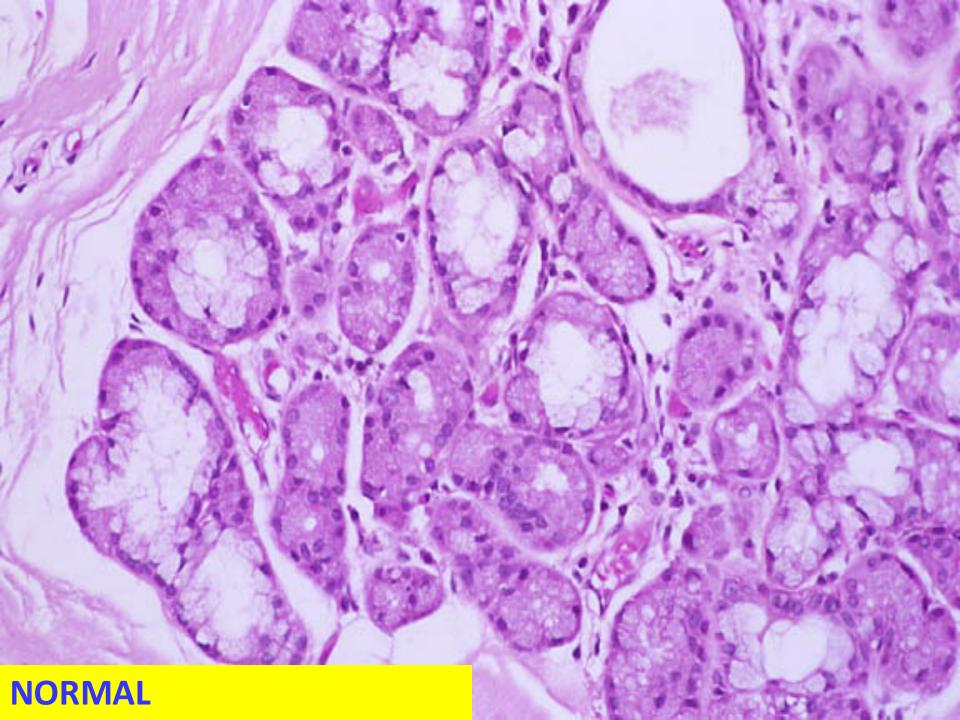
GNT Block 2018 Pathology Practical

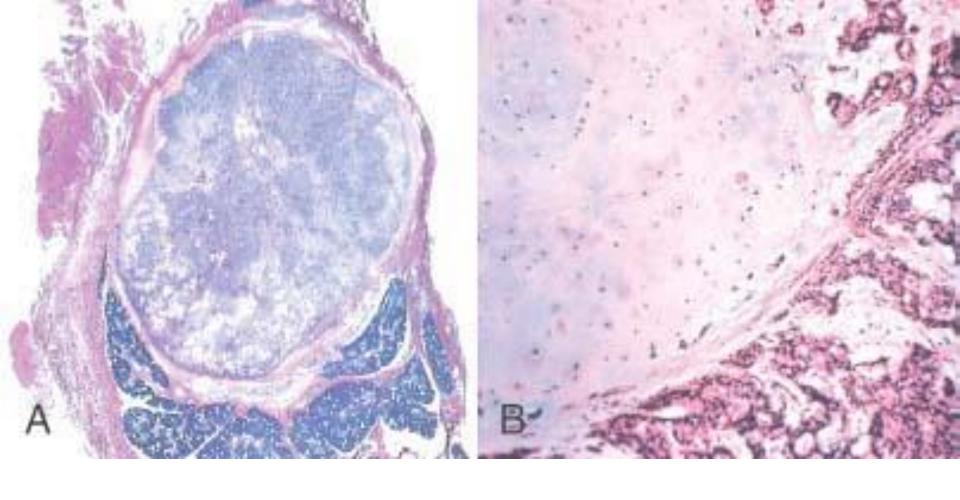
Digestive system block-Practical 1

SALIVARY GLAND



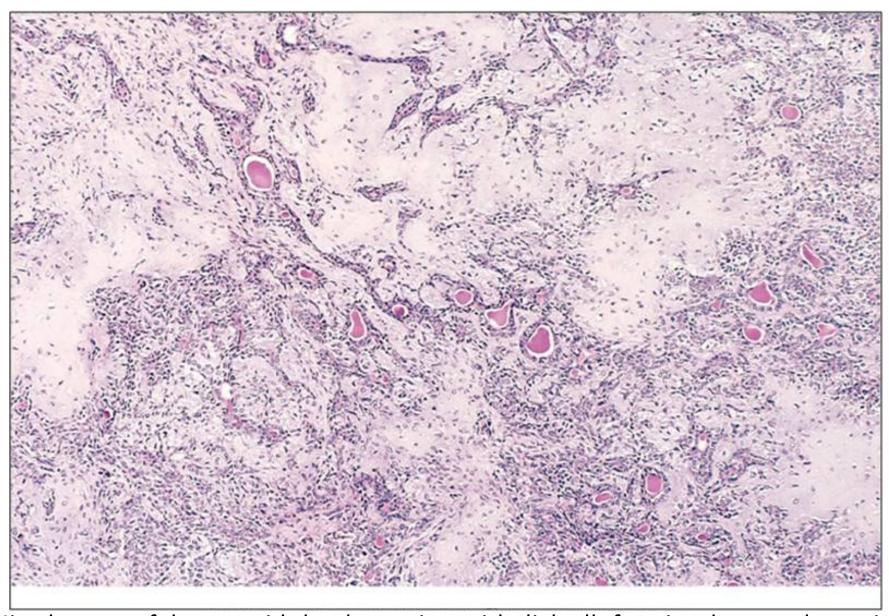


R



PLEOMORPHIC ADENOMA

i.e., MIXED TUMOR



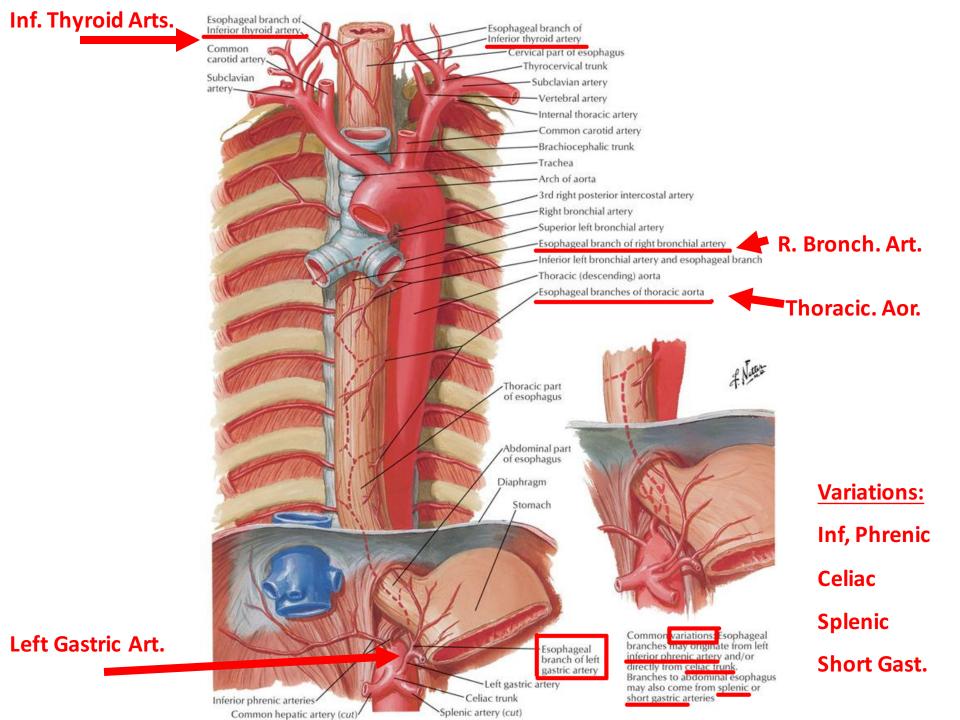
Mixed tumor of the parotid gland contains epithelial cells forming ducts and myxoid stroma that resembles cartilage.

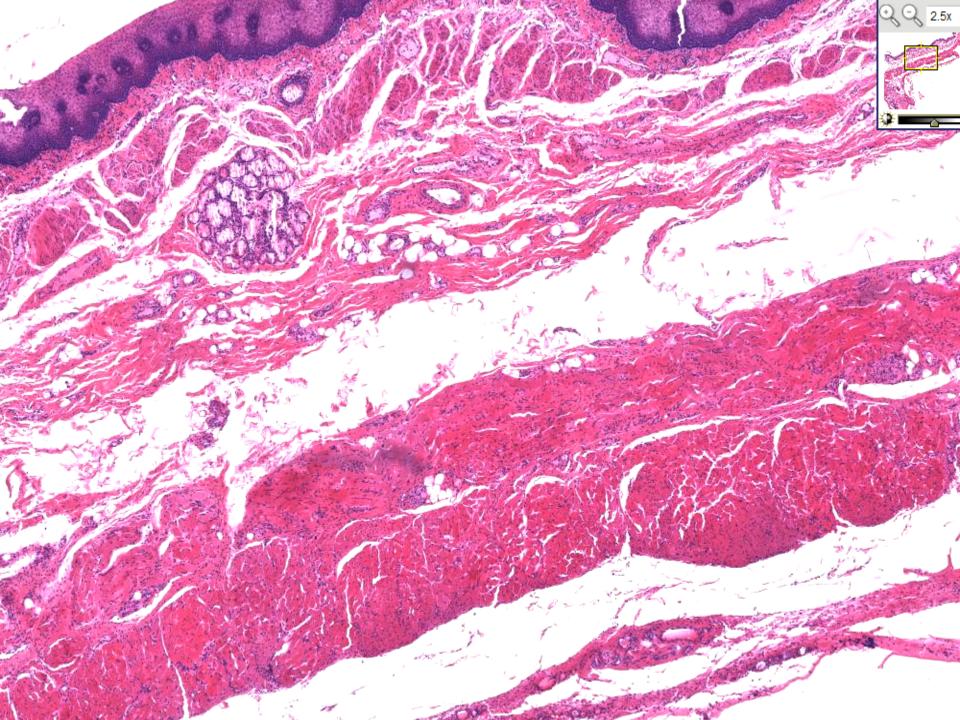
Pleomorphic adenoma of the salivary gland: Section shows an incomplete fibrous capsule separating the tumour from normal salivary gland:

- Tumour shows mixed cellular components like epithelial, myoepithelial, chondriod and myxoid elements.
- Epithelial areas shows small ducts, acini and strands or sheets of cells.
- Myxoid areas are formed of loose myxomatous tissue and chondriod areas consists of pale blue matrix.

Esophagus

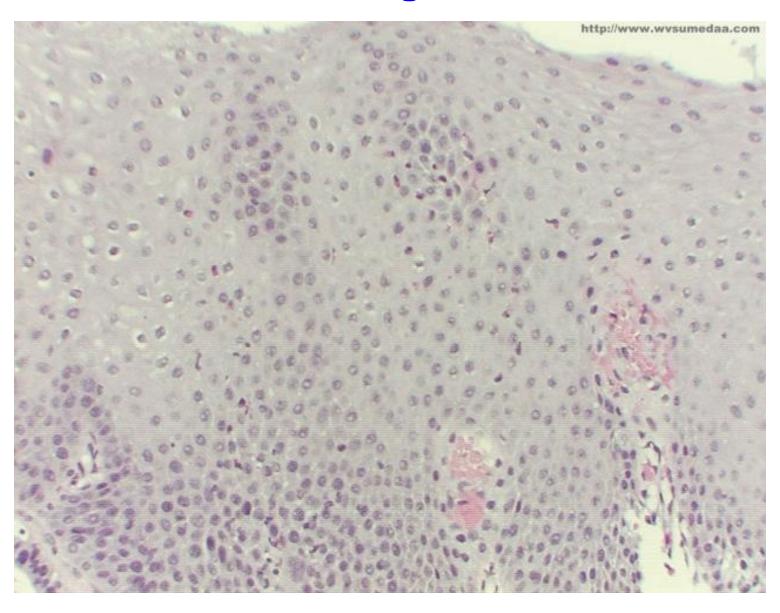
Review of normal anatomy and histology





Gross and histopathology

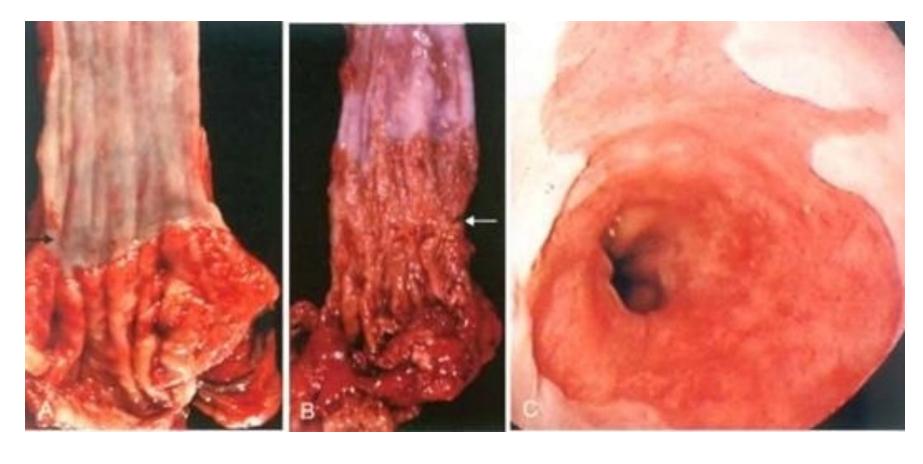
REFLUX/GERD

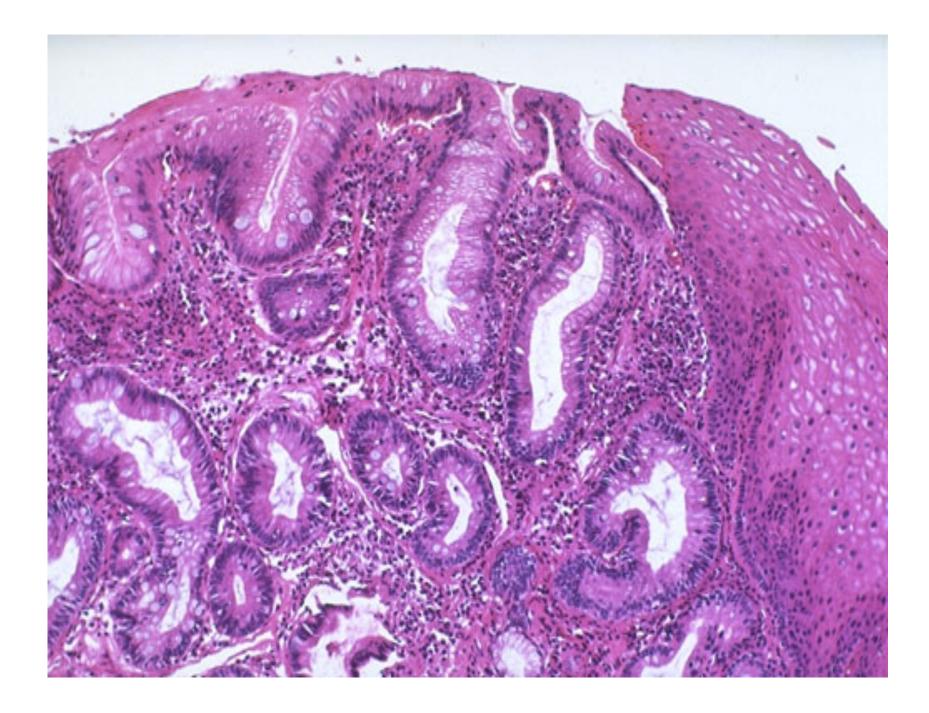


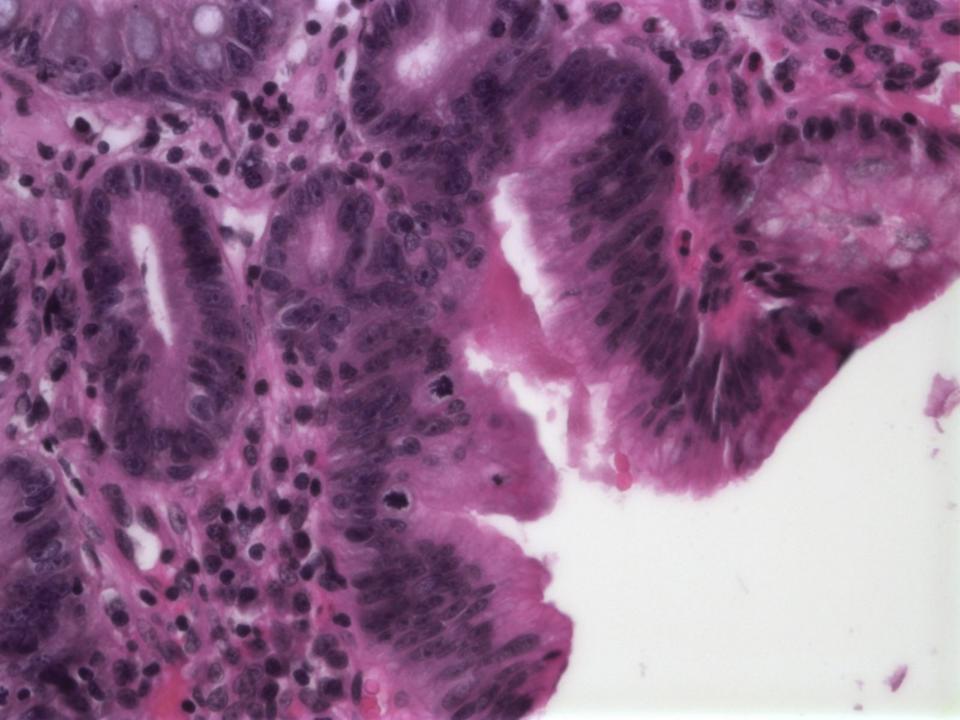
REFLUX/GERD

- Inflammatory Cells
 - -Eosinophils
 - -Neutrophils
 - **–Lymphocytes**
- Basal zone hyperplasia
- Lamina Propria papillae elongated and congested

BARRETT'S ESOPHAGUS



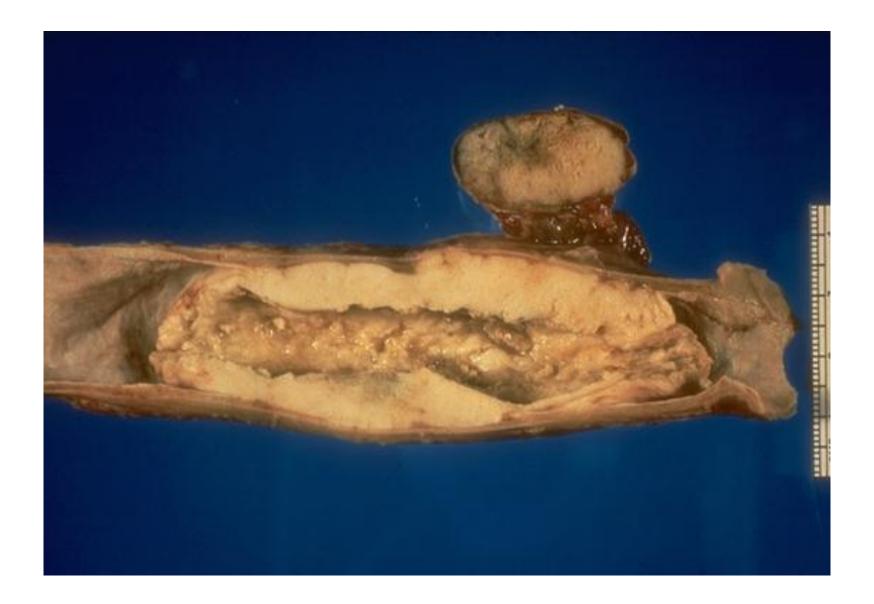




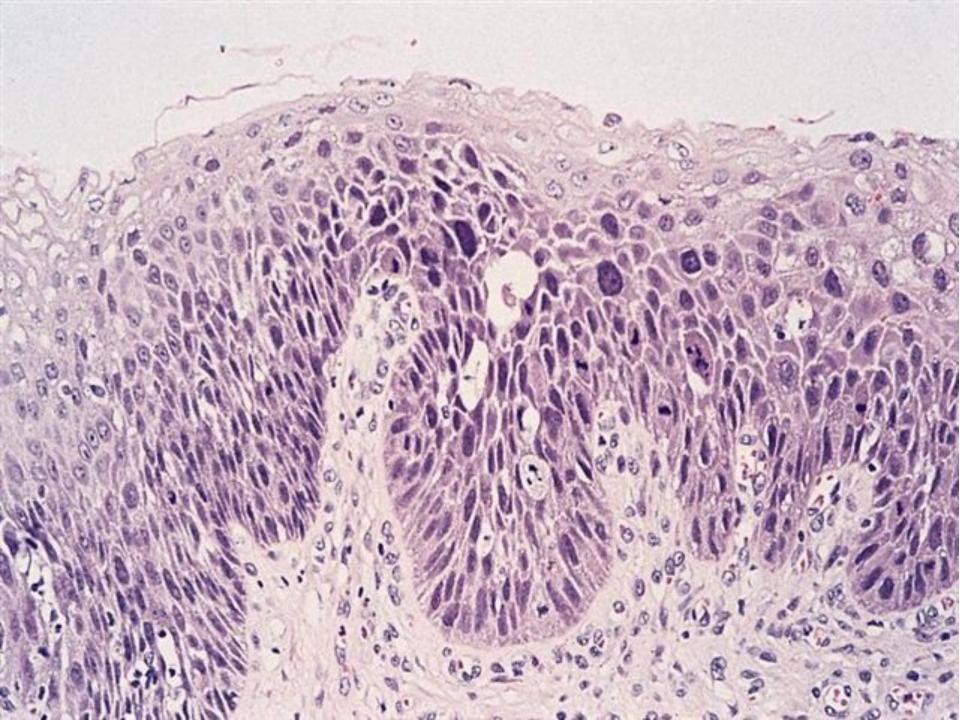
BARRETT'S ESOPHAGUS

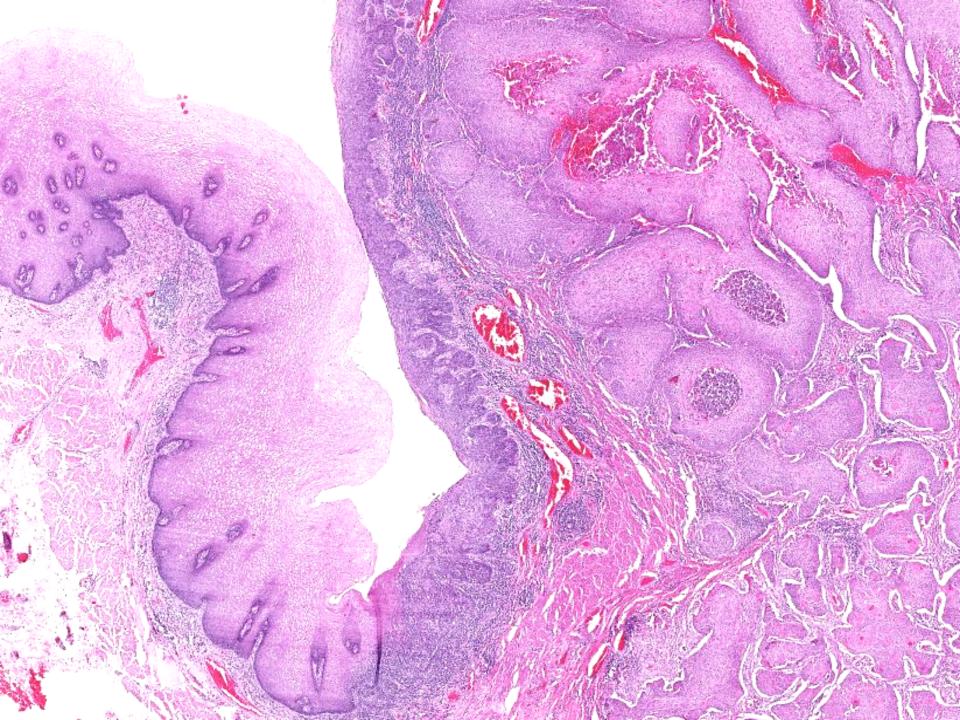
- INTESTINALIZED (GASTRICIZED) mucosa is AT RISK for glandular dysplasia.
- Searching for dysplasia when BARRETT's is present is of utmost importance
- MOST/ALL adenocarcinomas arising in the esophagus arise from previously existing BARRETT's

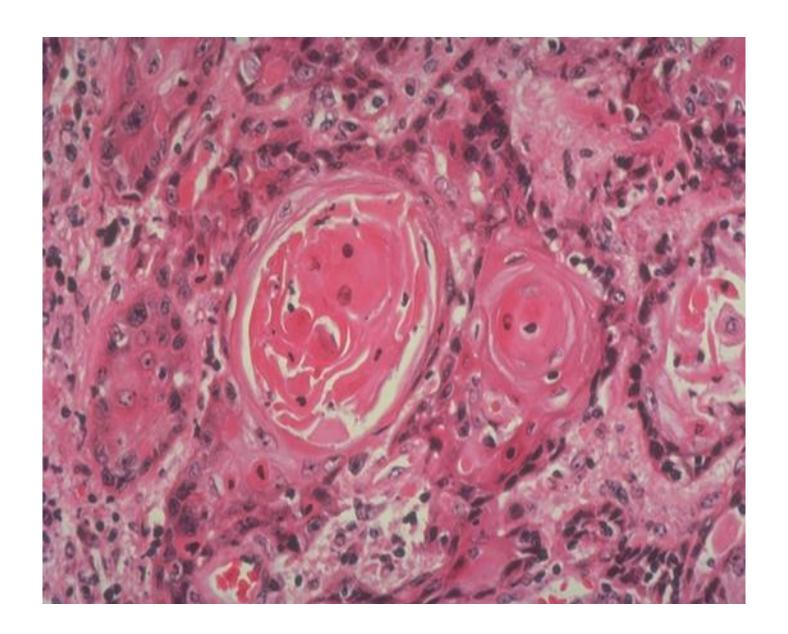
Carcinoma of the esophagus





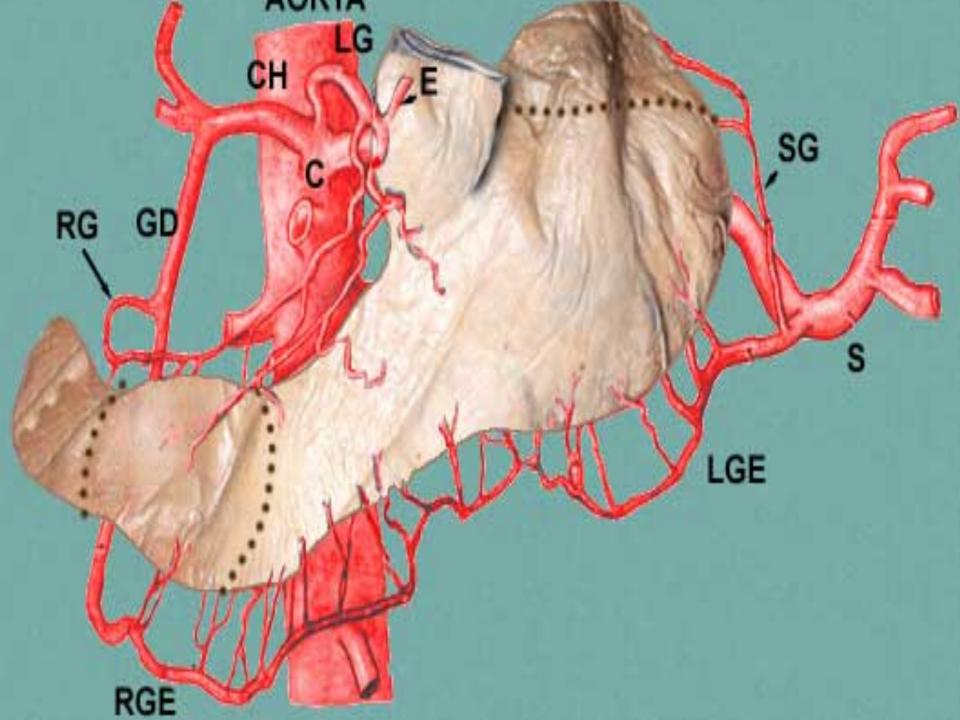


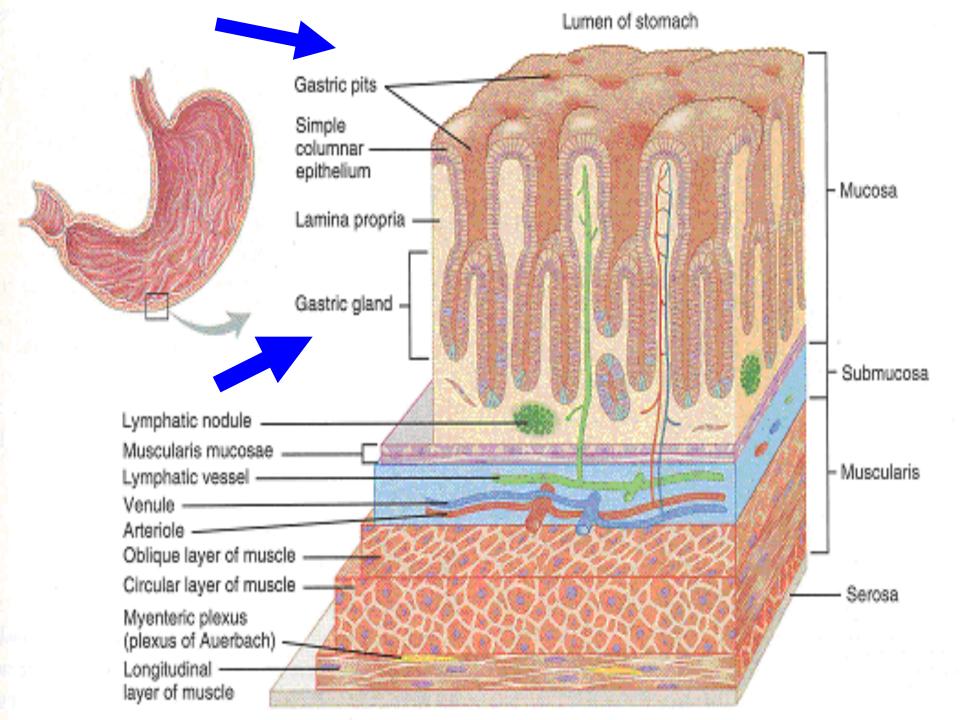


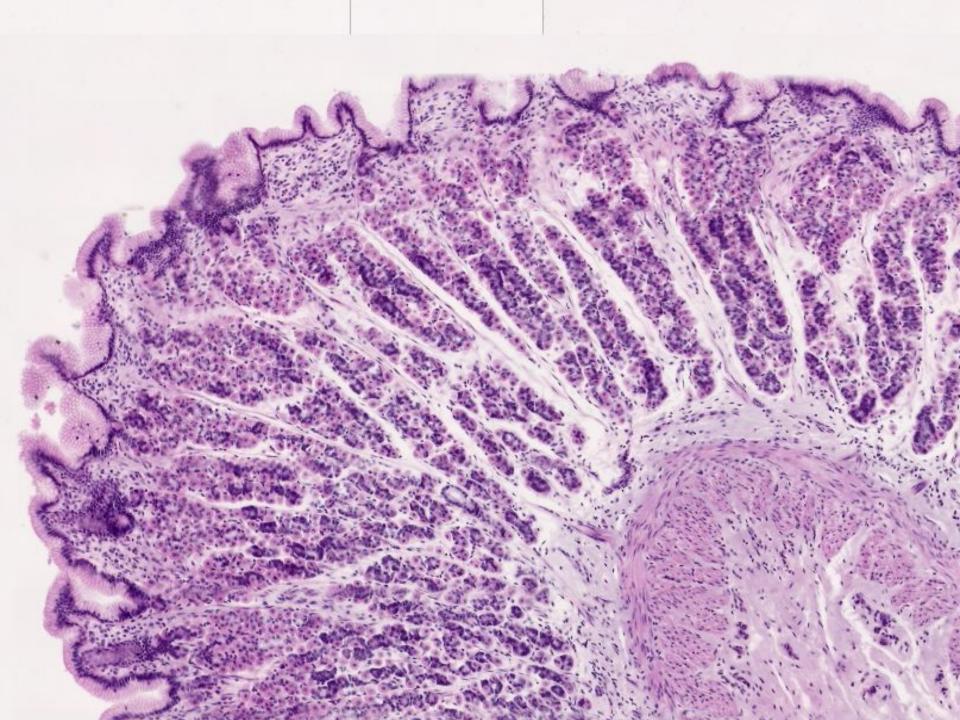


Stomach

Normal anatomy and histology







Gross and histopathology

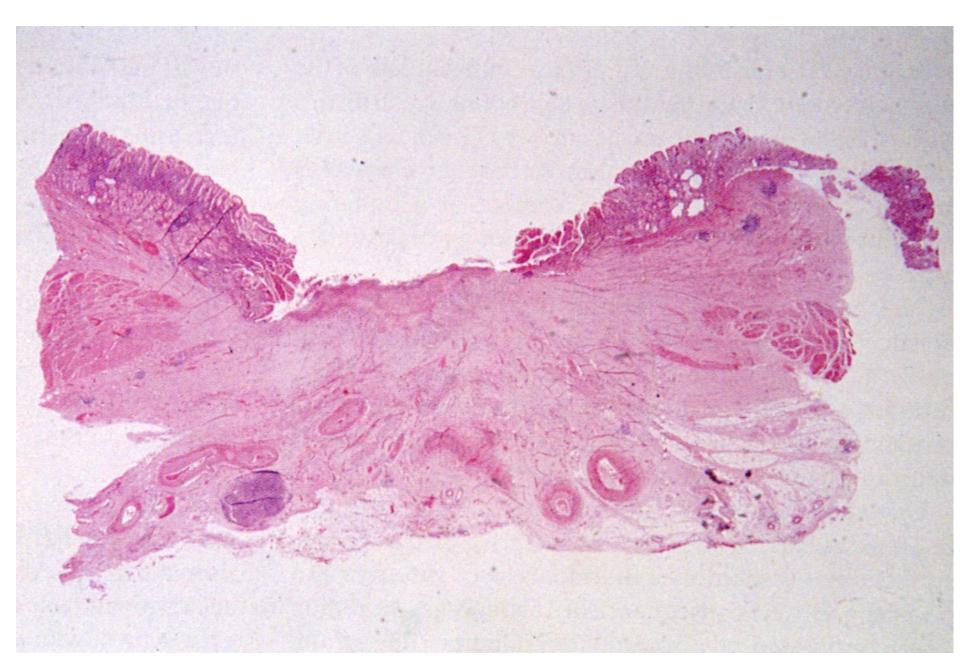
Chronic gastric ulcer

"PEPTIC" ULCERS

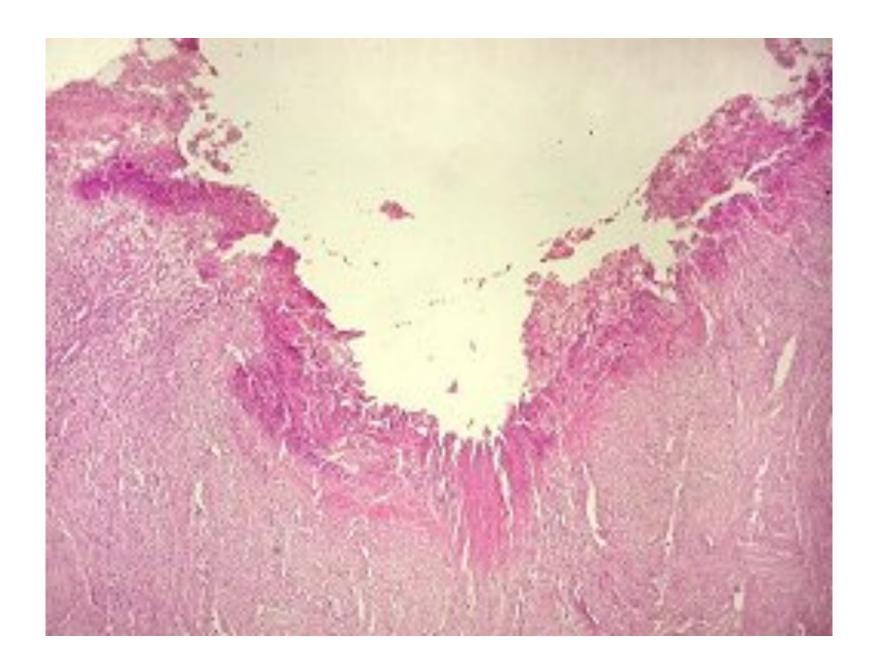
- "PEPTIC" implies acid cause/aggravation
- ULCER vs. EROSION (muscularis mucosa intact)
- MUC→SUBMUC→MUSCULARIS→SEROSA
- Chronic, solitary (usually), adults
- 80% caused by H. pylori
- 100% caused by H. pylori in duodenum
- NSAIDS "STRESS"







Chronic gastric ulcer



The Base of a Nonperforated Chronic Peptic Ulcer

Necrosis (N)

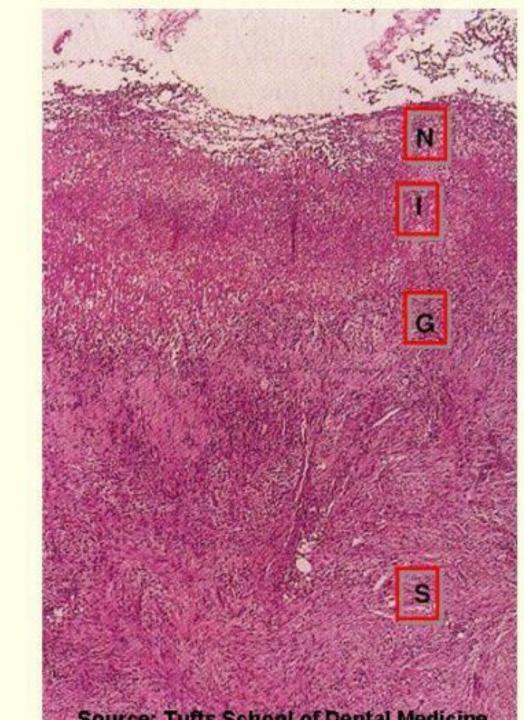
Inflammation (I)

Granulation tissue (G)

Scar (S)

(Top - luminal surface,

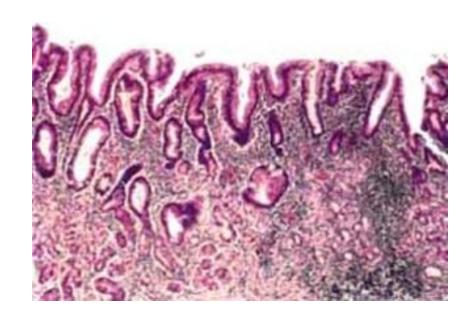
Bottom - muscular wall)

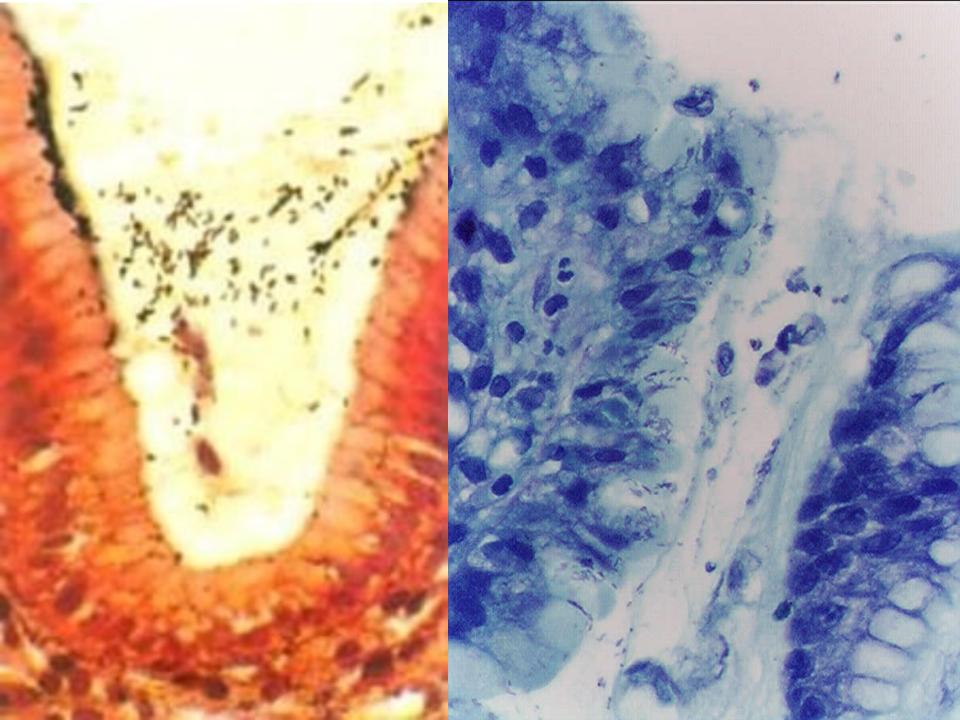


Gastritis Helicobacter induced

GASTRITIS

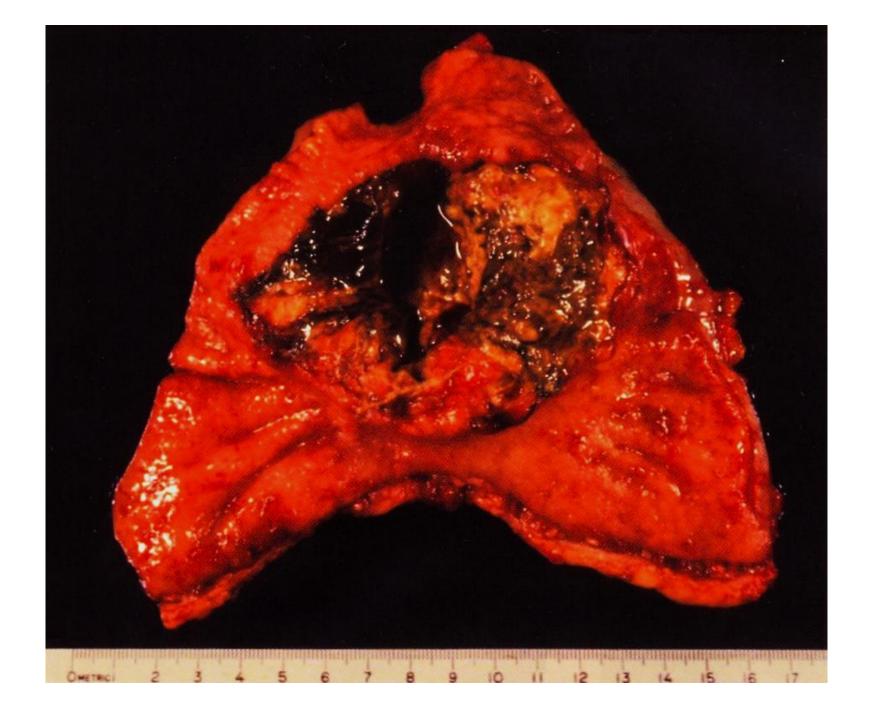
- CHRONIC, NO EROSIONS, NO HEMORRHAGE
- Perhaps some neutrophils
- Lymphocytes, lymphoid follicles
- REGENERATIVE CHANGES
 - METAPLASIA, intestinal
 - ATROPHY, mucosal hypoplasia, "thinning"
 - DYS-PLASIA

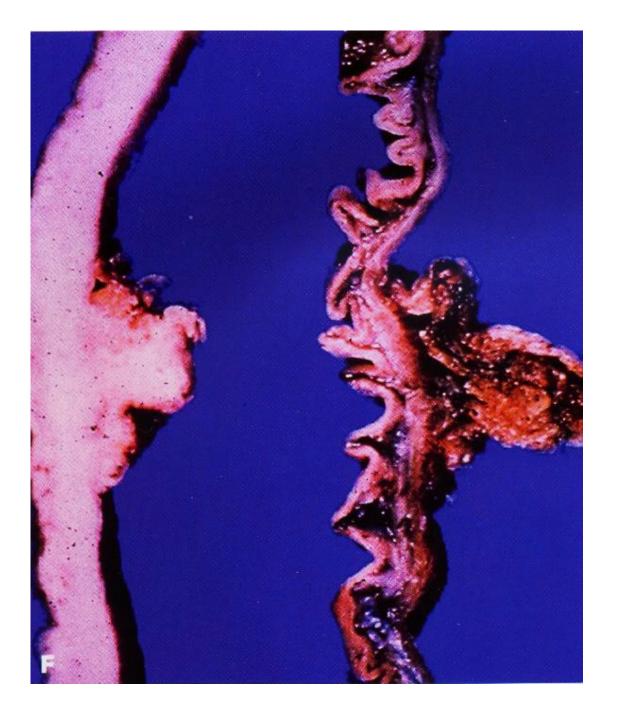




Carcinoma of the stomach

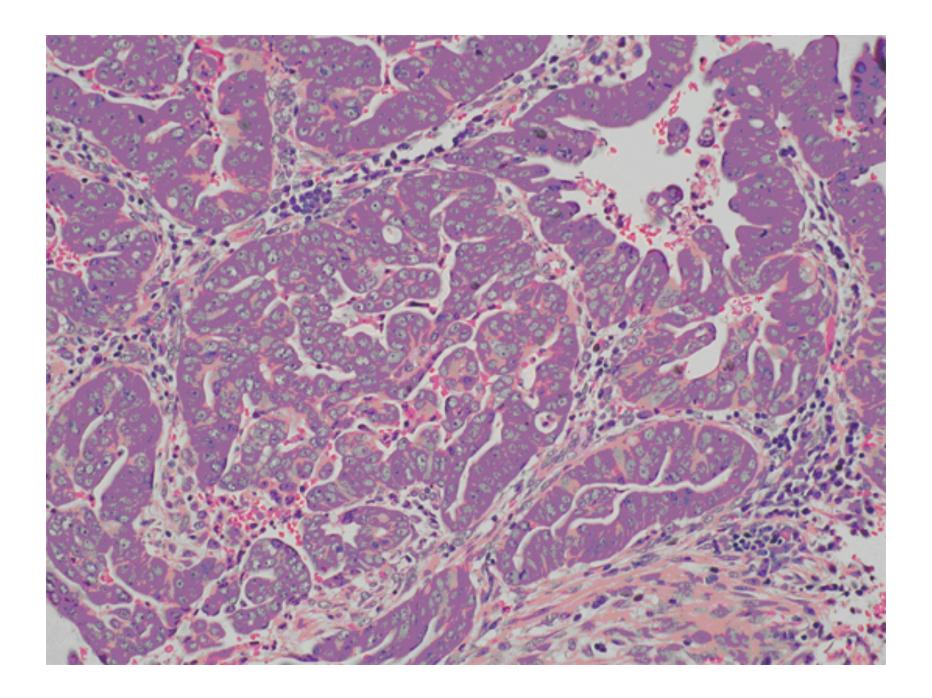




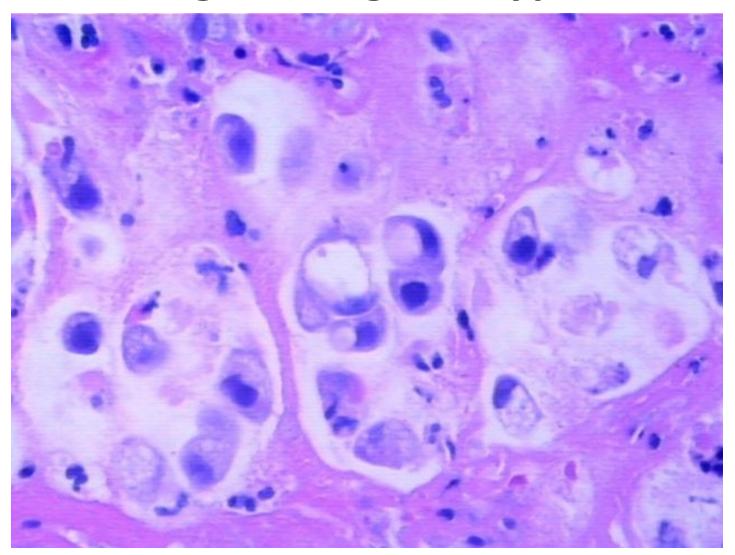


ADENOCARCINOMA GROWTH PATTERNS





Gastric adenocarcinoma of the diffuse signet ring cell type

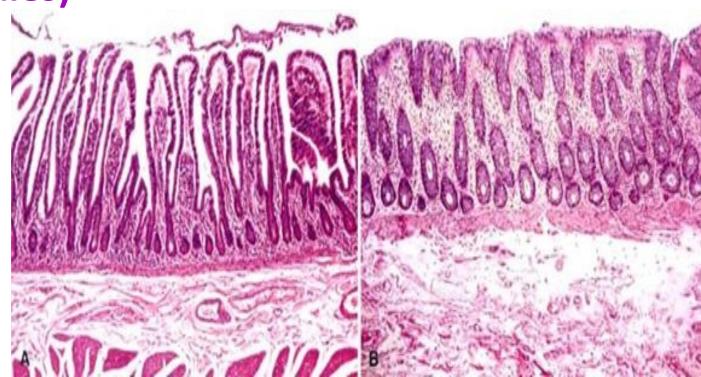


Small intestine

Normal histology

MUCOSA

- SI: ABSORPTIVE, MUCUS, PANETH (apical granules)
 - VILLI
- LI: MUCUS, ABSORPTIVE, ENTEROENDOCRINE (basal granules)
 - CRYPTS

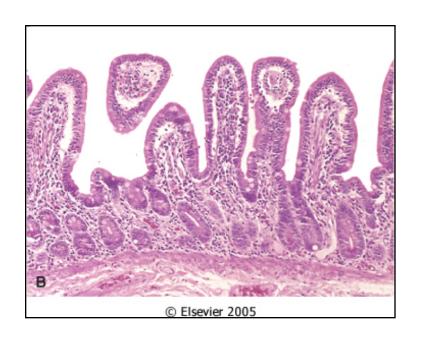


Gross and histopathology

Chronic duodenal ulcer



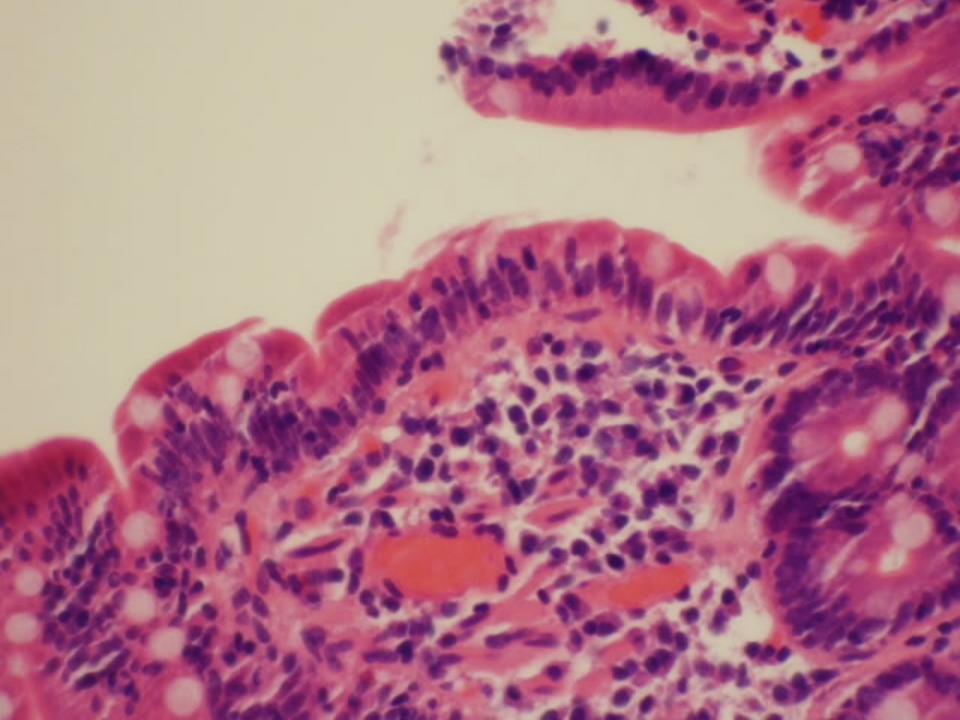
Celiac disease

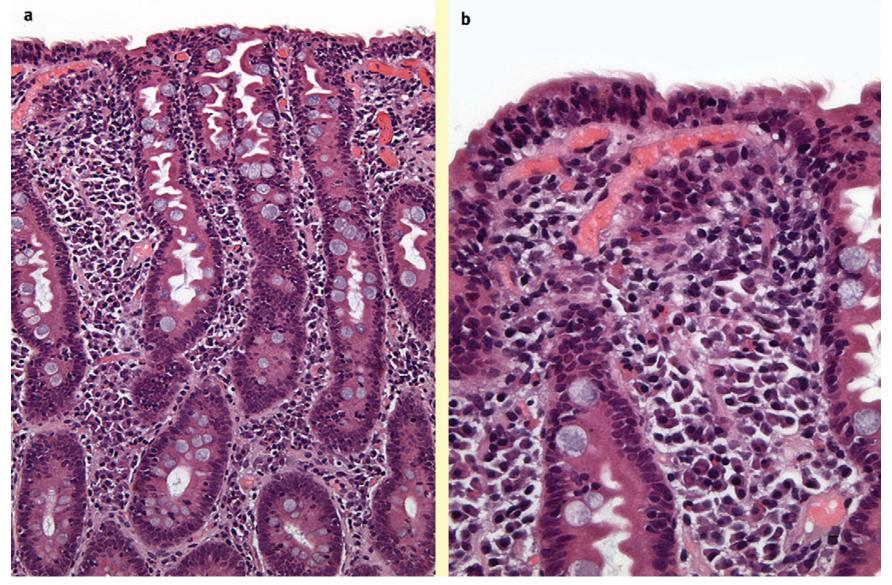




Villous length to crypt length 3/1

11/20/18 52

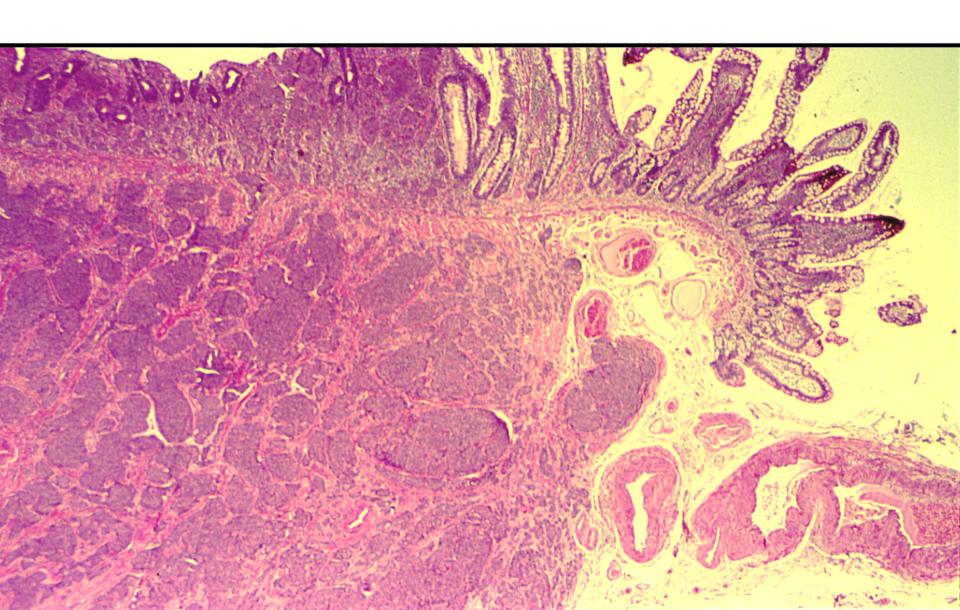




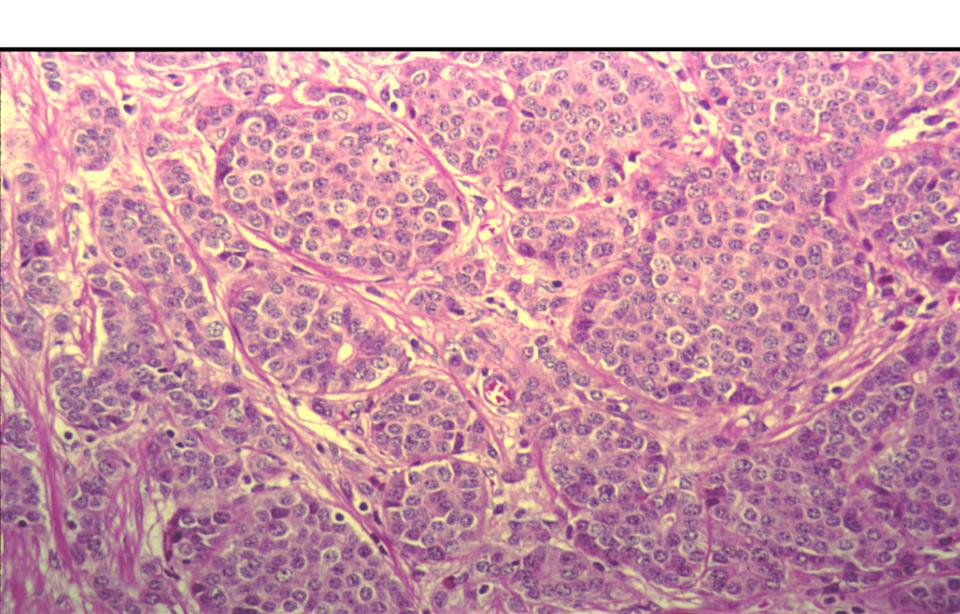
a Low-power view of fully developed sprue-type changes. Note the elongated crypts with complete lack of villi. b High-power view showing damaged surface epithelium with large numbers of intraepithelial lymphocytes.

Carcinoid tumour

CARCINOID OF SMALL INTESTINE



CARCINOID TUMOUR OF SMALL INTESTINE



Carcinoid of the small intestine: Section of small intestine shows surface ulceration and an infiltrating tumour mass in mucosa and submucosa

Tumour consists of alveolar groups and clumps of small uniform polygonal cells having centrally placed round nuclei and abundant granular cytoplasm.