Unit V – Problem 3 – Histology: Esophagus



- Esophagus is a soft tube which extends from pharynx to stomach, posterior to the trachea.
- It penetrates the diaphragm, and a short portion is in abdominal cavity before entering the stomach.
- The gastric tube is composed of the following four layers (below are characteristics of each layer concerned with the esophagus):
 - ✓ <u>Mucosa:</u>
 - Stratified squamous non-keratinized epithelium (it will change to nonciliated columnar epithelium with goblet cells in Barret esophagus).
 - Lamina propria contains blood vessels and lymphatic nodules (+ esophageal cardiac glands in the gastroesophageal junction).
 - Muscularis mucosae is composed of longitudinal smooth muscle fibers.
 - ✓ <u>Submucosa:</u>
 - Contains esophageal glands proper, adipose tissue and blood vessels.
 - ✓ <u>Muscularis externa:</u>
 - Consisting of inner circular & outer longitudinal muscle fibers. These muscle fibers are skeletal in the upper third of the esophagus, mixed in the middle third & smooth in the lower third.
 - ✓ Adventitia (this term is applied for the upper part of esophagus) and serosa (this term is applied in the lower part of esophagus):
 - Containing blood vessels, nerves & adipose tissue.

