

PHYSIOLOGY OF THE GASTROINTESTINAL TRACT

Volume 1

FIFTH EDITION

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Jackie Wood



Physiology Of The Gastrointestinal Tract Fifth Edition

Hamid M. Said



Physiology Of The Gastrointestinal Tract Fifth Edition

Physiology of the Gastrointestinal Tract, Two Volume Set Hamid M. Said, 2012-07-04 Physiology of the Gastrointestinal Tract Fifth Edition winner of a 2013 Highly Commended BMA Medical Book Award for Internal Medicine covers the study of the mechanical physical and biochemical functions of the GI Tract while linking the clinical disease or disorder bridging the gap between clinical and laboratory medicine The gastrointestinal system is responsible for the breakdown and absorption of various foods and liquids needed to sustain life Other diseases and disorders treated by clinicians in this area include food allergies constipation chronic liver disease and cirrhosis gallstones gastritis GERD hemorrhoids IBS lactose intolerance pancreatic appendicitis celiac disease Crohn s disease peptic ulcer stomach ulcer viral hepatitis colorectal cancer and liver transplants The new edition is a highly referenced and useful resource for gastroenterologists physiologists internists professional researchers and instructors teaching courses for clinical and research students 2013 Highly Commended BMA Medical Book Award for Internal Medicine Discusses the multiple processes governing gastrointestinal function Each section edited by preeminent scientist in the field Updated four color illustrations

Physiology of the Gastrointestinal Tract, Two Volume Set Hamid M. Said, 2012-05-14 Physiology of the Gastrointestinal Tract Fifth Edition winner of a 2013 Highly Commended BMA Medical Book Award for Internal Medicine covers the study of the mechanical physical and biochemical functions of the GI Tract while linking the clinical disease or disorder bridging the gap between clinical and laboratory medicine The gastrointestinal system is responsible for the breakdown and absorption of various foods and liquids needed to sustain life Other diseases and disorders treated by clinicians in this area include food allergies constipation chronic liver disease and cirrhosis gallstones gastritis GERD hemorrhoids IBS lactose intolerance pancreatic appendicitis celiac disease Crohn s disease peptic ulcer stomach ulcer viral hepatitis colorectal cancer and liver transplants The new edition is a highly referenced and useful resource for gastroenterologists physiologists internists professional researchers and instructors teaching courses for clinical and research students 2013 Highly Commended BMA Medical Book Award for Internal Medicine Discusses the multiple processes governing gastrointestinal function Each section edited by preeminent scientist in the field Updated four color illustrations

Physiology of the Gastrointestinal Tract Hamid M. Said, 2018-03-08 Physiology of the Gastrointestinal Tract Sixth Edition a Two Volume set covers the study of the mechanical physical and biochemical functions of the GI Tract by linking clinical disease and disorder thus bridging the gap between clinical and laboratory medicine while also covering breakthroughs in gastroenterology such as the brain gut axis and microbiome Additionally information is provided at the organism level including animal models of gastrointestinal disorders and therapeutic possibilities The book covers a wide range of conditions from food allergies constipation chronic liver disease and IBS also exploring emerging techniques to diagnose and normalize functions of the GI tract As a highly referenced book this is a useful resource for gastroenterologists physiologists internists professional researchers and instructors teaching courses for clinical and research students Discusses the multiple processes governing gastrointestinal function Presents new information on the brain gut axis and microbiome Edited by preeminent scientists in the field Includes coverage of issues such as food allergies constipation chronic liver disease IBS Crohn s disease and more

Physiology of the Gastrointestinal Tract Kim E. Barrett, Faye K. Ghishan, Juanita L. Merchant, Hamid M. Said, Jackie D. Wood, 2006-05-10
FROM THE PREFACE The original purpose of the First Edition of *Physiology of the Gastrointestinal Tract* to collect in one set of volumes the most current and comprehensive knowledge in our field was also the driving force for the Fourth Edition The explosion of information at the cellular level made possible in part by the continued emergence of powerful molecular and cellular techniques has resulted in a greater degree of revision than that of any other edition The first section now titled *Basic Cell Physiology and Growth of the GI Tract* contains numerous new chapters on topics such as transcriptional regulation signaling networks in development apoptosis and mechanisms in malignancies Most of the chapters in this section were edited by Juanita L Merchant Section II has been renamed *Neural Gastroenterology and Motility* and has been expanded from seven chapters with rather classic titles to more than twenty chapters encompassing not only the movement of the various parts of the digestive tract but also cell physiology neural regulation stress and the regulation of food intake Almost all of the chapters were recruited and edited by Jackie D Wood The third section is entirely new and contains chapters on *Immunology and Inflammation* which were edited by Kim E Barrett The fourth section on the *Physiology of Secretion* consists of chapters with familiar titles but with completely updated information to reflect the advances in our understanding of the cellular processes involved in secretion The last section on *Digestion and Absorption* contains new chapters on the intestinal barrier protein sorting and ion channels along with those focusing on the uptake of specific nutrients These chapters were recruited and edited by Hamid M Said and Faye K Ghishan Collected in one set the most current and comprehensive coverage of gastrointestinal physiology Information presented in a style that is both readable and understandable Valuable to the specialized researcher the clinical gastroenterologist the teacher and the student Features an entirely new section on *Immunology and Inflammation* Each section edited by the preeminent scientist in the field

Gastrointestinal Physiology Leonard R. Johnson, PhD, 2013-08-30 *Gastrointestinal Physiology* a volume in the *Mosby Physiology Monograph Series* explains the fundamentals of gastrointestinal physiology in a clear and concise manner Ideal for your systems based curriculum this fully updated medical textbook provides you with a basic understanding of how the GI system functions in both health and disease Stay current with clear accurate and up to the minute coverage of the physiology of the gastrointestinal system focusing on the needs of the student Bridge the gap between normal function and disease with gastrointestinal pathophysiology content throughout the book Master the material more easily with learning objectives at the start of each chapter overview boxes key words and concepts chapter summaries and physiology review questions at the end of the book Understand complex concepts by examining clear 2 color diagrams Apply what you ve learned to real life clinical situations with the aid of featured clinical cases with questions and explained answers Consult the book online at *Student Consult* where you can perform quick searches add your own notes and bookmarks and more Stay abreast of the latest research and findings in physiology with coverage of the physiological significance of gastrointestinal peptides the regulation of mucosal growth and cancer details surrounding acid secretion and peptic ulcers and more Access new gastrointestinal information on the regulation of pancreatic secretion and gallbladder contraction the transport processes for the absorption of nutrients facts about fat absorption and the regulation of food intake

Gastrointestinal Physiology E-Book Leonard R. Johnson,2018-08-18 Gain a foundational understanding of gastrointestinal physiology and how the GI system functions in health and disease *Gastrointestinal Physiology* a volume in the Mosby Physiology Series explains the fundamentals of this complex subject in a clear and concise manner while helping you bridge the gap between normal function and disease with pathophysiology content throughout the book Helps you easily master the material in a systems based curriculum with learning objectives Clinical Concept boxes highlighted key words and concepts chapter summaries self study questions and a comprehensive exam Keeps you current with recent advances in gastrointestinal physiology with coverage of the physiological significance of gastrointestinal peptides the regulation of mucosal growth and cancer details surrounding acid secretion and peptic ulcers and more Includes clear 2 color diagrams that simplify complex concepts Features clinical commentaries that show you how to apply what you ve learned to real life clinical situations Covers the regulation of pancreatic secretion and gallbladder contraction the transport processes for the absorption of nutrients facts about fat absorption and the regulation of food intake Complete the Mosby Physiology Series Systems based and portable these titles are ideal for integrated programs Blaustein Kao Matteson Cellular Physiology and Neurophysiology Cloutier Respiratory Physiology Koeppen Stanton Renal Physiology Pappano Weir Cardiovascular Physiology White Harrison Mehlmann Endocrine and Reproductive Physiology Hudnall Hematology A Pathophysiologic Approach

Physiology of the Gastrointestinal Tract Graeme Duthie,Angie Gardner,2006-06-14 Both upper and lower gastrointestinal physiology have come of age both in the extent of their use in clinical medicine and in the training of technicians and nurse practitioners to undertake physiological assessment This title covers both the technical and clinical aspects of the subject

Gastrointestinal Physiology 2/E Kim E. Barrett,2013-09-10 Annotation This is a system and disease based approach to the aspects of gastrointestinal pathophysiology essential for an understanding of clinical medicine Bridging the gap between basic science and clinical medicine this text provides students with a solid understanding of symptom identification and the underlying disease mechanism

Gastrointestinal Physiology E-Book Leonard R. Johnson,2013-08-27 *Gastrointestinal Physiology* a volume in the Mosby Physiology Monograph Series explains the fundamentals of gastrointestinal physiology in a clear and concise manner Ideal for your systems based curriculum this fully updated medical textbook provides you with a basic understanding of how the GI system functions in both health and disease Stay current with clear accurate and up to the minute coverage of the physiology of the gastrointestinal system focusing on the needs of the student Bridge the gap between normal function and disease with gastrointestinal pathophysiology content throughout the book Master the material more easily with learning objectives at the start of each chapter overview boxes key words and concepts chapter summaries and physiology review questions at the end of the book Understand complex concepts by examining clear 2 color diagrams Apply what you ve learned to real life clinical situations with the aid of featured clinical cases with questions and explained answers

Gastrointestinal Physiology Leonard R. Johnson,2007 This volume in the Mosby Physiology Monograph Series explains the fundamentals of gastrointestinal physiology in a clear and concise manner It provides you with a basic understanding of how the gastrointestinal system functions in health and disease Attractively illustrated with clear 2 color diagrams this volume also facilitates study with learning objectives overview boxes chapter summaries and clinical cases with questions and explained answers

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.

Gastrointestinal Physiology Kim Barrett, 2006 *Gastrointestinal Physiology* explains the operation and performance of one of the body's most crucial systems. Using clear, compelling language, the book's presentation makes it easy to absorb the content and integrate it as you learn the physiology of other bodily systems. Written to help you understand essential concepts rather than merely memorize facts, this unique text examines many medically relevant facets of this important body system, including anatomy, pathophysiology, and therapeutics, in concert with physiological information.

Gastrointestinal Physiology Kim E. Barrett, 2014

Physiology and Pathophysiology of Digestion D. Neil Granger, James D. Morris, Peter R. Kvietys, 2018-10-26 This collaboration of two physiologists and a gastroenterologist provides medical and graduate students, medical and surgical residents, and subspecialty fellows a comprehensive summary of digestive system physiology and addresses the pathophysiological processes that underlie some GI diseases. The textual approach proceeds by organ instead of the traditional organization followed by other GI textbooks. This approach lets the reader track the food bolus as it courses through the GI tract, learning on the way each organ's physiologic functions as the bolus directly or indirectly contacts it. The book is divided into three parts: 1. Chapters 1-3 include coverage of basic concepts that pertain to all or most organs of the digestive system: salivation, chewing, swallowing, and esophageal function; 2. Chapters 4-6 are focused on the major secretory organs: stomach, pancreas, liver, that assist in the assimilation of a meal; and 3. Chapters 7 and 8 address the motor transport and digestive functions of the small and large intestines. Each chapter includes its own pathophysiology and clinical correlation section that underscores the importance of the organ's normal function.

The Gastrointestinal System Po Sing Leung, 2014-04-29 *Gastrointestinal GI physiology* is a fundamental subject that is indispensable not only for undergraduate but also for graduate courses. The audience includes but is not limited to medical, pharmacy, nursing, human biology, Chinese medicine, and science students, as well as other health-related subject students. The overall objectives of this textbook are to present basic concepts and principles of GI physiology and, more importantly, to convey an understanding of how to apply this knowledge to abnormal GI physiology in the clinical context. As such, the basic knowledge of GI physiology and its application in the form of clinical case studies should be grasped, which are critical for professional examinations and bedside as well as for general practice in the future. In this handbook, we aim to achieve these elements by covering the breadth of GI, pancreatic, hepatobiliary, and nutritional physiology. Moreover, we include relevant scenario-based clinical cases in each chapter so as to evaluate whether the students can apply the basic GI they learn to the clinical setting.

Physiology and Pathophysiology of Digestion D. Neil Granger, James D. Morris, Peter R. Kvietys, 2018-09-13 This collaboration of two physiologists and a gastroenterologist provides medical and graduate students, medical and surgical residents, and subspecialty fellows a comprehensive summary of digestive system physiology and addresses the pathophysiological processes that underlie some GI diseases. The textual approach proceeds by organ instead of the traditional organization followed by other GI textbooks. This approach lets the reader track the food bolus as it courses through the GI tract, learning on the way each organ's physiologic functions as the bolus directly or indirectly contacts it. The book is divided into three parts: 1. Chapters 1-3 include coverage of basic concepts that pertain to all or most organs of the digestive system: salivation, chewing, swallowing, and esophageal function. 2. Chapters 4-6 are focused on the major secretory organs: stomach, pancreas, liver, that assist in the assimilation of a meal. 3. Chapters 7 and 8 address the motor transport and digestive functions of the small and large intestines. Each chapter includes its own pathophysiology and clinical correlation section that underscores the importance of the organ's normal function.

Physiology of the Digestive Tract Horace Willard Davenport, 1982 Abstract A reference text for health professionals provides a basic description of gastroenterological physiology. The text initially describes the means by which the gastrointestinal tract is controlled: its neuromuscular apparatus and its chemical mediators. It then conducts the reader on 3 journeys through the alimentary canal: the first 2 showing how propulsion and secretion are accomplished and regulated. The third excursion discusses accompanying ailments in the process of digestion and absorption, examining how and to what extent the mechanisms of motility, secretion, and their control actually are used. Numerous illustrations are provided throughout the text.

Gastrointestinal Physiology Eugene Trowers, Marc Tischler, 2014-07-19 This volume provides a practical, hands-on guide to gastrointestinal physiology. The book emphasizes an appreciation of basic physiological concepts and their application to novel clinical situations. It exposes the physician-in-training to fundamental principles that are useful in treating patients and lays the groundwork for more advanced study in the future. The authors present relevant cases which incorporate newer adult learning strategies in medical education. These cases provide a forum in which the student can apply acquired knowledge, skills, and attitudes. Connections are made to the reader's life, whether in the classroom, on the wards, or out and about town. Designed for medical students who are studying gastrointestinal physiology for the first time, *Gastrointestinal Physiology: A Clinical Approach* provides a superb review for upper-level medical students and house officers. Nursing and allied health professions students will also find this text to be a useful guide. GI fellows and attending physicians in need of a concise review of fundamental GI physiology principles will also benefit from reading this book.

Gastrointestinal Physiology Kim E. Barrett, 2014

Gastrointestinal Physiology and Diseases: Methods and Protocols Andrei I. Ivanov, 2018-06-15 This volume provides a comprehensive collection of classical and cutting edge protocols and techniques to examine the normal development and physiological functions of the gastrointestinal system and to model the most common digestive diseases The chapters focus on diverse research topics including ex vivo systems to study gastrointestinal development and functions in vivo imaging of the gastrointestinal tract isolation and characterization of intestinal immune cells and animal models of gastrointestinal inflammation and cancer The Gastrointestinal Physiology and Diseases Methods and Protocols book targets wide audience of physiologists cell and developmental biologists immunologists and physician scientists working in the field of gastroenterology and beyond Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Highly practical and clearly written Gastrointestinal Physiology and Diseases Methods and Protocols will serve both seasoned researchers as well as newcomers to the field and will provide a unique resource and expert guidance to modern laboratory techniques developed for examining normal functions and diseases of the gastrointestinal tract

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