

NUCLEAR MEDICINE

A CASE-BASED APPROACH



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Nuclear Medicine A Case Based Approach

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Nuclear Medicine A Case Based Approach:

Nuclear Medicine Nasrin Ghesani, Depuey E Gordan, 2015-11-30 Nuclear Medicine is a medical specialty involving the use of radioactive substances in the diagnosis and treatment of disease. This book is a compilation of 168 cases in nuclear medicine which represent the rapid advancement of the field in recent years. Nuclear Medicine contains 193 images enhancing this essential guide for students of nuclear medicine. This book is written by Munir Ghesani Assistant Professor of Radiology at the NYU Langone Medical Centre in New York ensuring authoritative content throughout

Epilepsy

Surgery: A Practical Case-Based Approach Aline Herlopian, Dennis Dee Spencer, Lawrence J. Hirsch, David King-Stephens, 2024-04-08 This collection of epilepsy surgical cases illustrates patients with straightforward and challenging pharmacoresistant epilepsy. These cases convey the advancements, investigative strategies, past and modern surgical tools, and sophisticated state of the art of epilepsy surgery and its disciplines. This textbook is organized into four major sections that parallel the contemporary FDA approved and clinically applicable approaches: resective surgery, disconnection procedures, laser therapy, and neuromodulation. The chapters provide a case-based, interactive, and multidisciplinary integrative approach to pre-operative evaluation, data analysis, and surgical decision making. In addition, we present alternative approaches to certain diagnostic tools, decision-making strategies, and surgical interventions. This textbook will provide trainees and clinicians with an exhaustive understanding of epilepsy surgery. Moreover, it will be an invaluable resource for preparation for the epilepsy board examination.

Case-based Atlas of Cardiovascular Magnetic Resonance Andrea Barison, Santo Dellegrottaglie, Gianluca Pontone, Ciro Indolfi, 2023-08-08 This book offers a practical guidance to healthcare professionals interested in learning how to make adequate, clinically oriented use of cardiovascular MRI. Thanks to its case-based approach, it provides a detailed guide to MRI applications in the most common clinical cardiovascular scenarios. Chapters describe a number of real clinical cases, including concise clinical data, clear descriptions of the most relevant information obtained from MRI and of their meaning in terms of patient management. Emphasis is placed on traditional as well as newer MRI techniques, always keeping a practical format focused on the hands-on knowledge required for an accurate image interpretation. In the online version, the text of each case is supplemented with additional images and videos, certainly making this book a useful resource for understanding how MRI principles apply to real clinical cardiovascular situations.

Neuroimaging - From Research to Clinical Practice Sara Palermo, 2025-07-16

Neuroimaging has transitioned from the laboratory to the clinic at an unprecedented pace, becoming a standard diagnostic monitoring and treatment tool for neurological and psychiatric diseases. In this book, a clear description of this revolution is provided, emphasizing how novel imaging techniques are reshaping contemporary medicine. Organized into three sections, the book opens with the examination of brain development, describing how state-of-the-art diffusion MRI reveals the dynamic architecture of the developing brain. The opening chapter emphasizes the promise of early imaging in identifying

neurodevelopmental disorders The second section is dedicated to clinical applications Chapters cover the correspondence between neuroimaging features and disease the use of nuclear medicine methodology in dementia epilepsy and movement disorders and the diagnostic value of PET CT illustrated by case based examples These chapters offer practical insights into enhanced diagnostic accuracy and therapeutic support through multimodal imaging The third section of the book acquaints readers with interventional and surgical applications This section illustrates how imaging today is directly applied in therapy from treatment under imaging guidance to neuronavigation and neuromodulation interventions Trends for the future such as the incorporation of AI portable imaging and augmented reality into the operating room are also discussed Authored by international experts this book is intended for clinicians researchers and students interested in the clinical applications of neuroimaging It links current research with everyday medical practice using case based examples and practical frameworks Neuroimaging From Research to Clinical Practice is a reference and a guide to how brain imaging shapes modern treatment approaches

Artificial Intelligence and PET Imaging, Part 2, An Issue of PET Clinics , E-Book

Arman Rahmim,Babak Saboury,Eliot Siegel,2021-11-27 In this issue of PET Clinics guest editors Arman Rahmim Babak Saboury and Eliot Siegel bring their considerable expertise to the topic of Artificial Intelligence and PET Imaging Provides in depth clinical reviews on the latest updates in AI and PET Imaging providing actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create these timely topic based reviews

Nuclear Medicine Cases

Joseph Rajendran,Vivek Manchanda,2010-09-06 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product A unique case based approach to understanding nuclear medicine 176 cases and 1190 illustrations many in full color They have implemented a compelling approach to the case based format In summary you will love this book It is thoughtfully constructed and reader focused You will see manifest the inspiration and commitment of the two editors Enjoy learn and ultimately have an impact Norman J Beauchamp University of Washington from the foreword Nuclear Medicine Cases features 176 nuclear medicine and PET CT cases grouped according to organ system Each case includes presentation findings differential diagnosis comments pearls and numerous images many in full color Covering a wide range of general clinical topics of interest to practicing imaging physicians this well illustrated reference guide covers endocrine musculoskeletal chest genitourinary gastrointestinal lymphatic CNS renal vascular cases and includes a separate section for pediatrics The book s easy to navigate organization is specifically designed for use at the workstation The concise quick scan text numerous images and helpful icons and pearls speed and simplify the learning process FEATURES 176 cases and 1190 illustrations many in full color An icon indicated grading system depicting the full spectrum of findings from common to rare and typical to unusual and the consistent chapter organization make this the perfect workstation reference Emphasizes the

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Cases in Hepatobiliary & Pancreatic Imaging Ankur

Arora,2013-01-01 This succinct book presents a thorough review of a large number of common as well as challenging cases relating to hepatobiliary and pancreatic disorders Each case is systematically organized in terms of symptoms radiological findings clinical correlation and diagnosis and management

Atlas of Emergency Imaging from Head-to-Toe Michael N.

Patlas,Douglas S. Katz,Mariano Scaglione,2025-07-26 This new reference work provides a comprehensive and modern approach to the imaging of numerous non traumatic and traumatic emergency conditions affecting the human body It reviews the latest imaging techniques related clinical literature and appropriateness criteria guidelines while also discussing current controversies in the imaging of acutely ill patients The first chapters outline an evidence based approach to imaging interpretation for patients with acute non traumatic and traumatic conditions explain the role of Artificial Intelligence in emergency radiology and offer guidance on when to consult an interventional radiologist in vascular as well as non vascular emergencies The next chapters describe specific applications of Ultrasound Magnetic Resonance Imaging radiography Multi Detector Computed Tomography MDCT and Dual Energy Computed Tomography for the imaging of common and less common acute brain spine thoracic abdominal pelvic and musculoskeletal conditions including the unique challenges of imaging pregnant bariatric and pediatric patients There are two new sections for 2nd edition One section is devoted to imaging of emergency conditions in geriatric patients The second section covers special considerations in emergency imaging including imaging of intimate partner violence and emergencies in transplant patients Written by a group of leading North American and European Emergency and Trauma Radiology experts this book will be of value to emergency and general radiologists to emergency department physicians and related personnel to obstetricians and gynecologists to general and trauma surgeons as well as trainees in all of these specialties

Medical Isotopes Syed Ali Raza Naqvi,Muhammad

Babar Imran,2021-01-07 Radioisotopes are widely used in the medical field for imaging and therapy of diseases by themselves or by tagging with other molecules that have the potential to target diseased cells In imaging protocol the radioisotope such as technetium 99m or indium 111 decays through radiation emissions which are located by a scintigraphic camera SPECT or PET in the form of 2 3D image formation of the diseased organ The other kind of radioisotopes such as Lutetium 177 or Actinium 225 are those that decay through decay which is due to its valuable linear energy transfer that is in clinical use to eliminate diseased cells This book will cover valuable information about selected diagnostic and therapeutic

radioisotopes along with localization mechanisms of radioisotopes directly or through nanoparticles at diseased cells

Nuclear Medicine Companion Abdelhamid H. Elgazzar, Ismet Sarikaya, 2018-05-28 This book provides all the information required for the optimal use of nuclear medicine techniques which are undergoing rapid development yet remain underutilized. Each chapter focuses on one particular clinical system or disease area. The first section of each chapter illustrates normal patterns observed on commonly and uncommonly performed scans as a reference and explains when and how the procedures should be performed. The following section illustrates both the imaging patterns of different diseases and the diagnostic role of individual studies. Comparisons with other modalities are provided and the rationale for and effective utilization of each study are discussed. The volume includes near 250 case reviews. In addition the normal patterns on relevant morphologic modalities are documented in an appendix. The book is directed at Nuclear Medicine physicians and technologists with different levels of training and expertise and also at radiologists who practice nuclear medicine and radiology residents.

A Case-Based Approach to PET/CT in Oncology Victor H. Gerbaudo, 2012-07-26 A Case Based Approach to PET CT in Oncology describes the role of PET CT in the diagnosis, staging and monitoring of treatment response in today's practice of oncology. It provides a detailed analysis of over 100 cases occurring in daily clinical practice, emphasizing the central role that PET imaging plays in the care of cancer patients. The text is organized into two sections. Part I guides the reader through general introductory concepts including basic science while Part II covers in depth oncologic applications. Each case is illustrated throughout with full color images and explains the key management issues and the advantages and limitations of the modality. Written by a team of renowned international experts, *A Case Based Approach to PET CT in Oncology* is an invaluable resource for all imaging practitioners, oncologists and nuclear medicine specialists.

Cumulated Index Medicus, 1999 **Chest Nuclear Medicine Case Studies** Marvin Guter, Aldo N. Serafini, 1979

Atlas of Nuclear Medicine in Musculoskeletal System Seoung-Oh Yang, So Won Oh, Yun Young Choi, Jin-Sook Ryu, 2022-10-12 Nuclear medicine imaging in the musculoskeletal system with its ability to assess disease activities has contributed to accurate diagnosis and improved medical and surgical treatment. Several nuclear medicine textbooks and case studies in forms of atlases have been published so far but there seems to be no in depth nuclear medicine imaging atlas focused on diseases of the musculoskeletal system. Therefore the authors have written about common cases as well as rare musculoskeletal disorders for which various imaging techniques of nuclear medicine bone scan, SPECT, SPECT CT, PET CT, PET MR etc are useful based on their clinical experience in many different hospitals. This book intends to share the experiences of the authors with nuclear medicine and radiology residents and board specialists and to help other clinicians who manage musculoskeletal disorders such as orthopedic and rheumatology through various cases of musculoskeletal disorders by providing algorithmic imaging utilization to support their patient care.

Digital Imaging - AAPM Summer School 1993 William R. Hendee, Jon H. Trueblood, 1993-01-31 Proceedings of the 1993 Summer School on Digital Imaging of

the American Association of Physicists in Medicine held Aug 1 6 1993 at the U of Virginia Charlottesville Papers cover image acquisition and display technology integrated systems computer assisted diagnosis and instructional technology funding sources information management implementation of IMACS human machine interfacing Annotation copyright by Book News Inc Portland OR

JNM. Journal of Nuclear Medicine ,1976 Conventional Nuclear Medicine in Pediatrics Maria

Carmen Garganese,Giovanni Francesco Livio D'Errico,2016-12-05 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 considerations including reception interaction with parents radiopharmaceutical administration image acquisition radiation exposure and the relationship of nuclear medicine and radiology Since the child is not a young adult it is insufficient simply to adapt nuclear medicine procedures performed in adults to the age and size of the child Conventional Nuclear Medicine in Pediatrics will be a rich source of information for all who perform these procedures in the pediatric setting

Meeting of Board of Regents University of Michigan. Board of Regents,1993-04 Encyclopedia of Medical Devices and Instrumentation John G. Webster,2006-04-07 The articles in The Encyclopedia of Medical Devices and Instrumentation focus on what is currently useful or is likely to be useful in future medicine They answer the question What are the branches of medicine and how does technology assist each of them Articles focus on the practice of medicine that is assisted by devices rather than including for example the use of drugs to treat disease The title is the only resource on the market dealing with the subject in encyclopedic detail Accessible to practitioners with a broad range of backgrounds from students to researchers and physicians Articles cover the latest developments such as nanotechnology fiber optics and signal processing

PET/MR Imaging Rajesh Gupta,Robert Matthews,Lev Bangiyev,Dinko Franceschi,Mark Schweitzer,2017-12-13 This book offers an overview of the clinical applications of PET MR imaging through a case based format Hybrid PET MRI provides functional and anatomical information via one setting offering superior imaging quality with lower radiation dose being administered to the patient The cases in this book focus on the use of this technique in the diagnosis of oncologic neurologic cardiovascular infectious and inflammatory and pediatric diseases Each case is presented with the patient history protocols interpretation of findings and pearls and pitfalls accompanied by high quality PET MR images The major strength of this book is the discussion of both MRI and PET findings pertinent to each particular case It expands the discussion of oncologic applications of this modality through a variety of cases that highlight staging treatment response and follow up Illustrating a spectrum of PET MRI clinical applications PET MR Imaging A Case Based Approach is a valuable resource for

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