Foreign body ingestion presents a common clinical problem facing gastroenterologists and surgeons. Most foreign bodies pass spontaneously but long objects in the range of 6–10 cm in length are less likely to pass the duodenal curve and often require removal from the stomach [1]. Endoscopic retrieval is challenging due to difficulties in orienting the object parallel to the esophagus in a secure fashion in order to facilitate removal through the lower esophageal sphincter (LES). We present a simple technique that avoided laparotomy in a patient presenting with a large retained gastric foreign body.

A 20-year-old female presented after intentionally swallowing a long metallic serving spoon. A plain film of the abdomen confirmed the presence of an 18-cm spoon within the stomach (Fig. 1). A replica of the object was obtained and a dry run performed ex-vivo. With a standard gastroscope, snaring the spoon flush against the tip positioned the object perpendicular to the scope in a “T” orientation (Fig. 2), making removal through the LES extremely challenging.

Snaring the spoon with a duodenoscope with the elevator fully raised oriented the object parallel to the long axis of the scope, in appropriate alignment for removal (Fig. 2). Endoscopic guidewire extraction was performed, revealing a large metal spoon within the stomach (Fig. 3). The gastroscope was exchanged for a duodenoscope and a snare was placed over the shaft of the spoon. Tension at the LES tightened the snare against the tapered body of the spoon, securing the object for retrieval. Using fluoroscopic guidance (Figs. 4 and 5) and direct visualization, the scope was slowly withdrawn from the stomach.

The narrow end of the spoon entered the esophagus flush with the duodenoscope, and the remainder of the spoon followed (Fig. 6).

Although 80%–90% of ingested foreign bodies pass spontaneously through the gastrointestinal tract, 10%–20% require endoscopic intervention and approximately 1% need surgical exploration and extraction [1]. Long foreign bodies pose a particular challenge due to difficulties in orienting and securing the object within the stomach. Several techniques have described the removal of long foreign bodies through the use of multiple snares, two simultaneous endoscopes, and balloon-tipped scopes [2–6]. We present a simplified technique using a side-viewing endoscope and one snare. This approach has never been described in the English literature. We believe that this is a safe and effective method that uses broadly available equipment, and should be considered by the skilled endoscopist in the right setting.

Competing interests: None
I. I. El Hajj, B. W. Clarke, A. Slivka
University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, USA

References
6 Beldholm BR, Lee AU. Simple endoscopic technique for retrieving a long foreign body from the stomach. ANZ J Surg 2007; 77: 560–561

Bibliography
Endoscopy 2011; 43: E107–E108
© Georg Thieme Verlag KG Stuttgart · New York · ISSN 0013-726X

Corresponding author
B. Clarke, MD
Department of Gastroenterology
University of Pittsburgh Medical Center
PUH, M2, C Wing
200 Lothrop St
Pittsburgh, PA 15213
USA
Fax: +1-412-648-9378
clarkebw@upmc.edu