

الصيدلة	الكلية
العلوم المختبرية السريرية	القسم
Histology	المادة باللغة الانجليزية
علم الانسجة	المادة باللغة العربية
الاولى	المرحلة الدراسية
م.م عذراء بشير راضي	اسم التدريسي
Digestive System	عنوان المحاضرة باللغة الانجليزية
الجهاز الهضمي	عنوان المحاضرة باللغة العربية
السادسة	رقم المحاضرة
Junqueira's Basic Histology: Text and Atlas	المصادر والمراجع

محتوى المحاضرة

- ❖ Mouth (oral cavity)
- ❖ lips
- ❖ pharynx
- ❖ Esophagus
- ❖ Stomach
- ❖ Small intestine
- ❖ Large intestine
- ❖ Association gland (liver, pancreas , Gallbladder and Salivary gland)

Oral Cavity

- ❖ Inner surface of the lips, cheeks, soft palate, surface of tongue and floor of the mouth
 - Nonkeratinized stratified squamous epithelium
 - Gingiva and hard palate
 - Keratinized stratified squamous epithelium
- ❖ Tongue: specialized mucosa with papillae

BASIC PATTERN:

I. Mucosa

a- Epithelium

b- Lamina propria

c- Muscularis Mucosae

2. Submucosa

Submucosal plexus

(Plexus of Meissner)

3. Muscularis Externa

Myenteric plexus

(Plexus of Auerbach)

4. Serous layer Adventitial layer

Esophagus

- ❖ **Mucosa: non-keratinizing stratified squamous**
- ❖ **Submucosa: contains mucous glands**
 - **Increased mucous glands at lower esophagus (GE junction)**
 - **Muscularis externa: inner circular and outer longitudinal**
 - **Contains skeletal muscle fibers**

stomach

1- Cardiac region of the stomach

- ❖ **Mucosa:**

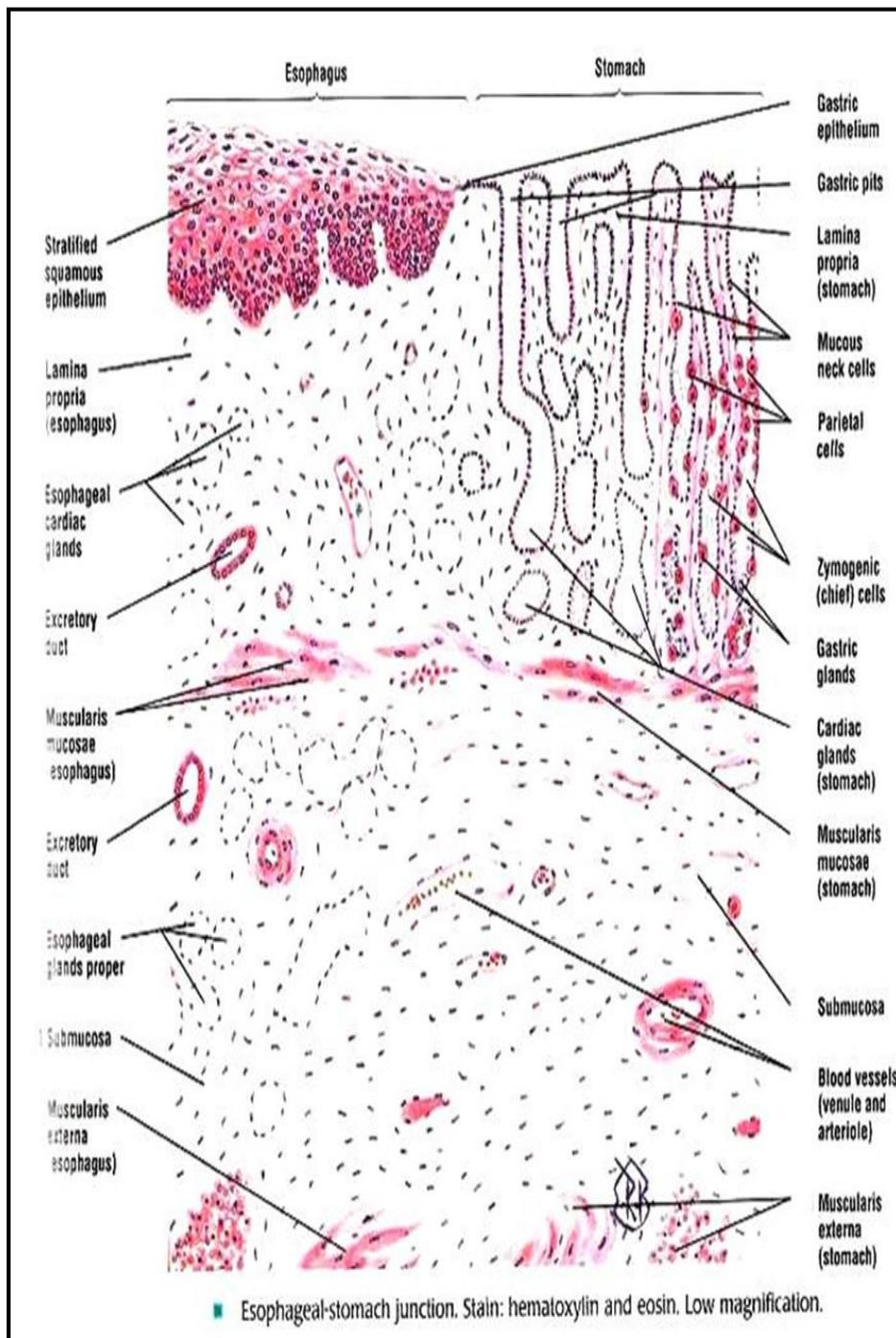
Epithelial lining at the cardio-esophageal junction changes from stratified sq. to simple columnar epithelium

- ❖ **Submucosa:**

Muscularis externa

- **Inner (oblique)**
- **Middle (circular)**
- **Outer (longitudinal)**

- ❖ **Serosa**



2-fundus

- ❖ **Mucosa:** is invaded by **fundic glands**.
 - invaginates to various extents into the lamina propria, forming **gastric pits**.
- ❖ **Submucosa:**
 - Connective tissue containing blood vessels, nerves and Meissner's plexus.
 - **NO glands**.

Muscularis Externa:

- Inner (oblique)
- Middle (circular)
- Outer (longitudinal)
- Auerbach's (myenteric) plexus.

❖ **Serosa:**

- C.T. covered by mesothelium.

3-PYLORUS

❖ **MUCOSA:**

- Pyloric glands
- Gastric pits are deeper
- Glands are short tortuous and branched
- Produce mucus and gastrin
- Muscularis mucosa and Submucosa are similar to fundic part

Small Intestine

It is divided into **duodenum**, **jejunum** and **ileum**.

❖ **Mucosa:**

characteristic features

- **Plicae circularis** (valves of Kerkring)
- **Villi & Microvilli**

Large Intestine

It consists of: **appendix**, **cecum**, **colon**, **rectum** and **anal canal**.

❖ **Mucosa:** Absence of Plicae circulares and villi

- Presence of **Microvilli**
- Presence of **Crypts of Lieberkuhn**
- Presence of **Goblet cells** in large number

❖ **Submucosa:**

Muscularis externa:

- Inner circular layer **thin** compared to small intestine.
- Outer longitudinal layer forms **Taenia coli**.

❖ **Adventitia:**