GI Pathology Outline

- Esophagus
- Stomach
- Intestine
- Liver
- Gallbladder
- Pancreas

Hiatal Hernia

- Dilated portion of stomach protrudes above diaphragm
- Common! Usually asymptomatic.
- Heartburn, reflux esophagitis
- Danger: ulceration, bleeding

Normal esophageal-gastric junction

Sliding (L) and rolling (R) hiatal hernias
Mallory-Weiss Syndrome

- GE junction tears
- Severe vomiting (chronic alcoholics)
- Symptoms: bleeding, pain, infection
- Treatment: cauterization
- Prognosis: usually heals; sometimes fatal

Mallory-Weiss syndrome (7)

Mallory-Weiss tears (8)

Barrett Esophagus

- Replacement of squamous epithelium by columnar epithelium with goblet cells
- Complication of long-standing reflux esophagitis
- Danger: 30-100x risk of adenocarcinoma
- Treatment: screen for high-grade dysplasia

Barrett esophagus (10)

Normal esophagus (L) and Barrett esophagus (R) (11)

Barrett esophagus (12)
Barrett esophagus

**Esophageal Carcinoma**

**Adenocarcinoma**
- Commonest type in US
- Risk factor: Barrett esophagus
- Distal 1/3 of esophagus
- Symptoms: insidious onset; late obstruction

**Squamous cell carcinoma**
- Commonest type worldwide
- Risk factors: esophagitis, smoking, alcohol, genetics
- Middle 1/3 of esophagus
- Symptoms: insidious onset; late obstruction

**GI Pathology Outline**

- Esophagus
- Stomach
  - Gastritis
  - Ulcers
  - Carcinoma

**Gastritis**

- Mucosal inflammation
- Asymptomatic, or epigastric pain
- Causes: H. pylori, autoimmune, NSAIDs
- Danger: intestinal metaplasia
Gastritis

Chronic gastritis

- Erosion of mucosa into submucosa
- Causes: H. pylori, NSAIDs
- Symptoms: epigastric pain
- Danger: bleeding, perforation

Ulcer

- Erosion of mucosa into submucosa
- Causes: H. pylori, NSAIDs
- Symptoms: epigastric pain
- Danger: bleeding, perforation

Helicobacter pylori organisms

Gastric Carcinoma

Intestinal type
- Arises in intestinal metaplasia
- Risk factors: chronic gastritis, bad diet
- Glandular morphology
- Generally asymptomatic

Diffuse type
- Arises from gastric glands
- Risk factors undefined
- Signet ring morphology
- Generally asymptomatic
Intestinal-type gastric carcinoma: glands

Diffuse gastric carcinoma: signet ring cells

Signet ring cell

Gastric carcinoma presenting as mass

Gastric carcinoma presenting as ulcer
Gastric carcinoma presenting as linitis plastica