Intramural gastric abscess following laparoscopic paraesophageal hernia repair

A 46-year-old woman underwent laparoscopic paraesophageal hernia repair for an intrathoracic stomach (Fig. 1). After the surgery, she was discharged from the hospital in good condition, but 24 days later, she re-presented with progressive nausea, vomiting, and persistent globus sensation. Physical examination revealed mild tenderness in the left upper quadrant. Laboratory findings included a leukocytosis, mild electrolyte abnormalities, and a low serum albumin level.

She was admitted to the hospital and given parenteral nutrition. Abdominal computed tomography (CT) was performed, which revealed multiple small fluid collections in the upper abdomen, fat stranding near the proximal stomach, and a prominent proximal gastric wall (Fig. 2). Endoscopy was performed and a draining fundal abscess was discovered and aspirated (Fig. 3). Antibiotic therapy was initiated. Subsequently, the patient’s symptoms and leukocytosis resolved. She was discharged from the hospital in improved condition.

Laparoscopic paraesophageal hernia repair is safe, associated with low recurrence rates, and provides excellent long-term symptomatic relief. However, complications occur in up to 10% of patients [1]. Esophageal or gastric perforation, gastric volvulus, aortic or cardiac injury, mediastinal abscess, anatomic recurrence, and erosion of the mesh cruroplasty into the esophagus or stomach have all been reported [1–5].

We present here the first reported case of an intramural gastric abscess after laparoscopic paraesophageal hernia repair. Spontaneous gastric abscesses have been described previously. Considered rare and idiopathic, the diagnosis was in the past made at laparotomy and surgical therapy was advocated; however, this paradigm is evolving. Diagnosis is now possible by CT [6,7], and successful endoscopic ultrasound (EUS) evaluation and drainage have been described [7–9]. The signs and symptoms of this disease process are insidious. In this case, the findings even on advanced imaging studies were insufficient to make the diagnosis. We suggest that early endoscopy be considered when new or recurrent symptoms develop after laparoscopic paraesophageal hernia repair. Endoscopic drainage may then be therapeutic, obviating the need for reoperation.

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Competing interests: None

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Fig. 3  Endoscopic views showing:
a a draining abscess in the fundus of the stomach; b the abscess being aspirated endoscopically; c the area of lesion after aspiration.