

Robotic Take Down Of Nissen Fundoplication To RYGBP

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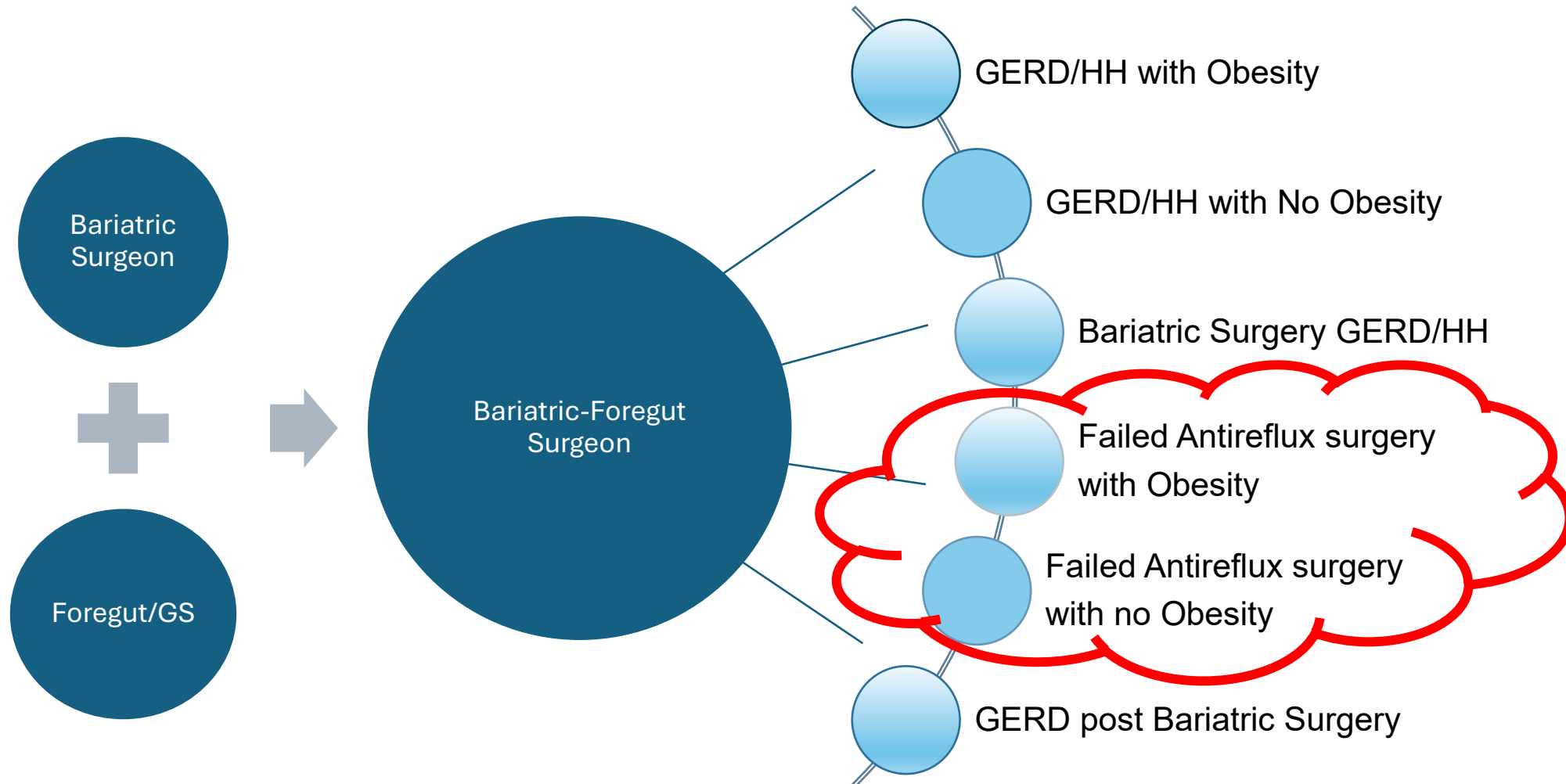
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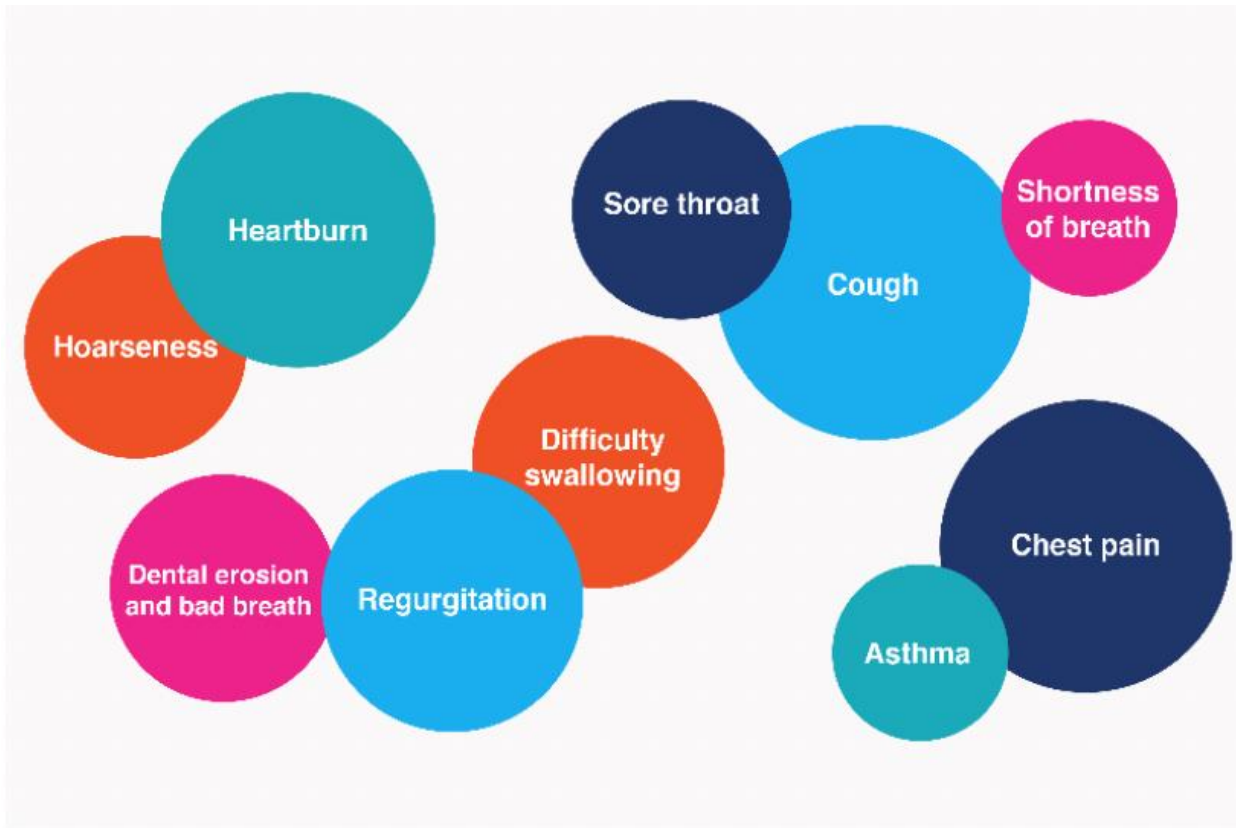
Financial Disclosures

- Intuitive Surgical – Speaker/Proctor
- WL GORE – Speaker

BARIATRIC-FOREGUT SURGERY



INDICATION FOR EVALUATION



If primary symptoms heartburn/regurgitation (42%)

- *Objective evidence of GERD required*
- Abnormal pH study
- Esophageal damage (esophagitis, Barrett's, strictures)
- Hiatal hernia

Patients presenting with dysphagia (17%)

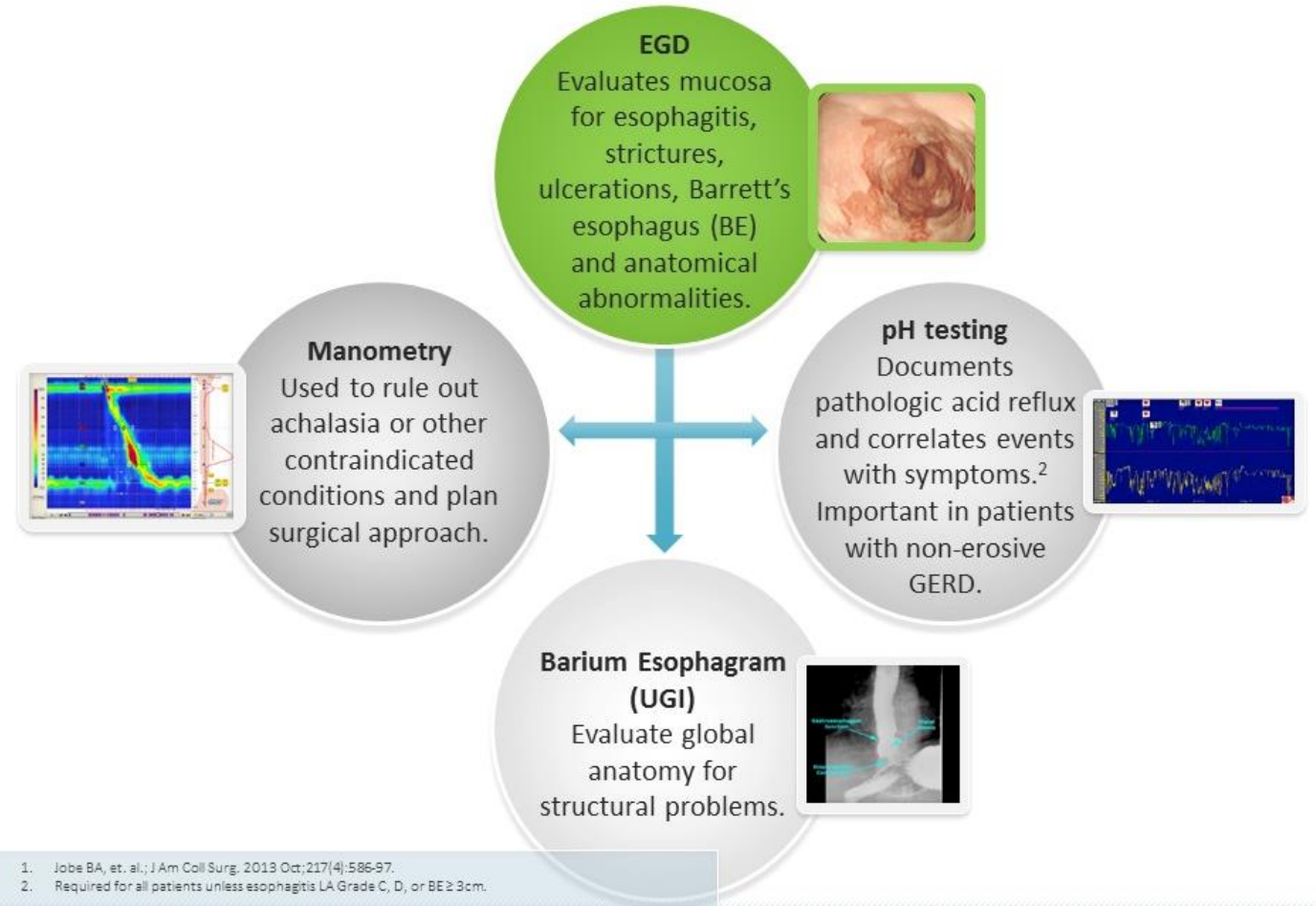
- *Rule out hiatal hernia, dysmotility, GERD complications, previous surgeries*

Heartburn/regurgitation + dysphagia (4%)

Patients presenting with hiatal hernia

- *Symptomatic vs asymptomatic*

ESTABLISHING THE DIAGNOSIS



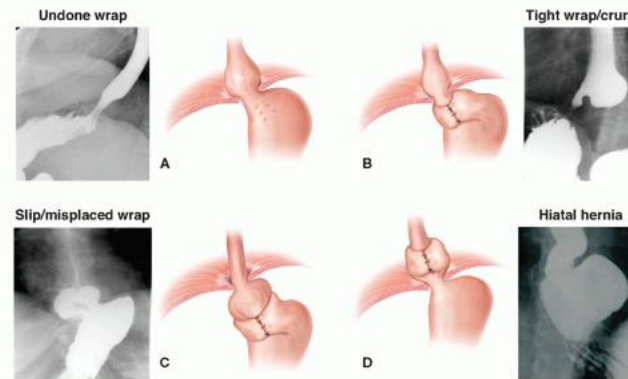
SYMPTOM CORRELATION WITH PATTERN OF FAILURE

Undone wrap

Heartburn
Chest pain
Regurgitation
Dysphagia
Nausea
Bloating
SOB
Aspiration

Slip/misplaced wrap

Heartburn
Chest pain
Regurgitation
Dysphagia
Nausea
Bloating
SOB
Aspiration



Tight wrap/crura

Heartburn
Chest pain
Regurgitation
Dysphagia
Nausea
Bloating
SOB
Aspiration

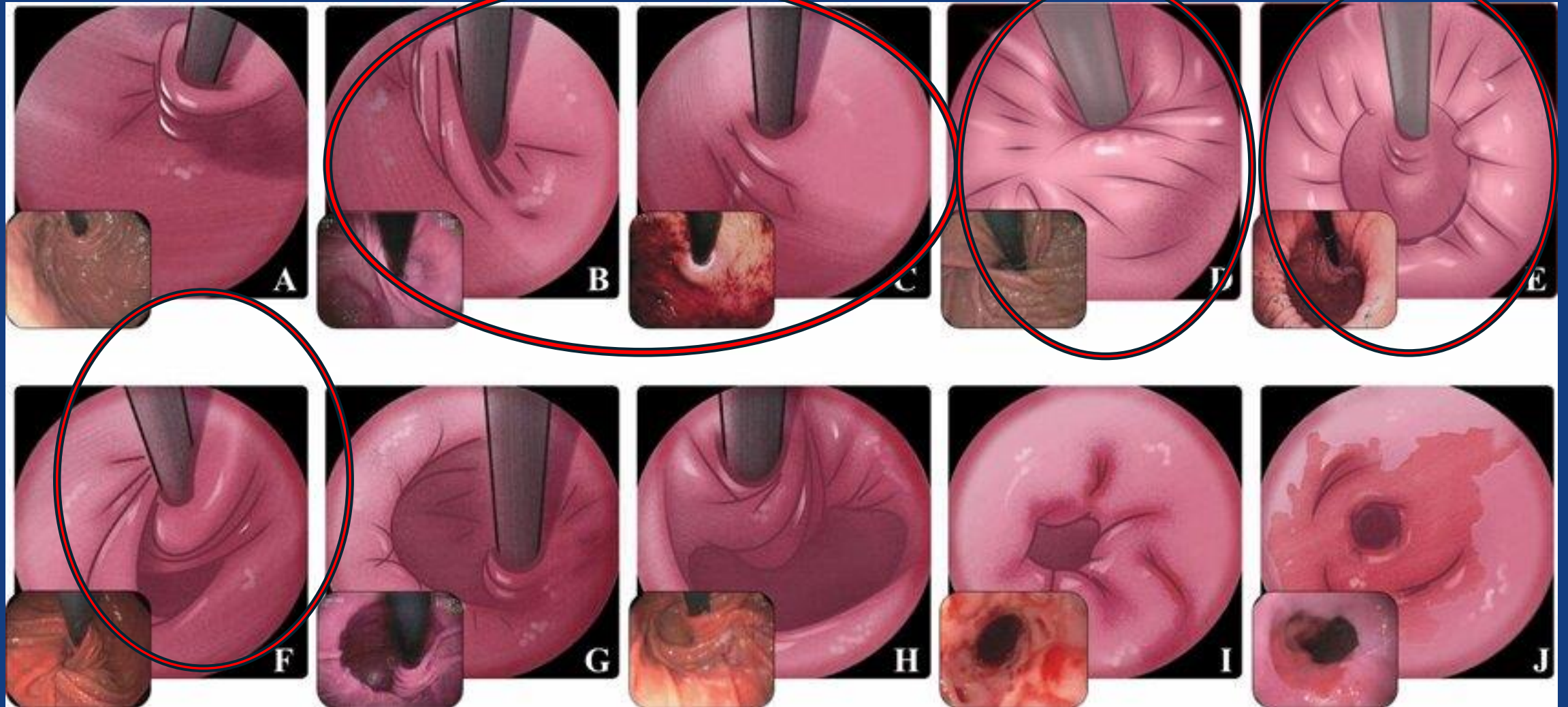
Hiatal hernia

Heartburn
Chest pain
Regurgitation
Dysphagia
Nausea
Bloating
SOB
Aspiration

Endoscopic assessment of fundoplications

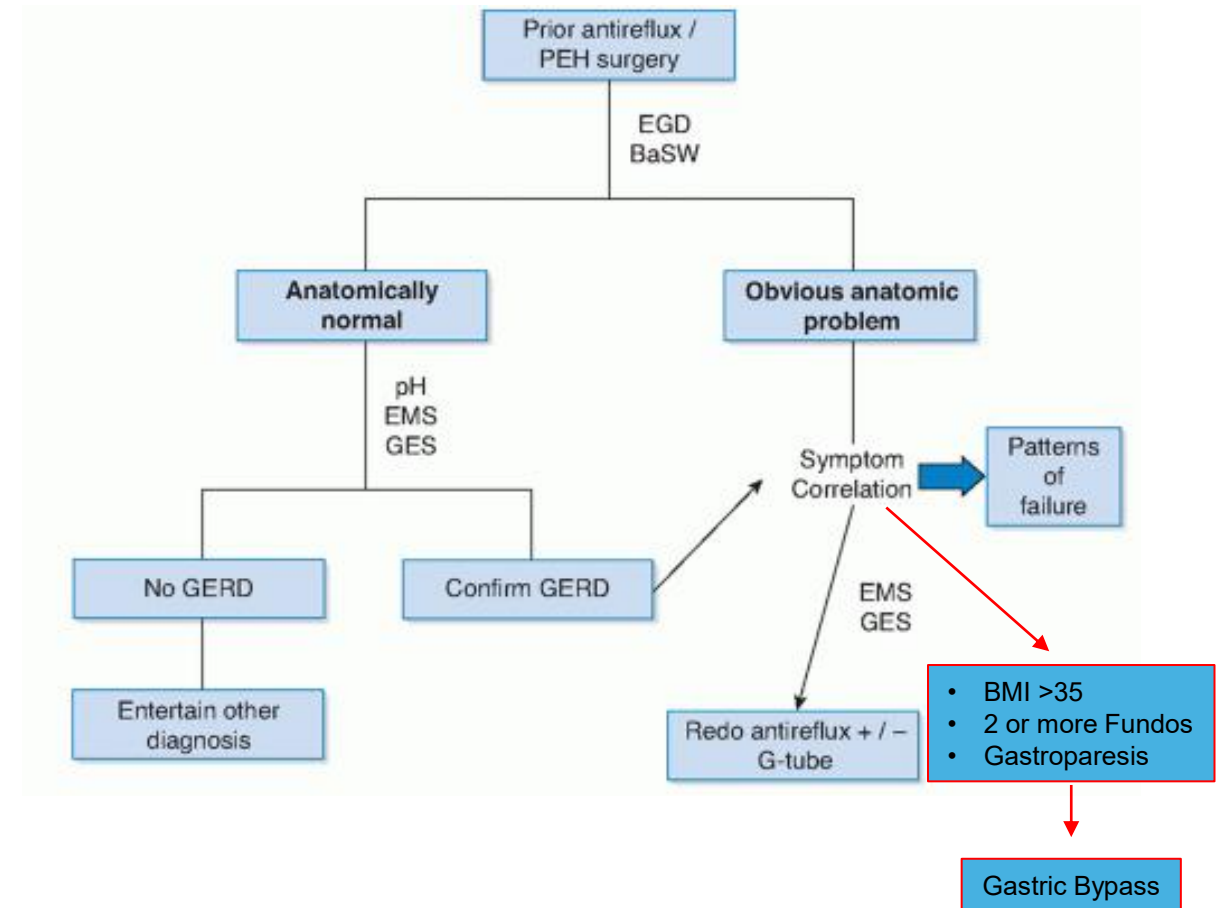


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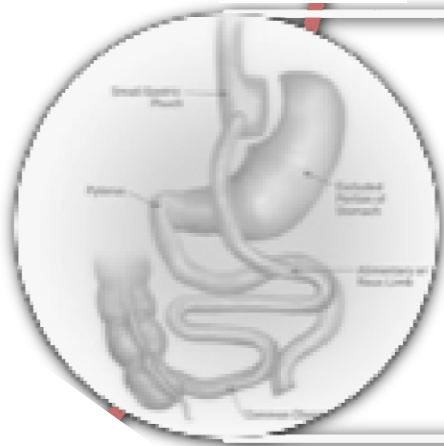


INDICATIONS FOR REOPERATION

- Patients who have persistent, recurrent, or new foregut symptoms (heartburn, dysphagia, chest pain, regurgitation, asthma, hoarseness, chronic cough, or laryngitis)
- And
- Confirmed physiologic abnormalities (objective evidence of failure)
- Or
- Definable anatomic defect



OPTIONS FOR REVISION

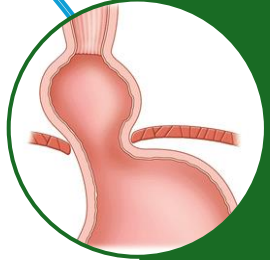


Conversion to Roux-en-Y (RNY) anatomy

- Two or more fundoplications
- Postsurgical gastroparesis
- Morbid obesity BMI >35
- Esophageal dysmotility or dilation
- Fundus not suitable for fundoplication

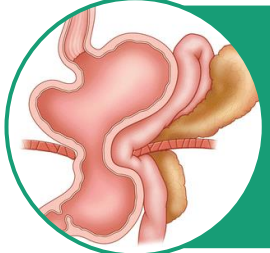
Based on preoperative workup and Health-related complications of obesity

PATIENT/CASE SELECTION



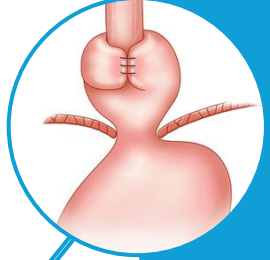
First cases

- Small HH defects
- GERD with no HH
- No Redo cases or large hernias (Type III, IV)



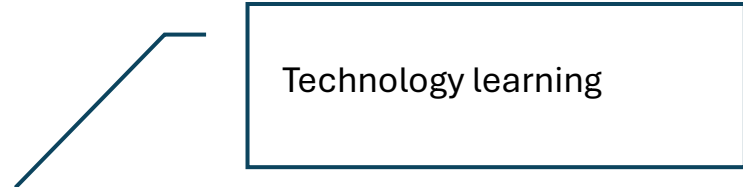
Advanced

- Larger hernias
- Concomitant cases (Bariatrics, General surgery, etc)



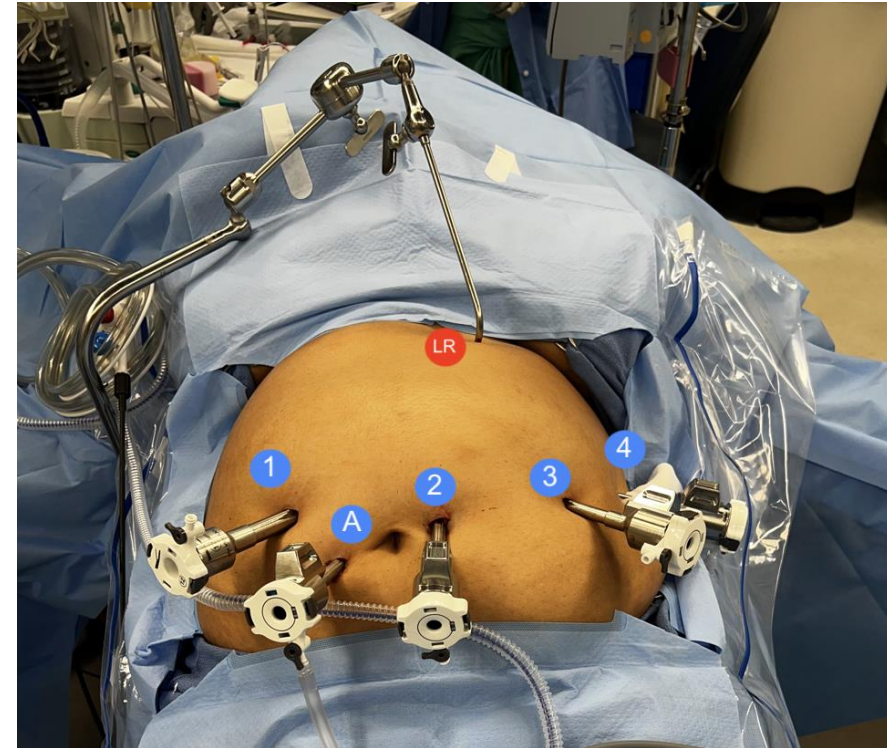
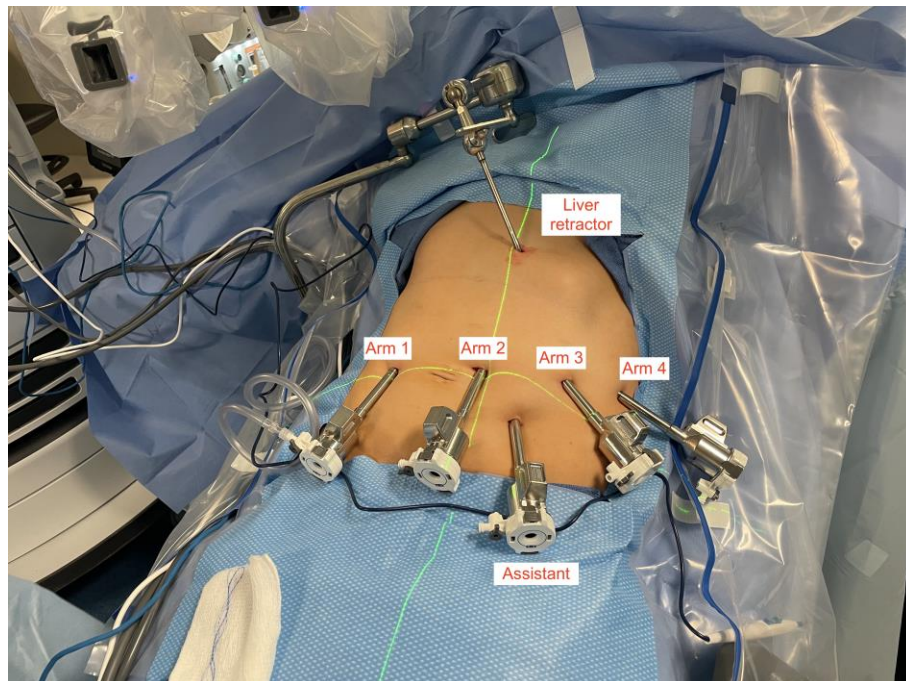
Advanced

- Revisional cases



PORT PLACEMENT

- 1 Stapler Trocar – RUQ/Midclavicular
- 2 Camera Trocar – L Paramedian
- 3 Right Hand Trocar – LUQ/Midclavicular
- 4 Robot Assistant Trocar – L Anterior Axillary Line
- A Bedside Assistant



***Liver retractor blade according to the available space*

Operative technique

Clear the anterior stomach/fundoplication/ GE Junction

- Adhesiolysis between the stomach and the liver and around the hiatus
- Full mobilization of the fundoplication

Circumferential esophageal dissection to obtain adequate esophageal length

- Crural repair takedown if necessary

Complete takedown of the old repair is a mandatory step before considering any surgical option

- Fat pad should be routinely excised (Identify GEJ, determine esophageal length)

Assess the tissue quality of the crura

- Consider mesh reinforcement (absorbable) and/or crural relaxing incisions

Assess the fundus (consider fundectomy)

Challenging case

61 yo F referred recurrent HH s/p
Paraesophageal hernia repair with
mesh and Nissen fundoplication

Symptoms: regurgitation and heartburn

BMI: 37.89kg/m²

PMH: OSA, HTN, GERD, Obesity

PSH: Nissen fundoplication + PEHR w/
mesh (3/8/22)



REDO HHR + FUNDOPLICATION TAKEDOWN + CONVERSION TO RNY



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Clear the anterior stomach/fundoplication/ GE Junction

- Adhesiolysis between the stomach and the liver and around the hiatus
- Full mobilization of the fundoplication

Circumferential esophageal dissection to obtain adequate esophageal length

- Crural repair takedown if necessary

Fundoplication takedown (mandatory step)

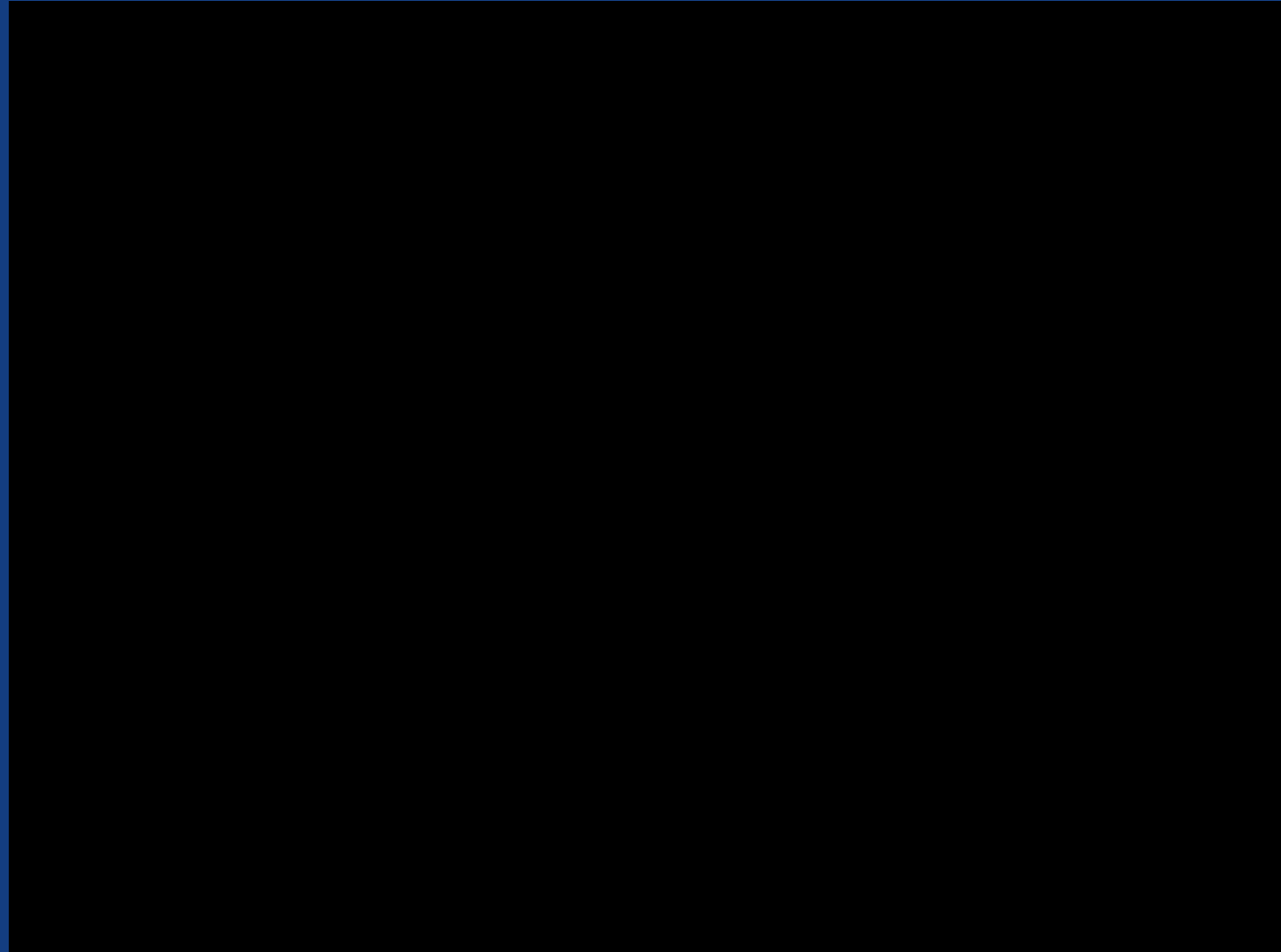
- Fat pad should be routinely excised (Identify GEJ, determine esophageal length)

Creation of gastric pouch

- Consider fundectomy

Assess the crura

- Consider mesh(absorbable) and/or crural relaxing incisions



CONCLUSIONS

- Revisional surgery after failed antireflux repairs requires careful preoperative and intraoperative assessment to identify identify the cause of the failure
- The choice of the surgical procedure should be tailored to the individual patient
- Gastric bypass is an excellent option that can be considered in patients with recurrent reflux symptoms after failed antireflux surgery
- The combination of these two procedures is technically demanding and requires appropriate training, expertise, and strict adherence to established surgical principles to overcome the challenge of redo antireflux surgery