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PET/CT in Neuroendocrine Tumors

This pocket book provides up-to-date descriptions of the most relevant features of neuroendocrine tumors (NETs) and the imaging modalities currently available to assist specialists (clinicians, pathologists, radiologists, nuclear medicine physicians) in selecting optimal patient management based on interdisciplinary collaboration. As the title indicates, the focus is particularly on PET/CT, with coverage of basic principles, the available radiopharmaceuticals, indications, typical and atypical appearances, normal variants and artifacts, advantages, limitations, and pitfalls. In addition, succinct information is provided on the use of other imaging modalities, including SPECT, CT, and...[...]

PET/CT in Lymphomas

A Case-Based Atlas

Drawing on an extensive series of cases, this book describes and illustrates in detail the FDG-PET/CT appearances of the most common lymphomas in both adults and children, covering presentations at various anatomic sites. In addition, all other aspects of the current application of FDG-PET/CT in the evaluation and management of patients with malignant lymphomas are described. Full explanations are provided of the potential benefits and limitations of advanced PET/CT techniques and technologies that support novel chemotherapy and radiotherapy approaches in the treatment of lymphoma, and particular attention is paid to the major challenge of incorporating progress in quantitative...[...]

Image-Guided Stereotactic Radiosurgery

High-Precision, Non-invasive Treatment of Solid Tumors

This book provides the reader with a detailed update on the use of stereotactic radiosurgery (SRS) in patients with lesions of the brain and other parts of the body. The aim is not simply to explain the application of SRS and document its value with reference to the author’s own clinical experiences and other published evidence, but also to contextualize the technology within a new strategic concept of cancer care. When embedded within an appropriate conceptual framework, technology becomes pivotal in changing therapeutic strategies. A new paradigm that is increasingly impacting on clinical practice is the oligometastatic state, on the basis that long-term survival might be achieved[...]

PET/CT in Gynecological Cancers

This book is a pocket guide to the science and practice of PET/CT imaging of gynecological malignancies. The scientific principles of PET/CT, the radiopharmaceuticals used in the context of gynecological cancers, the role of PET/CT in these patients, the characteristic PET/CT findings, and limitations and pitfalls are all clearly described. In addition, information is provided on clinical presentation, diagnosis, staging, pathology, management, and radiological imaging. The book is published within the Springer series Clinicians’ Guides to Hybrid Imaging, which is aimed at referring clinicians, nuclear medicine/radiology physicians, radiographers/technologists, and nurses who[...]

Imaging Flow Cytometry

Methods and Protocols

This detailed volume for the first time explores techniques and protocols involving quantitative imaging flow cytometry (IFC), which has revolutionized our ability to analyze cells, cellular clusters, and populations in a remarkable fashion. Beginning with an introduction to technology, the book continues with sections addressing protocols for studies on the cell nucleus, nucleic acids, and FISH techniques using an IFC instrument, immune response analysis and drug screening. IFC protocols for apoptosis and cell death analysis, as well as morphological analysis and the identification of rare cells. Written for the highly successful Methods in Molecular Biology series, chapters include[...]

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Radiation Therapy Techniques and Treatment Planning for Breast Cancer

This book addresses the day-to-day treatment planning issues that radiation oncologists are likely to encounter during the treatment of breast cancer patients and provides numerous practical “tips” that will assist in navigation of the treatment planning process, from delineation of the tumor boundaries to discrimination of adjacent normal tissues and critical structures at risk of radiation injury. Differences in target delineation and treatment planning according to technique are emphasized, with coverage of conventional radiation therapy and advanced techniques including cardiac-sparing approaches, e.g., using active breathing control, intensity-modulated radiation therapy, proton [...] More on www.springer.com/978-3-319-40390-8

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CT Colonography for Radiographers
A Guide to Performance and Image Interpretation

This book explains every aspect of the role of radiographers in performing CT colonography (CTC) and interpreting CTC images with the aim of enabling radiographers to extend the scope of their practice. It provides all the information required with respect to procurement of informed consent, principles of CT and radiation dose, patient preparation and positioning, the use of contrast media, the performance of diagnostic and screening CTC studies, and the interpretation and reporting of images. A wide range of CTC findings are described and depicted, covering normal anatomy, artifacts, hemorrhoids, polyps, colon cancer, diverticular disease, lipomas, and extracolonic structures. In[...]
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Atlas of Diffuse Lung Diseases
A Multidisciplinary Approach
This atlas is designed as an easy-to-use reference guide that identifies and illustrates the key patterns of diffuse lung diseases observed on high-resolution computed tomography (HRCT) and then documents in more detail the characteristics and appearances of the individual diseases, grouped on the basis of their prevalent pattern. A further feature of the book is its interdisciplinary nature: contributions from experts in various specialties are tightly interwoven throughout and many pathologic correlations are included. Less experienced readers will find that this atlas, with its severity of these reactions improves quality of life and prevents interruptions that can compromise local-regional control. Each chapter is devoted to a specific disease site, such as the head and neck, breast, gastrointestinal, genitourinary, gynecologic, and central nervous system. Pediatric malignancies and wound care for locally advanced cancers are also discussed. For each topic, the range and frequency of the observed skin reactions, factors influencing these reactions, the[…]
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PET Scan in Hodgkin Lymphoma
Role in Diagnosis, Prognosis, and Treatment
This book describes the various contributions of positron emission tomography (PET) to the management of Hodgkin lymphoma and considers key issues in its use. A full explanation of the value of PET in disease staging and restaging is followed by discussion of its role in guiding individualized, response-adapted therapy in both early and advanced disease based on assessment of treatment sensitivity. Further chapters explore in detail the current application of PET for determination of tumor metabolic volume and planning of involved field radiotherapy. The book concludes by discussing PET scan reporting in clinical practice and the rules that have now been formally set following a[…]
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**Conventional Nuclear Medicine in Pediatrics**

A Clinical Case-Based Atlas

This superbly illustrated book combines the systematic approach of a textbook with the simplicity of consultation of an atlas in order to provide a comprehensive guide to the applications and benefits of scintigraphic studies in children. All of the clinical scenarios in which conventional nuclear medicine techniques frequently play a role in children are covered, with explanation of imaging diagnosis, the relevance of clinical history, problem solving, and pitfalls. The images themselves are the key focus of the book, and in each setting the added value offered by scintigraphy is carefully identified. The book also describes management of the pediatric patient and addresses general[...]

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**Quality in Nuclear Medicine**

This comprehensive textbook provides a state of the art overview of the means by which quality in patient care is ensured within the field of nuclear medicine. Acknowledged experts in the field cover both management aspects, such as laws, standards, guidelines, patient safety, management instruments, and organisations, and specific issues, including radiation safety and equipment. Quality in Nuclear Medicine not only presents detailed information on the topics discussed but should also stimulate further discussion and offer an important tool to all professionals in the field of nuclear medicine and their stakeholders. Readers will find that the book provides a wealth of excellent[...]

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**Breast MRI Teaching Atlas**

This atlas serves as a basic introduction to breast MRI. Organized by case, it emphasizes pertinent breast MRI findings and common indications for breast MRI. Topics include breast MRI basics, benign findings, breast malignancy, high-risk conditions, inter-
Doppler Echocardiography in Infancy and Childhood

This book covers the full range of Doppler echocardiography in infants and children, documenting the wide variety of potential findings with the aid of a wealth of high-quality images. The imaging features of more than 20 conditions on conventional two-dimensional echocardiography, pulsed wave, continuous wave and color Doppler imaging are described and depicted, drawing attention to differential diagnostic criteria and other issues of importance in everyday clinical practice. Each condition is individually addressed, covering all relevant aspects, and helpful information is also provided on the normal examination. The book is supplemented by more than 500 videos demonstrating typical [...] More on www.springer.com/978-3-319-42917-5

Interpreting X-Rays Clinical Practice

Trauma Care

In an emergency a junior doctor, often early in his/her training, will be called upon to give an opinion concerning an X-Ray. Whether or not it is reasonable to expect this group to be able to correctly interpret X-Rays, they often are expected to do so. The use of line drawings to explain the X-Ray appearance is a central aspect in the identification of important features. The contribution of a professional artist to this book greatly assists in producing rapid understanding of the individual X-Ray. A double page layout allows a didactic text to be placed opposite to the image/s. A schematic explanation of the observations is written in a simple but comprehensive manner. This book is [...] More on www.springer.com/978-1-84628-525-7

Pediatric and Adult MRI Atlas of Bone Marrow

Normal Appearances, Variants and Diffuse Disease States

This comprehensive atlas is unique in being devoted to the MRI appearances of bone marrow in the axial and appendicular skeleton of adults and children. Normal MRI findings, including common variants and degenerative changes, are first documented. MRI appearances in the entire spectrum of neoplastic and non-neoplastic infiltrative marrow disorders are then presented, with accompanying explanatory text. Among the conditions considered are multiple myeloma, the acute and chronic leukemias, diffuse metastases, diffuse lymphomas, the anemias, polycythemia vera, myelofibrosis, storage disorders, and infections. Characteristic changes to bone marrow following various forms of treatment are [...] More on www.springer.com/978-3-642-02739-0

Radiopharmaceuticals - A Clinical Perspective

The Mathematics and Biology of the Biodistribution of Radiopharmaceuticals - A Clinical Perspective

This book explores the mathematics and biology of the biodistribution of radiopharmaceuticals following their introduction into the body, but does so primarily from a clinical perspective – from the point of view of image interpretation and any associated image-derived quantification. All of the equations included in the book relate directly to the biodistribution of radiopharmaceuticals and are clinically useful, either conceptually or because of their value in quantifying a biological parameter, e.g., renal clearance. In particular, the more complex equations are not meant to be solved but instead are intended to provide a conceptual basis for the analysis of clinical images. [...] More on www.springer.com/978-3-319-26702-9

Oncologic Imaging: Urology

This book is designed as a reference and working guide for practitioners who deal with patients with neoplastic diseases of the urinary tract and male genitalia, including tumors of the kidney, ureter and urinary bladder, prostate, testis, adrenal gland, and retroperitoneum. Each chapter describes and illustrates key imaging findings relevant to the characterization, differential diagnosis, and staging of lesions. Pattern recognition is facilitated through the use of schematic drawings, and imaging findings on post-treatment follow-up also form an important component of the book. Brief core descriptions of related multidisciplinary fields, such as nuclear medicine, pathology, urologic [...] More on www.springer.com/978-3-662-45217-2
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**Giant Intracranial Aneurysms**

*A Case-Based Atlas of Imaging and Treatment*

This atlas focuses on the imaging and treatment options available for giant intracranial aneurysms since 1990s in the beginning of the so-called modern endovascular era. During this period, there were significant advances made in the therapy of small intracranial aneurysms though the treatment of giant aneurysms continued to pose an insurmountable challenge. At the turn of this century, this grim scenario gradually improved with better understanding of the pathophysiology of giant intracranial aneurysms. This changed scenario in giant intracranial aneurysm therapy has been illustrated with the aid of informative clinical case studies. The clinical presentation of giant...]
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**Spinal Canal Stenosis**

This easy-to-consult guide describes new minimally invasive procedures for the treatment of spinal canal stenosis that are accompanied by fewer complications and side-effects, reduce the risks of anesthesia, and lower costs. Clear accounts are provided of various CT and X-ray guided techniques for lumbar spinal canal and foraminal stenosis, including the use of spacers and minimally invasive lumbar decompression (MILD). Helpful introductory information is also provided on biomechanics and symptoms. Like other books in the Springer series New Procedures in Spinal Interventional Neuroradiology, this practice-oriented volume will fill a significant gap in the literature and meet the need...]
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**Hyperthermic Oncology from Bench to Bedside**

This comprehensive work broadens readers' understanding of the rudimentary mechanism of the anti-cancer effect of hyperthermia. It also presents state-of-the-art clinical outcomes by hyperthermia treatment of cancer. In the past few decades, basic and clinical research have shown through in vitro experiments that hyperthermia inhibits epithelial-mesenchymal transition (EMT), resulting in the prevention of metastasis. It also has been learned that hyperthermia shows its superior benefit when applied in combination with radiation therapy, chemotherapy, or various immunotherapies as treatments of...}

**Imaging Biomarkers**

*Development and Clinical Integration*

This is the first book to cover all aspects of the development of imaging biomarkers and their integration into clinical practice, from the conceptual basis through to the technical aspects that need to be considered in order to ensure that medical imaging can serve as a powerful quantification instrument capable of providing valuable information on organ and tissue properties. The process of imaging biomarker development is considered step by step, covering proof of concept, proof of mechanism, image acquisition, image preparation, imaging biomarker analysis and measurement, detection of measurement biases (proof of principle), proof of efficacy and effectiveness, and reporting of...]
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**Handbook of Image-Guided Brachytherapy**

This handbook provides a clinically relevant, succinct, and comprehensive overview of image-guided brachytherapy. Throughout the last decade, the utility of image guidance in brachytherapy has increased to enhance procedural development, treatment planning, and radiation delivery in an effort to optimize safety and clinical outcomes. Organized into two parts, the book discusses physics and radiobiology principles of brachytherapy as well as clinical applications of image-guided brachytherapy for various disease sites (central nervous system, eye, head and neck, breast, lung, gastrointestinal, genitourinary, gynecologic, sarcoma, and skin). It also describes the incorporation of...]
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**Imaging Non-traumatic Abdominal Emergencies in Pediatric Patients**

This book provides up-to-date, comprehensive, and accurate information on the diagnostic imaging of nontraumatic abdominal emergencies in pediatric patients. All of the most common neonatal and pediatric emergencies are covered, with separate discussion of diseases that occur more commonly in newborns and those typically encountered later in childhood. For each condition, the main signs observed using the various imaging techniques – X-ray, Ultrasonography, Computed Tomography, and Magnetic Resonance – are described and illustrated with the aid of a wealth of images. Attention is drawn
Brachytherapy
An International Perspective

This volume is the first truly international text to take the practitioner from the history, the physical basis, and the rationale of brachytherapy through to the techniques, the results, and the management of complications. It is also the first truly comprehensive and complete textbook of brachytherapy. The chapters on the physics of brachytherapy and the technical planning of internal and surface radiotherapy are designed to enhance the practitioner’s knowledge base and capabilities in this demanding specialty field. Disease site-specific chapters cover a wide range of applications, including ocular tumors, soft tissue sarcomas, cancers of the head and neck, skin, breast, lung, etc.

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Knee Imaging

This booklet, in A to Z format, is a succinct but wide-ranging guide to the use of MRI for investigations of the knee joint. It provides easily retrievable answers to the questions that arise frequently during daily radiological practice. All relevant injuries and disorders are covered, typically with brief descriptions of pathological and clinical characteristics, guidance on selection of imaging technique, identification of potential diagnostic clues, and highlighting of useful tips and tricks. In addition, practical, state-of-the-art information is provided on other aspects of relevance. Characteristic images are included as necessary. Knee Imaging, published within the series A-Z Notes in Radiological Practice and Reporting.

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Intraoperative Ultrasound (IOUS) in Neurosurgery

From Standard B-mode to Elastosonography

This book is intended as a practical manual on the use of intraoperative ultrasound (IOUS) as a tool for imaging guidance during cranial and spinal neurosurgical procedures. Full account is taken of the emergence of novel clinical applications and recent technical advances, with extensive coverage of the impact of developments such as improved probe technology, fusion imaging and virtual navigation, 3D ultrasound imaging, contrast-enhanced ultrasound, and elastosonography. Basic principles of ultrasound are elucidated in order to assist in the optimal use of IOUS and clear guidance is provided on the interpretation of imaging findings in various pathologies. Informative comparisons.

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Recognizing Child Abuse in Radiology

This book is both a personal review of experience in the diagnosis of child abuse and its differential diagnosis, intended to instruct beginners, and a reliable source of information for the more experienced health care provider. Emphasis is placed on normal findings that simulate abuse, true and false diagnoses of metabolic bone disease as the cause of fractures, abusive head trauma, and the problem of zealous abuse-denying “experts.” Plain radiography is emphasized, with appropriate mention of, ultrasound, CT, MRI, - in detecting childhood abuse is clearly explained, and individual chapters focus on neuroradiological evaluation and the radiological assessment of abdominal, thoracic, etc.

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RadTool Nuclear Medicine Flash Facts

This book is a learning aid and reference tool that provides all the important information pertaining to radioactive tracers within a single, easy-to-read volume. It introduces a new learning methodology that will help the reader to recall key facts on each tracer, including production, physical and chemical characteristics, study protocols, mechanism of action, distribution, and clearance. In addition, normal and abnormal tracer distributions are graphically reproduced on an outline of the human body using multiple colors. The book will be of value for all radiologists and medical students seeking a reliable source of essential information on radioactive tracers that can be readily...[...]

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