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BACKGROUND

- Bariatric surgery has transitioned from open to a laparoscopic procedure
- Laparoscopic gastric banding was favored when it was first introduced in 1993
- It is minimally invasive, effective, and reversible
- An inflatable band is placed below the gastroesophageal junction to create a smaller gastric pouch
- High complication rates of up to 40%

CASE

- HPI 62 year old female with a laparoscopic gastric band placed ten years ago presented with dark stools
- Endorsed melena, upper abdominal pain, and three episodes of hematemesis
- Also had lightheadedness and heart burn
- No family hx of cancer, not on medications
- Physical Exam vitals showed mild tachycardia, orthostasis, and melena on digital rectal exam without fissures or hemorrhoids
- Labs significant for Hgb of 8.3 g/dL (at baseline)

EGD:

• Esophageal ulcers, esophagitis, a Mallory Weiss tear, hiatal hernia, chronic gastritis and gastric band eroded two-thirds into lumen with the remainder in cardia wall attached by fibrous tissue, without bleeding

Gastric Band Erosion – A Dangerous Complication with a Unique **Endoscopic Method of Retrieval**

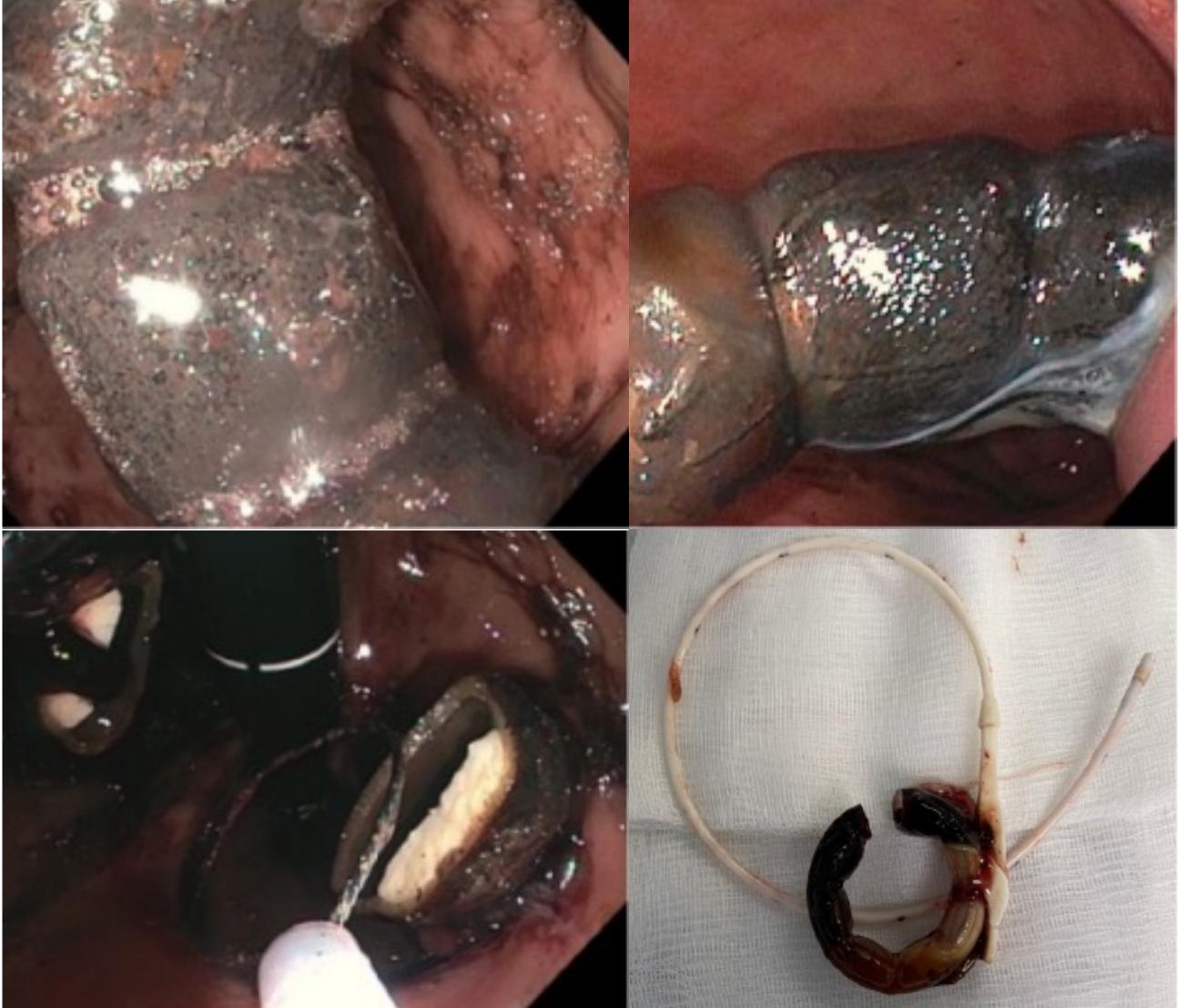
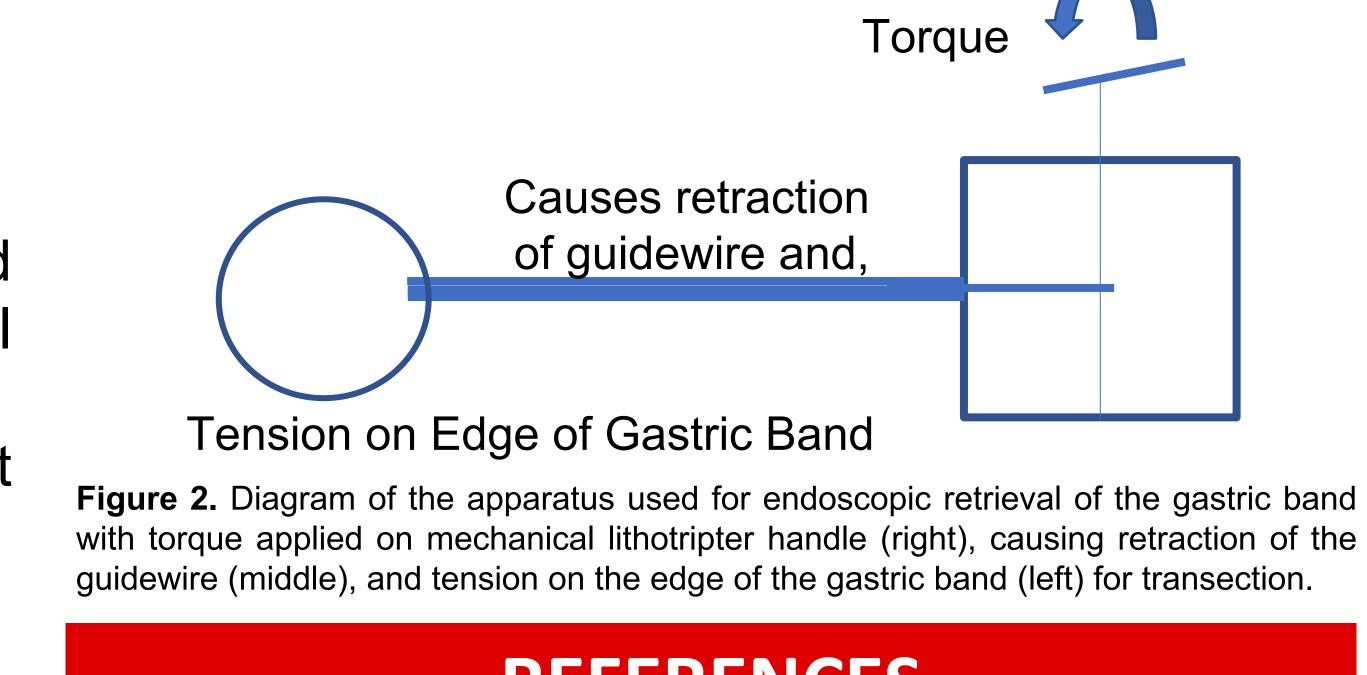


Figure 1. Top Left – Gastric band in gastric lumen; Top Right – Gastric band attached to cardia wall by fibrous tissue; Bottom Left – Severed gastric band; Bottom Right – Gastric band after removal



REFERENCES

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Removal:

•Guide wire was inserted via endoscope to traverse the gastric band

CASE

- •Snare used to grab both ends of guidewire
- •Lithotripter metal sheath inserted into endoscope's biopsy channel and ends of guidewire were inserted into sheath
- •Sheath was cut to accommodate the guide which was then attached to the wire emergency lithotripter handle
- •Torque applied on to the handle until the band was severed
- •Band removed with snare without signs of bleeding or perforation

DISCUSSION

- Gastric banding rates declined from 42% in 2008 to 6% in 2015
- Complications: erosions (28%), port tubing disconnection (20%), band slippage (4-13%), gastric perforation (0.1-0.8%)
- Erosions can cause nausea, abdominal pain, hematemesis, melena, or hematochezia
- Mechanisms: chronic ischemia on gastric wall, or foreign body rejection causing fibrous tissue formation or mural erosion
- Our patient had esophagitis and a Mallory Weiss tear from her vomiting, and from irritation of the mucosa by the gastric band
- In conclusion, gastric band erosions can be dangerous and retrieval can be done endoscopically

