PITFALLS AND PRACTICES IN REFLUX SURGERY

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Disclosure

I serve as a proctor for Intuitive Surgical.
LEARNING OBJECTIVES

• To discuss the characteristics of the Dor, Toupet, and Nissen fundoplication procedure

• To describe the critical features of a Heller esophagomyotomy

• To select the optimum approach to the repair of a Paraesophageal hernia

• To review potential future operative approaches
INDICATIONS FOR ANTI-REFLUX SURGERY

- **GI Indications**
  - Failed medical therapy
  - Noncompliance with therapy
  - High volume reflux
  - Severe esophagitis with complication
  - Benign stricture from reflux
  - Barrett's esophagus without dysplasia

- **Non-GI Indications**
  - Laryngeal Disease
  - Adult onset Asthma
  - Enamel erosion and Dental Caries
CRITICAL STEPS IN ANTI-REFLUX SURGERY

• Skeletonize the crura
• Reduce hernia
  • Resect sac if present
• Mobilize stomach
• Repair diaphragm
  • Primary vs mesh
• Creation of wrap
CURRENT OPERATIVE APPROACHES

• Open Laparotomy
• Open Thoracotomy
• Laparoscopic
• Robotic Assisted
USEFUL TOOLS OF THE TRADE

Retracting Grasper

Diamond Flex Liver Retractor
USEFUL TOOLS OF THE TRADE

Diamond Flex Esophageal Retractor

Penrose Drain Retractor
SURGICAL PROCEDURES FOR GERD

• Hill Gastropexy
• Dor fundoplication
• Toupet fundoplication
• Nissen Fundoplication
• Collis Gastroplasty
SURGICAL PROCEDURES FOR GERD

- Hill Gastropexy
- **Dor Fundoplication**
- Toupet Fundoplication
- Nissen Fundoplication
- Collis Gastroplasty
SURGICAL PROCEDURES FOR GERD

• Hill Gastropexy
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- **Nissen Fundoplication**
- Collis Gastroplasty
SURGICAL PROCEDURES FOR GERD

- Hill Gastropexy
- Dor Fundoplication
- Toupet Fundoplication
- Nissen Fundoplication

- **Collis Gastroplasty**

*Figure 6. Gastroplasty. A. Collis. B. Wedged-Collis.*
SURGICAL PROCEDURE FOR ACHALASIA

- **Heller Esophagomyotomy**
CLASSIFICATIONS
HIATAL HERNIA

• Type 1  Sliding hiatal hernia, with GEJ riding up thru the hiatus (95% of HH)
• Type 2  Herniation of the fundus of the stomach but GEJ in place
• Type 3  Combination of 1 and 2
• Type 4  Other organs also present above the diaphragm
• Type 2, 3 & 4  Are considered Para-esophageal hiatal hemias
SURGICAL PROCEDURE FOR PARAESOPHAGEAL HERNIA

• Resection of hernia sac

• Cural Repair
  • Primary
  • Biologic mesh

• Fundoplication

• Fixation of stomach
## CODES IN ESOPHAGEAL SURGERY

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NEW AND EMERGING TECHNIQUES

• Stretta (Radio Frequency) Ablation

• Peroral Endoscopic Myotomy POEM

• LINX Reflux Management System by Torax