Gastric outlet obstruction secondary to percutaneous endoscopic gastrostomy tube placement

We report a complication of percutaneous endoscopic gastrostomy (PEG) insertion in a 60-year-old woman with an end-stage neurodegenerative disorder. The first attempt at PEG tube insertion was abandoned due to failure to transilluminate the stomach because of a large hiatus hernia, but a second attempt using a combined fluoroscopic and endoscopic approach was successful. Gastrostomy feeding was commenced 24 hours later following satisfactory postprocedural monitoring. At 48 hours, our patient developed generalized abdominal pain associated with vomiting and fever. Clinical diagnoses of gastrostomy site leakage, gastroparesis, and aspiration pneumonia were made. Subsequent computed tomography (CT) of the abdomen demonstrated the gastrostomy tube traversing the left anterior abdominal wall, “through and through” the gastric antrum, to enter the stomach wall again high on the lesser curvature of the stomach (Fig. 1, Fig. 2, Fig. 3). This transfixed the distal stomach, causing obstruction of the gastric outlet. Attempts to further assess the gastrostomy tube position by esophagogastroduodenoscopy failed. The patient’s hemoglobin dropped to 5 g/dL, presumably due to the large volume of blood-stained fluid found in the stomach.

After consideration of the patient’s comorbidities we adopted a conservative management involving insertion of a fluoroscopically guided nasojejunal tube for feeding and regular aspiration of the gastrostomy tube for stomach decompresion. The long-term plan was to allow the tract to mature and become a controlled gastrocutaneous fistula as described by Milanchi and Wilson [1]. Despite blood transfusions, antibiotics and chest physiotherapy, and nutritional support, our patient died 7 days later.

Complications after radiologically inserted gastrostomy are more common than after PEG. In this hybrid procedure, a rolling hiatus hernia caused the antrum to get in the way of the needle/PEG tract. CT rather than fluoroscopic guidance might have avoided the complication [3]. Duodenoscopy at the time of PEG tube insertion would have allowed early diagnosis of the impending gastric outlet obstruction.

Endoscopy_UCTN_Code_CPL_1AH_2AI

Competing interests: None

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Fig. 3  Course of the PEG tube.

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DOI http://dx.doi.org/10.1055/s-0032-1309712
Endoscopy 2012; 44: E269–E270
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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