

Nuclear Medicine A Guide For Healthcare Professionals And Patients

Nuclear Medicine Physics: The Basics
European Nuclear Medicine Guide
Nuclear Medicine Technology
Atlas of Clinical Nuclear Medicine, Third Edition
Integrating Cardiology for Nuclear Medicine Physicians
Monte Carlo Calculations in Nuclear Medicine, Second Edition
Nuclear Medicine Clinical Nuclear Medicine
Nuclear Medicine Resources Manual
Golden's Diagnostic Radiology Nuclear Medicine
Technology Study Guide
Clinical Nuclear Medicine Neuroimaging
An Introduction to the Physics of Nuclear Medicine
A Clinician's Guide to Nuclear Oncology
A Concise Guide to Nuclear Medicine
Clinical Applications of Nuclear Medicine Targeted Therapy
Medical Physics Handbook of Nuclear Medicine
An Atlas of Clinical Nuclear Medicine
Essentials of Nuclear Medicine Imaging
Nuclear Medicine: A Core Review
The Mayo Clinic Manual of Nuclear Medicine
Nuclear Medicine Technology: Procedures and Quick Reference
Nuclear Medicine Textbook
Radiation Safety in Nuclear Medicine
A Clinician's Guide to Nuclear Medicine
Guide for Diagnostic Nuclear Medicine and Radiopharmaceutical Therapy
Nuclear Medicine and PET/CT - E-Book
Practical Nuclear Medicine
Essentials of Nuclear Medicine Physics and Instrumentation
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Medicine Technology Nuclear Medicine Physics Clinical Nuclear Medicine PET Study Guide Radiopharmaceutical Chemistry The Practice of Internal Dosimetry in Nuclear Medicine Essential Nuclear Medicine Physics Nuclear Medicine Technology Practical SPECT/CT in Nuclear Medicine

Nuclear Medicine Physics: The Basics

A tactical guide for radiologists and nuclear medicine physicians, *Diagnostic Imaging: Nuclear Medicine, Second Edition* is practical, easy-to-use, and in-touch with the realities of multimodality diagnostic imaging. This comprehensive yet accessible reference addresses the most appropriate nuclear medicine options available to answer specific clinical questions within the framework of all imaging modalities. Sweeping updates include a complete reorganization, new differential diagnoses based on findings, and new chapters on physics and Nuclear Regulatory Commission guidelines. User-friendly bulleted text and a uniform chapter layout allow fast and effortless access to the crucial knowledge you need! Time-saving reference features include bulleted text, a variety of test data tables, key facts in each chapter, 2,000 full-color annotated images, and an extensive index Expanded coverage of the most important topics and trends in nuclear medicine including Recently revised radioactive iodine therapy guidelines for hyperthyroidism and thyroid cancer New bone tumor therapy radium-223 (currently indicated for treatment of painful bone metastases in prostate cancer) New I-123 ioflupane dopamine transporter

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imaging for diagnosis of parkinsonian syndromes F-18 PET/CT bone scan (particularly its indication for nonaccidental trauma in children) Meticulous updates throughout reflect the latest advances as well as all study guide topics listed for the new American Board of Radiology exam, including physics and Nuclear Regulatory Commission guidelines

European Nuclear Medicine Guide

Essential Nuclear Medicine Physics provides an excellent introduction to the basic concepts of the daunting area of nuclear physics. Logically structured and clearly written, this is the book of choice for anyone entering the field of nuclear medicine, including nuclear medicine residents and fellows, cardiac nuclear medicine fellows and nuclear medicine technology students. The text is also a handy quick-reference guide for those already working in the field of nuclear physics. This new edition provides a basic introduction to nuclear physics and the interactions of radiation and matter. The authors also provide comprehensive coverage of instrumentation and imaging, with separate chapters devoted to SPECT, PET, and PET/CT. Discussion of radiation biology, radiation safety and care of victims of radiation accidents completes the text, with an appendix containing the latest NRC rules and regulations. Essential Nuclear Medicine Physics presents difficult concepts clearly and concisely, defines all terminology for the reader, and facilitates learning through extensive illustrations and self-assessment questions.

Nuclear Medicine Technology

Completely updated with the latest advances in imaging technology, this quick-reference manual is the only procedures guide specifically geared to nuclear medicine technologists. It provides detailed, easy-to-follow instructions for 61 scan procedures, including listings of possible artifacts and problems that may arise during each scan. An extensive quick-reference section includes conversion tables, radiopharmaceutical dose ranges, pediatric dosing, anatomical drawings, standard drug interventions, lab tests, language translations, thyroid therapy information, and reproducible patient history sheets for 20 scans.

Atlas of Clinical Nuclear Medicine, Third Edition

This book, now in an extensively revised second edition, summarizes the basic principles of nuclear medicine and describes the clinical applications of commonly used nuclear medicine procedures and techniques. Readers will find clear explanation of clinical indications, the pathophysiological basis of functional procedures, and the complementary role of nuclear medicine and molecular imaging in relation to diagnostic radiology. Throughout, emphasis is placed on the added diagnostic value offered by the new hybrid imaging modalities. The various therapeutic applications of nuclear medicine are also discussed. Compared with the first edition, technical details have been significantly simplified. The book will be an ideal

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introduction to nuclear medicine for medical students and will serve as an excellent quick reference for referring physicians, enabling them to utilize this modern medical specialty more efficiently.

Integrating Cardiology for Nuclear Medicine Physicians

This book is a collection of all pertinent information on radiation safety applicable in nuclear medicine and research using radioactive materials. Radiation exposure causes harm to humans and is strictly controlled by several regulatory authorities (NRC, FDA, EPA, DOT, etc). The practice of nuclear medicine involves the use of radioactive materials in patients and research, and is well regulated by these agencies. However, information on radiation safety practice in nuclear medicine and research areas is scattered throughout the literature and federal registers. For busy nuclear technologists and professionals, it is quite time consuming to look for and acquire specific information and instructions to follow in radiation-related occasions and incidents. This guide provides ready-made, handy information on radiation safety as required in the practice of nuclear medicine, presented in a concise form for easy understanding and quick reference related to a given situation and/or incident. This is an ideal reference for nuclear medicine physicians, nuclear medicine technologists, and researchers using radioactive materials.

Monte Carlo Calculations in Nuclear Medicine, Second Edition

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Nuclear Medicine

Medical imaging is crucial in a variety of medical settings and at all levels of health care. In public health and preventive medicine as well as in both curative and palliative care, effective decisions depend on correct diagnoses. This edition addresses the most current needs and offers guidance on clinical practice, radiation safety and patient protection, human resource development and training required for the overall practice of nuclear medicine.

Clinical Nuclear Medicine

Nuclear Medicine Resources Manual

Completely updated with the latest advances in imaging technology, this quick-reference manual is the only procedures guide specifically geared to nuclear medicine technologists. A concise, easy-to-read bulleted outline format provides clear, step-by-step instructions for 61 scan procedures, including listings of possible artifacts and problems that may arise during each scan. Detailed anatomic illustrations clarify anatomy and body systems, and Patient History sections enhance students' patient communication and education capabilities.

Golden's Diagnostic Radiology

This book serves as a casebook for clinical nuclear

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medicine neuroimaging. Clinical interpretation of nuclear medicine neuroimaging studies is often challenging, mainly due to the complexity of neuroanatomy and a lack of supportive reference books. This is an unmet need in many teaching hospitals. Utilizing a hands-on, case-based approach, this textbook guides readers through clinical nuclear medicine neuroimaging of major neurological diseases and conditions, including dementia, epilepsy, and brain death. Included here are basic guidelines and techniques for nuclear medicine neuroimaging practices, set alongside case examples that include standardized imaging display and detailed interpretation. Each chapter begins with examples of normal brain imaging as a reference point for the remainder of the chapter, which then presents detailed case examples of these diseases through various imaging techniques. Each of the cases highlights clinical and imaging key findings and precise impressions. This is an ideal guide for residents, fellows, and even practicing nuclear medicine physicians as a reference and teaching tool for neuroimaging in clinical nuclear medicine. It will be of significant value to residents, trainees, and young physicians in preparation for their in-service tests and board examinations.

Nuclear Medicine Technology Study Guide

From first principles to current computer applications, Monte Carlo Calculations in Nuclear Medicine, Second Edition: Applications in Diagnostic Imaging covers the

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applications of Monte Carlo calculations in nuclear medicine and critically reviews them from a diagnostic perspective. Like the first edition, this book explains the Monte Carlo method and the principles behind SPECT and PET imaging, introduces the reader to some Monte Carlo software currently in use, and gives the reader a detailed idea of some possible applications of Monte Carlo in current research in SPECT and PET. New chapters in this edition cover codes and applications in pre-clinical PET and SPECT. The book explains how Monte Carlo methods and software packages can be applied to evaluate scatter in SPECT and PET imaging, collimation, and image deterioration. A guide for researchers and students developing methods to improve image resolution, it also demonstrates how Monte Carlo techniques can be used to simulate complex imaging systems.

Clinical Nuclear Medicine Neuroimaging

This work has true international scope, being a unique European/American joint venture that focuses on the state of the art in both diagnostic and therapeutic radionuclide methodology. Pertinent clinical applications are emphasized rather than attempting to cover everything included in the several large comprehensive texts available in our field. This "practical" approach should make it an essential guide to nuclear medicine physicians, technologists, students and interested clinicians alike.

An Introduction to the Physics of Nuclear Medicine

A Clinician's Guide to Nuclear Oncology

A comprehensive guide to procedures and technologies, Nuclear Medicine and PET/CT: Technology and Techniques provides a single source for state-of-the-art information on all aspects of nuclear medicine. Coverage includes relevant anatomy and physiology and discusses each procedure in relation to the specific use of radiopharmaceuticals and the instruments required. Edited by experts in nuclear imaging and PET/CT, Paul E. Christian and Kristen M. Waterstram-Rich, this edition has a new chapter on MRI as it relates to nuclear medicine and includes practical, step-by-step instructions for procedures. PET/CT focus with hybrid PET/CT studies in several chapters provides cutting-edge information that is especially beneficial to working technologists. CT Physics and Instrumentation chapter introduces CT as it is applied to PET imaging for combined PET/CT studies. Authoritative, comprehensive resource conveys state-of-the-art information, eliminating the need to search for information in other sources. Foundation chapters cover basic math, statistics, physics, instrumentation, computers, lab science, radiochemistry, and pharmacology, allowing you to understand how and why procedures are performed. Accessible writing style and approach to basic science subjects simplifies topics, progressing from fundamentals to more complex concepts. More than 50 practice problems in the math and statistics chapter let you brush up on basic math skills, with answers provided

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in the back of the book. Key terms, chapter outlines, learning objectives, and suggested readings help you organize your study. A table of radionuclides used in nuclear medicine and PET is provided in the appendix for quick reference. A glossary provides definitions of key terms and important concepts. High-profile editors and contributors come from a variety of educational and clinical settings, providing a broad philosophic and geographic perspective. New MRI Physics, Instrumentation and Clinical Introduction chapter provides important background on MRI and its relationship with nuclear medicine. Procedures boxes in body systems chapters provide step-by-step descriptions of clinical procedures. Updates and revisions keep you current with the latest advances. Expanded 16-page color insert includes more diagnostic images demonstrating realistic scans found in practice.

A Concise Guide to Nuclear Medicine

Clinical Applications of Nuclear Medicine Targeted Therapy

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

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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.

Medical Physics Handbook of Nuclear Medicine

An excellent introduction to the basic concepts of nuclear medicine physics This Third Edition of Essentials of Nuclear Medicine Physics and Instrumentation expands the finely developed illustrated review and introductory guide to nuclear medicine physics and instrumentation. Along with simple, progressive, highly illustrated topics, the authors present nuclear medicine-related physics and engineering concepts clearly and concisely. Included in the text are introductory chapters on relevant atomic structure, methods of radionuclide production, and the interaction of radiation with matter. Further, the text discusses the basic function of the components of scintillation and non-scintillation detector systems. An information technology section discusses PACs and DICOM. There is extensive coverage of quality control procedures, followed by updated chapters on radiation safety practices, radiation biology, and management of radiation

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accident victims. Clear and concise, this new edition of Essentials of Nuclear Medicine Physics and Instrumentation offers readers: Four new chapters Updated coverage of CT and hybrid scanning systems: PET/CT and SPECT/CT Fresh discussions of the latest technology based on solid state detectors and new scanner designs optimized for dedicated cardiac imaging New coverage of PACs and DICOM systems Expanded coverage of image reconstruction and processing techniques New material on methods of image display Logically structured and clearly written, this is the book of choice for anyone entering the field of nuclear medicine, including nuclear medicine residents and fellows, cardiac nuclear medicine fellows, and nuclear medicine technology students. It is also a handy quick-reference guide for those already working in the field of nuclear physics.

An Atlas of Clinical Nuclear Medicine

Rev. ed. of: Review of nuclear medicine technology / Ann M. Steves, Patricia C. Wells. 3rd ed. c2004.

Essentials of Nuclear Medicine Imaging

Targeting technologists specifically, this manual is designed to be a quick reference for technologists to aid in performing the most common nuclear medicine procedures ordered by a referring physician. Each protocol lists the essential information for the procedure, including clinical indications and contraindications; patient preparation and education/instructions; radiopharmaceutical identity,

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dose, and route of administration; specific information about non-radioactive drugs used in the procedure; camera-specific setup and acquisition instructions; patient position; computer- specific processing instructions; display/PACs instructions; labeling instructions, adjunct imaging/interventions, and precautions. The Quick Reference Protocol Manual for Nuclear Medicine Technologists features protocols for 71 nuclear medicine procedures, including: *

- * Cardiovascular System
- * Central Nervous System
- * Endocrine System
- * Gastrointestinal System
- * Genitourinary system
- * Hematopoietic, Reticuloendothelial, and Lymphatic Systems
- * Infection and Inflammation
- * Labeling
- * Oncology
- * Skeletal System
- * Pulmonary system
- * Therapy

Nuclear Medicine: A Core Review

The book is a compilation of guidelines from various organizations such as Society of Nuclear Medicine & Molecular Imaging, European Association of Nuclear Medicine, American College of Radiology and International Atomic Energy Agency. The description of the procedures is simple, easy to understand and current. The aim of this book is: a) Nuclear medicine professionals can use this book as a quick reference about how a procedure is to be performed. The set of instructions given to patient before, during and after the procedure have also been included in each chapter. b) To educate general physicians about nuclear medicine procedures. The procedures are explained briefly with common indications and precautions. Normal and abnormal nuclear medicine

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images have also been included for quick comparison. c) To educate paramedical staff or healthcare professionals so that they send patients to nuclear medicine department after proper preparation. d) To educate patients who come for nuclear medicine procedure. e) To clarify apprehensions and doubts which arise in the mind of the patients.

The Mayo Clinic Manual of Nuclear Medicine

Comprehensive pocket reference Up-to-date questions and answers regarding NRC regulations

Nuclear Medicine Technology: Procedures and Quick Reference

Nuclear Medicine is a diagnostic modality which aims to image and in some cases quantify physiological processes in the body to highlight disease or injury. Within nuclear medicine, over the past few decades, major technological changes have occurred and concomitantly changes in the knowledge and skills required have had to evolve. One of the most significant technological changes has been the fusion of imaging technologies, to create hybrid systems such as SPECT/CT, PET/CT and PET/MR. With these changes in mind, Practical SPECT/CT in Nuclear Medicine provides a handy and informative guide to the purchase, clinical implementation and routine use of a SPECT/CT scanner. Practical SPECT/CT in Nuclear Medicine will be a valuable resource for all personnel working in nuclear medicine and it will be of particular

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value to trainees.

Nuclear Medicine Textbook

Nuclear Medicine Technology Study Guide presents a comprehensive review of nuclear medicine principles and concepts necessary for technologists to pass board examinations. The practice questions and content follow the guidelines of the Nuclear Medicine Technology Certification Board (NMTCB) and American Registry of Radiological Technologists (ARRT), allowing test takers to maximize their success in passing the examinations. The book is organized by sections of increasing difficulty, with over 600 multiple-choice questions covering all areas of nuclear medicine, including radiation safety; radionuclides and radiopharmaceuticals; instrumentation and quality control; patient care; and diagnostic and therapeutic procedures. Detailed answers and explanations to the practice questions follow. Supplementary chapters will include nuclear medicine formulas, numbers, and a glossary of terms for easy access by readers. Additionally, test-taking strategies are covered.

Radiation Safety in Nuclear Medicine

A Clinician's Guide to Nuclear Medicine

This manual provides a detailed guide to the performance of nuclear medicine procedures. Focuses on the performance of over 80 clinical nuclear

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medicine procedures Gathers all the information required into one source Contents follow the format of the nuclear medicine requisition card Includes uncommon procedures for rare cases Special emphasis on GI procedures

Guide for Diagnostic Nuclear Medicine and Radiopharmaceutical Therapy

This publication provides the basis for the education of medical physicists initiating their university studies in the field of nuclear medicine. The handbook includes 20 chapters and covers topics relevant to nuclear medicine physics, including basic physics for nuclear medicine, radionuclide production, imaging and non-imaging detectors, quantitative nuclear medicine, internal dosimetry in clinical practice and radionuclide therapy. It provides, in the form of a syllabus, a comprehensive overview of the basic medical physics knowledge required for the practice of medical physics in modern nuclear medicine.

Nuclear Medicine and PET/CT - E-Book

Practical Nuclear Medicine

This book is a comprehensive guide to radiopharmaceutical chemistry. The stunning clinical successes of nuclear imaging and targeted radiotherapy have resulted in rapid growth in the field of radiopharmaceutical chemistry, an essential component of nuclear medicine and radiology.

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However, at this point, interest in the field outpaces the academic and educational infrastructure needed to train radiopharmaceutical chemists. For example, the vast majority of texts that address radiopharmaceutical chemistry do so only peripherally, focusing instead on nuclear chemistry (i.e. nuclear reactions in reactors), heavy element radiochemistry (i.e. the decomposition of radioactive waste), or solely on the clinical applications of radiopharmaceuticals (e.g. the use of PET tracers in oncology). This text fills that gap by focusing on the chemistry of radiopharmaceuticals, with key coverage of how that knowledge translates to the development of diagnostic and therapeutic radiopharmaceuticals for the clinic. The text is divided into three overarching sections: First Principles, Radiochemistry, and Special Topics. The first is a general overview covering fundamental and broad issues like “The Production of Radionuclides” and “Basics of Radiochemistry”. The second section is the main focus of the book. In this section, each chapter’s author will delve much deeper into the subject matter, covering both well established and state-of-the-art techniques in radiopharmaceutical chemistry. This section will be divided according to radionuclide and will include chapters on radiolabeling methods using all of the common nuclides employed in radiopharmaceuticals, including four chapters on the ubiquitously used fluorine-18 and a “Best of the Rest” chapter to cover emerging radionuclides. Finally, the third section of the book is dedicated to special topics with important information for radiochemists, including “Bioconjugation Methods,” “Click Chemistry in Radiochemistry”, and “Radiochemical

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Instrumentation.” This is an ideal educational guide for nuclear medicine physicians, radiologists, and radiopharmaceutical chemists, as well as residents and trainees in all of these areas.

Essentials of Nuclear Medicine Physics and Instrumentation

Focusing on the fundamentals of PET imaging in oncology, cardiology and neurology, the new PET Study Guide has been designed to serve as an indispensable reference and review tool to assist technologists preparing for the Nuclear Medicine Technology Review Board (NMTCB) PET Specialty exam.

Diagnostic Imaging: Nuclear Medicine E-Book

Nuclear cardiology is no longer a medical discipline residing solely in nuclear medicine. This is the first book to recognize this fact by integrating in-depth information from both the clinical cardiology and nuclear cardiology literature, and acknowledging cardiovascular medicine as the fundamental knowledge base needed for the practice of nuclear cardiology. The book is designed to increase the practitioner's knowledge of cardiovascular medicine, thereby enhancing the quality of interpretations through improved accuracy and clinical relevance. The text is divided into four sections covering all major topics in cardiology and nuclear cardiology: Basic Sciences and Cardiovascular Diseases Conventional

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Diagnostic Modalities Nuclear Cardiology
Management of Cardiovascular Diseases

Quick-reference Protocol Manual for Nuclear Medicine Technologists

Part of the renowned The Basics series, Nuclear Medicine Physics helps build foundational knowledge of how and why things happen in the clinical environment. Ideal for board review and reference, the 8th edition provides a practical summary of this complex field, focusing on essential details as well as real-life examples taken from nuclear medicine practice. New full-color illustrations, concise text, essential mathematical equations, key points, review questions, and useful appendices help you quickly master challenging concepts in nuclear medicine physics.

Steves' Review of Nuclear Medicine Technology

Building on the traditional concept of nuclear medicine, this textbook presents cutting-edge concepts of hybrid imaging and discusses the close interactions between nuclear medicine and other clinical specialties, in order to achieve the best possible outcomes for patients. Today the diagnostic applications of nuclear medicine are no longer stand-alone procedures, separate from other diagnostic imaging modalities. This is especially true for hybrid imaging guided interventional radiology or surgical procedures. Accordingly, today's nuclear medicine

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specialists are actually specialists in multimodality imaging (in addition to their expertise in the diagnostic and therapeutic uses of radionuclides). This new role requires a new core curriculum for training nuclear medicine specialists. This textbook is designed to meet these new educational needs, and to prepare nuclear physicians and technologists for careers in this exciting specialty.

Nuclear Medicine Physics

This book is an essential guide for all practitioners. The emphasis throughout is on the practice of nuclear medicine. Primarily aimed at the radiologist, physician, physicist or technologist starting in nuclear medicine, it will also appeal to more experienced practitioners who are keen to stay up-to-date. The practical approach with tables as "recipes" for acquisition protocols means it is essential for any departmental shelf. 3rd edition expanded - now covering areas of development in nuclear medicine, such as PET and other methods of tumour imaging, data processing. All illustrations are up-to-date to reflect current standards of image quality.

Clinical Nuclear Medicine

This publication is an excellent introduction to the diagnostic and therapeutic uses of nuclear medicine procedures and a must have for clinicians, residents, interns, medical students and referring physicians. It reviews nuclear medicine procedures, available alternatives, advantages and limitations of each, and

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provides patient information to aid in preparing patients

PET Study Guide

Radiopharmaceutical Chemistry

Master the content you need to know for the Core Exam module for nuclear medicine! This unique, image-rich resource is an excellent tool for self-assessment and exam prep, whether you're studying for the Core Exam or Maintenance of Certification. More than 300 questions, answers, and explanations accompany hundreds of high-quality images, in a format that mimics the Core Exam. Nuclear Medicine: A Core Review tests your knowledge of every aspect of the exam, including basic imaging, radiopharmaceuticals, relevant organ systems, pediatrics, oncology, quality control and safety, and more. Key Features High-quality planar images, SPECT images, and PET-CT images reflect the types of images that you can expect to see on exams. Multiple-choice questions and extended matching questions have corresponding answers with explanations of not only why one answer is correct, but also why other options are incorrect. Questions are divided according to the Core Exam Study Guide, so you can work on particular topics as needed. Answers include brief discussions of differential diagnosis and high-yield tables for additional quick review. References are provided for every question, helping you further your knowledge when you want to delve more deeply into

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a particular topic. An ideal reference and review tool for residents, fellows, practicing radiologists, and those preparing for Maintenance of Certification. Now with the print edition, enjoy the bundled interactive eBook edition, which can be downloaded to your tablet and smartphone or accessed online and includes features such as: Complete content with enhanced navigation Powerful search tools and smart navigation cross-links that pull results from content in the book, your notes, and even the web Cross-linked pages, references, and more for easy navigation Highlighting tool for easier reference of key content throughout the text Ability to take and share notes with friends and colleagues Quick reference tabbing to save your favorite content for future use

The Practice of Internal Dosimetry in Nuclear Medicine

Written by one of the world's leading experts in the field of nuclear medicine dosimetry, this text describes in detail the use of internal dose calculations in the practice of nuclear medicine. While radiation therapy with external sources of radiation always employs calculations of dose to optimize therapy for each patient, this is not routinely conducted in nuclear medicine therapy. As the trend towards an increasing role of dosimetry in therapy planning increases, this book reviews the available methods and technologies available to make this a more common practice. The book begins by covering the mathematical fundamentals of internal dose calculations, and uses sample calculations to

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demonstrate key principles. The book then moves forward to describe anthropomorphic models, dosimetric models, and types and uses of diagnostic and therapeutic radiopharmaceuticals. The depth of coverage makes it useful reference and guide for researchers performing dose calculations and for physicians considering incorporating dose calculations into the treatment of their cancer patients.

Essential Nuclear Medicine Physics

The complexity and vulnerability of the human body has driven the development of a diverse range of diagnostic and therapeutic techniques in modern medicine. The Nuclear Medicine procedures of Positron Emission Tomography (PET), Single Photon Emission Computed Tomography (SPECT) and Radionuclide Therapy are well-established in clinical practice and are founded upon the principles of radiation physics. This book will offer an insight into the physics of nuclear medicine by explaining the principles of radioactivity, how radionuclides are produced and administered as radiopharmaceuticals to the body and how radiation can be detected and used to produce images for diagnosis. The treatment of diseases such as thyroid cancer, hyperthyroidism and lymphoma by radionuclide therapy will also be explored.

Nuclear Medicine Technology

Practical SPECT/CT in Nuclear Medicine

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This book offers a practical and modern update on radioisotope therapy. Clinically oriented, it provides a thorough guide to patient management, with the latest indications and procedures for the current radioisotopic treatments. It addresses the clinical problems associated with each respective pathology, discussing the management of patients (diagnosis and non-radioisotope therapy), the radiopharmaceuticals available today, and the current radioisotopic procedures. Wherever possible, information on dosimetry is included at the end of each topic, together with a list of and comments on the most recent guidelines with their recommendations for radiometabolic therapy. The book is divided into six main sections: thyroid diseases, hepatic tumors (HCC and hepatic metastases), bone metastases from prostate cancer, lymphomas, and neuroendocrine tumors. The last section is dedicated to new perspectives of radioisotope treatment. Based on contributions from of a multidisciplinary team of specialists: oncologists, surgeons, endocrinologists, hematologists, urologists, radiopharmacists and nuclear medicine physicians, it provides a comprehensive analysis of the position of radioisotope treatments among the various therapeutic options. Readers interested in targeted therapy, radiometabolic therapy, radioimmunotherapy and radiometabolic imaging will find this book both informative and insightful.

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