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Biopsy Interpretation of the Gastrointestinal Tract Mucosa: Volume 1: Non-Neoplastic Toxicology of the Gastrointestinal Tract, Second Edition Early Neoplasias of the Gastrointestinal Tract Physiology of the Gastrointestinal Tract Physiology of the Gastrointestinal Tract Nutrition and health of the gastrointestinal tract Ultrasound of the Gastrointestinal Tract Crash Course Gastrointestinal System Updated Print + eBook edition Psychophysiology of the Gastrointestinal Tract The Gastrointestinal System Early Cancer of the Gastrointestinal Tract Growth of the Gastrointestinal Tract Development of the Gastrointestinal Tract Canine and Feline Gastroenterology - E-Book Comparative Anatomy of the Gastrointestinal Tract in Eutheria II Oxford Handbook of Gastrointestinal Nursing Physiology of the Gastrointestinal Tract, Two Volume Set Physiology of the Gastrointestinal Tract Mucosal Biopsy of the Gastrointestinal Tract Oxford Textbook of Critical Care Therapeutics of the gastrointestinal tract Functional and Motility Disorders of the Gastrointestinal Tract Innervation of the Gastrointestinal Tract Methods in Disease Pathology of the Gastrointestinal Tract The Gastrointestinal Circulation Normal and Disturbed Motility of the Gastrointestinal Tract Self-Expandable Stents in the Gastrointestinal Tract The Gastrointestinal Tract, by 21 Authors Comparative Anatomy of the Gastrointestinal Tract in Eutheria I The Digestive System Radiation and the Gastrointestinal Tract Physiology of the Gastrointestinal Tract Non-neoplastic Pathology of the Gastrointestinal Tract The Gastrointestinal Tract Regulation of Gastrointestinal Mucosal Growth Gastrointestinal Physiology Advances in the Innervation of the Gastrointestinal Tract The Gastrointestinal System at a Glance Neuropeptide Function in the Gastrointestinal Tract

The mammalian gastrointestinal mucosa is a rapidly self-renewing tissue in the body, and its homeostasis is preserved through the strict regulation of epithelial cell proliferation, growth arrest, and apoptosis. The control of the growth of gastrointestinal mucosa is unique and, compared with most other tissue in the body, complex. Mucosal growth is regulated by the same hormones that alter metabolism in other tissues, but the gastrointestinal mucosa also responds to a host of events triggered by the ingestion and presence of food within the digestive tract. These gut hormones and peptides regulate the growth of the exocrine pancreas, gallbladder epithelium, and the mucosa of the oxyntic gland region of the stomach and the small and large intestines. Luminal factors (nutrients or other dietary factors, secretions, and microbes), which occur within the lumen and distribute over a proximal-to-distal gradient, are also crucial for the maintenance of the normal gut mucosal growth and could explain the villous height-crypt depth gradient and variety of adaptations since these factors are diluted, absorbed, and destroyed as they pass down the digestive tract. Recently, intestinal stem cells and polyamines are shown to play an important role in the regulation of gastrointestinal mucosal growth under physiological and various pathological conditions. In this chapter, we highlight key issues and factors that control gastrointestinal mucosal growth, with special emphasis on the mechanisms through which epithelial renewal is regulated by polyamines at the cellular and molecular levels. Table of Contents: Introduction / Intestinal Architecture and Development / Characteristics of Gut Mucosal Growth / Intestinal Stem Cells / Role of GI Hormones on the Gut Mucosal Growth / Peptide Growth Factors in GI Mucosal Growth / Luminal Nutrients and Microbes in Gut Mucosal Growth / Polyamines in the Regulation of Mucosal Growth / Summary and Conclusions / Acknowledgments / References "This practical guide to all aspects of gastrointestinal nursing covers the treatment of a wide range of patients - from those suffering from minor and acute disorders, through chronic conditions, to those requiring major surgery and treatment for malignant disease. It summarizes the current state of knowledge in gastrointestinal nursing and provides concise, user-friendly guidelines on the management and treatment of patients with gastrointestinal disorders." "Written by practising nurses and subject experts, and incorporating their years of experience, the Oxford Handbook of Gastrointestinal Nursing is a unique and invaluable companion for practising nurses, and for all health care professionals who are involved in the care of patients with gastrointestinal disorders."--BOOK JACKET. 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 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. This volume covers the myriad of functional and motility gastrointestinal disorders in a comprehensive manner. The book is divided into seven major sections, with each section beginning with a brief case presentation highlighting the specific disorder to be reviewed. Appropriate criteria is highlighted, followed by a brief review on the epidemiology, etiology, pathophysiology, diagnosis and treatment of each specific disorder. 2-3 key teaching "pearls", test questions and key references are also provided for each chapter. The book is organized so that each chapter can stand on its own and be used as a quick reference source in the clinic. Alternatively, it can be read cover to cover as an authoritative textbook on gastrointestinal functional and motility disorders. Written by international experts in the field of motility disorders, Functional and Motility Disorders of the Gastrointestinal Tract: A Case Study Approach is an invaluable resource for experienced physicians, students, residents, fellows, nurse practitioners and physician assistants. "Prior to the development of the first fibre-optic endoscopes in the 1960's, gastroenterology, in common with other traditional medical specialties, relied on biochemical and radiological techniques in order to investigate the gastrointestinal tract. Histological confirmation of a disease process usually required the presence of a surgeon, was invasive, and carried inherent risks. Because of a rapid improvement in technology, we are now able to sample the entire gastrointestinal tract from the mouth and anus through to the ileal / jejunal junction"-- Advances in the Innervation of the Gastrointestinal Tract is a comprehensive treatment of current concepts related to research on the neurobiology of the digestive system. Established knowledge, leading-edge areas of investigation and indications of future directions, are reviewed by prominent authorities in the specialized areas of the field. Areas covered include ontogeny of the enteric nervous system, molecular biology of receptor and neurotransmitter expression, neurophysiology of the enteric nervous system and gastrointestinal centers in the brain stem, as well as normal and pathophysiological aspects of nervous control at the integrated systems level. The various disorders of gastrointestinal motility together represent a major cause of ill-health, which has become one of the most common reasons for referring a patient from primary care to a gastroenterologist. The long tube that makes up the gastrointestinal tract is composed of a variety of tissue types and is the largest internal organ of the body. Its main function is to digest food and absorb the released nutrients. Furthermore, it is subdivided into functionally distinct regions that each mediate one of a variety of actions upon the food consumed, including ingestion, propulsion, secretion, digestion, absorption and expulsion. Autonomic neuronal circuitry is intimately involved in controlling many of these multiple functions of the gut, making it an appealing subject for the study of neuroscientists. This book reviews the state of current knowledge on the innervation of the gut by the enteric nervous system, and its interface with the extrinsic innervation, from a number of different

perspectives, with the aim of providing a comprehensive and accessible account of the subject. *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 This is the second, updated and extended edition of a well-received book that offers a comprehensive overview of ultrasonographic imaging of acute and chronic gastrointestinal diseases, including acute abdomen, appendicitis, diverticulitis, inflammatory bowel diseases, neoplasms and masses, infections, malabsorption syndromes, and rare conditions. The value of ultrasound in each disorder is clearly explained and illustrated, and limitations identified. Information is also provided on recent technical developments and ultrasound applications that are likely to become of increasing importance, such as functional and 3D ultrasound, contrast agents and intraoperative ultrasound, elastography, and transperineal ultrasound. The authors are all distinguished experts in the topics they address. *Ultrasound of the Gastrointestinal Tract* will be a helpful guide in daily practice not only for radiologists but also for gastroenterologists, abdominal surgeons, pediatricians, and oncologists. This volume of the series *Handbook of Zoology* deals with the anatomy of the gastrointestinal digestive tract – stomach, small intestine, caecum and colon – in all eutherian orders and suborders. It presents compilations of anatomical studies, as well as an extensive list of references, which makes widely dispersed literature accessible. Introductory sections to orders and suborders give notice to biology, taxonomy, biogeography and food of the respective taxon. It is a characteristic of this book that different sections of the post-oesophageal tract are discussed separately from each other. Informations on form and function of organs of digestion in eutherians are discussed under comparative-anatomical aspects. The variability and diversity of anatomical structures represents the basis of functional differentiations. *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 First published in 1991: This book assimilates and evaluates the rapidly accumulating information regarding neuropeptides in the gut, their chemistry; genetic control; processing in enteric nerves; the projections of their nerves; their actions at the tissue, cell, and molecular levels; and their roles in controlling gut motility in health and disease. *Neuropeptide Function in the Gastrointestinal Tract* is directed to scientists in all disciplines who work with neuropeptides, as well as physiologists interested in the neural and smooth muscle actions of neuropeptides. Now in paperback, the second edition of the *Oxford Textbook of Critical Care* is a comprehensive multi-disciplinary text covering all aspects of adult intensive care management. Uniquely this text takes a problem-orientated approach providing a key resource for daily clinical issues in the intensive care unit. The text is organized into short topics allowing readers to rapidly access authoritative information on specific clinical problems. Each topic refers to basic physiological principles and provides up-to-date treatment advice supported by references to the most vital literature. Where international differences exist in clinical practice, authors cover alternative views. Key messages summarise each topic in order to aid quick review and decision making. Edited and written by an international group of recognized experts from many disciplines, the second edition of the *Oxford Textbook of Critical Care* provides an up-to-date reference that is relevant for intensive care units and emergency departments globally. This volume is the definitive text for all health care providers, including physicians, nurses, respiratory therapists, and other allied health professionals who take care of critically ill patients. *Gastrointestinal (GI) physiology* is a fundamental subject that is indispensable not only for undergraduate but also for graduate courses. The audience include, but are 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 case in each chapter so as to evaluate whether the students can apply the basic GI they learn to the clinical setting. This book evolved from a two-day 1993 International Symposium on Radiation and the Gastrointestinal Tract held at the Uniformed Services University of the Health Sciences, Bethesda, Maryland. This area of investigation is particularly important because of growing medical needs and the documented occurrence of accidents involving overexposure of healthy subjects/patients. Some questions have been answered through cellular and animal research—results that lead to hypotheses that have been tested through clinical protocols. In an attempt to answer the unresolved questions, basic scientists and clinicians describe the data obtained to date, present in a critical manner the consensus that has been reached, and discuss what still remains to be investigated. The book is divided into five parts: Overview and Clinical Perspective, Emesis, Motility, Diarrhea, and Behavioral Correlates of Gastrointestinal Dysfunction. Each part consists of separate discussions on the pathophysiology, the methodology, and, when applicable, the clinical relevance of the observations. The book provides helpful information to both basic scientists involved in radiobiological research and to clinicians caring for patients exposed to radiation. It also serves as an introduction to the subject for young clinical investigators interested in the field and for scientists searching for correlates between their observations and disorders of the gastrointestinal tract. Microbial agents (particularly bacteria) represent the greatest risk to public health. The traditional end-product oriented food inspection systems are inadequate for identifying and eliminating the usually symptomless animal carriers of agents causing foodborne infections and intoxications. Modern, risk-based, prevention approaches are the only effective way to reduce the prevalence of these hazards from our foods. As an additional 'safety-valve' microbial decontamination procedures are currently being suggested and its implementation in industrial food processing has, at least in some parts of the world, met with governmental approval. The residues in foods of some non-microbial agents have more recently also caused substantial consumer disquiet. This equally applies to non-conventional foods containing GMO's. In this publication these issues are addressed by invited expert scientists from various disciplines, many of which have key-positions in EU-funded research programmes on these very topics and/or are advisers to international public health bodies. The editors firmly believe that the very nature of the theme, the excellence of the papers and the holistic approach chosen will draw an audience from both an industry and academic background. The (printed) 'Updated Edition' now comes with added value access to the complete, downloadable eBook version via Student Consult. Search, read and revise whilst on the move and use the interactive self-assessment to test your understanding. *Crash Course* - a more flexible, practical learning package than ever before. *Crash Course* - your effective every day study companion PLUS the perfect antidote for exam stress! Save time and be assured you have all the core information you need in one place to excel on your course and achieve exam success. A winning formula now for over 15 years, each series volume has been fine tuned and fully updated, with an improved layout tailored to make your life easier. Especially written by senior medical students or recent graduates - those who have just been in the exam situation - with all information thoroughly checked and quality assured by expert faculty advisers, the result are books which exactly meet your needs and you know you can trust. Each provides an integrated approach to the subject by linking

together topics such as anatomy, development, histology, physiology and pharmacology. This new edition also incorporates enhanced clinical coverage, with additional material on common diseases of the gastrointestinal tract and their management, clinical assessment and examination, common skills and further investigations. Commencing with clear 'Learning Objectives', every chapter guides you succinctly through the topic, giving full coverage of the curriculum whilst avoiding unnecessary and often confusing detail. A fully revised self-assessment section matching the latest exam formats is also included. More than 100 illustrations present clinical, diagnostic and practical information in an easy-to-follow manner. Friendly and accessible approach to the subject makes learning especially easy. Written by students for students - authors who understand exam pressures. Contains 'Hints and Tips' boxes, and other useful aide-mémoires. Succinct coverage of the subject enables 'sharp focus' and efficient use of time during exam preparation. Contains a fully updated self-assessment section - ideal for honing exam skills and self-testing. Self-assessment section fully updated to reflect current exam requirements. Contains 'common exam pitfalls' as advised by faculty. Crash Courses also available electronically! Online self-assessment bank also available - content edited by Dan Horton-Szar! The (printed) 'Updated Edition' now comes with added value access to the complete, downloadable eBook version via Student Consult. Search, read and revise whilst on the move and use the interactive self-assessment to test your understanding. Crash Course - a more flexible, practical learning package than ever before. Now celebrating over 10 years of success - Crash Course has been specially devised to help you get through your exams with ease. Completely revised throughout, the new edition of Crash Course is perfectly tailored to meet your needs by providing everything you need to know in one place. Clearly presented in a tried and trusted, easy-to-use, format, each book in the series gives complete coverage of the subject in a no-nonsense, user-friendly fashion. Commencing with 'Learning Objectives', each chapter guides you succinctly through the topic, giving full coverage of the curriculum whilst avoiding unnecessary and often confusing detail. Each chapter is also supported by a full artwork programme, and features the ever popular 'Hints and Tips' boxes as well as other useful aide-mémoires. All volumes contain an up-to-date self-assessment section which allows you to test your knowledge and hone your exam skills. Authored by students or junior doctors - working under close faculty supervision - each volume has been prepared by someone who has recently been in the exam situation and so relates closely to your needs. So whether you need to get out of a fix or aim for distinction Crash Course is for you!!

Early Neoplasias of the Gastrointestinal Tract: Endoscopic Diagnosis and Therapeutic Decisions is an update of the current standards and newest skills in diagnostic endoscopy for neoplastic lesions of the upper and lower gastrointestinal tract. The volume defines strategies for detection and endoscopic assessment of small and minute early cancers and precursor lesions, including the endoscopic and endosonographic criteria for submucosal invasiveness. The book provides the knowledge in novel magnifying endoscopic analysis of early neoplasias fundamental to differential indication on snare mucosectomy, endoscopic submucosal dissection, or surgical/laparoscopic full-wall resection. Differential indications and contraindications for each technique are also specified. Comprehensive and authored by internationally renowned experts in the field, **Early Neoplasias of the Gastrointestinal Tract: Endoscopic Diagnosis and Therapeutic Decisions** is a valuable resource that will improve the diagnostic skills of beginners as well as experienced endoscopists in endoscopic submucosal dissection. 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. This volume of the series **Handbook of Zoology** deals with the anatomy of the gastrointestinal digestive tract - stomach, small intestine, caecum and colon - in all eutherian orders and suborders. It presents compilations of anatomical studies, as well as an extensive list of references, which makes widely dispersed literature accessible. Introductory sections to orders and suborders give notice to biology, taxonomy, biogeography and food of the respective taxon. It is a characteristic of this book that different sections of the post-oesophageal tract are discussed separately from each other. Informations on form and function of organs of digestion in eutherians are discussed under comparative-anatomical aspects. The variability and diversity of anatomical structures represents the basis of functional differentiations. This book provides an up-to-date summary of the large body of data regarding gastrointestinal hormones and growth factors involved in the development and maintenance of the architecture and physiological functions of the different organs of the digestive tract. The regulation of growth and differentiation in the stomach, small intestine, colon, and pancreas is reviewed by experts in developmental and adult physiology, as well as in pathophysiology of diseases involving each organ. The book provides essential reference material for gastroenterologists, medical and university libraries, and investigators and graduate students of gastrointestinal physiology. The authors chronicle the development of the gastrointestinal system beginning with the embryology of the gastrointestinal tract through development of cells to hormones and enzymes. Each section provides detailed explanation of that stage of development so residents and clinicians can better understand the interrelationships of each structure. Special attention is given to the latest cellular information and gene promoters in the regulation of intestinal development. Coverage of defects due to trauma and infections is also included. The microcirculation of the gastrointestinal tract is under the control of both myogenic and metabolic regulatory systems. The myogenic mechanism contributes to basal vascular tone and the regulation of transmural pressure, while the metabolic mechanism is responsible for maintaining an appropriate balance between O₂ demand and O₂ delivery. In the postprandial state, hydrolytic products of food digestion elicit a hyperemia, which serves to meet the increased O₂ demand of nutrient assimilation. Metabolically linked factors (e.g., tissue pO₂, adenosine) are primarily responsible for this functional hyperemia. The fenestrated capillaries of the gastrointestinal mucosa are relatively permeable to small hydrolytic products of food digestion (e.g., glucose), yet restrict the transcapillary movement of larger molecules (e.g., albumin). This allows for the absorption of hydrolytic products of food digestion without compromising the oncotic pressure gradient governing transcapillary fluid movement and edema formation. The gastrointestinal microcirculation is also an important component of the mucosal defense system whose function is to prevent (and rapidly repair) inadvertent epithelial injury by potentially noxious constituents of chyme. Two pathological conditions in which the gastrointestinal circulation plays an important role are ischemia/reperfusion and chronic portal hypertension. Ischemia/reperfusion results in mucosal edema and disruption of the epithelium due, in part, to an inflammatory response (e.g., increase in capillary permeability to macromolecules and neutrophil infiltration). Chronic portal hypertension results in an increase in gastrointestinal blood flow due to an imbalance in vasodilator and vasoconstrictor influences on the microcirculation.

Table of Contents: Introduction / Anatomy / Regulation of Vascular Tone and Oxygenation / Extrinsic Vasoregulation: Neural and Humoral / Postprandial Hyperemia / Transcapillary Solute Exchange / Transcapillary Fluid Exchange / Interaction of Capillary and Interstitial Forces / Gastrointestinal Circulation and Mucosal Defense / Gastrointestinal Circulation and Mucosal Pathology I: Ischemia/Reperfusion / Gastrointestinal Circulation and Mucosal Pathology II: Chronic Portal Hypertension / Summary and Conclusions / References / Author Biography

Over a quarter century ago, Flanders Dunbar, in her 1954 compendium on "Emotion and Bodily Changes," surveyed over 5,000 references on psychosomatic interrelationships, including a literature on psychic factors in gastrointestinal disorders dating back to 1845. The title of the present volume suggests a line of descent from these early initiatives, but important changes are in the making. Indeed, the form and substance of long overdue reformulations are clearly reflected in the scholarly contributions which enhance this report of the 1980 Munich symposium proceedings. Traditional psychosomatic approaches to understanding the gastrointestinal system and its functional disorders have been based in large part on two virtually unchallenged assumptions. In the first instance, unobserved (indeed unobservable) "psychological processes" have been considered causally related to disease onset and/or to fluctuations in the course of the disease. And secondly, it has been assumed that "psychotherapeutic" interventions for disease management should be designed to alter these hypothesized "psychic" antecedents. More recently, however, a new paradigm for analyzing the relationships involving disordered physiological functions and behavioral interactions has been developed within the framework of what has been termed behavioral medicine. The conceptual boundaries of this relatively new approach to behavioral physiology have not yet been firmly established, but the major differences between the new "behavioral" model and the traditional "psychosomatic" model are brought into sharp relief by the experimental and clinical contributions to the present volume.

- Contributors are internationally known experts
- Richly illustrated
- Focuses on the differences of diagnostic methods between Japan and other countries by using endoscopic and pathologic pictures
- For the first time, the Japanese progress in the field is published in English and made accessible to researchers worldwide

Self-expandable stents were initially placed for the treatment of cardiovascular diseases but now play an integral role in the relief of benign and malignant obstruction of the gastrointestinal tract and biliary system. **Self-Expandable Stents in the Gastrointestinal Tract**

will familiarize the reader with the indications, techniques, and outcome following placement of expandable metal stents within the gastrointestinal tract. The volume covers all aspects of expandable stents including their composition, tissue responses, and placement techniques. In addition, placement using endoscopic and radiologic techniques is discussed. Unique illustrations allow the reader to gain knowledge that will improve their ability to care for their patients. The volume will serve as a comprehensive reference for all aspects of expandable stents. Self-Expandable Stents in the Gastrointestinal Tract will be extremely useful for physicians in the field of gastroenterology, endoscopy, and radiology, as well as gastrointestinal and thoracic surgeons whether they are in training or practice. A comprehensive reference standard for the discipline, Canine and Feline Gastroenterology covers the biology, pathobiology, and diagnosis and treatment of diseases of the gastrointestinal, pancreatic, and hepatobiliary systems. An international team of experts, including 85 authors from 17 different countries, led by Robert Washabau and Michael Day, covers everything from minor problems such as adverse food reactions to debilitating inflammatory, infectious, metabolic, and neoplastic diseases of the digestive system. This authoritative text utilizes an evidence-based approach to reflect the latest science and research, complemented by principles of problem solving, algorithms to improve clinical diagnoses, and extensive full-color illustrations. For generalists and specialists alike, this gastroenterology reference should be part of every serious practitioner's professional library. A comprehensive, 928-page reference standard covers the discipline of canine and feline gastroenterology. An international focus is provided by 85 authors from 17 different countries, including renowned experts in veterinary gastroenterology, internal medicine, pathology, clinical pathology, radiology, and infectious disease. Coverage of the entire breadth and depth of gastroenterology ranges from biology to pathobiology, as well as diagnosis and treatment of diseases of the gastrointestinal, pancreatic, and hepatobiliary systems. Current information on GI microflora, immunology, cellular growth, and systems integration provides a foundation for treating clinical problems. Coverage of diseases in dogs and cats includes the oral cavity, esophagus, stomach, small intestine, large intestine, colon, anorectum, liver and biliary tract, exocrine pancreas, peritoneum, and associated vasculature. A focus on patient management examines the full range of procedures and techniques essential to diagnosis and treatment from clinical signs and diagnosis to nutritional support and pharmacologic management of disease. Clear explanations of current diagnostic modalities include laboratory tests, molecular methods, diagnostic imaging, endoscopy, and histopathology, also showing how to interpret and utilize results. A strong clinical approach emphasizes need-to-know information for managing the common and not-so-common G.I. clinical problems of everyday practice. Full-color photographs and illustrations depict concepts, conditions, and procedures. An evidence-based medicine perspective reflects the latest research as well as the modern practice of veterinary medicine. Logical, coherent, and consistent internal organization makes this a reader-friendly edition. Problem-based algorithms help in diagnosing every G.I. clinical problem from A to Z. A stand-alone section on the pharmacologic approach to G.I. disease offers quick and easy drug reference. 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. Biopsy Interpretation of the Gastrointestinal Tract Mucosa is your definitive bench reference for the diagnosis of these challenging specimens. One of the best-selling titles in the Biopsy Interpretation Series, its practical, richly illustrative coverage encompasses the most common mucosal biopsies from the esophagus, stomach, small intestine, large intestine, and anus, helping you to evaluate the full range of samples and recognize their distinguishing features. This volume focuses on non-neoplastic entities; Volume Two, also available, is your complete source on neoplastic gastrointestinal lesions. This practical account of the most up-to-date methods used to investigate gastrointestinal tract function and dysfunction has been written by some of the leading experts in gastrointestinal function from around the world. It attempts to describe the scientific background to each test, as well as discussing in a practical way the various methodologies involved. The gastrointestinal tract is the most important of the three major routes of entry (and clearance) of xenobiotics and biologic entities into the bodies of mammals. As such, it is also the major route for administration of pharmaceuticals to humans. Gastrointestinal Toxicology, Second Edition describes the mechanism for entry and clearance of xenobiotics, as well as the barriers, immunologic and metabolic issues, and functions present in the GI tract. Appearing in this volume are also considerations of the microbiome and its actions and influence on the function of the GI tract and on the toxicity and pharmacodynamics of ingested substances (including nutrients, toxins, and therapeutics). These fifteen chapters written by experienced experts in the field address methods to evaluate GI function; specifics of GI function and toxicity assessment in canines and minipigs; classes of compounds with their toxicity; species differences; and the toxicity (and promise) of nanoparticles. Those needing to understand the structure, function, and methods of studying the GI tract will find this volume a singular source of reference.

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