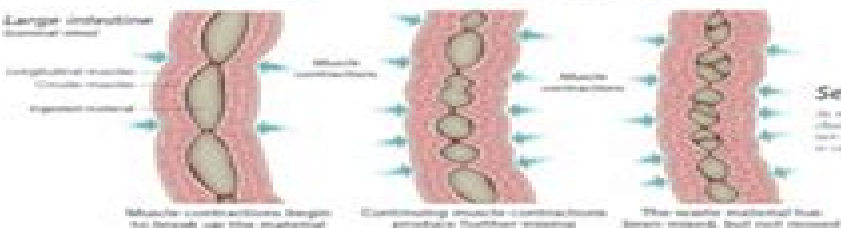
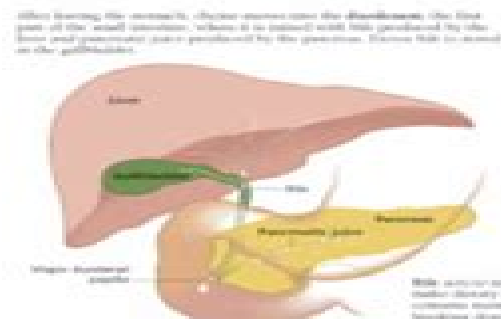
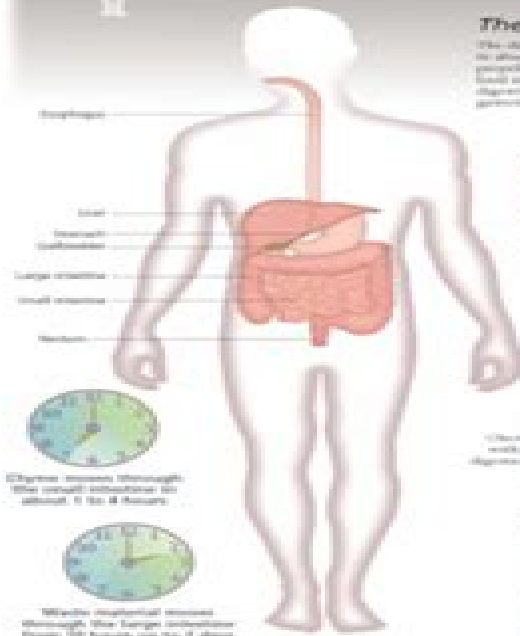




The Digestive Process

The digestive system

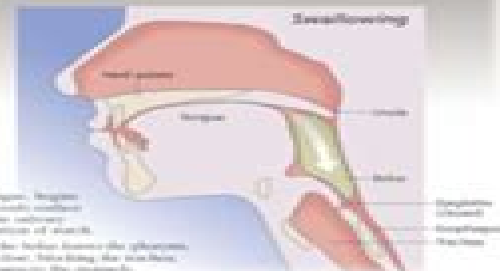
The digestive system, or gastrointestinal tract, is essentially a muscular tube in which food is broken down into absorbable nutrients and eliminated as waste. Food enters the mouth, is chewed and swallowed, passes through the stomach and small intestine, is absorbed in the large intestine, and is eliminated as waste. The digestive system also stores undigested components until they are ready to be expelled at the end of the gastrointestinal tract.



Ingestion

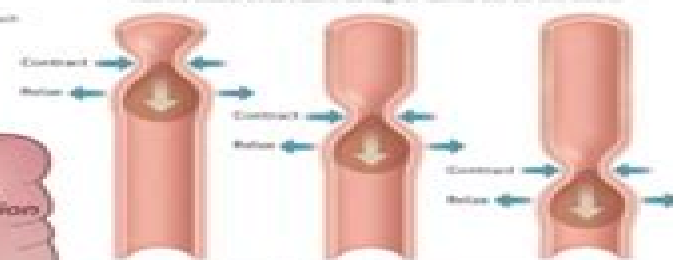
Chewing & swallowing

Chewing, the mechanical action of the mouth and tongue, begins the breakdown of solid food. The tongue presses food against the roof of the mouth, and the teeth grind it into smaller pieces. The tongue also presses the food against the roof of the mouth to begin the digestion of starch. The mixture of food and saliva is called a *bolus*. In the bolus, the tongue presses the food against the roof of the mouth, and the tongue presses the food against the roof of the mouth to begin the digestion of starch. The mixture of food and saliva is called a *bolus*. In the bolus, the tongue presses the food against the roof of the mouth, and the tongue presses the food against the roof of the mouth to begin the digestion of starch.



Peristaltic action

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

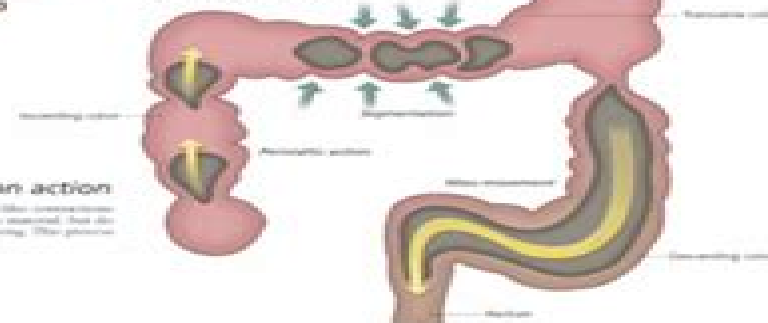


In the digestive tract, material moves through the large intestine, where it is absorbed and eliminated as waste. The material is moved forward and backward continuously.

Colonic movement

Material moves through the large intestine in a regulated fashion, with the material moving forward and backward continuously. The material is moved forward and backward continuously.

Types of movement



Segmentation action

In regular intervals, the large intestine contracts and moves the waste material. This is called segmentation.

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Gastrointestinal Anatomy and Physiology John F. Reinus, Douglas Simon, 2014-03-04 Gastroenterologists require detailed knowledge regarding the anatomy of the GI system in order to understand the disturbances caused by diseases they diagnose and treat *Gastrointestinal Anatomy and Physiology* will bring together the world's leading names to present a comprehensive overview of the anatomical and physiological features of the gastrointestinal tract Full colour and with excellent anatomical and clinical figures throughout it will provide succinct authoritative and didactic anatomic and physiologic information on all the key areas including GI motility hepatic structure GI hormones gastric secretion and absorption of nutrients GI trainees will enjoy the self assessment MCQs written to the level they will encounter during their Board exams and the seasoned gastroenterologist will value it as a handy reference book and refresher for re certification exams

The Digestive System Margaret E. Smith, Dion G. Morton, 2011-11-18 This is an integrated textbook on the digestive system covering the anatomy physiology and biochemistry of the system all presented in a clinically relevant context appropriate for the first two years of the medical student course One of the seven volumes in the *Systems of the Body* series Concise text covers the core anatomy physiology and biochemistry in an integrated manner as required by system and problem based medical courses The basic science is presented in the clinical context in a way appropriate for the early part of the medical course

The Digestive System Ian Peate, 2025-03-10 A concise illustrated and accessible guide to the digestive system Each of the twelve volumes in Peate's *Body Systems* series is rooted in the belief that a deep and thorough understanding of the human body is essential for providing the highest standard of care Offering clear accessible and up to date information on different body systems this series bridges the gap between complex scientific concepts and practical everyday applications in health and care settings This series makes for an invaluable resource for those committed to understanding the intricacies of human biology physiology and the various systems that sustain life The *Digestive System* is the perfect companion for students and newly registered practitioners across nursing and allied health fields with an interest in gastrointestinal care providing a comprehensive yet easy to digest guide for both academic and clinical application Equips healthcare students and practitioners with the necessary information to provide safe and competent care Features colourful illustrations to aid comprehension clarify complicated concepts and render content more engaging and accessible Empowers readers to adapt to a rapidly evolving healthcare landscape preparing them for the future of healthcare delivery Contains information necessary for effective patient care of those with peptic ulcers inflammatory bowel disease and other gastrointestinal diseases and conditions

Food Digestion and Absorption C Anandharamakrishnan, Jeyan Arthur Moses, S Priyanka, 2023-11-29 Focusing on the complexity of the food digestion process from oral cavity to intestine this book looks at the anatomical intricacies of the digestive system techniques currently used to study food digestibility the glycemic index and bioavailability of food components It also provides a detailed understanding of various modification techniques critical to any

food product development such as modification of food structure its composition and size Being the first of its kind to provide an in depth idea of various stages of food digestion whilst linking it with approaches in modifying foods so as to cater to specific food or functional requirements the book provides an integrated approach Existing methods to understand the process of food digestion and advances in artificial systems that have been used for such studies are presented substantiated with findings from scientific publications Apart from readers from the field of medicine this book is highly inter disciplinary and will attract readers from food science nutrition and food physics

The Netter Collection of Medical Illustrations: Digestive System, Volume 9, Part II - Lower Digestive Tract - E-Book James C. Reynolds, Peter J. Ward, Suzanne Rose, Missale Solomon, 2024-05-27 Offering a concise highly visual approach to the basic science and clinical pathology of the digestive system this updated volume in The Netter Collection of Medical Illustrations the CIBA Green Books contains unparalleled didactic illustrations reflecting the latest medical knowledge Revised by Drs James C Reynolds Peter J Ward Suzanne Rose Missale Solomon and Christopher Steele Lower Digestive Tract Part 2 of the Digestive System Volume 9 integrates core concepts of anatomy physiology and other basic sciences with common clinical correlates across health medical and surgical disciplines Classic Netter art updated and new illustrations and modern imaging continue to bring medical concepts to life and make this timeless work an essential resource for students clinicians and educators Provides a highly visual guide to the small bowel and colon in a single source from basic sciences and normal anatomy and function through pathologic conditions Offers expert coverage of new topics including gut microbiome colon cancer screening guidelines and lower gastrointestinal bleeds Provides a concise overview of complex information by integrating anatomical and physiological concepts with clinical scenarios Compiles Dr Frank H Netter's master medical artistry an aesthetic tribute and source of inspiration for medical professionals for over half a century along with new art in the Netter tradition for each of the major body systems making this volume a powerful and memorable tool for building foundational knowledge and educating patients or staff NEW An eBook version is included with purchase The eBook allows you to access all of the text figures and references with the ability to search make notes and highlights and have content read aloud

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