

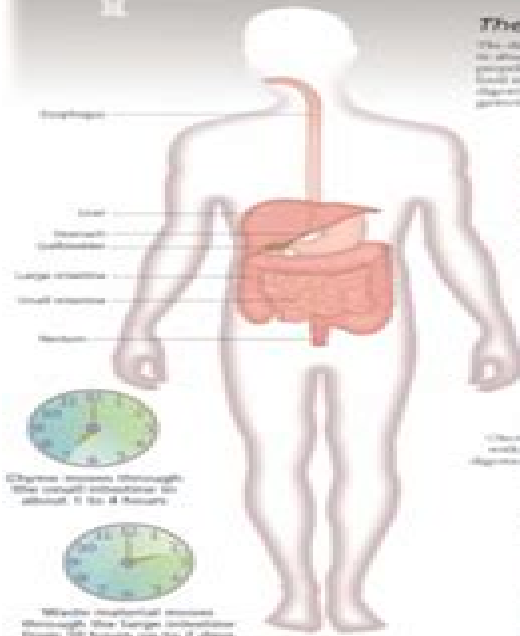


PHYSIOLOGY SERIES

The Digestive Process

The digestive system

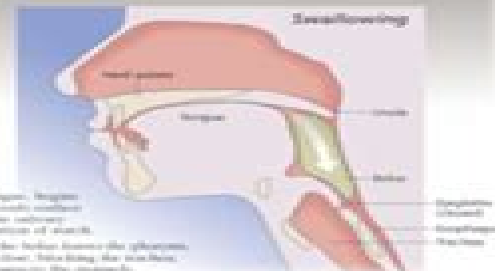
The digestive system, or gastrointestinal tract, is essentially a muscular tube in which most digestion, absorption of nutrients, and elimination takes place. Food enters the mouth, usually in the mouth, is propelled through a series of different accessory and absorptive components. Within these components, food is digested (broken down) by digestive enzymes and components must interact to be absorbed. The digestive system also stores undigested components until they are ready to be expelled at the end of the gastrointestinal tract.



Ingestion

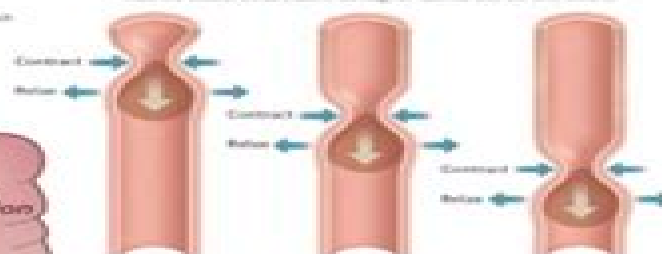
Chewing & swallowing

Chewing, the mechanical action of the mouth and tongue, begins the breakdown of solid food. This greatly increases food's surface area and exposes the food more fully to enzymes of the salivary glands. Saliva softens the food and begins the digestion of starch. The mixture of food and saliva is called a *bolus*. In the bolus, the pharynx, the esophagus, a flap-like valve, and the vocal cord contract, forcing the bolus forward, where it moves down through the esophagus to the stomach.

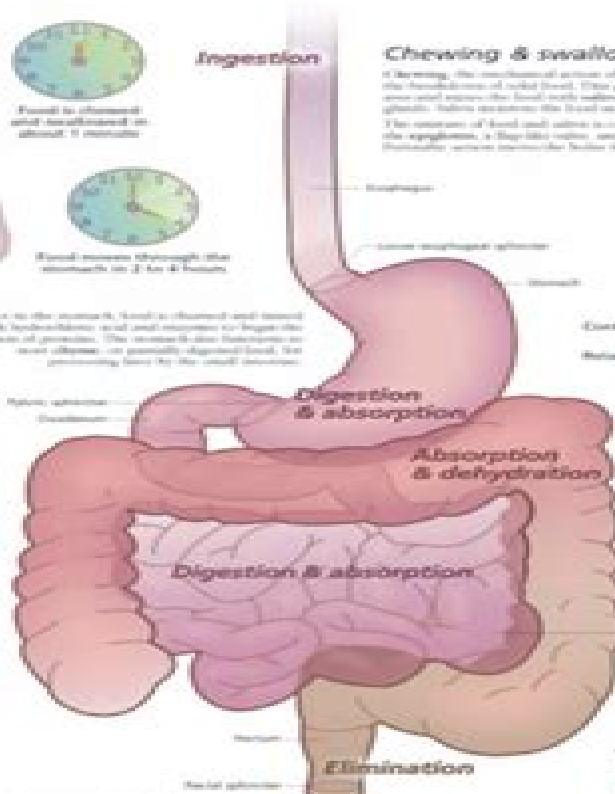


Peristaltic action

Material is moved through the digestive system by a series of smooth muscle contractions called peristalsis. The muscle is relaxed in the material contents, while the muscle ahead contracts, forcing the material into the next section.



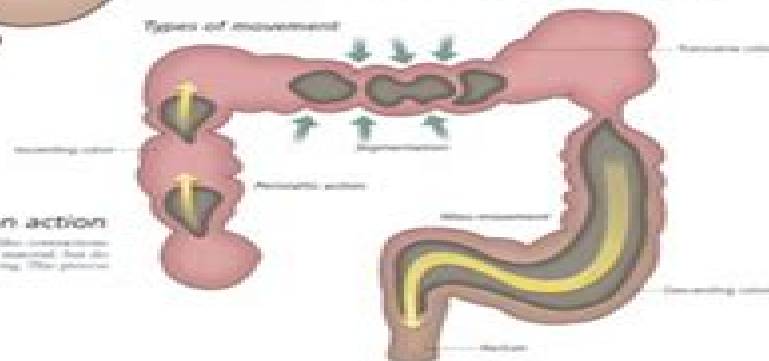
In the esophagus, material moves through the large intestine, where and absorption are affected (absorption). This movement is called peristalsis.



Colonic movement

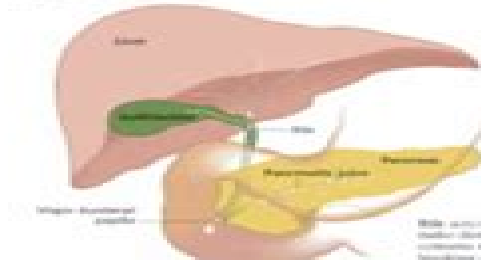
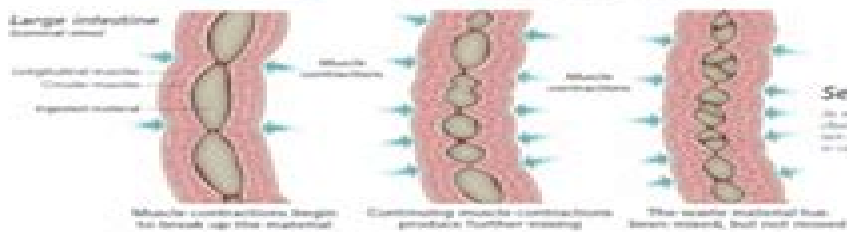
Movement through the large intestine is accomplished through the contractions of the longitudinal and circular muscles. Types of movement include peristaltic action, segmental action, and mass movement. Movement of food through the large intestine is slower than through the small intestine, allowing for reabsorption of water.

Types of movement



Segmentation action

In regular intervals, ring-like contractions (chase and pass the water material) that do not move the material along. This process is called segmentation.



Bile enters the small intestine and helps to break down fats into smaller particles. Pancreatic juice contains enzymes that digest proteins, breaking down food, proteins and carbohydrates.

Anatomy And Physiology Digestive System

Jianjun Gao



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