Recurrent Early Buried Bumper syndrome in context of Paraesophageal Hernia

INTRODUCTION:

- Alternatives to endoscopic gastrostomy tube placement include surgical or radiographically placed gastrostomy tubes individual anatomic and clinical circumstances.
- Buried Bumper Syndrome (BBS), is a well known late complication of PEG tube placement and occurs due to the tight apposition of the external bolster against the abdominal wall creating traction on the internal bolster, resulting in gastric erosion.
- Incidence of BBS is estimated to be about 0.3%-2.4% and can recur multiple times even after correction.

CASE REPORT:

We report a case of an 83 year old man with a history of Pallister Killian Syndrome, hypertension, aortic stenosis, atrial fibrillation, and asthma. He presented to the emergency department for the evaluation of a dislodged PEG tube and peristomal cellulitis 4 weeks after PEG tube placement. An abdominal CT scan revealed evidence of BBS with a large hiatal hernia associated with partial intrathoracic stomach without evidence of gastric volvulus. After resolution of peristomal cellulitis, a new PEG tube was placed. On post procedure day 2, the patient began to develop progressive abdominal distension and pain. A repeat abdominal CT scan demonstrated recurrent BBS. A fluoroscopic tube study showed immediate intra-abdominal extravasation of contrast. The patient then underwent laparoscopic hiatal hernia reduction with anterior gastropexy and surgical jejunostomy placement.

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 Early BBS has been reported in patients on chemotherapy or with pre-procedural cachexia. It is likely that chemotherapeutic destruction of mucosal tissue and poor wound healing may accelerate gastric erosion leading to early BBS.

• PEG placement has long been thought of as a means to prevent paraesophageal hernias. The fixation of the stomach at the greater curvature should prevent proximal movement of the gastrointestinal tract at the level of the diaphragm.

• As seen in our case, it is possible that continued cephalad movement of the large hernia may have placed significant traction on the internal bumper resulting in recurrent early BBS.

• We hypothesize that large paraesophageal hernia may be a risk factor for early BBS and gastropexy should be considered during initial PEG placement.