Emergency endoscopic reduction of a gastric volvulus

An 86-year-old man presented with a 3-day history of abdominal distension, epigastric pain, and vomiting. Computed tomography showed gastric distension, with part of the gastric body herniating into the thoracic cavity, and a paraesophageal hernia. These findings were consistent with a mesenteroaxial gastric volvulus (\textit{Figure 1}). The patient was significantly dehydrated and further tests revealed that he had renal failure, metabolic acidosis, and cardiac arrhythmias. Immediate surgical intervention was considered to be an extremely high-risk option, so the volvulus was reduced endoscopically.

After insertion of the endoscope and gentle air insufflation, the volvulus was reduced, revealing erythematous mucosa with multiple ischemic-appearing ulcers throughout the gastric body (\textit{Figure 2}). Reduction of the volvulus was confirmed by abdominal radiography, and the patient’s hemodynamic status improved with supportive measures. One week after this endoscopic reduction the gastric volvulus recurred. However, the intervening week had allowed time for the patient to stabilize and he presented a lower surgical risk. He underwent successful reduction of the hernia, gastropexy, and a Nissen fundoplication.

Gastric volvulus is a rotation of the stomach that results in a closed-loop obstruction [1]. This can present with either acute or chronic symptoms, depending on the degree of obstruction [2]. In adults it is usually associated with a paraesophageal hernia [3]. Gastric volvulus can be described according to its location relative to the diaphragm and its axis of rotation as either “organoaxial” or “mesenteroaxial” [4]. Without prompt treatment, the incidence of ischemic necrosis in an acute volvulus is significant, resulting in a mortality of 30%–50% [2]. Endoscopy in our patient demonstrated ischemic ulcers, emphasizing the severity of his presentation. The treatment of choice is surgical reduction, either open or laparoscopic [5]. However, in the emergency setting, the mortality associated with surgery can be high and endoscopic reduction should be considered to allow time for the patient to be adequately resuscitated.

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