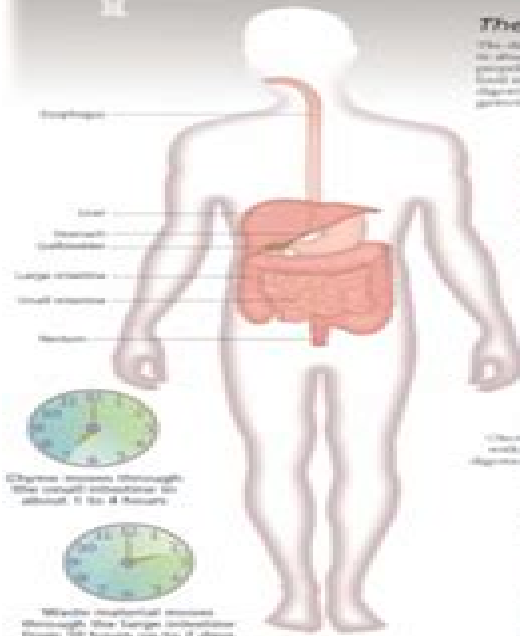




The Digestive Process

The digestive system

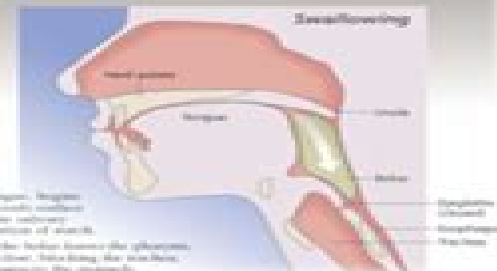
The digestive system, or gastrointestinal tract, is essentially a muscular tube in which food is broken down by the action of enzymes and chemical substances. Food enters the mouth, is chewed, and is propelled through a series of different accessory and absorptive components. Within these components, food is digested (broken down) by digestive enzymes and components that absorb it. The digestive system also stores undigested components until they are ready to be expelled at the end of the gastrointestinal tract.



Ingestion

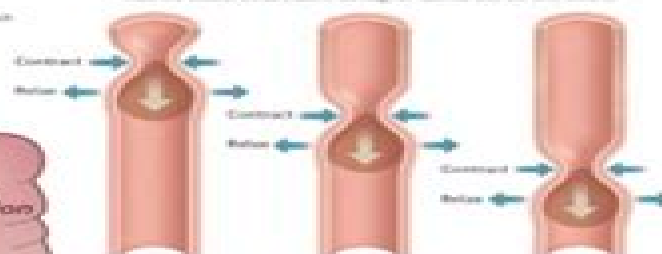
Chewing & swallowing

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 to the action of the salivary glands. Saliva contains 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 into the stomach through the esophagus.



Peristaltic action

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

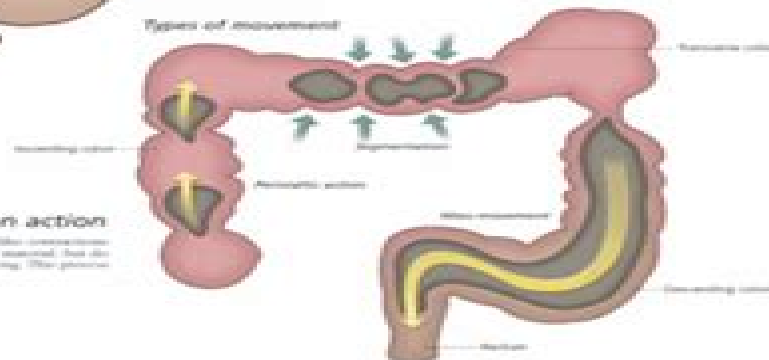


In the peristaltic action, the material moves through the large intestine, where it is absorbed and the waste is expelled. This is called defecation.

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 absorption of water.

Types of movement



Segmentation action

In regular intervals, ring-like contractions (called segmentation) occur and mix the waste material. This is called segmentation.

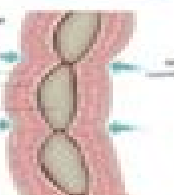
Large intestine

Large intestine (colon)

Longitudinal muscle (taenia coli)

Transverse muscle (circular muscle)

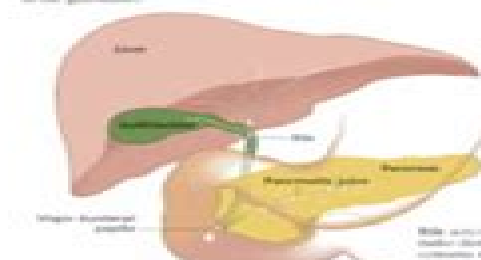
Segmental action



Muscle contractions begin to break up the material

Continuing muscle contractions produce further mixing

The waste material has been mixed, but not moved



Bile enters the small intestine and helps to break down fats. The pancreas produces enzymes that help to break down food, proteins and carbohydrates.

Small intestine

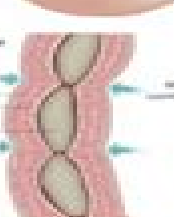
Small intestine

Longitudinal muscle (taenia coli)

Transverse muscle (circular muscle)

Segmental action

Mass movement



Muscle contractions begin to break up the material

Continuing muscle contractions produce further mixing

The waste material has been mixed, but not moved

Anatomy And Physiology Digestive System

Margaret E. Smith, Dion G. Morton



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Table of Contents Anatomy And Physiology Digestive System

1. Understanding the eBook Anatomy And Physiology Digestive System
 - The Rise of Digital Reading Anatomy And Physiology Digestive System
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy And Physiology Digestive System
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Anatomy And Physiology Digestive System
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy And Physiology Digestive System
 - Personalized Recommendations
 - Anatomy And Physiology Digestive System User Reviews and Ratings
 - Anatomy And Physiology Digestive System and Bestseller Lists

5. Accessing Anatomy And Physiology Digestive System Free and Paid eBooks
 - Anatomy And Physiology Digestive System Public Domain eBooks
 - Anatomy And Physiology Digestive System eBook Subscription Services
 - Anatomy And Physiology Digestive System Budget-Friendly Options
6. Navigating Anatomy And Physiology Digestive System eBook Formats
 - ePub, PDF, MOBI, and More
 - Anatomy And Physiology Digestive System Compatibility with Devices
 - Anatomy And Physiology Digestive System Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anatomy And Physiology Digestive System
 - Highlighting and Note-Taking Anatomy And Physiology Digestive System
 - Interactive Elements Anatomy And Physiology Digestive System
8. Staying Engaged with Anatomy And Physiology Digestive System
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anatomy And Physiology Digestive System
9. Balancing eBooks and Physical Books Anatomy And Physiology Digestive System
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anatomy And Physiology Digestive System
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Anatomy And Physiology Digestive System
 - Setting Reading Goals Anatomy And Physiology Digestive System
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Anatomy And Physiology Digestive System
 - Fact-Checking eBook Content of Anatomy And Physiology Digestive System
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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