

Chapter 23: Digestive System

Part 1: Overview

Major Processes

- **Digestion:** Breaks food down into smaller fragments
- **Absorption:** Digested fragments through its lining into blood or lymph
- **Propulsion:** Movement of food via peristalsis
- **Mechanical Breakdown:** Chewing and churning via segmentation
- **Defecation:** Eliminate indigestible substances



GI Tract

- **Membranes:**
 - **Peritoneum:** Serous membranes of the abdominal cavity
 - **Visceral Peritoneum:** Organ's external surface
 - Serosa
 - **Parietal Peritoneum:** Lines body wall
 - **Peritoneal Cavity:** Fluid filled space between two peritoneums
 - **Mesentery:** Double layer peritoneum
 - Provide routes for blood vessels, lymphatics, nerves to reach digestive viscera
 - Holds organs in place
 - Store fat
- **Mucosa**
 - Innermost layer
 - Secrete mucus, digestive enzymes, hormones
 - Absorbs end products of digestion into blood
 - Protect against infectious disease
 - Three Sublayers:
 - **Lining Epithelium (Internal)**
 - Simple columnar epithelium
 - Protects certain digestive organs from being digested via enzymes working within their cavities and eases food passage
 - **Lamina Propria**
 - Loose areolar connective tissue
 - Capillaries nourish the epithelium and absorb digested nutrients
 - Defend against bacteria and other pathogens
 - **Muscularis Mucosae (External)**
 - Smooth muscle cells
 - Produces local movements
 - Enhances absorption and secretion

Anatomy Physiology Chapter 23 The Digestive System

Gerard J. Tortora, Bryan H. Derrickson



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