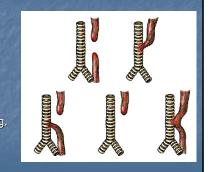


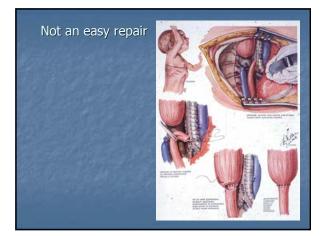
Gastrointestinal Disorders

Disorders of the Esophagus

Congenital Abnormalities

Types
Stenosis
Atresia
Fistula
Newborn aspirates while feeding
Pneumonia



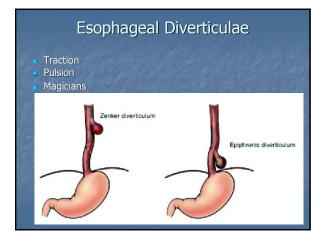


<section-header>Achalasia Lack of relaxation of cardiac sphincter • The default condition is contraction Inflammation leads to • Scarring and • Loss of ganglia cells Decreased innervation means no relaxation Leads to retention of food, inflammation and more scarring

Esophageal Scarring and Ring formation

- Inflammation leads to
 Scarring and
 - Loss of ganglia cells
- Decreased innervation means no relaxation
- Leads to retention of food, inflammation and more scarring





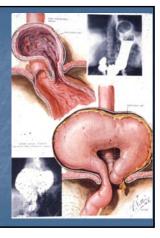
Hiatal Hernia

- Incompetence of diaphragmatic opening
- Portion of stomach is in thorax
- Sliding' type ->
- Leads to
 - Regurgitation of foodAcid reflux



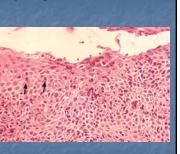
Hiatal Hernia

- "Rolling type
- May lead to gastric mucosal ischemia.
- Ulceration
- GI bleeding



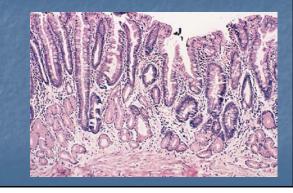
Esophagitis

- Inflammation of mucosa
- Lots of causes
 - acid ->
 - Infectious agents
 Bacteria
 - Viral (HIV)



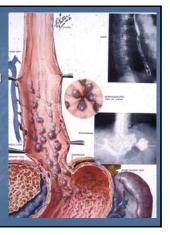
Barrett's Change Metaplasia of squamous epithelium - Columnar epi - Repeat injury - Reflux - Indicates serious or prolonged damage - Cancer risk?

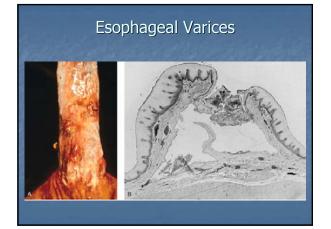
Barrett's Change

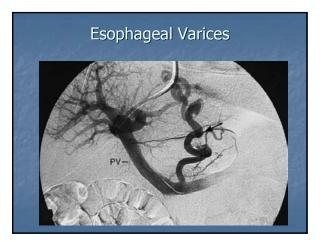


Esophageal Varices

- Dilation of esophageal veins, distal 1/3.
 Increased venous portal pressure.
 Cirrhosis
- hemorrhage



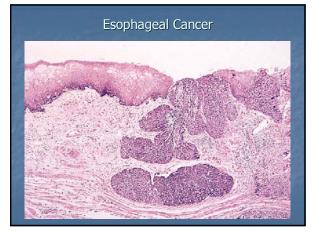




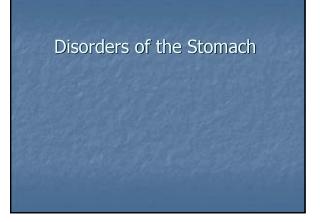
Esophageal Cancer

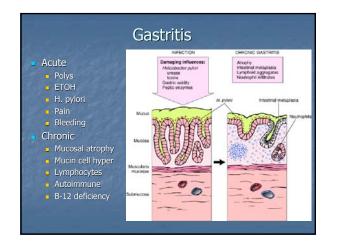
- Squamous cell
- Repeat irritation
- Invasive
- Barrett's change
 Adenocarcinoma

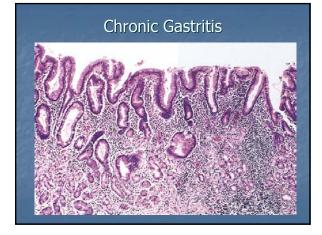










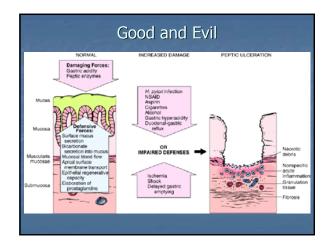


Helicobacter pylori

- Gram negative rod
- Lives on the epithelial surface.
- Urease destroys mucu:
- Increases acid secretion
- Reduces duodenal bicarb
- Intensifies inflammatory response
- Immunogenic



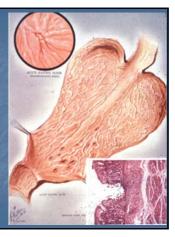
Peptic UlcerAction of digestionBalance between goodBalance between goodAction of digestionBalance between goodH. pyloriNSAIDs• AspirinComplications• Bleeding• Perforation• ScarringZollinger-Ellison• Gastrin secreting tumor



Stress Ulcers

- This means <u>stress</u>, not surprise (pop quiz)

- Major
 Head injury
 Burns

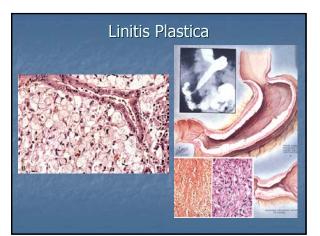


Gastric Cancer

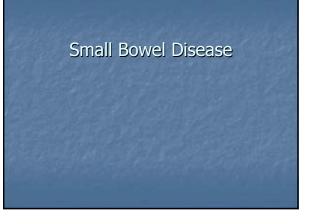
- Adenocarcinoma

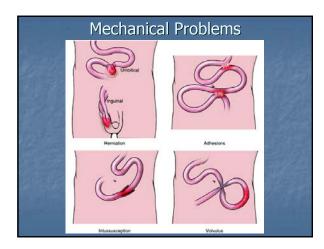
- Chronic gastritis with H. pylori

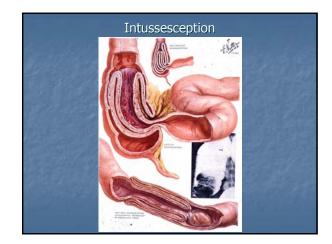










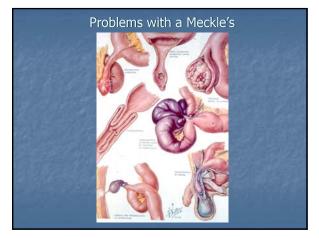


Meckle's Diverticulum

Congenital diverticulum of the distal small bowel.

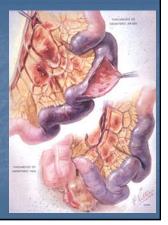
and a local division of the

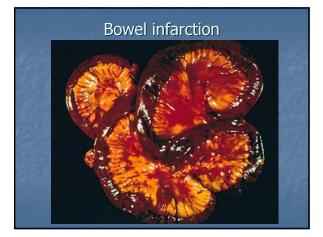
- 2 kinds of mucosa
- 2 feet from the ileocecal
- Z inches in size.
- Twice as common in males



Vascular Related

- Bowel infarction
- Hemorrhagic
 - Venou
 - Arterial
- Septic shoc
- Very painful





Infectious Enteritis

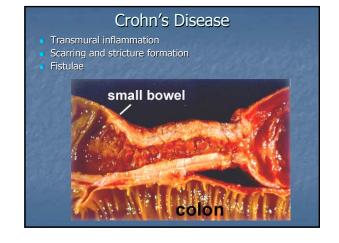
- Many agents infect the small bowel.
 - Viral
 - Bacteria
 - Salmonella
 - Parasites
 - Unicellular
 - Giardia

Non-infectious Inflammatory

Crohn's disease

- Granulmatous enteritis
- Transmural inflammation
- No known infectious agent
- Granulomas in about 40%
- Fistula formatio
- Relapsing
- Small bowel or color
- Ethnicity
- No significant increased risk of cancer (minimal at best)











Hirschprung's Disease

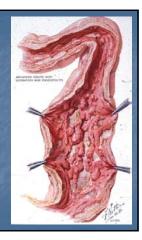
- Aganglionic segment
- Peristalsis stops
- Dilation of colon back stream of the defective segment.
- Remove distal portion that looks healthy.
- Look for ganglia.

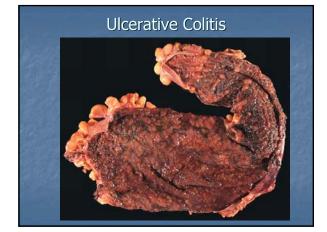


Ulcerative Colitis

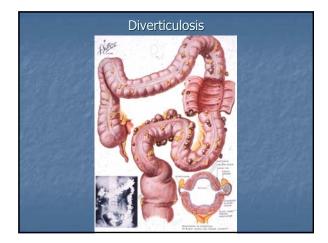
Mucosal

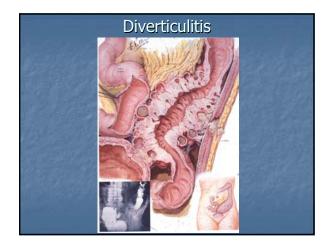
- Crypt abscesses
- Autoimmune element?
- Starts in rectum and
- works its way back.
- Pseudopolyps
- Toxic megacolon
- Increased cancer risk

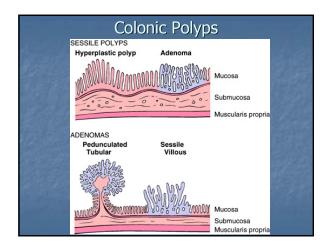


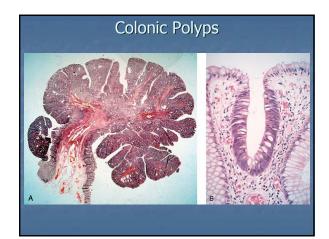






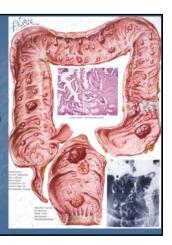


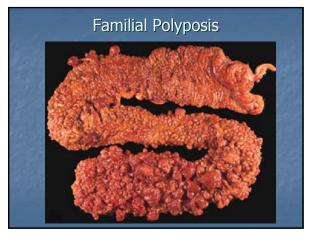


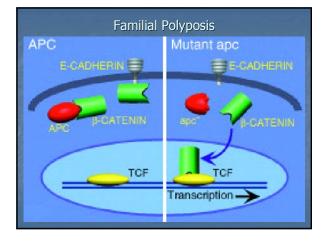


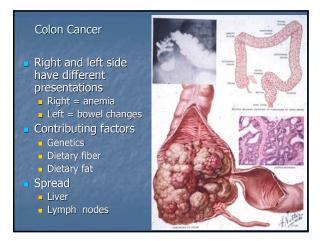


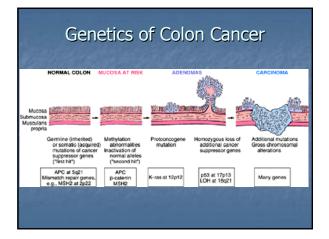
- Millions of adenomatous polyps
- Genetic predisposition
- 100% of chance of cancer











Colon Cancer

