Small-bowel obstruction secondary to wireless capsule enteroscopy: extraction of the capsule without enterotomy

A 46-year-old woman was admitted with a 3-month history of gastrointestinal bleeding of unknown origin. She had had a right hemicolectomy and terminal ileum resection because of severe gastrointestinal bleeding 10 years previously, when the histopathological diagnosis was Crohn’s disease. No pathological findings were detected in a small-bowel series or on gastroscopic and colonoscopic examination, and so capsule enteroscopy was performed. Three days later she had to undergo surgery because she had developed signs of small-bowel obstruction. Plain abdominal radiography demonstrated the capsule in the right lower quadrant (Fig. 1), and the exact location of the capsule was determined by intraoperative fluoroscopy (Fig. 2). The adhesions that were causing capsule impaction and intestinal obstruction were dissected (Fig. 3). The capsule was swept through the colon to the rectum by manipulation and extracted by digital rectal examination peroperatively. The patient was discharged 3 days after surgery and she experienced no further problems.

To our knowledge, this is the first case of capsule extraction without enterotomy or intestinal resection in a patient who had a history of both previous abdominal surgery and Crohn’s disease. The overall incidence of capsule retention is 0.75%, but this figure reaches 21% in patients with known stenosis [3, 4]. Fewer than 1% of patients with capsule retention require surgery [5]. Any procedure has both limitations and potential complications, and capsule enteroscopy is no exception. Before performing capsule enteroscopy in a patient who has risk factors for capsule retention or intestinal obstruction, the patient should be made fully aware of the potential need for surgery. Wireless capsule enteroscopy should not be performed in patients who are unwilling to undergo surgery or in patients who are unfit for surgery.

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Fig. 1 Plain abdominal radiograph showing the capsule in the right lower quadrant of the abdomen.

Fig. 2 Fluoroscopic view of the capsule.

Fig. 3 At surgery the impacted wireless capsule was identified as the cause of the small-bowel obstruction.
References

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Bibliography

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