



**Course Title: Regional and Radiological Anatomy II (RAD 4<sup>th</sup>)**  
**ASSIGNMENT**

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## **Esophagus:**

- It is a narrow muscular tube.
- Esophagus extending from Pharynx to the Stomach.
- Descends in front of vertebral column goes to superior and posterior mediastinum.
- Esophagus begins with lower part of the neck at the inferior border of the Cricoid Cartilage (C6), extending to the cardiac orifice of the stomach (T11).
- It gives passage for chewed food (bolus) and liquids during the third stage and deglutition.

## **Dimensions & Lumen:**

- Length: 25cm (10 inches)
- Width: 2cm
- Lumen: Its flattened anteroposteriorly.

Normally it's kept closed and opens only during the passage of food.

## **Parts of Esophagus:**

- The Esophagus divided into three parts.
  1. Cervical Part (4cm in length): Extend from the lower border of cricoid cartilage to the superior border of manubrium sterni.
  2. Thoracic Part (20cm in length): Extend from superior border of manubrium sterni to the esophageal opening in the diaphragm.
  3. Abdominal Part (1-2cm in length): Extends create esophageal opening in the diaphragm to the cardiac end of the stomach.

## **Anatomical Position of the Esophagus:**

- The esophagus begins in the midline at the level of the lower cricoid border (C6).
- It then deviates to the left at the root of the neck and returns to the midline at T5.

- When it reaches T7, it once again deviates to the left to reach the gastric cardia.
- It passes through the esophageal hiatus of the diaphragm at T10.
- The abdominal part of the esophagus (about 1 cm) forms a groove in the left lobe in the liver.
- It ends at the level of T11 in the gastric cardiac orifice.

### **Arterial Supply of the Esophagus:**

- Cervical Part is by Inferior thyroid arteries.
- The Thoracic part is by esophageal branch of Descending thoracic aorta and Bronchial arteries.
- The Abdominal part is by esophageal branch of Left gastric artery, and Left inferior phrenic arteries.

### **Venous Drainage:**

- Cervical part is drained by inferior thyroid veins.
- Thoracic part is drained by Azygos and hemiazyguos veins.
- Abdominal part is drained by two venous channels,
  - i. Hemiazygos vein, a tributary of inferior vena cava, and
  - ii. Left gastric vein, a tributary of portal vein.

### **Nerve Supply of the Esophagus:**

- The esophagus is supplied by both parasympathetic (laryngeal Nerve) and Sympathetic (Vagus Nerve).

### **Esophagoscopy:**

- It performed to visualize the interior of the esophagus.
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### **Pharynx:**

- Its fibromuscular tube lined with mucous membrane.

- It extends from base of the skull to lower border of cricoid cartilage (C6).
- It is 12-14cm long
- At lower border of cricoid, continues with esophagus.
- Passage for respiration and digestive tracts.
- **Pharynx present opening of**
  - Auditory tubes.
  - Two posterior nares.
  - Larynx.
  - Esophagus.
- **Contains:**
  - Pharyngeal tonsils.
  - Palatine tonsils.
  - Lingual tonsils.
  - Tubal tonsils.

### **Layers in Pharyngeal wall:**

- Mucosa and submucosa.
- Longitudinal muscles.
- Circular muscles, constrictors.
- Pharyngeal plexus of veins and nerves.
- Buccopharyngeal fascia.

### **Muscles of Pharynx:**

- Differ from rest GIT.
- Skeletal muscles.
- Longitudinal muscles.
- Circular muscles.

<b>Muscles</b>	<b>Origin</b>
Stylopharyngeus	Medial side of base of styloid process
Salpingopharyngeus	Inferior aspect of pharyngeal end of pharyngotympanic tube
Palatopharyngeus	Upper surface of palatine aponeurosis

### **Blood Supply-ECA of Pharynx:**

- Ascending pharyngeal A.
- Ascending palatine and tonsillar braches of facial A.
- Maxillary and lingual A.

### **Veins:**

- Superiorly: Pterygoid plexus an infratemporal fossa.
  - Inferiorly: Facial and IJV.
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