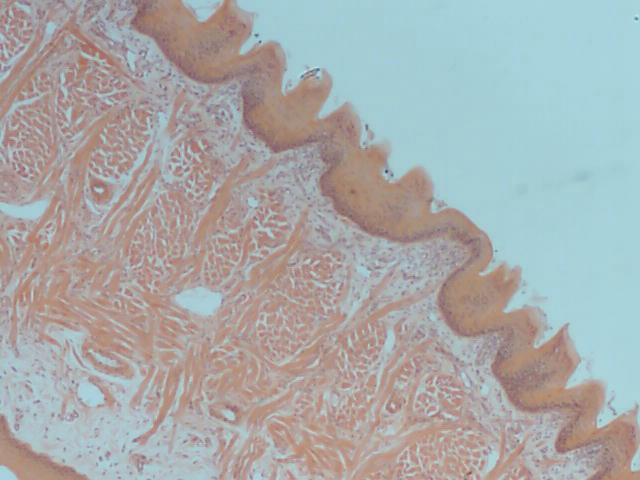
**Practical Histology 1st stage Digestive system Lec.3**

Lec.1



**1-Organ:Tongue.**

The tongue is a mass of striated muscle covered by a mucous membrane (mucosa)that is stratified squamous epithelium , The dorsal surface of the tongue is irregular and covered by a great number of **Papillae.**

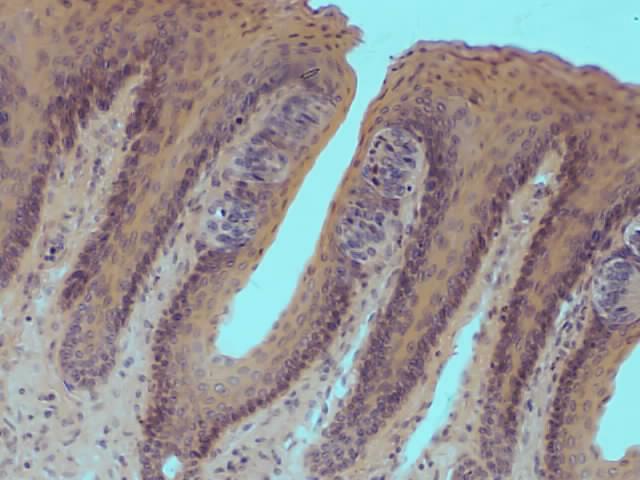
1

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**1-Filiform Papillae:**

**2- Fungiform Papillae:**

**3- Foliate Papillae:**

** 4- Circumvallates Papillae:**

2- **Organ:Tongue**

There is a taste bud onion-shaped structures embedded in the surface of the fungi form, **Filiform** and lateral side of circumvallates papillae. Taste buds contain taste receptor cells.

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3-Organ:Teeth

tooth is composed of

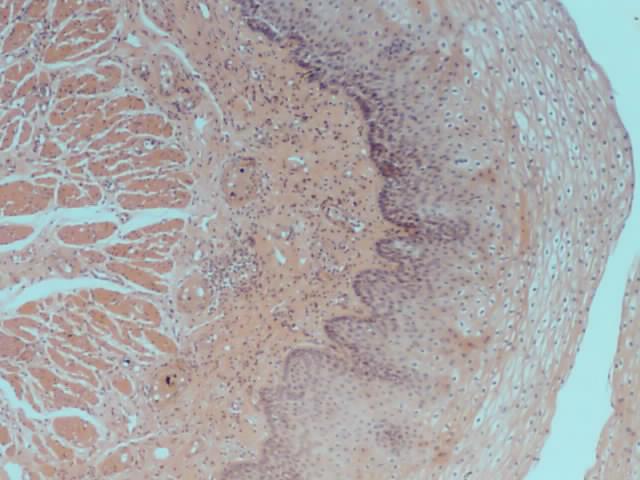
1-Enamel.

2-Dentin.

3-Cementum

4-Dentinoenamel junction.

5-pulp cavity.

a portion that projects above the gingiva called **Crown** covered by **enamel** , **enamel** is not present at the root of the tooth.

4- Organ: Esophagus

The layer:

Mucosa, Sub mucosa, Muscularis and Adventitia.

1-Stratified squamous epithelium.

2-lamina propria thin layer of connective tissue contain small blood vessels and small lymphatic nodules.

3-muscularis mucosa layer of smooth muscle fiber.

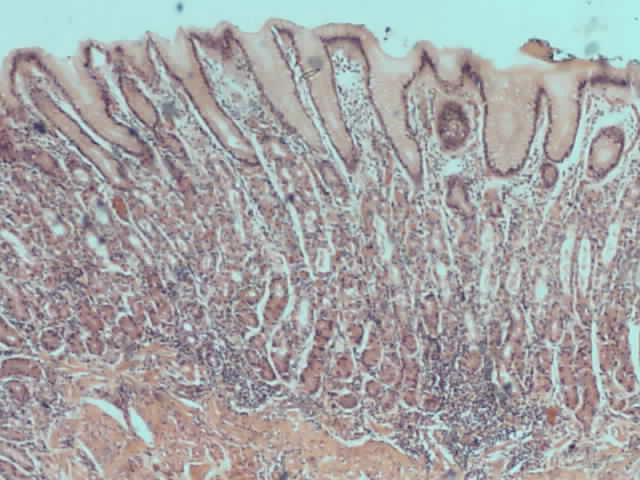
4-sub mucosa has dense irregular connective tissue contains adipose tissue and esophagus gland.

5- The Muscularis externa:2layers inner circular and outer longitudinal muscle layer, at the distal end of the esophagus consists from smooth muscles, and in the mid portion a mixture of striated and smooth muscle ,and the proximal portion only skeletal muscle.

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5- Organ: Stomach

composed grossly from four region cardia, Fundus, body and pylorus .histologically its composed from mucosa , sub mucosa , Muscularis and serosa.

Fundus region

1-mucosa:simple columnar epithelium and there is a gastric pits and cells of gastric gland (parietal cells and chief cells)

2-lamina propria composed of loose C.T.

3- Muscularis mucosa layer of smooth muscle fiber.

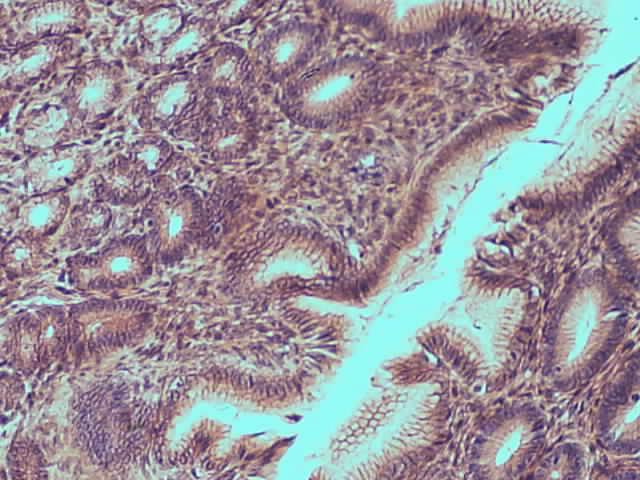
4-sub mucosa has dense irregular connective tissue and contains lymphatic vessels ,capillaries, and arterioles, and venules .

5- The Muscularis externa:3layers of smooth muscle, inner oblique, middle circular and outer longitudinal muscle layer.

6-Serosa:thin layer of connective tissue.

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**pyloric region of the stomach**

a-Mucosa the epithelium is simple columnar the gastric pits extend into the mucosa ,pyloric glands open into the bottom of gastric pits this glands called tubular glands (mucus secretion) .

b-lamina propria :contains diffuse lymphatic tissue and lymphatic nodules.

c-muscular mucosa: individual smooth fibers.

d-sub mucosa :is the dense irregular connective tissue ,blood vessels ,arterioles, and venule.

c-serosa:

in pyloric gland cells producing mucus these cells also secret an enzyme called lysozyme that destroyed bacteria in the stomach.