
Download Ebook Brain Ct Scans In Clinical Practice

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KEY=BRAIN - DECKER SANAA

BRAIN CT SCANS IN CLINICAL PRACTICE

Springer Science & Business Media **Across emergency rooms all over the world, thousands of patients are referred for brain CT scans daily. A radiologist often has to interpret the scan or a consultation has to be made to a neuro-geon to review the scan. Most of this happens late at night and is a sign?cant source of discontent. Thus having frontline physicians to be pro?cient in interpreting the emergency brain CT scan improves the ef?ciency of the whole pathway of care and is pot- tially life saving as time is of the essence for many patients with severe brain injury or stroke. Underlying all of the above and the primary reason for writing this book is because the skill required to determine an immediate life threatening abnormality in a brain CT scan is so basic and can be learned in a short time by people of various backgrounds and certainly by all physicians. 'Indeed the emergency head CT scan is comparable to an electrocardiogram in usefulness and most de?nitely as easy to learn. ' This book is therefore written for ca- givers the world over to demystify the emergency CT brain scan and to empower them to serve their patients better. It is obvious to me from the response from people I have had opportunity to teach this subject that not only is there a desire to learn this basic skill but also people learn it quickly and wonder why it has not been presented so simply before.**

BRAIN CT SCANS IN CLINICAL PRACTICE (2009).

BRAIN IMAGING WITH MRI AND CT

AN IMAGE PATTERN APPROACH

Cambridge University Press **Most imaging books are ordered according to underlying etiology. However, in real life clinical practice, radiologists usually make their differential diagnoses according to the image patterns, as the etiology is often unknown. Brain Imaging with MRI and CT presents over 180 disease processes and normal variants, grouping entities by these basic patterns to accentuate differential diagnostic features. High quality CT and MRI scans show multiple typical and distinguishing images for each entity. Common and unusual clinical scenarios are described, including dilated perivascular spaces, capillary teleangiectasia, Susac's syndrome and desmoplastic infantile ganglioglioma. Both basic and advanced imaging techniques are used, reflecting the reality of clinical practice. This image-focused book emphasises the most pertinent clinical information relevant to the diagnostic process. Trainee and practising radiologists will find Brain Imaging with MRI and CT an invaluable and clinically relevant tool for learning and teaching.**

INTERPRETATION OF EMERGENCY HEAD CT

A PRACTICAL HANDBOOK

Cambridge University Press **Interpretation of Emergency Head CT is an invaluable quick reference to the key aspects of the head CT. It provides the clinician with an easy-to-use 'ABCs' system to analyse any head CT scan that may be encountered in the acute setting. Section 1 contains both a comprehensive section on radiological anatomy of the brain showing cranial anatomy overlaid onto CT images and technical details of CT imaging in a simplified form. Section 2 covers the wide gamut of conditions that are likely to be encountered in acute medical practice. Pitfalls are highlighted and tips are included to assist the recognition of important signs, along with ways to distinguish other pathologies with a similar appearance. This is an excellent practical resource for all clinicians who utilise CT scans of the head as part of their patient management.**

PET/CT IN CLINICAL PRACTICE

Springer Science & Business Media **Emphasizing practical technique over underlying physics, this book discusses the use of PET/CT imaging in lung, lymphoma, esophageal, colorectal, head/neck and melanoma, and tumors of the reproductive**

system. Each chapter offers a summary of the appropriate staging system, and a full chapter is devoted to the range of normal PET/CT appearances. Focusing primarily on FDG-PET/CT, the text includes a review of future application of other positron emitters, and a beginners guide to the physics of PET/CT. Concise, relevant and illustrated with many detailed PET/CT images, it is essential reading for consultants and medical students in radiology, nuclear medicine and oncology.

BRAIN IMAGING

A GUIDE FOR CLINICIANS

Oxford University Press This book is designed to provide a foundation of information necessary to those wishing to integrate brain imaging into their practice or who seek more training. Information is provided to assist the clinician in interpreting images, determining which scans to order, and how images should be used in the clinic.

PET AND PET/CT

A CLINICAL GUIDE

Thieme Praise for this book: Sure to be a hit -- just like the first edition...All the chapters are well written and the accuracy of information is impressive...[we] cannot recommend the book strongly enough.--RAD Magazine Returning in a second edition, this practical book presents oncological and nononcological applications for PET and PET/CT for the full range of scenarios frequently encountered in the professional setting. Placing special emphasis on PET/CT correlation and FDG oncological imaging, it opens with a thorough introduction to fundamental science and clinical basics. Each chapter in the Oncological Applications section of the book describes the role of PET and PET/CT in the management of specific diseases, providing succinct descriptions of indications and comparisons with other imaging modalities. Highlights: New chapters covering PET/CT for pediatric patients; the use of FDG PET in the evaluation of infection and inflammation; and the role of PET and PET/CT in radiation therapy planning; and FDG biology More than 500 high-quality images, including state-of-the-art color PET/CT images Pearls and pitfalls that emphasize critical concepts Discussion of normal variations and benign findings Thorough review of the current literature on PET/CT This compact book provides readers with the tools to sharpen their assessment and decision-making skills. Organized efficiently to enable rapid reference to key concepts, this concise text is ideal for residents and practitioners in

radiology, nuclear medicine, oncology, radiation oncology, and nuclear medicine technology.

PET/CT

ESSENTIALS FOR CLINICAL PRACTICE

Springer Science & Business Media **This pocket guide provides concise discussion on the effective use of PET and PET/CT in patient management for a wide range of clinical conditions. Introductory chapters cover the fundamentals: basic science, patient preparation, and logistical considerations. The body of the guide examines the role of PET in the management of malignancies such as lymphoma, melanoma, and colorectal cancer. Additional chapters discuss use of PET for pancreatic, ovarian, and cervical cancers, sarcoma, and seminoma, and outlines cardiologic and neurologic applications. The final chapter considers the appropriateness, timing, and limitations of PET in common clinical case scenarios. Select images supplement the text.**

IMAGING OF HEAD AND NECK CANCER

Cambridge University Press **Looks at all available imaging methods for head and neck cancer, highlighting the strengths and weaknesses of each method.**

PEDIATRIC NEURORADIOLOGY

CLINICAL PRACTICE ESSENTIALS

Thieme **FOUR STARS from Doody's Star Ratings™ Highly recommended -- Pediatric Endocrinology Reviews This is a very useful book, particularly for junior residents on their first rotation in neuroradiology or pediatric radiology. The discussion of all imaging modalities, including ultrasound, is very well done. This is a must-have for all residency libraries. -- Doody's Book Review (Score: 95) Written in the concise and engaging style of leading neuroradiologist Dr. Asim Choudhri, Pediatric Neuroradiology is a highly practical reference focusing on the most common, serious, and challenging conditions seen in the specialty. This book offers concise guidelines on very complex topics related to the areas of pediatric neuroradiology in which it is crucial that radiologists make correct diagnoses. Key Features: Focuses on the practical, clinical needs of neuroradiologists and pediatric radiologists, as well as all radiologists, neurosurgeons, and neurologists who care for children Sections dedicated to the brain, head and neck, and spine More**

than 780 high-quality radiographs, MRIs, and CT scans clarify the information presented in the book. Three appendices containing information on protocolling and interpreting/reporting studies aid correct interpretation of the studies. A quick reference guide enables clinicians to determine the optimal approach to imaging evaluation of neurological symptoms and conditions in children. *Pediatric Neuroradiology* is a key reference that residents and practitioners in the specialty will frequently consult to guide them in the diagnosis and treatment planning of children suffering from neurologic disorders.

MEDICAL IMAGING IN CLINICAL PRACTICE

BoD - Books on Demand **Medical Imaging in Clinical Practice** is a compendium of the various applications of imaging modalities in specific clinical conditions. It captures in an easy to read manner, the experiences of various experts drawn from across the globe. It explores the conventional techniques, advanced modalities and on going research efforts in the ever widening horizon of medical imaging. The various topics would be relevant to residents, radiologists and specialists who order and interpret various medical imaging procedures. It is an essential for the inquisitive mind, seeking to understand the scope of medical imaging in clinical practice.

POSITRON EMISSION TOMOGRAPHY

CLINICAL PRACTICE

Springer Science & Business Media **This book provides a contemporary reference to the science, technology and clinical applications of PET and PET/CT. The book is designed to be used by residents and fellows training in medical imaging specialties as well as imaging experts in private or academic practice who need to become familiar with this technology and its applications. It is also for use by those whose specialties carry over to PET and PET/CT, referring physicians such as oncologists, cardiologists, neurologists and surgeons. Developed as an offshoot/update of the "clinical practice" portion of the main book, edited by PE Valk et al, published in 2003 (Positron Emission Tomography: basic science and clinical practice), this offshoot covers the second half of the main book only, dealing with mainly the clinical research and practice. Most of the book comprises chapters updated from the "Clinical practice" portion of the main Valk book. It contains 6 brand new chapters and 22 completely revised and updated chapters from the main Valk book.**

CT OF THE HEAD AND SPINE

Thieme This book provides the essential information needed for formulating findings in CT of the head and spine. The book is conceived as a highly practical guide for use in routine CT diagnosis, as well as in critical on-call emergency situations. The features:- Condenses information to the core questions of the diagnostic problem at hand without oversimplifying: What does the clinician want to know? What must be included in the findings, and what differential diagnosis must be excluded?- Clear and didactic organization of information in pathogenesis, clinical findings, and CT morphology- Convenient summaries, offset by a second color, provide information to be used during the CT examination that assure that nothing will be overlooked- Detailed descriptions of normal anatomy with normal values help to differentiate pathologic from normal findings.

ESSENTIALS OF NEUROIMAGING FOR CLINICAL PRACTICE

American Psychiatric Pub The use of neuroimaging studies in psychiatry is exploding -- and offers tremendous potential for practicing clinicians. Yet if you're like many psychiatrists, you're sometimes uncertain about which studies to use in specific situations. Until now, you've had to sort through the only information available -- technical reviews in the literature -- for guidance. But no more. Essentials of Neuroimaging for Clinical Practice is an all-in-one resource that explains how to use these powerful techniques to improve outcomes. It demystifies neuroimaging with clear, concise, and practical advice on using today's most advanced applications in the diagnostic workup of patients. This practical clinical guide will help you achieve a solid understanding of the full range of neuroimaging modalities: Structural techniques such as computed tomography (CT) and magnetic resonance imaging (MRI) Functional techniques such as positron emission tomography (PET), single photon emission computed tomography (SPECT), functional magnetic resonance imaging (fMRI), and magnetic resonance spectroscopy (MRS) Other techniques such as electroencephalography (EEG) -- including quantitative EEG and event-related potentials -- and magnetoencephalography. For each modality, you'll find: A basic review of the technique -- trace the development of each modality, and become familiar with its underlying technology. Guidance on when to use it -- learn which techniques are best to use in specific clinical situations. Tips for ordering studies -- discover how to write up orders to obtain the most accurate and detailed information from each study, including when to use contrast and how to determine the best acquisition parameters. A look at its future potential in practice and research -- explore the current capabilities of each modality and the most promising strategies for improving diagnostic results. Filled with examples

of real-life imaging studies, *Essentials of Neuroimaging for Clinical Practice* is a must-have tool for all practicing psychiatrists and psychologists. In addition, it will serve as an excellent clinical guide for residents -- and an outstanding text for courses in clinical neuroimaging for psychiatrists.

INFORMATION PROCESSING AND MANAGEMENT OF UNCERTAINTY IN KNOWLEDGE-BASED SYSTEMS

18TH INTERNATIONAL CONFERENCE, IPMU 2020, LISBON, PORTUGAL, JUNE 15-19, 2020, PROCEEDINGS, PART I

Springer Nature This three volume set (CCIS 1237-1239) constitutes the proceedings of the 18th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2020, in June 2020. The conference was scheduled to take place in Lisbon, Portugal, at University of Lisbon, but due to COVID-19 pandemic it was held virtually. The 173 papers were carefully reviewed and selected from 213 submissions. The papers are organized in topical sections: homage to Enrique Ruspini; invited talks; foundations and mathematics; decision making, preferences and votes; optimization and uncertainty; games; real world applications; knowledge processing and creation; machine learning I; machine learning II; XAI; image processing; temporal data processing; text analysis and processing; fuzzy interval analysis; theoretical and applied aspects of imprecise probabilities; similarities in artificial intelligence; belief function theory and its applications; aggregation: theory and practice; aggregation: pre-aggregation functions and other generalizations of monotonicity; aggregation: aggregation of different data structures; fuzzy methods in data mining and knowledge discovery; computational intelligence for logistics and transportation problems; fuzzy implication functions; soft methods in statistics and data analysis; image understanding and explainable AI; fuzzy and generalized quantifier theory; mathematical methods towards dealing with uncertainty in applied sciences; statistical image processing and analysis, with applications in neuroimaging; interval uncertainty; discrete models and computational intelligence; current techniques to model, process and describe time series; mathematical fuzzy logic and graded reasoning models; formal concept analysis, rough sets, general operators and related topics; computational intelligence methods in information modelling, representation and processing.

ADVANCED MR IMAGING IN CLINICAL PRACTICE, AN ISSUE OF RADIOLOGIC CLINICS OF NORTH AMERICA,

Elsevier Health Sciences Editor Hersh Chandarana, MD and authors review *Advanced MR Imaging in Clinical Practice*.

Articles will include: Current Status of Diffusion Weighted Imaging; Current Status of Perfusion Weighted Imaging; Non-gadolinium Enhanced MR Angiography; Pearls and Pitfalls of 3 T imaging; Implementing MR Neurography in Clinical Practice; Imaging around Hardware and Metal; Recent Advances in T1- and T2-Weighted Imaging of the Abdomen and Pelvis; Recent Advances in Neuro and Spine Imaging; Advances in MR Hardware and Software, and more!

EMERGING IMAGING TECHNOLOGIES IN MEDICINE

Taylor & Francis **From the discovery of x-rays in 1895 through the emergence of computed tomography (CT) in the 1970s and magnetic resonance imaging (MRI) in the 1980s, non-invasive imaging has revolutionized the practice of medicine. While these technologies have thoroughly penetrated clinical practice, scientists continue to develop novel approaches that promise to push imaging into entirely new clinical realms, while addressing the issues of dose, sensitivity, or specificity that limit existing imaging approaches. Emerging Imaging Technologies in Medicine surveys a number of emerging technologies that have the promise to find routine clinical use in the near- (less than five years), mid- (five to ten years) and long-term (more than ten years) time frames. Each chapter provides a detailed discussion of the associated physics and technology, and addresses improvements in terms of dose, sensitivity, and specificity, which are limitations of current imaging approaches. In particular, the book focuses on modalities with clinical potential rather than those likely to have an impact mainly in preclinical animal imaging. The last ten years have been a period of fervent creativity and progress in imaging technology, with improvements in computational power, nanofabrication, and laser and detector technology leading to major new developments in phase-contrast imaging, photoacoustic imaging, and optical imaging.**

ICRP PUBLICATION 135

DIAGNOSTIC REFERENCE LEVELS IN MEDICAL IMAGING

SAGE Publications Limited

ACUTE ISCHEMIC STROKE

IMAGING AND INTERVENTION

Springer Science & Business Media **This updated second edition of Acute Ischemic Stroke: Imaging and Intervention**

provides a comprehensive account of the state of the art in the diagnosis and treatment of acute ischemic stroke. The basic format of the first edition has been retained, with sections on fundamentals such as pathophysiology and causes, imaging techniques and interventions. However, each chapter has been revised to reflect the important recent progress in advanced neuroimaging and the use of interventional tools. In addition, a new chapter is included on the classification instruments for ischemic stroke and their use in predicting outcomes and therapeutic triage. All of the authors are internationally recognized experts and members of the interdisciplinary stroke team at the Massachusetts General Hospital and Harvard Medical School. The text is supported by numerous informative illustrations, and ease of reference is ensured through the inclusion of suitable tables. This book will serve as a unique source of up-to-date information for neurologists, emergency physicians, radiologists and other health care providers who care for the patient with acute ischemic stroke.

DIAGNOSTIC IMAGING FOR THE EMERGENCY PHYSICIAN E-BOOK

Elsevier Health Sciences **Diagnostic Imaging for the Emergency Physician**, written and edited by a practicing emergency physician for emergency physicians, takes a step-by-step approach to the selection and interpretation of commonly ordered diagnostic imaging tests. Dr. Joshua Broder presents validated clinical decision rules, describes time-efficient approaches for the emergency physician to identify critical radiographic findings that impact clinical management and discusses hot topics such as radiation risks, oral and IV contrast in abdominal CT, MRI versus CT for occult hip injury, and more. **Diagnostic Imaging for the Emergency Physician** has been awarded a 2011 PROSE Award for Excellence for the best new publication in Clinical Medicine. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Choose the best test for each indication through clear explanations of the "how" and "why" behind emergency imaging. Interpret head, spine, chest, and abdominal CT images using a detailed and efficient approach to time-sensitive emergency findings. Stay on top of current developments in the field, including evidence-based analysis of tough controversies - such as indications for oral and IV contrast in abdominal CT and MRI versus CT for occult hip injury; high-risk pathology that can be missed by routine diagnostic imaging - including subarachnoid hemorrhage, bowel injury, mesenteric ischemia, and scaphoid fractures; radiation risks of diagnostic imaging - with practical summaries balancing the need for emergency diagnosis against long-term risks; and more. Optimize diagnosis through evidence-based guidelines that assist you in discussions with radiologists, coverage of the limits of "negative" or "normal" imaging studies for safe discharge, indications for contrast, and validated clinical decision rules that allow reduced use of diagnostic imaging. Clearly recognize findings and anatomy

on radiographs for all major diagnostic modalities used in emergency medicine from more than 1000 images. Find information quickly and easily with streamlined content specific to emergency medicine written and edited by an emergency physician and organized by body system.

NUCLEAR MEDICINE AND MOLECULAR IMAGING: THE REQUISITES E-BOOK

Elsevier Health Sciences Now in its 5th Edition, this outstanding volume in the popular Requisites series thoroughly covers the fast-changing field of nuclear medicine and molecular imaging. Ideal for residency, clinical rotations, and board review, this compact and authoritative volume by Drs. Janis O'Malley and Harvey Ziessman covers the conceptual, factual, and interpretive information you need to know for success on exams and in clinical practice. **NEW to this edition:** More content on molecular imaging and the latest advances in clinical applications, including positron emission tomography (PET), SPECT/CT, PET/CT, and PET/MRI hybrid imaging. Inclusion of newly approved tracers such as Ga68 DOTA, F-18 amyloid, and F-18 PSMA. Expanded and integrated content on physics and non-interpretive aspects, including regulatory issues, radiation safety, and quality control. Up-to-date applications of nuclear medicine in the endocrine, skeletal, hepatobiliary, genitourinary, pulmonary, gastrointestinal, central nervous, and cardiac systems, as well as PET applications for oncology. In the outstanding Requisites tradition, the 5th Edition also: Summarizes key information with numerous outlines, tables, pearls, pitfalls, and frequently asked questions. Focuses on essentials to pass the certifying board exam and ensure accurate diagnoses in clinical practice. Helps you clearly visualize the findings you're likely to see in practice and on exams with nearly 200 full-color images.

HEALTH RISKS FROM EXPOSURE TO LOW LEVELS OF IONIZING RADIATION

BEIR VII _ PHASE 2

National Academies Press This book is the seventh in a series of titles from the National Research Council that addresses the effects of exposure to low dose LET (Linear Energy Transfer) ionizing radiation and human health. Updating information previously presented in the 1990 publication, *Health Effects of Exposure to Low Levels of Ionizing Radiation: BEIR V*, this book draws upon new data in both epidemiologic and experimental research. Ionizing radiation arises from both natural and man-made sources and at very high doses can produce damaging effects in human tissue that can be evident within days after exposure. However, it is the low-dose exposures that are the focus of this book. So-called "late" effects, such as cancer, are produced many years after the initial exposure. This book is among the

first of its kind to include detailed risk estimates for cancer incidence in addition to cancer mortality. BEIR VII offers a full review of the available biological, biophysical, and epidemiological literature since the last BEIR report on the subject and develops the most up-to-date and comprehensive risk estimates for cancer and other health effects from exposure to low-level ionizing radiation.

NEUROLOGY IN CLINICAL PRACTICE

New edition, completely rewritten, with new chapters on endovascular surgery and mitochondrial and ion channel disorders.

DIAGNOSTIC IMAGING IN MEDICINE

Springer Science & Business Media **An Advanced Study Institute on Ultrasonics in Medical Diagnosis was held in Milan, Italy, from 10 to 15 June 1974. This ASI was of a short five-day duration and limited to cardiac diagnosis by ultra sound only. Since that time, the field of diagnostic imaging in medicine has literally exploded with new and improved means of medical diagnosis such as computed tomography, microwaves, nuclear magnetic resonance and other sophisticated techniques. These developments have enabled medical practitioners to make diagnoses with a minimum of danger to the patient, and a maximum of accuracy never before possible, and represent a multi-quantum advance over the early state-of-the-art presented at the 1974 ASI. Since then, several meetings have taken place on these individual topics to bring together experts who presented their latest research results, but none have discussed the entire field of diagnostic imaging in medicine in one meeting nor have they had the teaching character of an Advanced Study Institute. The art and science of medicine have been altered repeatedly during the eight year interval since the last ASI. Today's clinician must be part technologist and must be enough of an investigator to understand and appreciate the scientific method. The current complex advances in instrumentation and pharmacology have had a marked effect on how medicine is practiced. There was, therefore, an urgent need to bring the entire field of imaging in medicine to one teaching podium where the many advances of the last six or seven years could be reviewed.**

IMAGING OF THE NERVOUS SYSTEM

Springer Science & Business Media **Traditionally, investigation of the nervous system has been primarily a clinical matter. The great era of clinical assessment of patients with neurological disease in the first half of the century was**

determined by the necessity both to understand the phenomena of neurological disease in relation to structure and function and to localise lesions, in order to facilitate the twin processes of diagnosis and management. Over the years diverse techniques have been applied to clinical practice in order to improve the accuracy of diagnosis. These have comprised extensions of clinical method, for example clinical neuropsychology, electro encephalography, radiography of the skull and spine, angiography and other contrast procedures, including the now abandoned technique of air encephalography, and myel ography, perhaps itself soon to be little used. Isotope studies of the brain have possibly not realised their full potential in clinical neurology. All these different investigations found an integrated place in clinical management, enhancing the classical clinical database and its associated information, derived from biochemical, immunological and haematological studies. The advent of computerised tomographic X-ray scanning changed all this. The quality of the images derived from CT scanning was so much superior to that obtainable by conventional X-ray methods, and the method was so non-invasive in its conception, that clinical practice in both medical and surgical neurology changed profoundly.

NEUROIMAGING TECHNIQUES IN CLINICAL PRACTICE

PHYSICAL CONCEPTS AND CLINICAL APPLICATIONS

Springer Nature This book provides a concise overview of emerging technologies in the field of modern neuroimaging. Fundamental principles of the main imaging modalities are described as well as advanced imaging techniques including diffusion weighted imaging, perfusion imaging, arterial spin labeling, diffusion tensor imaging, intravoxel incoherent motion, MR spectroscopy, functional MRI, and artificial intelligence. The physical concepts underlying each imaging technique are carefully and clearly explained in a way suited to a medical audience without prior technical knowledge. In addition, the clinical applications of the various techniques are described with the aid of illustrative clinical examples. Helpful background information is also presented on the core principles of MRI and the evolution of neuroimaging, and important references to current medical research are highlighted. The book will meet the needs of a range of non-technological professionals with an interest in advanced neuroimaging, including radiology researchers and clinicians in the fields of neurology, neurosurgery, and psychiatry.

ATLAS OF CLINICAL POSITRON EMISSION TOMOGRAPHY 2ND EDITION

CRC Press Positron Emission Tomography (PET) is now firmly established as an invaluable technique for diagnosing and

monitoring disease. The second edition of this comprehensive clinical atlas will continue to present the combined experience of two of the world's leading PET centres as the technique has moved on from its formative years to gain established value in clinical practice. The book has been substantially rewritten to take account of the exciting developments that are occurring with the introduction of PET/CT, and new &'state-of-the-art&' PET/CT images are presented. The new edition continues to be presented as a series of 'mini-lectures' carefully designed for rapid assimilation, illustrated by case histories in which high-quality illustrations are supplemented by clear concise teaching points and directions for further reading. Part One provides an excellent introduction to the science and practice of PET and displays normal variants and discusses potential pitfalls. In Part Two, the applications of PET/CT in oncology are covered in detail, according to body system in order of their clinical importance. Part Three examines the applications of PET/CT beyond oncology; in neuropsychiatry, cardiology and infection. A useful additional feature is the accompanying DVD-Rom with HERMES RAPID software, which contains PET/CT cases for viewing and analysis, with cross-modality image fusion, and has been provided by Hermes Medical Solutions. Atlas of Clinical Positron Emission Tomography is an invaluable resource for nuclear medicine specialists, radiologists and oncologists, both in training and in practice.

POSITRON EMISSION TOMOGRAPHY

A GUIDE FOR CLINICIANS

Springer This book provides basic information about the relatively new and evolving technology -positron emission tomography- for its clinical applications and practical guidance for the referring physicians. Chapters cover application of PET in various clinical settings including oncology, cardiology, and neurology with a focus on role in various cancers. Because most of the new PET equipments come as hybrid machines with CT or MRI, two chapters have been included at the end of the book to provide basic and comprehensive information about these two technologies. Molecular imaging is going to revolutionize the way we practice medicine in the future. It will lead to more accurate diagnosis of diseases and its extent which will lead to better management and better outcomes. In the history of medicine no imaging modality has ever become so popular for use in such a short time as has the PET technology. PET imaging is mostly used in oncology, neurology and cardiology but also finds application in other situations such as infection imaging. The main focus, of course, is in management of cancer patients. PET (PET-CT) is not only very sensitive as it can detect changes in abnormal biochemical processes at cellular level but in one go all such areas can be detected in a whole

body scan. It can show response to therapy, eradication of the disease or recurrence during the follow-up period. One of the main differences between a PET scan and other imaging tests like CT scan or MRI is that the PET scan reveals the cellular level metabolic changes occurring in an organ or tissue. This is important and unique because disease processes begin with functional changes at the cellular level. A PET scan can detect these very early changes whereas a CT or MRI detect changes much later as the disease begins to cause changes in the structure of organs or tissues. Some cancers, especially lymphoma or cancers of the head and neck, brain, lung, colon, or prostate, in very early stage may show up more clearly on a PET scan than on a CT scan or an MRI. A PET scan can measure such vital functions as blood flow, oxygen use, and glucose metabolism, which can help to evaluate the effectiveness of a patient's treatment plan, allowing the course of care to be adjusted if necessary. Apart from its vital role in oncology it can estimate brain's blood flow and metabolic activity. A PET scan can help finding nervous system problems, such as Alzheimer's disease, Parkinson's disease, multiple sclerosis, transient ischemic attack (TIA), amyotrophic lateral sclerosis (ALS), Huntington's disease, stroke, and schizophrenia. It can find changes in the brain that may cause epilepsy. PET scan is also increasingly being used to find poor blood flow to the heart, which may mean coronary artery disease. It can most accurately estimate the extent of damage to the heart tissue especially after a heart attack and help choose the best treatment, such as coronary artery bypass graft surgery, stenting or medical treatment. It can also contribute significantly in identifying areas exactly where radiotherapy is to be targeted avoiding unnecessary radiation exposure to surrounding tissue.

THE EPILEPSIES

SEIZURES, SYNDROMES AND MANAGEMENT : BASED ON THE ILAE CLASSIFICATIONS AND PRACTICE PARAMETER GUIDELINES

Bladon Medical Pub **The Epilepsies: Seizures, Syndromes and Management** is the latest work from one of the world's leading experts and offers an exhaustive account of the classification and management of epileptic disorders. In thirteen chapters, Dr Panayiotopoulos gives clear and didactic guidance on the diagnosis, treatment and ongoing management of the full spectrum of epileptic syndromes with an insight and perception that only he can bring to the subject. This text is published in full colour throughout and is complemented by a pharmacopoeia and CD ROM with patient video-EEGs. An attractive, clear page layout and the accompanying supplementary material help the reader to easily identify the key components of each disorder, syndrome and seizure. Drawing on the author's outstanding

collection of video-EEGs the accompanying CD ROM is cross-referenced within the text thus providing the reader with both a clinical and visual description of the various epileptic disorders and further aiding diagnosis.

CLINICAL APPLICATIONS OF SPECT/CT

NEW HYBRID NUCLEAR MEDICINE IMAGING SYSTEM

Integrated single photon emission computed tomography and computed tomography (SPECT/CT) has emerged as an important diagnostic tool in medical imaging, where morphological markers are superimposed on anatomical images to allow a more thorough examination and higher levels of diagnostic accuracy. This TECDOC presents an overview of the SPECT/CT technology for use by nuclear medicine physicians, radiologists and clinical practitioners. The publication also covers the current medical status of SPECT/CT imaging, the role of this technology in the clinical management of patients and possible trends for future development.

GRAINGER & ALLISON'S DIAGNOSTIC RADIOLOGY

A TEXTBOOK OF MEDICAL IMAGING

A complete overview of contemporary radiological practice, this new edition provides all the information that a trainee needs to master in order to successfully take their professional certification examinations as well as providing the practicing radiologist with a refresher on topics that may have been forgotten. This new edition gives you a succinct but comprehensive account of all currently available imaging modalities and their clinical applications. Totally re-written, the book covers all of the areas that a trainee radiologist needs to master and provides the radiologist in clinical practice with a compact overview of the current "state of play" of imaging procedures. Organized along an organ and systems basis this resource covers all diagnostic and interventional imaging modalities in an integrated correlative fashion. The text is enhanced and clarified throughout by approx. 4,000 high quality illustrations.

CLINICAL PET AND PET/CT

Springer Science & Business Media 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.

IMAGING FOR CLINICAL ONCOLOGY

Oxford University Press **Imaging** is a critical component in the delivery of radiotherapy to patients with malignancy, and this book teaches the principles and practice of imaging specific to radiotherapy. Introductory chapters outline the basic principles of the available imaging modalities including x-rays, CT, ultrasound, MRI, nuclear medicine, and PET. Site specific chapters then cover the main tumour sites, reviewing optimal imaging techniques for diagnosis, staging, radiotherapy planning, and follow-up for each site. The important areas of radiation protection, exposure justification, and risks are also covered, exploring issues such as balancing radiation exposure with long-term risks of radiation effects, such as second cancer induction. This second edition has been fully revised and updated to reflect current techniques, and includes two brand new chapters on imaging for radiotherapy treatment verification, and the role of specialist MRI techniques and functional imaging for radiotherapy planning. With insights from experts in each field and over 200 illustrations, this comprehensive and easy-to-read guide will be an invaluable resource for radiation oncologists, clinical oncologists, and radiotherapists, both qualified and in training. **ABOUT THE SERIES** Radiotherapy remains the major non-surgical treatment modality for the management of malignant disease. It is based on the application of the principles of applied physics, radiobiology, and tumour biology to clinical practice. Each volume in the series takes the reader through the basic principles of the use of ionizing radiation and then develops this by individual sites. This series of practical handbooks is aimed at physicians both training and practising in radiotherapy, as well as medical physics, dosimetrists, radiographers, and senior nurses.

LEARNING NEUROIMAGING

100 ESSENTIAL CASES

Springer Science & Business Media This book is intended as an introduction to neuroradiology and aims to provide the

reader with a comprehensive overview of this highly specialized radiological subspecialty. One hundred illustrated cases from clinical practice are presented in a standard way. Each case is supported by representative images and is divided into three parts: a brief summary of the patient's medical history, a discussion of the disease, and a description of the most characteristic imaging features of the disorder. The focus is not only on common neuroradiological entities such as stroke and acute head trauma but also on less frequent disorders that the practitioner should recognize. *Learning Neuroimaging: 100 Essential Cases* is an ideal resource for neuroradiology and radiology residents, neurology residents, neurosurgery residents, nurses, radiology technicians, and medical students.

BRAIN TUMOR IMAGING

Springer This book describes the basics, the challenges and the limitations of state of the art brain tumor imaging and examines in detail its impact on diagnosis and treatment monitoring. It opens with an introduction to the clinically relevant physical principles of brain imaging. Since MR methodology plays a crucial role in brain imaging, the fundamental aspects of MR spectroscopy, MR perfusion and diffusion-weighted MR methods are described, focusing on the specific demands of brain tumor imaging. The potential and the limits of new imaging methodology are carefully addressed and compared to conventional MR imaging. In the main part of the book, the most important imaging criteria for the differential diagnosis of solid and necrotic brain tumors are delineated and illustrated in examples. A closing section is devoted to the use of MR methods for the monitoring of brain tumor therapy. The book is intended for radiologists, neurologists, neurosurgeons, oncologists and other scientists in the biomedical field with an interest in neuro-oncology.

RADIOLOGY IN MEDICAL PRACTICE, 4TH EDITION

Elsevier India **Easy, Simple, Practical and Clinically Oriented Radiology Book** Radiology in Medical Practice is an excellent book, helpful not only for medical students of different specialities, but also for the radiologists, general practitioners and even medical teachers. About the Author : - ABM Abdullah MRCP (UK), FRCP (Edin) is a Professor of Medicine at Bangabandhu Sheikh Mujib Medical University, Dhaka, Bangladesh. He has wide experience as a practicing physician and a teacher of clinical medicine, both at home and abroad. Throughout his career, he has been involved in teaching and training of undergraduate and postgraduate medical students as well as nursing students. Professor Abdullah has published 25 research papers in various national and international journals and has authored, in addition to the

present one, three books, titled, Short Cases in Clinical Medicine, ECG in Medical Practice, and Case History, and Data Interpretation in Medical Practice; of these Short Cases in Clinical Medicine is also published by Elsevier. Also, he has written several articles for daily newspapers on common medical problems and delivered many television programs on public health issues.

THE CLINICAL PRACTICE OF CRITICAL CARE NEUROLOGY

Oxford University Press, USA This is a practical and accessible review of neurologic critical care in the intensive care unit. The emphasis is on management in day-to-day practice. For the thoroughly updated and expanded second edition, the author has added new algorithms on outcome prediction in the specific disorders, and five new chapters on the organisation of the intensive care unit, acute spinal disorders, management of common postoperative neurosurgical complications, and psychosocial issues, ethics, and withdrawal of life support. For quick reference in the ICU the most useful tables and figures have been extracted and reprinted in an accompanying pocket-sized booklet.

THE HEALING POWER OF MINDFULNESS

A NEW WAY OF BEING

Hachette UK More than twenty years ago, Jon Kabat-Zinn changed the way we thought about awareness in everyday life with his now-classic introduction to mindfulness, *Wherever You Go, There You Are*. He followed that up with 2005's *Coming to Our Senses*, the definitive book for our time on the connection between mindfulness and our well-being on every level, physical, cognitive, emotional, social, planetary, and spiritual. Now, *Coming to Our Senses* is being repackaged into 4 smaller books, each focusing on a different aspect of mindfulness, and each with a new foreword written by the author. In the third of these books, *The Healing Power of Mindfulness* (which was originally published as Part V and Part VI of *Coming to Our Senses*), Kabat-Zinn focuses on the ways mindfulness can change the body and rewire the mind--explaining what we're learning about neuroplasticity and the brain, how meditation can affect the immune system, and what mindfulness can teach us about facing impermanence and, eventually, the end of our own lives. By "coming to our senses"--both literally and metaphorically--we can become more compassionate, more embodied, more aware human beings, and in the process, contribute to the healing of the body politic as well as our own lives in ways both little and big.

INTERPRETATION OF EMERGENCY HEAD CT

A PRACTICAL HANDBOOK

Cambridge University Press **Interpretation of Emergency Head CT** is an invaluable quick reference to the key aspects of the head CT. It provides the clinician with an easy-to-use 'ABCs' system to analyze any head CT scan that may be encountered in the acute setting. The first section contains a comprehensive section on radiological anatomy of the brain and cranial anatomy, showing cranial anatomy on actual CT images. The details of the CT imaging process are also covered in a straightforward manner. The second section discusses a wide gamut of conditions that are likely to be encountered in acute medical practice. Pitfalls are highlighted and tips are included to assist the clinician in recognition of important signs, along with ways to distinguish other pathologies with a similar appearance. This is an excellent practical resource for all clinicians who utilize CT scans of the head as part of their patient management.