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A-Z of Abdominal Radiology John Wiley & Sons
PET and PET-CT in Oncology describes the principles of positron emission tomography and is a useful resource for incorporating the technique in clinical practice. In a clear and straightforward fashion, the book offers instructive information and overviews of the basic principles of PET and PET-CT as well as the routine clinical PET scanning procedures for all important oncological indications. It is designed to serve as a reference work for specialists in nuclear medicine and radiology (including therapy planning) and for oncologists. It also provides student and physicians in other medical specialties with a general introduction to the effective integration of this modern technique into routine clinical diagnostics. Above all, this volume illustrates the importance of PET and PET-CT in comparison with other imaging techniques.
CT Scanning Springer Science & Business Media
The first book-length reference to thoroughly describe diagnostic and therapeutic advances in the development of vascular radiology over the last decade The last ten years has seen vascular imaging of the central nervous system (CNS) evolve from fairly crude, invasive procedures to more advanced imaging methods that are safer, faster, and more precise—with computed tomographic (CT) and magnetic resonance (MR) imaging methods playing a special role in these advances. **Vascular Imaging of the Central Nervous System** is the first full-length reference text that shows radiologists—especially neuroradiologists—how to optimize the use of the many techniques available in order to increase the sensitivity and specificity of vascular imaging, thereby improving the diagnosis and treatment of individual patients. Each chapter is formatted carefully and divided into two essential parts: The first part describes the physical principles underlying each imaging technique, along potential associated artifacts and pitfalls; the second part addresses clinical applications and novel applications of each method. With a strong focus on the clinical application of each modality or technique in CNS radiology, this book provides in-depth chapter coverage of: • Ultrasound Vascular Imaging (UVI) • Computed Tomography Angiography (CTA) • Magnetic Resonance Vascular imaging (MRV) • Digital subtraction angiography (DSA) • Brain perfusion techniques: CT and MRI • Plaque imaging • Intravascular imaging • Pediatric vascular imaging Along with numerous illustrations and case studies, **Vascular Imaging of the Central Nervous System: Physical Principles, Clinical Applications, and Emerging Techniques** is an important book for those faced with choosing from the wide range of choices available for clinical practice.

Onco-Nephrology E-Book Lippincott Williams & Wilkins

This book describes current examination techniques and advanced clinical applications of state-of-the-art multidetector computed tomography (MDCT) scanners. There are contributions from several distinguished radiologists and clinicians. Each chapter is written from a practical perspective, so that radiologists, residents, medical physicists, and radiology technologists can obtain relevant information about MDCT applications.

Molecular Anatomic Imaging Cambridge University Press

Part of the UGTM series acquisition - and one of the most successful titles in the series. 'The Unofficial Guide to Radiology' has been endorsed by the Royal College of Radiologists, The British Institute of Radiology and the British Medical Association. It teaches systematic analysis of the three main types of X-rays: chest, abdominal and orthopedic, with additional chapters looking at all the other main radiology tests such as CT and MRI. The layout is designed to make the book as relevant to clinical practice as possible; the X-rays are presented in the context of a real life scenario. The reader is asked to interpret the X-ray before turning over the page to reveal a model report accompanied by a fully annotated version of the X-ray. To further enhance the clinical relevance, each case has 5 clinical and radiology-related multiple-choice questions with detailed answers. These test core knowledge for exams and working life, and illustrate how the X-ray findings will influence patient management. This book has relevance beyond examinations, for post

graduate further education and as a day-to-day reference for professionals. Recommended by the Royal College of Radiologists, with awards from the British Medical Association and the British Institute of Radiology Test your knowledge with over 100 annotated X-rays, illustrated with systematic examples of how to present each one in an exam 300 clinical and radiology-related multiple-choice questions with detailed answers - illustrate how the X-ray findings will influence patient management Covers all commonly used radiology tests including chest, abdominal and orthopaedic X-ray, CT, MRI, ultrasound and nuclear medicine, as well as interventional radiology Structured for relevance to clinical practice, with sample images related to real-life scenarios N/A

Manual of Diagnostic Ultrasound Springer

This new atlas, the fourth of a successful series, is a completely revised and updated edition of a previously published FDG PET-CT atlas. In the past few years, considerable progress has been made in the field of PET-CT imaging, and this new edition takes full account of these recent developments. Furthermore, its educational mission has been broadened: beyond serving as a straightforward guide to FDG PET-CT imaging it now encompasses the integrative use of contrast-enhanced CT and MRI. The new edition also includes non-oncological indications for FDG PET-CT. The atlas aims to help imaging practitioners to recognize physiological and benign pathological FDG uptake and illustrates in a case-based, practical manner the PET-CT appearances of all the major tumors and infectious, inflammatory, and neurodegenerative disorders. The main clinical applications are covered, and learning points and pitfalls are clearly articulated. The consistent, user-friendly format facilitates image interpretation and allows rapid review of key information needed for FDG PET-CT imaging.

Gastrointestinal Emergencies Springer Science & Business Media

Most ingested foreign bodies pass through the gastrointestinal tract without a problem.

However, both ingested and inserted foreign bodies may cause bowel obstruction or perforation or lead to severe hemorrhage, abscess formation, or septicemia. Foreign body aspiration is common in children, especially those under 3 years of age, and in these cases chest radiography and CT are the main imaging modalities. This textbook provides a thorough overview of the critical role of diagnostic imaging in the assessment of patients with suspected foreign body ingestion, aspiration, or insertion. A wide range of scenarios are covered, from the common problem of foreign body ingestion or aspiration in children and mentally handicapped adults through to drug smuggling by body packing and gunshot wounds. Guidance is offered on diagnostic protocols, and the value of different imaging modalities in different situations is explained. Helpful management tips are also provided. This textbook will prove invaluable for residents in radiology, radiologists, and physicians who are involved on a daily basis, within an emergency department, in the management of patients with suspected ingestion, aspiration, or insertion of foreign bodies.?

Imaging of Head and Neck Cancer Frontiers Media SA

This best-selling resource provides a general overview and basic information for all adult intensive care units. The material is presented in a brief and quick-access format which allows for topic and exam review. It provides enough detailed and specific information to address most all questions and problems that arise in the ICU. Emphasis on fundamental principles in the text should prove useful for patient care outside the ICU as well. New chapters in this edition include hyperthermia and hypothermia syndromes; infection control in the ICU; and severe airflow obstruction. Sections have been reorganized and consolidated when appropriate to reinforce concepts.

Contrast-Enhanced Mammography Springer Science & Business Media

Barley: Chemistry and Technology, Second Edition is an important resource for any cereal chemist, food scientist, or crop scientist who needs to understand the development, structure, composition, and end-use properties of the barley grain for cultivation, trade, and utilization. Editors Peter R. Shewry and Steven E. Ullrich bring together a wide range of international authorities on barley to create this truly unique, encyclopedic reference work that covers the massive increase in barley knowledge over the past 20 years, since the first edition of this book was published. **Barley: Chemistry and Technology**, Second Edition offers the latest coverage of barley's applications in milling, breeding, and production for food, feed, malting, brewing, distilling, and biofuels. It delivers a complete update of the latest knowledge of barley's many components, from the genetic and molecular level to its many constituents, such as proteins, carbohydrates, arabinoxylans, minerals, lipids, terpenoids, phenolics, and vitamins. This important book also includes chapters on barley's plant and grain development from both the physiological and genetic perspectives, making it an important resource not only for cereal and food scientists but also for crop scientists involved in breeding, agronomy, and related plant sciences New coverage includes: Updated, comprehensive knowledge on barley's components, including proteins, carbohydrates, arabinoxylans, and bioactive effects New end-use ideas for barley as an ingredient in food products Nonfood industrial applications for barley, including biofuels A new chapter on barley's health benefits Molecular breeding for malting quality

Diseases of the Brain, Head and Neck, Spine 2020-2023 Springer

This atlas is a case-based guide to the interpretation of FDG PET-CT images in clinical scenarios faced by physicians during the routine practice of oncology. The book aims to help the practitioner to overcome diagnostic dilemmas through familiarization with the physiologic distribution of FDG, normal variants and benign findings. The main focus, however, is the imaging of major oncological diseases. Different pathologies are addressed in individual chapters comprising teaching files of cases, each of which corresponds to a common indication for PET-CT imaging, such as metabolic characterization of lesions, staging, restaging and evaluation of response to therapy. Each case is accompanied by an explanation of the patient's history, interpretation of the PET-CT study, and a teaching point often supported by relevant literature. This book will be of great value to residents and practitioners in nuclear medicine, radiology, oncology, radiation oncology and nuclear medicine technology. **Clinical Applications of SPECT/CT** Springer Science & Business Media

Diseases of the pancreas have been extremely difficult to study. Until relatively recently, the pancreas was viewed by surgeons as an organ to be avoided, given its deep retroperitoneal location and the sometimes severe consequences of manipulation. Similar difficulties have plagued careful study of the pancreas. In humans, only infrequently have we had the opportunity to evaluate the evolution of diseases of the pancreas; instead, we are confronted with end-stage chronic pancreatitis or acute pancreatitis with extensive necrosis of the gland. Within the past decade, revolutionary techniques in molecular biology, genetics, and animal models have begun to give us dramatic new insights into pancreatic disease. Coupled with these advances has been a slow but steady progress in the development of our clinical tools for diagnosing and treating pancreatic diseases. These advances place us on the threshold of a much more complete understanding of pancreatic diseases, opening up new opportunities for novel therapies and preventive measures. **Pancreatitis and Its Complications** brings together many of the world's experts in pancreatic diseases. These "pancreatologists" include basic scientists, endoscopists, gastroenterologists, and surgeons.

The chapters have been organized to provide a comprehensive discussion of acute and chronic pancreatitis, with up-to-date discussions of pathophysiology, epidemiology, diagnostic strategies, treatment, and complications of disease. It is hoped that this text will serve as a useful reference for clinicians as well as provide a clinical background for scientists with an interest in pancreatic or related diseases.

PET and PET-CT in Oncology Unofficial Guides
A quick reference pocketbook on a huge range of emergencies for all clinicians working in emergency or acute care settings.

Pancreatitis and Its Complications John Wiley & Sons

A practical easy-to-use guide to the diagnosis of all common abdominal disorders.

Urgent Care Medicine Secrets E-Book Springer Science & Business Media

This open access book deals with imaging of the abdomen and pelvis, an area that has seen considerable advances over the past several years, driven by clinical as well as technological developments. The respective chapters, written by internationally respected experts in their fields, focus on imaging diagnosis and interventional therapies in abdominal and pelvic disease; they cover all relevant imaging modalities, including magnetic resonance imaging, computed tomography, and positron emission tomography. As such, the book offers a comprehensive review of the state of the art in imaging of the abdomen and pelvis. It will be of interest to general radiologists, radiology residents, interventional radiologists, and clinicians from other specialties who want to update their knowledge in this area.

Brain Neurotrauma Springer Nature

Uroradiology is an up-to-date, image-oriented reference in the style of a teaching file that has been designed specifically to be of value in clinical practice. All aspects of the imaging of urologic diseases are covered, and case studies illustrate the findings obtained with the relevant imaging modalities in both common and uncommon conditions. Most chapters focus on a particular clinical problem, but normal findings, congenital anomalies, and interventions are also discussed and illustrated. In this second edition, the range and quality of the illustrations have been enhanced, and many schematic drawings have been added to help readers memorize characteristic imaging findings through pattern recognition. The accompanying text is concise and informative. Besides serving as an outstanding aid to differential diagnosis, this book will provide a user-friendly review tool for certification or recertification in radiology.

MDCT: A Practical Approach Cambridge University Press

With the contribution from more than one hundred CNS neurotrauma experts, this book provides a comprehensive and up-to-date account on the latest developments in the area of neurotrauma including biomarker studies, experimental models, diagnostic methods, and neurotherapeutic intervention strategies in brain injury research. It discusses neurotrauma mechanisms, biomarker discovery, and neurocognitive and neurobehavioral deficits. Also included are medical interventions and recent neurotherapeutics used in the area of brain injury that have been translated to the area of rehabilitation research. In addition, a section is devoted to models of milder CNS injury, including sports injuries.

Imaging of Foreign Bodies Frontiers Media SA

Kidney disease and cancer are frequent comorbidities that require specialized knowledge and expertise from both the nephrologist and the oncologist. Written by three pioneers in this growing subspecialty, Onco-Nephrology provides authoritative, definitive coverage of the mechanism and management of these two life-threatening diseases. This unique, single-volume resource covers current protocols and recommends management therapies to arrest kidney failure and allow oncologic treatments to continue and succeed. - Addresses acute and chronic kidney diseases that develop from a variety of cancers. This includes direct kidney injury from the malignancy, paraneoplastic effects of the cancer, and various cancer agents used to treat the malignancy. - Discusses key issues regarding kidney disease in patients with cancer, including conventional chemotherapeutic regimens and new novel therapies (targeted agents and immunotherapies) or the malignancies themselves that may promote kidney injury; patients with chronic kidney disease who acquire cancer unrelated to renal failure; and

kidney transplantation, which has been shown to carry an increased risk of cancer. - Contains dedicated chapters for each class of the conventional chemotherapeutic agents, targeted cancer agents, and cancer immunotherapies including the basic science, pathogenic mechanisms of injury, clinical manifestations, and treatment. - Includes special chapters devoted to the individual classes of chemotherapies that relate to kidney disease for quick reference. Discusses increasingly complex problems due to more numerous and specialized anti-cancer drugs, as well as increased survival rates for both cancer and renal failure requiring long-term patient care. - Covers anti-VEGF (antivascular endothelial growth factor) agents and cancer immunotherapies - treatments that are being recognized for adverse kidney effects. - Utilizes a clear, logical format based on the ASN Core Curriculum for Onco-Nephrology, making this reference an excellent tool for board review, as well as a practical resource in daily practice. - Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices.

Atlas of PET-CT Imaging in Oncology

Springer Science & Business Media

A-Z of Musculoskeletal and Trauma Radiology is an invaluable reference to the key aspects of imaging for all conditions of bones, muscles, tendons and ligaments. It provides the clinician with practical guidance on the key presenting characteristics, clinical features, diagnosis and management. The description of each condition is provided in a standard template of Characteristics, Clinical Features, Radiology and Management, enabling the reader to find the relevant information quickly. All diagnostic modalities are included and a separate section is dedicated to musculoskeletal trauma. Written by a multidisciplinary team of radiologists and an orthopaedic surgeon, A-Z of Musculoskeletal and Trauma Radiology is an invaluable resource for radiologists, orthopaedic surgeons, rheumatologists and all clinicians managing musculoskeletal conditions.

Emergency Radiology Elsevier

This publication is aimed at students and teachers involved in programmes that train medical physicists for work in diagnostic radiology. It provides a comprehensive overview of the basic medical physics knowledge required in the form of a syllabus for the practice of modern diagnostic radiology. This makes it particularly useful for graduate students and residents in medical physics programmes. The material presented in the publication has been endorsed by the major international organizations and is the foundation for academic and clinical courses in both diagnostic radiology physics and in emerging areas such as imaging in radiotherapy.

Diagnostic Radiology Physics Springer

Bacteriologists from all levels of expertise and within all specialties rely on this Manual as one of the most comprehensive and authoritative works. Since publication of the first edition of the Systematics, the field has undergone revolutionary changes, leading to a phylogenetic classification of prokaryotes based on sequencing of the small ribosomal subunit. The list of validly named species has more than doubled since publication of the first edition, and descriptions of over 2000 new and realigned species are included in this new edition along with more in-depth ecological information about individual taxa and extensive introductory essays by leading authorities in the field.

Machine Learning With Radiation Oncology Big Data Springer Science & Business Media

This book answers key questions asked by emergency clinicians faced with complex gastrointestinal and abdominal pain presentations. Instead of a traditional format that includes epidemiology, pathophysiology, diagnosis, and treatment options, this book takes an approach that mirrors the way clinicians interact with patients - by asking and answering specific clinical care questions. The book is organized into sections by presentation - gastrointestinal bleeding, for example - each of

which contains chapters on specific questions, such as "What is the best clinical risk score for low risk GIB patients?" Each clinical question comes with a detailed, evidence-based response and a summary that gives best practices, recommendations, and references. Additionally, at the end of each section is a chapter titled "Expert Corner," which asks the same clinical questions to a surgical or gastrointestinal specialist and includes key pearls these experts have for emergency medicine practitioners. *Gastrointestinal Emergencies: Evidence-Based Answers to Key Clinical Questions* is an essential guide for emergency medicine physicians, residents, and medical students who want to review and improve their care of acute gastrointestinal emergencies.