later spontaneously. Chronic radiation enteritis was diagnosed on the basis of the clinical and capsule findings. We added pentoxifylline and decided to follow up. Surgery will be indicated if symptoms become severe or more frequent.

Radiation enteritis diagnosed by wireless capsule endoscopy

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Fig. 1.

Fig. 2.
DISCUSSION

Wireless capsule endoscopy provides the examination of the small intestine (1). It has better sensitivity than barium enema, is better tolerated and less time-consuming than push enteroscopy. The diagnosis of chronic radiation enteritidis requires a great suspicion. The incidence is increasing as more patients undergo radiotherapy for cancer treatment (2). An immunological imbalance probably plays a role in the pathological changes (3). Strictures are common and difficult to diagnosis by means of barium meal, CT scan or enteroclysis (4). Corticosteroids, pentoxifylline and probiotics are among the medical treatments (5); balloon dilatation can be performed if the strictures are accessible to endoscopy; surgery is the last option.

REFERENCES