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Functional Imaging In Oncology Clinical

This two-volume book is a practical manual on the various imaging techniques capable of delivering functional information on cancer, including diffusion MRI, perfusion CT and MRI, dual-energy CT,

spectroscopy, dynamic contrast-enhanced ultrasonography, PET, and hybrid modalities.

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In the new era of functional and molecular imaging, both currently available imaging biomarkers and biomarkers under development are expected to lead to major changes in the management of oncological patients. This two-volume book is a practical manual on the various imaging techniques capable of delivering functional information on cancer, including diffusion MRI, perfusion CT and MRI, dual-energy CT, spectroscopy, dynamic contrast-enhanced ultrasonography, PET, and hybrid modalities.

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Functional Imaging in Oncology: Clinical Applications ...
Introduction. In the new era of functional and molecular imaging, both currently available imaging biomarkers and biomarkers under development are expected to lead to major changes in the management of oncological patients. This well-illustrated two-volume book is a practical manual on the various imaging techniques capable of delivering functional information on cancer, including preclinical and clinical imaging techniques, based on US, CT, MRI, PET and hybrid modalities.

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"Over the past several years, molecular and functional imaging tools have advanced to the point where it is now widely used in cancer clinical research," says Dr Lalitha Shankar of the US National...

Risk management plan for functional imaging in cancer ...
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Functional Imaging in Oncology: Clinical Applications ...
We will try to provide the reader with a balanced introduction to one well?known and two newer functional imaging modalities in lung cancer (Table 1), namely integrated positron emission tomography and CT with 18 F?FDG (FDG?PET/CT) assessing tissue metabolism, dynamic contrast?enhanced CT (DCE?CT) estimating tumour blood flow and blood volume and diffusion?weighted magnetic resonance imaging (DW?MRI) exploring cellular density (cellularity and the integrity of cell membranes.

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Conventional imaging techniques, such as computed tomography (CT), ultrasound, and magnetic resonance imaging (MRI), play an integral role in the detection of disease at a macroscopic level. However, molecular functional imaging (MFI) techniques entail the visualisation and quantification of biochemical and physiological processes occurring during tumorigenesis, and thus has the potential to play a key role in heralding the transition from the concept of 'one size fits all' to 'precision ...

The Continuing Evolution of Molecular Functional Imaging ...
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9783642404122 - Functional Imaging in Oncology
Functional magnetic resonance imaging is rapidly evolving as a capable noninvasive assessment tool for oncology to improve diagnosis and to monitor therapy. Current clinical techniques are based on microcirculation imaging using extracellular low molecular weight contrast agents such as gadopentetate dimeglumine and analogues.

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Steady and rapid advances in imaging in the last few decades have changed oncological disease management today to a multidisciplinary team effort with an exciting role played by the radiologist.

Imaging in oncology: Recent advances
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In the new era of functional and molecular imaging, both currently available imaging biomarkers and biomarkers under development are expected to lead to major changes in the management of oncological patients. This two-volume book is a practical manual on the various imaging techniques capable of delivering functional information on cancer, including diffusion MRI, perfusion CT and MRI, dual-energy CT, spectroscopy, dynamic contrast-enhanced ultrasonography, PET, and hybrid modalities. This second volume considers the applications and benefits of these techniques in a wide range of tumor types, including their role in diagnosis, prediction of treatment outcome, and early evaluation of treatment response. Each chapter addresses a specific malignancy and is written by one or more acclaimed experts. The lucid text is complemented by numerous high-quality illustrations that highlight key features and major teaching points.

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In the new era of functional and molecular imaging, both currently available imaging biomarkers and biomarkers under development are expected to lead to major changes in the management of oncological patients. This well-illustrated two-volume book is a practical manual on the various imaging techniques capable of delivering functional information on cancer, including preclinical and clinical imaging techniques, based on US, CT, MRI, PET and hybrid modalities. This first volume explains the biophysical basis for these functional imaging techniques and describes the techniques themselves. Detailed information is provided on the imaging of cancer hallmarks, including angiogenesis, tumor metabolism, and hypoxia. The techniques and their roles are then discussed individually, covering the full range of modalities in clinical use as well as new molecular and functional techniques. The value of a multiparametric approach is also carefully considered.

This issue of MRI Clinics of North America focuses on Functional MRI in Oncology. Articles will include: Functional MRI techniques in oncology in the era of personalized medicine, MRI biomarkers and surrogate endpoints in oncology clinical trials, Therapy monitoring with functional MRI, Multiparametric MRI in the assessment of brain tumors, Multiparametric MRI of breast cancer, Functional MRI in chest malignancies, Multiparametric MRI in abdominal malignancies, Assessment of musculoskeletal malignancies with functional MRI, Evaluation of head and neck tumors with functional MRI, Role of multiparametric MRI in malignancies of the urogenital tract, Diffusion-weighted imaging in oncology, Functional MRI in gynecologic cancer, Assessment of angiogenesis with MRI: DCE-MRI and beyond, Imaging of tumor metabolism: MR spectroscopy, and more!

The first text designed specifically with clinical practitioners in mind, Functional Neuroimaging demonstrates the clinical application and utilization of functional neuroradiology for early diagnosis, neurological decision-making, and assessing response to cancer therapy. Edited by the Founding President of American Society of Functional Neuroradi

This is the second edition of a well-received book reflecting the state of the art in oncologic imaging

research and promoting mutual understanding and collaboration between radiologists and clinical oncologists. It presents all currently available imaging modalities and covers a broad spectrum of oncologic diseases for most organ systems. Today, oncologic imaging faces the challenge of improving and refining concepts for precise tumor delineation and biologic/functional tumor characterization, as well as for purposes of creating individual treatment plans. The concept of radiomics has further advanced the conversion of images into mineable data and subsequent analysis of said data for decision-making support. Since the release of the book’s first edition, radiomics has been introduced in oncology studies and can be performed with tomographic images from CT, MRI and PET/CT studies. The combination of radiomic data with genomic features is known as radiogenomics, and can potentially offer additional decision-making support. This book will be of interest to clinical oncologists with regard to the diagnosis, staging, treatment and follow-up on various tumors affecting the CNS, chest, abdomen, urogenital and musculoskeletal systems.

The impact of molecular imaging on diagnostics, therapy, and follow-up in oncology is increasing steadily. Many innovative molecular imaging probes have already entered clinical practice, and there is no doubt that the future emphasis will be on multimodality imaging in which morphological, functional, and molecular imaging techniques are combined in a single clinical investigation. This handbook addresses all aspects of molecular imaging in oncology, from basic research to clinical applications. The first section is devoted to technology and probe design, and examines a variety of PET and SPECT tracers as well as multimodality probes. Preclinical studies are then discussed in detail, with particular attention to multimodality imaging. In the third section, diverse clinical applications are presented, and the book closes by looking at future challenges. This handbook will be of value to all who are interested in the revolution in diagnostic oncology that is being brought about by molecular imaging.

This book is a detailed guide to therapy response imaging in cancer patients that fully takes into account the revolutionary progress and paradigm shift in treatment approaches for advanced disease. The opening chapters describe the role of imaging as a “common language” for tumor response evaluation in oncology and address challenges and strategies in the era of precision cancer therapy and cancer immunotherapy. Practical pitfalls are discussed, with emphasis on the importance of approaching cancer as a systemic disease and the need for increased awareness of drug toxicity due to novel therapies. Therapy response imaging in a wide range of cancer types is then comprehensively described and illustrated, using a disease-specific approach. A concluding section focuses on emerging approaches and future directions, including radiomics/radiogenomics, co-clinical imaging, and molecular and functional

imaging. Therapy Response Imaging in Oncology will be of high value for radiologists, nuclear medicine physicians, and oncologists. It will also be of interest to cancer care providers and oncology trial investigators.

This book presents a comprehensive overview of current state-of-the-art clinical physiological imaging of brain tumors. It focuses on the clinical applications of various modalities as they relate to brain tumor imaging, including techniques such as blood oxygen level dependent functional magnetic resonance imaging, diffusion tensor imaging, magnetic source imaging/magnetoencephalography, magnetic resonance perfusion imaging, magnetic resonance spectroscopic imaging, amide proton transfer imaging, high angular resolution diffusion imaging, and molecular imaging. Featuring contributions from renowned experts in functional imaging, this book examines the diagnosis and characterization of brain tumors, details the application of functional imaging to treatment planning and monitoring of therapeutic intervention, and explores future directions in physiologic brain tumor imaging. Intended for neuro-oncologists, neurosurgeons, neuroradiologists, residents, and medical students, Functional Imaging of Brain Tumors is a unique resource that serves to advance patient care and research in this rapidly developing field.

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