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Atlas of Skeletal SPECT/CT Clinical Images

INTERNATIONAL ATOMIC ENERGY AGENCY, SPECT/CT Atlas of Quality Control and Image Artefacts, Human Health Series No. 36, IAEA, Vienna (2019). Multi-modality imaging has become increasingly prevalent in ...

SPECT/CT Atlas of Quality Control and Image Artefacts

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The field of nuclear medicine has evolved rapidly in recent years, and one very important aspect of this progress has been the introduction of hybrid imaging systems. PET-CT has already gained widespread acceptance in many clinical settings, especially within oncology, and now SPECT-CT promises to emulate its success. Useful applications of this new approach have been identified not only in oncology but also in endocrinology, cardiology, internal medicine, and other specialties. This atlas, which includes hundreds of high-quality images, is a user-friendly guide to the optimal use and interpretation of SPECT-CT. The full range of potential SPECT-CT applications in clinical routine is considered and assessed by acknowledged experts. The book is designed to serve as a reference text for both nuclear physicians and radiologists; it will also provide fundamental support for radiographers, technologists, and nuclear medicine and radiology residents.

This atlas showcases cross-sectional anatomy for the proper interpretation of images generated from PET/MRI, PET/CT, and SPECT/CT applications. Hybrid imaging is at the forefront of nuclear and molecular imaging and enhances data acquisition for the purposes of diagnosis and treatment. Simultaneous evaluation of anatomic and metabolic information about normal and abnormal processes addresses complex clinical questions and raises the level of confidence of the scan interpretation. Extensively illustrated with high-resolution PET/MRI, PET/CT and SPECT/CT images, this atlas provides precise morphologic information for the whole body as well as for specific regions such as the head and neck, abdomen, and musculoskeletal system. Atlas and Anatomy of PET/MRI, PET/CT, AND SPECT/CT is a unique resource for physicians and residents in nuclear medicine, radiology, oncology, neurology, and cardiology.

The long-awaited third edition of An Atlas of Clinical Nuclear Medicine has been revised and updated to encapsulate the developments in the field since the previous edition was published nearly two decades ago. Highlights of the Third Edition: Adopts a structured format throughout for quick assimilation Includes expanded coverage of new radiopharmaceuticals, PET/CT, and SPECT/CT Contains new chapters on paediatrics, oncology, and infection imaging Presents a comprehensive set of top-quality nuclear image scans Provides helpful teaching points The previous editions of this book received various awards, including Honorable Mention from the Association of American Publishers in 1988 and the Glaxo Prize for Medical Writing in 1989. This foundation has been built upon and expanded to provide the ultimate guide for beginners, those in training, and experienced practitioners.

This state-of-the-art, lavishly illustrated atlas is your visual guide to fusion imaging of all parts of the body. It combines CT with molecular imaging modalities such as PET and SPECT, resulting in significantly enhanced resolution of tumors and other disease processes that give you a unique view into their diagnosis, localization, and spread. Edited by the pioneers of fusion imaging, this new resource will help you more accurately diagnose and effectively guide treatment of human malignancies, including head and neck, lung, colon, ovarian, breast, lymphoma, melanoma, and many others, as well as other diseases such as infections. Emerging techniques such as PET/CT and SPECT/CT offer better diagnostic accuracy. More than 1,000 full-color images help you solve your toughest diagnostic challenges. Hundreds of case studies of normal and abnormal findings provided by two leading academic centers in nuclear medicine let you compare your findings with theirs. Fusion imaging lets you provide the most appropriate treatment based on your findings. Summaries and Key Points boxes for each case assist you in locating key content more easily. The accompanying DVD-ROM, which contains many fully navigable PET/CT and SPECT/CT cases for viewing and analysis, with cross-modality image fusion offers exceptional visual guidance. This DVD-ROM uses RAPID Software provided by Hermes Medical Solutions. www.hermesmedical.com.

This timely atlas details advancements in PET/CT and SPECT/CT. Each chapter provides nuclear medicine practitioners, radiologists, oncologists, and residents with detailed information on normal anatomy of FDG PET/CT, variations and artifacts of FDG PET/CT, normal anatomy of non-FDG PET/CT, and normal anatomy of PET/CT and SPECT/CT. Coverage emphasizes anatomy to reinforce the names of organs and to support familiarization with normal and abnormal findings. The atlas has been compiled with help from experienced contributors from several top international imaging centers. Throughout the text, four-color images aid readers in proper interpretation.

The horizons of sophisticated imaging have expanded with the use of combined positron emission tomography (PET) and computed tomography (CT). PET-CT has revolutionized medical imaging by adding anatomic localization to functional imaging, thus providing physicians with information that is vital for the accurate diagnosis and treatment of pathologies. Since the integration of PET and CT several years ago, PET/CT procedures are now routine at leading medical centers throughout the world. This has increased the importance of nuclear medicine physicians acquiring a broad knowledge in sectional anatomy for image interpretation. The Atlas of Sectional Radiological Anatomy for PET/CT is a user-friendly guide presenting high-resolution, full-color images of anatomical detail and focuses solely on normal FDG distribution throughout the head & neck, thorax, abdomen, and pelvis, the primary sites for cancer detection and treatment through PET/CT.

Positron emission tomography/computed tomography (PET/CT), as any other imaging modality, is acceptable for routine clinical and research applications only if technical pitfalls can be avoided. Artefacts from incorrect or sub-optimal acquisition procedures should be recognized and, if possible, corrected retrospectively and the resulting image information interpreted correctly, which entails an appreciation of variants of the represented image information. This publication provides guidance on the physics and technical aspects behind PET and PET/CT image distortions. Cases are presented to provide nuclear medicine and radiology professionals with an assortment of examples of possible image distortions and errors in order to support a correct image interpretation. Nearly 70 typical PET and PET/CT cases, comprising image sets and cases, have been collected in this volume; all catalogued and augmented with explanations as to the causes of, and solutions to, each individual image problem. The atlas will prove useful to physicists, physicians, technologists, and service engineers in the clinical field.

The thoroughly revised, updated Third Edition of this acclaimed atlas is a valuable aid to interpreting pulmonary HRCT scans, and an excellent complement to Webb, Müller and Naidich's High-Resolution CT of the Lung, Fourth Edition. Featuring over 900 large images—almost all new to this edition—the atlas depicts the full spectrum of HRCT appearances of diseases affecting the airways and pulmonary parenchyma. The images are all accompanied by telling legends that are much easier to follow than lengthy blocks of text. This edition includes new material on adult presentations of congenital lesions, drug reactions, mycobacterial diseases, smoking-related interstitial disease, and viral pneumonias.

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