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Diagnostic Imaging Springer

Building on the foundation laid down by the first edition, the 1998 winner of the Royal Society's award for the Multi-author Textbook of the Year, *Imaging in Oncology*, Second Edition presents an extensively referenced, evidence-based analysis of the role of imaging in planning treatment.

Emphasizing image interpretation for tumor staging and follow

Oncologic Imaging Springer Science & Business Media

This timely overview of dose, benefit, and risk in medical imaging explains to readers how to apply this information for informed decision-making that improves patient outcomes. The chapters cover patient and physician perspectives, referral guidelines, appropriateness criteria, and quantifying medical imaging benefits. The authors have included essential discussion about radiologic physics in medical imaging, fundamentals of dose and image quality, risk assessment, and techniques for optimization and dose reduction. The book highlights practical implementation aspects with useful case studies and checklists for treatment planning. Clinicians, students, residents, and professionals in medical physics, biomedical engineering, radiology, oncology, and allied disciplines will find this book an essential resource with the following key features: Discusses risk, benefit, dose optimization, safety, regulation, radiological protection, and shared & informed decision-making. Covers regulatory oversight by government agencies, manufacturers, and societies. Highlights best practices for improving patient safety and outcomes. Gives guidelines on doses associated with specific procedures.

Diagnostic Imaging: Chest - E-Book Springer

This open access book focuses on diagnostic and interventional imaging of the chest, breast, heart, and vessels. It consists of a remarkable collection of contributions authored by internationally respected experts, featuring the most recent diagnostic developments and technological advances with a highly didactical approach. The chapters are disease-oriented and cover all the relevant imaging modalities, including standard radiography, CT, nuclear medicine with PET, ultrasound and magnetic resonance imaging, as well as imaging-guided interventions. As such, it presents a comprehensive review of current knowledge on imaging of the heart and chest, as well as thoracic interventions and a selection of "hot topics". The book is intended for radiologists, however, it is also of interest to clinicians in oncology, cardiology, and pulmonology.

Radiation Oncology Springer Science & Business Media

With up-to-date, easy-access coverage of every aspect of diagnostic radiology, Grainger and Allison's *Diagnostic Radiology Essentials*, 2nd Edition, is an ideal review and reference for radiologists in training and in practice. This comprehensive overview of fundamental information in the field prepares you for exams and answers the practical questions you encounter every day. In a

single, convenient volume, this one-stop resource is derived from, and cross-referenced to, the renowned authoritative reference work Grainger & Allison's *Diagnostic Radiology*, 6th Edition. - Concentrates on the subjects that general diagnostic radiologists need to know, covering all diagnostic imaging modalities and organized by organ and system. - Uses a concise, highly templated, bulleted format that helps you find the answers you need quickly and easily. - Features more than 2,000 high-quality images, including plain film, CT, MRI, and ultrasound. - Features a new section on interventional radiology that covers interventional vascular radiology techniques, cross sectional angiography, specific drainage techniques, tumor ablation principles, and intervention in hepatobiliary, genitourinary and gynecological conditions. - Contains a new section on functional imaging which includes both MRI (diffusion weighted imaging and perfusion MRI) and PETCT. - Includes diagnostic "pearls" that help you avoid pitfalls and errors in diagnosis. - Includes a useful Appendix with many quick-reference items that are hard to remember but essential in day-to-day practice. New content includes intravascular contrast media, anticoagulation agents and sedation, the latest TNM 8th edition of staging cancers, and new section on PI-RADS and BI-RADS.

PET-CT and PET-MRI in Oncology Springer

This work covers the top imaging diagnoses in obstetrics, including both common and uncommon entities and includes an extensive image gallery for each entity, depicting common and variant cases with bulleted summaries of terminology.

Oncologic Imaging: Bone Tumors CRC Press

Dynamic contrast-enhanced MRI is now established as the methodology of choice for the assessment of tumor microcirculation in vivo. The method assists clinical practitioners in the management of patients with solid tumors and is finding prominence in the assessment of tumor treatments, including anti-angiogenics, chemotherapy, and radiotherapy. Here, leading authorities discuss the principles of the methods, their practical implementation, and their application to specific tumor types. The text is an invaluable single-volume reference that covers all the latest developments in contrast-enhanced oncological MRI.

Advances in Radiation Oncology in Lung Cancer Elsevier Health Sciences

Decision Making in Radiation Oncology is a reference book designed to enable radiation oncologists, including those in training, to make diagnostic and treatment decisions effectively and efficiently. The design is based on the belief that "a picture is worth a thousand words." Knowledge is conveyed through an illustrative approach using algorithms, schemas, graphics, and tables. Detailed guidelines are provided for multidisciplinary cancer management and radiation therapy techniques. In addition to the attention-riveting algorithms for diagnosis and treatment, strategies for the management of disease at individual stages are detailed for all the commonly diagnosed malignancies. Clinical trials that have yielded "gold standard" treatment and their results are documented in the schemas. Moreover, radiation techniques, including treatment planning and delivery, are presented in an illustrative way. This groundbreaking publication is an essential tool for physicians in their daily clinical practice.

Imaging in Oncology John Wiley & Sons

This book, co-authored by an internationally acclaimed team of experts in the field of pediatric oncologic imaging, provides a comprehensive update on new advances in diagnostic imaging as they relate to pediatric oncology. In contrast to other oncologic imaging texts focusing on the radiology of specific tumors, this book emphasizes the important fundamentals of imaging that every child with a new or treated malignancy receives. Guidance is provided on the selection and use of appropriate imaging techniques, with individual chapters devoted to each of the major cross-sectional imaging modalities used in the detection and follow-up of pediatric cancers, including PET-CT, PET-MRI, whole-body MRI, and diffusion-weighted MRI. Additional nuclear medicine techniques are addressed, and detailed attention is paid to more advanced areas of practice such as contrast-enhanced ultrasound, pediatric interventional radiology techniques, radiation treatment planning, and radiation dose considerations (ALARA). Other areas covered include screening of children with cancer predisposition syndromes, treatment related complications, potential pitfalls during neuro-oncologic imaging, and the risks and benefits inherent in post-therapy surveillance imaging.

Diagnostic Imaging CRC Press

While many textbooks discuss diagnostic imaging and/or the management of cancer, *Radiation Oncology: Imaging and Treatment* is the first imaging book devoted to the advanced use of all imaging modalities in radiation oncology; including CT, PET/CT, MR, SPECT, 4D, ultrasound, and planar radiography). Also included are images of possible radiotherapy complications. It incorporates pearls related to planning external beam, SRS, SBRT, IGRT, LDR and HDR brachytherapy. Essential to the practicing and training radiation oncologist is a section dedicated to representative pathology, including the tumors most common for specific sites as well as a section devoted to radiotherapy didactic information, which includes appropriate dosages, fractionation schemes, local control rates, overall survival, and more. This book equips radiation oncologists with the most essential knowledge for their field.

Imaging in Pediatric Oncology Elsevier Health Sciences

Imaging is a critical component of the management of patients having radiotherapy. This book covers the basic principles of the main imaging modalities; site specific chapters give best practice for individual tumour sites, and it also contains information on radioprotection and regulatory issues.

Clinical PET and PET/CT Springer Science & Business Media

Interventional radiology plays an increasingly significant role in the clinical management of patients with cancer, replacing more invasive traditional methods and making it possible to deal with previously untreatable conditions. This state-of-the-art book describes the techniques currently used by interventional radiologists in the treatment and palliation of a variety of malignant conditions. Throughout, the emphasis is on practical issues. Every chapter has been written by a world expert in the topic concerned. This book will serve as an authoritative source of information and will be invaluable to those using interventional radiological techniques in the treatment of patients with malignant disease.

Diagnostic Imaging Springer

This pertinently illustrated and well referenced text serves as an up-to-date, attractive book of oncologic imaging for radiologists, oncologists, radiation therapists and others involved in oncologic

care. This volume, with chapter contributions from world-renowned experts, provides clinical and research information that underpins accurate interpretation and sensible use of cancer imaging. The book also highlights new developments and advances in oncologic imaging.

Imaging in Oncology Springer Science & Business Media

This lavishly illustrated operative atlas consists of detailed, step-by-step descriptions of the procedures used in reconstruction of the female urinary tract from the kidney to the urethra. It is based on the extensive operative experience of .

Diagnostic Imaging CRC Press

Ideal for trainees and practicing radiologists, *Diagnostic Imaging: Gastrointestinal, 3rd Edition* provides comprehensive coverage of every important topic in abdominal and gastrointestinal imaging. Featuring an increased number of illustrations, graphics, and multimodality imaging, this updated medical reference book will aid you in recognizing the characteristic and variant appearances of both common and uncommon abdominal disorders. User-friendly bulleted text and a uniform chapter layout allow fast and effortless access to the crucial knowledge you need! Expanded coverage of the most important topics and trends in fluoroscopic evaluation of the GI tract, including evaluation of patients before and after bariatric surgery, fundoplication, and surgery for esophageal carcinoma. Updated sections covering disorders of the liver, biliary tract, and pancreas with information and images regarding new classification and treatment implications for pancreatitis, including autoimmune (IgG4-related) pancreatitis. Increased number of illustrations of all appropriate imaging modalities, such as multiplanar CT, sonography, MR, and PET/CT. Offers information on all forms of acute and chronic hepatitis and cirrhosis, as well as critical knowledge regarding imaging techniques that allow radiologists to distinguish among focal lesions in the cirrhotic liver. Essential information is distilled into a succinct, bulleted format with numerous high-quality images and "Key Facts" boxes to facilitate learning.

Diseases of the Chest, Breast, Heart and Vessels 2019-2022 Springer Science & Business Media

Authored by some of the world's preeminent authorities in its field, this new book represents today's best single source of guidance on breast imaging! It presents more details for each diagnosis - more representative images - more case data - and more current references than any other reference tool. At the same time, its user-friendly format lets readers access all of this information remarkably quickly! Covers the top imaging diagnoses in breast, including both common and uncommon entities. Provides exquisitely reproduced imaging examples for every diagnosis-plus concise, bulleted summaries of terminology - imaging findings - key facts - differential diagnosis - pathology - clinical issues - a diagnostic checklist - and selected references. Includes an extensive image gallery for each entity, depicting common and variant cases. Offers a vivid, full-color design that makes the material easy to read. Displays a "thumbnail" visual differential diagnosis for each entity.

Dynamic Contrast-Enhanced Magnetic Resonance Imaging in Oncology Springer Science & Business Media

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.

Radiation Biology of Medical Imaging Wiley-Blackwell

A practical manual covering the full spectrum of PET and PET/CT imaging, now in common clinical practice, this book includes images of normal variants, artifacts, and pathologic conditions. Indications for and the relative clinical value of PET in the armamentarium of diagnostic medical imaging are reviewed. The information in the book is organized to be brief, concise, easy-to-understand and readily accessed. This book is intended for all health practitioners who need a concise reference and review of PET imaging indications, protocols and clinical applications. It will be useful to radiologists, nuclear medicine physicians, and clinicians who refer their patients to PET Centers for diagnostic imaging, including neurologists, neurosurgeons, psychiatrists, cardiologists, internists, and oncologists. Radiologic and nuclear medicine technologists, and physicians in training will also benefit from this work.

Radiological Imaging in Hematological Malignancies Lippincott Williams & Wilkins

One of the first book's to deal specifically with imaging of the entire spectrum of hematological malignancies. The use of the latest imaging modalities is well described, and an important aspect of the book is the role of imaging techniques in differentiating between manifestations of the underlying disease and complications of treatment. Each of the 28 chapters is written by an

internationally recognized expert, making this book the most current and complete treatment of this subject available. Includes many high-quality radiological and histological illustrations. It should be of great interest to radiologists and hematologists.

Diagnostic Imaging Elsevier Health Sciences

Cancer cells dedifferentiate with respect to cell function; their vascularity is more leaky, but perfusion is heterogeneously reduced, and interstitial fluid pressure is high, severely retarding delivery of agents from the blood. Targeted imaging is designed to produce a detectable difference between tissue that is visualized with single photon and positron emission tomography, magnetic resonance imaging, computed tomography, or ultrasonography. This book uniquely reports strategies for the application of molecular targeted imaging agents such as antibodies, peptides, receptors and contrast agents in the biologic grading of tumors, differential diagnosis of tumors, prediction of therapeutic response and monitoring tumor response to treatment. This book also describes updated information about the imaging of tumor angiogenesis, hypoxia, apoptosis and gene delivery as well as expression in the understanding and utility of tumor molecular biology for better cancer management.

Targeted Molecular Imaging in Oncology Springer Science & Business Media

The bestselling Diagnostic Imaging series now includes a comprehensive reference devoted to oncology. Written and edited by renowned experts in radiology, oncology, and body imaging, this book sets a new standard in cancer imaging references.

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