

DIGESTIVE SYSTEM

MONOMERS:

Fats = Fatty acids and monoglycerides

Proteins = amino acids

Carbohydrates, starches = monosaccharides

DIGESTION

- ➔ Breakdown of food into smaller pieces.
- ➔ Allows absorption to occur.
- ➔ There are two types: Mechanical digestion (stomach) and Chemical digestion (intestine).

DIGESTIVE SYSTEM FUNCTIONS

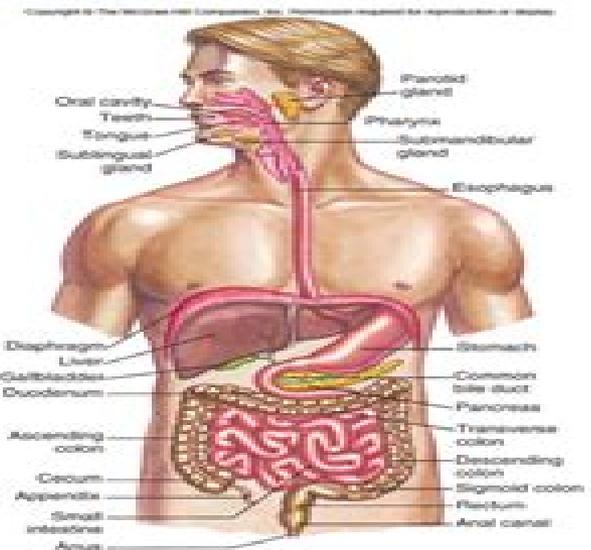
- ➔ Motility: movement of food by peristalsis. Sphincters need to relax.
- ➔ Ingestion by mastication or deglutition.
- ➔ Secretion of exocrine [water, HCl, bicarb, digestive enzymes] and endocrines enzymes [hormones that aid in regulation].

LAYERS OF THE GI TRACT

1. MUCOSA
 - ➔ Absorption and secretion.
 - ➔ Lines lumen.
 - ➔ Composed of simple columnar epithelium, lamina propia, muscularis mucosa.
 - ➔ It is what gets in contact with the food you're eating.
2. SUBMUCOSA
 - ➔ It is a vascular connective tissue layer.
 - ➔ Contains glands and nerve plexuses.
 - ➔ The guts have their own neuron system called Enteric Nervous System, that contains the submucosa plexus and the myenteric plexus.
 - ➔ **Submucosa plexus** is the submucosa that regulates primarily secretion of hormones, enzymes, etcetera.
3. MUSCULARIS EXTERNA
 - ➔ It where segmentation and peristalsis occur to forward movement.
 - ➔ Contains the **Myenteric plexus** is found between the muscle layers, and regulates motility.
 - ➔ Myenteric plexus is the major nerve supply to GI tract, SNS inhibits the myenteric plexus, slows it down; while the PNS stimulates it, speeds it up.
4. SEROSA

Which of the following is true regarding the myenteric plexus?

1. It is found in the submucosa
2. **It helps regulate motility**
3. It is innervated by alpha motor neurons
4. None of the above



Digestive System Diagram Review Sheet 25

Hussin A.Rothana



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