

DIGESTIVE SYSTEM

- With the help of the circulatory system, is like a **gigantic 'meals on wheels'**, serving 100 T customers the nutrients they need
- Has its own quality control and waste disposal methods

FUNCTIONS (IDEA)

1. Ingestion of food.
2. Digestion of food.
3. Elimination of wastes.
4. Absorption of nutrients.

ANATOMY AND HISTOLOGY

Digestive Tract / Gastrointestinal Tract

- Oral cavity, pharynx, esophagus, stomach, small intestine, large intestine, anus

Four Tunics

1. **Mucosa**
 - Innermost tunic
 - Consists of mucous epithelium, lamina propria (loose CT), muscularis mucosae (thin SM layer)
 - Mouth, esophagus, anus; resists abrasion
 - Stomach, intestine; absorbs and secretes
2. **Submucosa**
 - Thick layer of loose CT, consists of nerves, blood vessels, small glands
 - **Plexus** – extensive network of nerve cell processes (innervated by the autonomic nerves)
3. **Muscularis**
 - Consists of circular SM (inner), longitudinal SM (outer)
 - **Enteric nervous system** – composed of the nerve plexuses of the submucosa and muscularis; controls movement and secretion within the tract
4. **Serosa**
 - Outermost layer
 - Consists of the peritoneum (smooth epithelial layer + underlying CT)
 - **Adventitia** – connective tissue; regions of the DT not covered by the peritoneum

Peritoneum

1. **Visceral Peritoneum / Serosa** – serous membrane that covers the organs
2. **Parietal Peritoneum** – serous membrane that covers the wall of the abdominal cavity

Mesenteries – CT sheets that hold the abdominal cavity organs in place

- a. **Lesser omentum** – connects the lesser curvature of the stomach to the liver and diaphragm
- b. **Greater omentum** – connects the greater curvature of the stomach to the transverse colon and posterior body wall

- **Omental bursa** – a long, double fold of mesentery that extends inferiorly from the stomach before looping back to the transverse colon to create a cavity/pocket
- **Mesentery proper** – attaches the small intestine to the posterior abdominal wall

Retroperitoneal – abdominal organs that have no mesenteries; duodenum, pancreas, ascending + descending colon, rectum, kidneys, adrenal glands, urinary bladder

ORAL CAVITY, PHARYNX, AND ESOPHAGUS

Anatomy of Oral Cavity

- Bounded by the lips and cheeks ++ contains the teeth and tongue

Lips – muscular structures formed by the **orbicularis oris muscle**

Cheeks – **buccinator muscles** flatten the cheeks against teeth

Mastication – begins the process of mechanical digestion

Tongue – plays a major role in the process of swallowing; major sensory organ for taste; one of the major organs of speech

- **Frenulum** – thin fold of tissue inferior to the tongue

Teeth

- **32 teeth** in normal adult mouth
- Located in the **mandible** and **maxillae**

1. **Incisor** – to cut
2. **Canine** – to tear
3. **Premolars**
4. **Molars**
5. **Wisdom teeth** – third molars

Permanent teeth – secondary teeth

Primary teeth – deciduous teeth; milk or baby teeth

Parts

- a. **Crown**
- b. **Cusps**
- c. **Neck**
- d. **Root**

Pulp cavity – center of the tooth; contains blood vessels, nerves, and **pulp** (connective tissue)

Dentin – bone-like tissue that surrounds the pulp cavity

Enamel – extremely hard, acellular substance that covers the dentin of the tooth crown

Cementum – covers the surface of the dentin in the root; anchors the tooth in the jaw

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