

A 67-year-old woman underwent stent insertion (Wallstent 22 mm diameter, 6 cm long, Schneider, Bulach, Switzerland) for obstructing, metastatic, sigmoid colon cancer. Although abdominal decompression was achieved, the stent migrated to the rectum on the second day. After retrieval of the displaced stent using manual traction and gentle anal dilation without anaesthesia, another stent (Memotherm 30 mm diameter, 10 mm long, Bard, Karlsruhe, Germany) was inserted.

At 5 months later, the patient spontaneously passed part of the second stent and subsequently developed tenesmus and rectal bleeding. Flexible sigmoidoscopy and abdominal radiography showed stent fracture, with the distal portion hanging down into the rectum. (Figures 1,2). With the patient under general anaesthesia, the fractured segment of the stent was retrieved using biopsy forceps through a rigid sigmoidoscope. Further abdominal radiography showed that approximately 40% of the stent remained in situ across the tumour, achieving luminal patency. The patient has since remained well (followed-up for 3 months).

Colonic stent migration can occur in 3–22% of cases [1–3]. Stenosis from extrinsic compression and laser pretreatment or chemotherapy may be factors precipitating stent migration [3,4]. The relatively small diameter of the Wallstent may also be contributory, especially in the distal colon.

In contrast, colonic stent fracture appears to be a rare complication having been reported in only three cases [5]. Constant compressive force within a fibrotic benign stricture and shearing forces from acute stent angulation have been proposed as the main reasons for fracture. Colonic peristalsis in conjunction with stool impaction may also play a part.

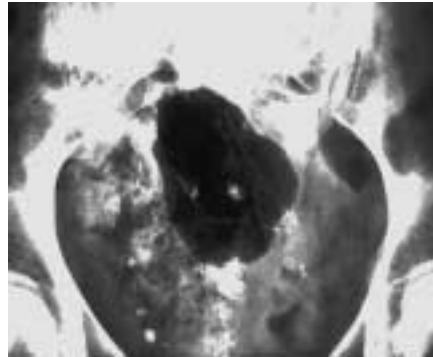


Figure 1 Abdominal radiography demonstrating stent fracture at the rectosigmoid junction (anteroposterior view).

Because of the steady increase in the use of colonic stents [1], clinicians should be aware of complications related to stent insertion. In the future, endoscopic removal of fractured stent pieces might be facilitated by use of wire cutters through the flexible sigmoidoscope in conjunction with an atraumatic overtube, avoiding general anaesthesia.

**N. Suzuki<sup>1</sup>, B. P. Saunders<sup>1</sup>,  
S. Thomas-Gibson<sup>1</sup>, M. Marshall<sup>2</sup>,  
S. Halligan<sup>2</sup>, J. M. A. Northover<sup>3</sup>**

<sup>1</sup> Wolfson Unit for Endoscopy, St Mark's Hospital, Harrow, Middlesex, UK

<sup>2</sup> Department of Intestinal Imaging, St Mark's Hospital, Harrow, Middlesex, UK

<sup>3</sup> Department of Surgery, St Mark's Hospital, Harrow, Middlesex, UK.

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Figure 2 The distal part of the stent has fractured, but the proximal part remains in place across the tumour (lateral view).

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### Corresponding Author

**B. P. Saunders, M.D.**

Wolfson Unit for Endoscopy  
St Mark's Hospital  
Watford Road  
Harrow  
Middlesex HA1 3UJ  
UK  
Fax: +44-20-84233588  
E-mail: b.saunders@ic.ac.uk