Retrograde jejunogastric intussusception caused by a migrated gastrostomy tube



Fig. 1 Transverse computed tomographic image (without intravenous contrast) showing the jejunogastric intussusception, with invagination of mesenteric fat (arrow) following the intussusceptum (Im) into the intussuscipiens (Ins).

Fig. 2 A slightly

tomographic image

than that shown in

more caudal computed

Fig. 1. The intussus-

ceptum can be seen faintly, more cranially.

The edge of the intus-

susception (arrows) is

contrasted with the

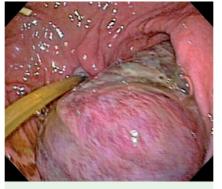
oral contrast in the

stomach. Note the

gastrostomy balloon



Fig. 3 Endoscopic view from the proximal stomach, showing a gastrostomy tube coiled up within the body. Note the distance between the entry site and the balloon. A large purple mass of intussuscepted bowel is seen extending from the antrum.



(**b**).

Fig. 4 Endoscopic view of a dusky mass of intussuscepted bowel emanating from the antrum.

A 43-year-old woman presented to our hospital with emesis and coffee-ground output from the gastrostomy tube that she had had placed by interventional radiology 1 year before. On arrival, her heart rate was 140 beats per minute and her systolic blood pressure was 50 mm Hg. Laboratory testing showed her white blood cell count to be 30×10^9 / L and her lactate was 3.8 mmol/L. A gastrostomy was in place, without any external fixation device. Computed tomography showed a mass containing small bowel, which was thought to be a jejunogastric intussusception (**S Fig. 1, 2**). Upper endoscopy revealed the gastrostomy, with its balloon inflated, approximately 10 cm from the gastric entry site (**>** Fig. 3), and a large, purple, friable mass emanating from the pylorus (**Fig. 4**, **5**). Because the intussusception could not be reduced endoscopically, an emergency laparotomy was performed and a retrograde jejunogastric intussusception with ischemia was found. The bowel was dusky but was not perforated (**Fig. 6**). We resected 20 cm of jejunum and pathological examination revealed hemorrhagic coagulative necrosis and acute inflammation. The patient made an uncomplicated recovery postoperatively. Gastrostomy tubes have been associated with rare complications such as bleeding, infection, peritonitis, and migration through the gastric wall [1]. Jejunogastric intussusception, first described by Bozzi in 1914 [2], is a rare complication of gastroenterostomy, and around 200 cases have been reported worldwide [3]. Only a few cases have been reported following the placement of percutaneous gastrostomy tubes [3,4]. Presenting symptoms are mainly obstructive, with epigastric pain and nausea with emesis [3]. The pathogenesis of jejunogastric intussusception associated with feeding tubes is incompletely understood. Some have suggested that the inflated balloon migrates into the small bowel, and that tube repositioning without balloon deflation intussuscepts the small bowel into the stomach [5]. In this case, the emergency department notes indicated that nursing staff had pulled on the gastrostomy after the emesis began without first deflating the balloon. Although rare, jejunogastric intussusception should be considered in patients with feeding tubes who present with gastrointestinal bleeding or obstruction.



Fig. 5 A close-up endoscopic view of the friable, dusky, intussuscepted small bowel, which is covered with gelatinous exudate.

Acknowledgment

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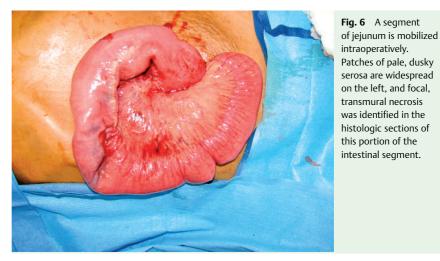
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