Endoscopic insertion of esophageal self-expandable antireflux metal stents is a widely used procedure. The implantation is usually regarded as safe, with a low rate of complications. Here we report two cases of spontaneous fracture of Hanaro (M. I. Tech Co., Ltd., Seoul, South Korea) antireflux stents.

A 69-year-old patient with metastasized stenosing Barrett’s carcinoma received a Hanaro stent (ref HEV-18-160-070; lot no. 07061422) at the University Hospital of Leipzig in August 2007. In January 2008, upper gastrointestinal endoscopy revealed complete fracture of the distal third of the stent and dislocation of the distal part of the stent into the antrum, which had caused a prepyloric ulcer (Fig. 1). Both fragments of the stent were removed immediately by endoscopy (Fig. 2). Eight days later, a replacement stent (ref HEVT-22-120-070; lot no. 07081314) was implanted without further complications.

A similar stent (ref 1-ECF-22120-Z070; lot no. 08021228) was implanted in a 72-year-old patient with metastasized distal esophageal carcinoma at St Mary’s Hospital, Berlin, in May 2008. Peritrast swallow showed regular placement of the stent (Fig. 3). Two months later, a contrast-enhanced computed tomography (CT) scan was taken at the University Hospital Charité, Campus Benjamin Franklin, Berlin. The scan showed an incomplete fracture in the proximal third of the stent (Fig. 4). Both fragments of the stent were removed immediately by endoscopy.

Fracture of an esophageal stent is a rare event. A Medline search revealed only five reports of six patients. The authors of these reports suggested that the fractures were caused by thermal overstrain induced by laser application [1] or defective material [1,2], or that they were spontaneous [3–5]. All the stents used in the above reports were self-expandable metal stents without an antireflux valve and were constructed from different materials (mostly nitinol) and obtained from different companies. To our knowledge, we report the first two incidents of frac-
tured antireflux esophageal stents. We recommend including stent fracture as potential complication in patient consent forms.

References
2 Grimley CE, Bowling TE. Esophageal metallic stent dysfunction: first reported case of stent fracture and separation. Endoscopy 1999; 31: S45
4 Chhetri SK, Selinger CP, Greer S. Fracture of an esophageal stent: a rare but significant complication. Endoscopy 2008; 40 (Suppl 2): E199

Bibliography
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Fig. 4 Three-dimensional computed tomography (CT) reconstruction of the proximally fractured stent.