Successful treatment of acute gastric volvulus by emergency endoscopic reduction in a patient with cerebral palsy

A 25-year-old man with mixed dystonic/spastic cerebral palsy was admitted to our emergency department with a 12-hour history of severe abdominal pain, abdominal distension, and retching. His medical history was otherwise unremarkable. Physical examination revealed a distended, tympanic mass in the left upper quadrant and epigastric region. The results of laboratory investigations were unremarkable.

An immediate surgical operation was considered but a palliative approach was agreed on with the man’s parents because of the high risk of surgery. Therefore, an upper gastrointestinal endoscopy was performed, which revealed a normal-looking esophagus and a distended stomach that was filled with gastric secretions (Fig. 3). After aspiration of over 3L of fluid, we saw a peculiar gastric anatomy resembling cascade stomach. It was not possible initially to pass the endoscope through the pylorus. With various endoscopic maneuvers, such as clockwise rotation and pulling back of the endoscope to the proximal stomach using a J-type maneuver, we succeeded in passing the endoscope through the pylorus into the duodenum. The patient’s symptoms were relieved and his subsequent course was uneventful. We confirmed resolution of the gastric volvulus with a further abdominal radiograph (Fig. 4).

Acute gastric volvulus is a rare acute surgical emergency that involves abnormal rotation of the stomach along one of its axes by more than 180° [1]. Gastric volvulus can be classified into either organo-axial or mesentero-axial types. Most of the reported cases are secondary to paraesophageal hernias or a diaphragmatic defect, and primary mesentero-axial volvulus is rare.

In our patient, cerebral palsy and related postural deformity may have caused imbalance of the normal tensions between the ligamentous attachments of the stomach, resulting in a mesentero-axial gastric volvulus. In the emergency setting, the option of endoscopic decompression and reduction should be kept in mind in order to reduce the morbidity and mortality that is associated with emergency surgery [2].

Competing interests: None
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References

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