

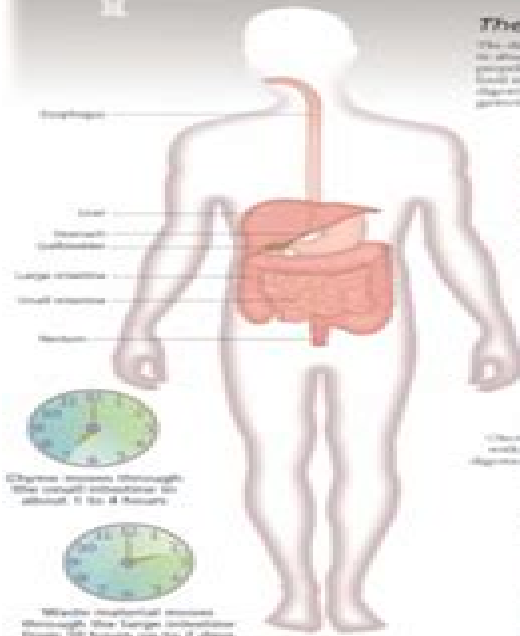


PHYSIOLOGY SERIES

The Digestive Process

The digestive system

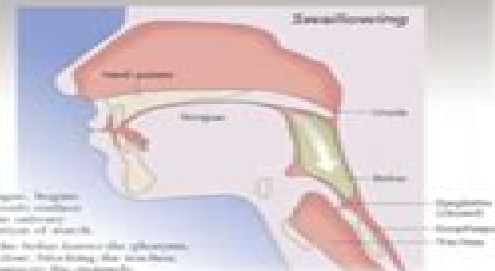
The digestive system, or gastrointestinal tract, is essentially a muscular tube in which food is broken down by the action of enzymes and chemical substances. Food enters the mouth, is chewed, and is propelled through a series of different accessory and absorptive components. Within these components,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



Ingestion

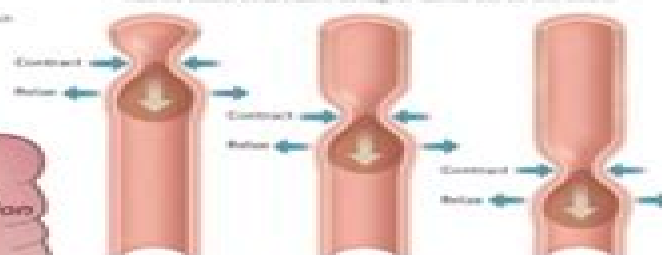
Chewing & swallowing

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 above contracts, forcing the material into the next section.

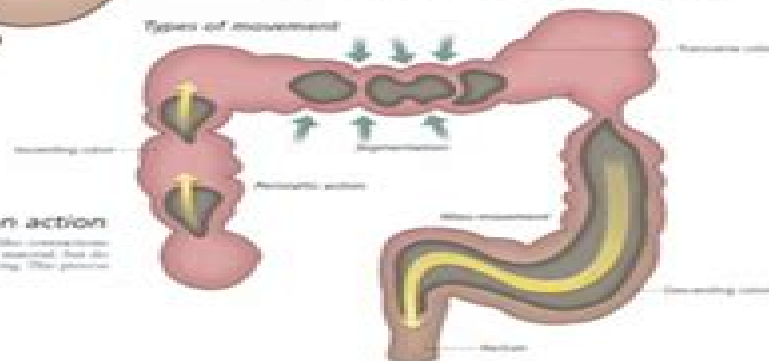


In the esophagus, material moves through the large intestine, where it is absorbed and excreted as waste. The remaining mass is moved forward and upward in the colon.

Colonic movement

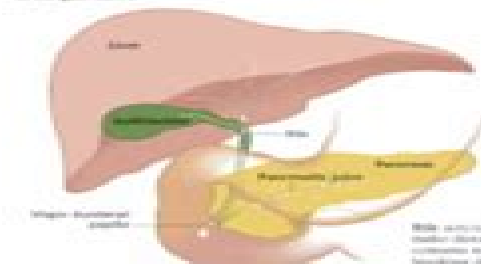
Movement through the large intestine is accomplished through the contractions of the longitudinal and circular muscles. Types of movement include peristaltic action, segmental action, and mass movement. Movement of food through the large intestine is slower than through the small intestine, allowing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

Types of movement



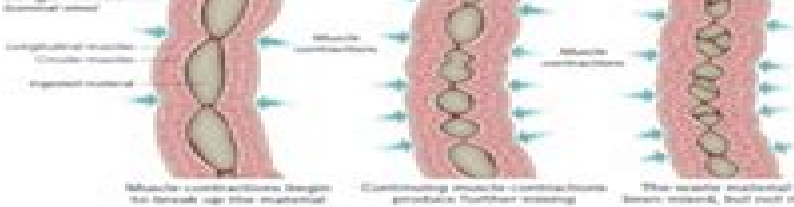
Segmentation action

In regular intervals, ring-like contractions (called segmentation) occur and mix the waste material. This is the most common type of movement in the large intestine.



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

Large intestine



Anatomy And Physiology Digestive System

Charles Wright Dodge



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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 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

The Netter Collection of Medical Illustrations: Digestive System, Volume 9, Part I - Upper Digestive Tract E-Book James C. Reynolds, Peter J. Ward, David A. Katzka, Henry Parkman, Michele A. Young, 2024-03-11 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 David A Katzka Henry P Parkman and Michele A Young Upper Digestive Tract Part 1 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 mouth pharynx esophagus and

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James C. Reynolds, 2016-03-24 Upper Digestive Tract 2nd Edition part 1 in the 3 book Digestive System volume provides a concise and highly visual approach to the basic sciences and clinical pathology of the mouth pharynx esophagus and stomach This book in The Netter Collection of Medical Illustrations the CIBA Green Books has been expanded and revised to capture current perspectives in gastroenterology from normal anatomy and physiology through pathophysiology diagnostics and treatment Radiologic and pathologic images supplement the classic Netter illustrations as well as new illustrations Highlights include neurophysiology and electrical physiology of normal gastric function and disease Barrett's esophagus eosinophilic esophagus and imaging and physiologic complexities of swallowing Gain a rich comprehensive overview of the upper digestive tract by seeing classic Netter illustrations side by side with cutting edge radiologic and endoscopic images Explore key topics in gastroenterology including tumors of salivary glands microbiota diagnostic aids and postgastrectomy complications See modern issues in digestive health and disease bariatric surgery IBS and GERD captured in the visually rich Netter artistic tradition via contributions from artists working in the Netter style Get complete integrated visual guidance on the mouth pharynx esophagus and stomach in a single source from basic sciences and normal anatomy and function through pathologic conditions Benefit from the knowledge of a team of renowned clinicians and scientists **The Netter Collection of Medical Illustrations: Digestive System, Volume 9, Part II - Lower Digestive Tract - E-Book** James C.

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The Indigestions ; or, Diseases of the digestive organs functionally treated Thomas King Chambers, 1870

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digestion peristalsis segmentation and the role of enzymes and hormones in breaking down food Key topics include absorption of nutrients bile production liver function pancreatic enzymes and the importance of villi and microvilli Nutrition is explored through macronutrients like carbohydrates proteins and lipids as well as micronutrients such as vitamins and minerals The text also covers conditions like gastritis jaundice cirrhosis pancreatitis and gallstones while examining processes such as glycogenesis glycogenolysis and metabolism This book will interest students health science learners and those studying anatomy and physiology who want to understand the digestive system and the role of nutrition in maintaining health

The Health Sciences Audiovisual Resource List University of Connecticut. Health Center,1978 The Big Slide Nicholas F. Prayson,Richard A. Prayson,2015 The human digestive system plays an important role in processing food in order to provide nutrients that the body can use This well illustrated text presents the basics of anatomy physiology and disease of the human digestive system by answering a series of questions relevant to the various components of this system For example in studying the stomach the following questions are examined 1 Where is the stomach located 2 What does the stomach look like 3 What does the stomach do 4 Where do gastric juices come from 5 What causes ulcers 6 What causes a stomach ache and 7 What causes burping Additionally most chapters are filled with unusual trivia related to the part of the body being discussed For example there was a 42 year old woman who complained of mild abdominal pain and had 2533 objects removed from her stomach including 947 pins The text provides a fun and interesting way to learn more about the digestive system The text is ideal whether you are looking for an entertaining and informative read on the workings of the human digestive tract or looking for a text or resource for biology or health classes

Introduction to Elementary Practical Biology Charles Wright Dodge,1894 Learning Directory ,1970 *Introduction to Anatomy & Physiology 2* Tommy Mitchell (Physician),2018-09-25 The vital resource for grading all assignments from the Introduction to Anatomy Physiology 2 course which includes Instruction on the nervous system this master control system of the body and the digestive system and metabolic processes that help give us the strength and energy we need each day Assessments including worksheets quizzes and tests are given at regular intervals with space to record each grade OVERVIEW The introduction to anatomy and physiology continues as students are given a deeper understanding of God s wonderful design of their bodies How do just the correct muscles know how to contract in just the right way to allow us to walk How can we control the movements of our hands in a very precise fashion so that we can brush our teeth How can we decipher those funny marks on a printed page understand that they are letters and punctuation marks and make sense of them How can we hear others singing and make our voices match theirs How does the cereal you had for breakfast become energy Or the popcorn you had at the ballgame How does the chicken you had for supper provide the amino acids the body needs to build proteins These questions and more are answered as we look into the wonders of God s awesome creation which can only be truly understood as a product of the Master Designer FEATURES The calendar provides 5 lessons weekly with clear objectives and the

worksheets quizzes and tests are all based on the readings from the two books **Massage Therapy** Susan G. Salvo, 2015-04-13 Covering massage fundamentals techniques and anatomy and physiology Susan Salvo's *Massage Therapy Principles and Practice* 5th Edition brings a whole new meaning to the word comprehensive This student friendly text boasts more than 700 illustrations and expanded sections on neuroscience research and special populations plus new line drawings in the kinesiology chapter of origins and insertions that match the painted skeletons found in most classrooms It makes the essential principles of massage therapy more approachable and prepares you for success in class on licensing and board certification exams and in a wide range of therapeutic practice settings Clear straightforward approach simplifies complex content for easier understanding Complete anatomy and physiology section in addition to material on techniques and foundations gives you all the information you need in just one book Certification Practice Exam on Evolve mimics the major certification exams in format and content builds confidence and helps increase pass rates Over 700 high quality illustrations including line drawings and halftones clarify difficult concepts in vibrant detail Case studies challenge you to think critically and apply your understanding to realistic scenarios foster open mindedness and stimulate dialogue Profile boxes provide an inspirational real world perspective on massage practice from some of the most respected authorities in massage and bodywork Clinical Massage chapter focuses on massage in clinical settings like hospitals nursing homes and medical offices to broaden your career potential Two business chapters loaded with skills to make you more marketable and better prepared for today's competitive job market Video icons refer you to the Evolve site featuring about 120 minutes of video covering techniques routines client interaction sequences and case studies that facilitate the learning process and the practical application of the material Evolve icons listed in each chapter encourage you to go beyond the lecture and reading assignments and learn more on the Evolve site Evolve boxes at the end of each chapter list Chapter Extras found on Evolve that reinforce concepts learned in the chapter NEW Revised line drawing color scheme for origin and insertion matches the painted skeleton found in most classrooms maintains consistency and prevents confusion in learning origin and insertion points on the body NEW Coverage of Thai massage provides up to date content on the most useful in demand modalities that are most often requested by clients and better prepares you for what you will encounter during training and practice NEW Updated text reflects changes to the new board certification exam so you have the most up to date relevant information and are fully prepared to pass the current exams NEW Brand new Think About It Webquest and Discussion features in each chapter's Test Your Knowledge section build your vocabulary usage and critical thinking skills necessary for day to day work with clients EXPANDED More content on pain theories the neuromatrix model and pain management plus updated guidelines for massage after surgery and injury equips you with essential information when working in rehab NEW Updated instructor resources featuring more TEACH lesson plan classroom activities and an additional 500 test questions provide instructors with more ways to interact with and test students **THE PHRENOLOGICAL MAGAZINE: A JOURNAL OF EDUCATION**

AND MENTAL SCIENCE. ALFRED T. STORY,1882 *The Gastrointestinal System at a Glance* Satish Keshav,Adam Bailey,2012-11-05 This concise introduction to the gastrointestinal system encapsulates the fundamental facts and principles of this rapidly growing and changing specialty Written by experienced clinicians and teachers the text covers the basic concepts of both the science surrounding the gastrointestinal system and the basics of clinical practice in an accessible lucid format Now fully supported by a companion website at www.ataglanceseries.com/gastro containing interactive MCQs and downloadable digital flashcards The Gastrointestinal System at a Glance is the ideal revision aid for medical and allied health students and provides valuable insight for anyone seeking a comprehensive and concise guide to this subject area Fully revised and updated to include further coverage of diagnostic and therapeutic endoscopy revised liver chapters and a new chapter on embryology Now in full colour throughout Supported by a companion website containing interactive self assessment and digital flashcards perfect for both study and revision Provides an integrated approach to both the basic and clinical science of this core specialty

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