

READ FREE DUKE REVIEW OF MRI PRINCIPLES CASE REVIEW SERIES 1E

Duke Review of MRI Principles:Case Review Series E-Book

A solid understanding of MRI physics is essential for both residents and practicing radiologists, and Duke Review of MRI Physics Principles: Case Review Series, 2nd Edition, provides practical applications, board-style self-assessment questions, and clinically relevant cases in a high-yield, easy-to-digest format. Designed to help you solve clinical questions, arrive at accurate diagnoses, and use MRI more effectively in your practice, it uses a case-based approach to demonstrate the basic physics of MRI and how it applies to successful and accurate imaging, interpretation, and diagnosis. - Focuses on 18 key MRI principles (such as T1 contrast, T2 contrast, and proton density), using a series of cases that make difficult concepts engaging and understandable. - Features over 800 high-quality MR images in a full-color, user-friendly case format with clear explanations of physics and other MRI principles. - Shares the experience and knowledge of a multidisciplinary author team comprising radiology residents, practicing radiologists, and radiology physicists who provide practical guidance for each body system – neurologic, breast, body, vascular, and musculoskeletal. - Includes a new chapter on MRI Safety, as well as new and improved color images in functional MRI, perfusion MRI, and diffusion tensor imaging. - Contains more than 300 all-new multiple-choice self-assessment questions following the board review certification and recertification question format. - Includes new Take-Home-Points at the end of each chapter for easy recall and review. - Expert Consult™ eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, and references from the book on a variety of devices.

Duke Review of MRI Principles:Case Review Series E-Book

The newest title in the popular Case Review Series, Duke Review of MRI Principles, by Wells Mangrum, MD; Kimball Christianson, MD; Scott Duncan, MD; Phil Hoang, MD; Allen W. Song, PhD; and Elmar Merkle, MD, uses a case-based approach to provide you with a concise overview of the physics behind magnetic resonance imaging (MRI). Written by radiology residents, practicing radiologists, and radiology physicists, this multidisciplinary text introduces you to the basic physics of MRI and how they apply to successful and accurate imaging, interpretation, and diagnosis. Clinically relevant cases with associated questions and images reinforce your understanding of essential principles needed to confidently interpret a wide range of MRI images for all organ systems. Review the basic physics of MRI in a concise, high-yield manner and learn how to apply them for successful and accurate imaging, interpretation, and diagnosis. Master 17 essential MRI principles you need to know through clinically relevant cases accompanied by associated questions and 600 images that reinforce your understanding and help you confidently interpret a wide range of MRI images. Effectively diagnose disease in all organ systems. Authors are fellowship-trained in each body system – neuro, breast, body, vascular and MSK, providing you with practical guidance in every area Focus on the information that's most relevant to your needs from a multidisciplinary author team comprised of radiology residents, practicing radiologists and radiology physicists. See the underlying simplicity behind MRI physics. Despite employing the same MRI principles, similar imaging systems use slightly different names. A simplified explanation of these principles and how they are applied to each body system deepens your understanding and helps avoid any confusion.

Head and Neck Imaging: Case Review Series E-Book

Incorporate today's most advanced imaging techniques with the new 4th edition of Head and Neck Imaging!

A bestselling volume in the popular Case Review Series, this updated reference helps speed your differential diagnoses and ensure your proficiency, in addition to serving as a study guide for general radiology and neuroradiology subspecialty examinations, certificates of added qualification, and radiology/neuroradiology recertification. The all-inclusive volume can serve as a comprehensive review of the subspecialty and as a primer for excelling at the Head and Neck Tumor Boards. - Efficiently study and review with help from a format that mimics the General Diagnostic Radiology and Neuroradiology Board Exams. Each case begins with a differential diagnosis question and follows with multiple-choice questions, answers with rationale, and an emphasis on clinical issues. - Explore hot topics including CT and MR angiography of the neck; multi-detector CT with 3D reconstructions; post-transplant lymphoproliferative disorders; HIV infections; squamous cell carcinoma, diagnostic and therapeutic image-guided procedures; medical economics; and much more. - Master the latest techniques with 150 new and 50 updated head and neck cases and over 800 images focusing on differential diagnosis, tumor staging, treatment options, and resectability issues. - Enhance your understanding with multiple-choice questions accompanying each case, emphasizing cranial nerves, skull base lesions, sinonasal, orbital, salivary gland, aerodigestive system mucosal lesions and deep space neck masses. - Utilize convenient cross-references to recent articles. - Stay abreast of the most recent discoveries in HPV (+) squamous cell cancers, high-resolution imaging, and CTA, MRA, and CISS applications. - Explore the differential diagnosis and/or anatomic details of every case presented. - Understand the surgical and radiation therapy considerations for cosmetic and functional outcomes. - Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, and references from the book on a variety of devices.

Genitourinary Imaging: Case Review Series E-Book

Ideal for residents, fellows, and practicing radiologists, Genitourinary Imaging is designed to provide a range of common to less commonly seen cases for sharpening diagnostic skills in this challenging subspecialty area. As part of the bestselling Case Review Series, this title allows you to test and build your knowledge with access to a wide range of cases in genitourinary radiology, making it an ideal resource for both certification and maintenance of certification (MOC) exams. - Mimics the format of official exams and the daily clinical environment with a pedagogically anchored layout that introduces cases/images as unknowns with three to four questions, followed by diagnosis, answers, additional commentary, references and cross-references to the corresponding Requisites volume are supplied in logical succession. - Blank space available for note taking. - An ideal study companion when paired with the corresponding Requisites series title, Genitourinary Radiology. - Covers the latest hot topics in genitourinary radiology, including prostate MR imaging and staging gynecologic malignancies with functional MRI. - In-depth reviews of diseases involving renal collecting systems and ureters that are diagnosed by CT urography (such as papillary necrosis, medullary sponge kidney, and urothelial neoplasms). - Increased number of interactive online case presentations featuring updated figures, recent imaging techniques, and additional supporting images for further review. - Expert Consult eBook version included with print purchase. This enhanced eBook experience allows you to search all of the text, figures, and references on a variety of devices, as well as access interactive online case presentations for effective exam review.

General and Vascular Ultrasound: Case Review Series E-Book

Written by a multidisciplinary group of contributors, including radiologists, emergency physicians, critical care specialists, anesthesiologists, and surgeons, Fundamentals of Emergency Ultrasound is a first-of-its-kind reference that clearly explains the many technical nuances and diagnostic skills necessary for optimal use of ultrasound in emergency settings. This concise, easy-to-read resource covers both non-invasive and invasive ultrasound-guided procedures for a wide range of adult and pediatric trauma and non-trauma conditions. A practical emphasis on differential diagnosis helps facilitate rapid diagnosis, triage, and disposition decisions in emergency situations where ultrasound can be used. - Provides a depth of understanding and interpretation from a multidisciplinary group of chapter authors, with step-by-step details on anatomy, equipment considerations, positioning, technique, normal and abnormal findings, and common pitfalls. - Covers

invasive procedures and ultrasound-guided injections such as thoracentesis, paracentesis, nerve blocks, and central and peripheral venous access. - Includes correlative CT, MR, and Doppler images to enhance ultrasound visualization, in addition to more than 500+ high-quality ultrasound images and 75+ line drawings. - Offers up-to-date coverage on the e-FAST, trans-thoracic and trans-esophageal echocardiography, pulmonary, and cranial sonography, among other emergency modalities. - Features more than 150 ultrasound video clips that show the many nuances of ultrasound use. - Gain new understanding from dozens of unknown cases reflecting the most recent changes in abdominal and small part ultrasound, including the scrotum and thyroid. - Understand the recent changes in the complexities of vascular ultrasound of the carotid, transplants, and extremities. - Stay up to date with new thyroid cases and musculoskeletal cases, including rheumatoid arthritis and shoulder ultrasound. - Expand your awareness of physics, state-of-the-art instrumentation, and common artifacts with added new content. - Clearly visualize what you're likely to see on exams and in practice thanks to new images -- including color Doppler images.

Neurosurgery Self-Assessment E-Book

Ideal for both neurosurgical residents and recertifying neurosurgeons, Neurosurgery Self-Assessment: Questions and Answers offers the most comprehensive, up to date coverage available. Over 1,000 clinically relevant multiple-choice questions across 46 topic areas test the candidate's knowledge of basic neuroscience and neurosurgical subspecialties to an unparalleled degree and provide detailed answer explanations to facilitate learning and assessment. - Over 700 histology, pathology, radiology, clinical and anatomical images serve as an index of routinely tested-on images in neurosurgical examinations with high-yield summaries of each pathology to reinforce and simplify key concepts. - Includes only multiple choice questions in both single-best-answer and extended matching item (10-20 options) format increasingly adopted by neurosurgery certification boards worldwide. - Questions are organized by topic and classified by degree of difficulty through a highly visual "traffic light system" which codes each question in green, amber, or red. - Includes coverage of the landmark studies in areas such as vascular, stroke, spine and neurooncology. - Practical tips facilitate study with test-taking strategies and things to consider before sitting for an exam. - Utilizes Imperial and SI units throughout.

Vascular and Interventional Imaging: Case Review Series E-Book

Increase your knowledge and improve your image interpretation skills using the proven and popular Case Review approach! Drs. Wael E. Saad, Minhaj S. Khaja, and Suresh Vedantham have updated this new edition to include nearly 200 clinically relevant cases with associated images, multiple-choice questions, answers, and rationales – all organized by level of difficulty and designed to reinforce your understanding of the essential principles needed to interpret a wide range of vascular and interventional images. - Study effectively with content that addresses contemporary medical practice emphasizing physics, clinical evaluation, and treatment following The Joint Commission and the Accreditation Council for Graduate Medical Education. - View cases that reflect contemporary practice, thanks to new, multi-modality imaging, including color images and 3D reconstructions. - Stay up to date with recent innovations in vascular and interventional radiology with a more diverse case selection, updated procedural techniques and inventory, and new and updated references from reputable sources. - Get fresh perspectives from nearly 200 updated or new cases reflecting the most recent changes in vascular and interventional radiology, including portal hypertension, aortic disease, interventional oncology, peripheral arterial disease, and complex venous disease.

Breast Imaging: Case Review Series E-Book

Effectively prepare for certification, recertification, and practice with Breast Imaging: Case Review, 2nd Edition! Case studies illustrate how to make confident, final diagnoses through accurate pattern recognition, clinical correlation, and differential diagnosis. It's an ideal way to test and deepen your knowledge of all essential topics in breast imaging. - Consult this title on your favorite e-reader with intuitive search tools and

adjustable font sizes. Elsevier eBooks provide instant portable access to your entire library, no matter what device you're using or where you're located. - Prepare for the new Board exam format with an updated organization that provides 4-5 multiple-choice review questions for each case. - Review 200 cases organized by level of difficulty, with multiple-choice questions, answers, and rationales that mimic the new format of certification and recertification exams. - Stay current with the aid of updated cases covering breast MR imaging, digital breast imaging, image-guided biopsy, imaging of high-risk lesions (ADH, LCIS), high-risk patient management, invasive lobular carcinoma, complex cystic cancer, male breast cancer, mucinous carcinoma, MRI of DCIS, desmoid tumors, and much more. - See examples of the latest imaging approaches, including digital mammography, MRI, and color Doppler US.

Cardiac Imaging: Case Review Series E-Book

Cardiac Imaging: Case Review helps you effectively prepare for certification, recertification, and practice in cardiovascular imaging with case studies that test your knowledge of all essential topics. This updated medical reference book allows you to see how to make confident, final diagnoses through accurate pattern recognition, clinical correlation, and differential diagnosis. - Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Compatible with Kindle®, nook®, and other popular devices. - Review cases organized by level of difficulty with multiple-choice questions and answers that mimic the new format of cardiovascular radiology certification and recertification exams. - Easily access in-depth explanations of any aspect of cardiac imaging with handy page references to current works, including Dr. Stephen W. Miller's Cardiac Imaging, 2nd Edition. - Stay current with the aid of updated cases covering cardiac radiology, CT, and CT angiography. - Gain a better understanding of all the material necessary for the exam through multiple examples of each existing heart disease entity.

Gastrointestinal Imaging: Case Review Series E-Book

Gastrointestinal Imaging: Case Review, by Vincent Low, MD, FRANZCR, tests your ability to interpret a wide range of images seen in practice. The completely revised edition of this medical reference book in the popular Case Review Series features 200 cases organized by difficulty, making it ideal for quick reference and easy board review! - Utilizes case studies organized into "Opening Round," "Fair Game," and "Challenge" sections, so you can Test yourself at varying difficulty levels. - Uses a format similar to the American Board of Radiology's oral exam, and case studies similar to those found on exams for realistic exam preparation. - More than 350 high-quality, state-of-the-art images present clinical situations as encountered in the field. - Includes the most recent knowledge from the literature in gastrointestinal imaging to keep your skills current. - Helps you distinguish among diseases and disorders with similar sonographic presentations with an increased emphasis on differential diagnosis. - Groups cases by topic for more efficient, targeted review. - Incorporates page references to Halpert: Gastrointestinal Imaging: The Requisites, 2nd Edition. - Review 200 cases organized by level of difficulty, with multiple-choice questions, answers, and rationales that mimic the new format of certification and recertification exams. - Effectively employ differential diagnosis procedures to distinguish among diseases and disorders with similar sonographic presentations. - Alleviate exam anxiety and sharpen your clinical skills with visual guidance from entirely new high-quality, state-of-the-art images presenting a wide range of clinical situations.

Musculoskeletal Imaging: Case Review Series E-Book

Increase your knowledge and improve your image interpretation skills using the proven and popular Case Review approach! This new edition contains 200 clinical cases with 800 radiographic images with multiple-choice questions, answers, and rationales – all organized by level of difficulty and designed to reinforce your understanding of the essential principles needed to interpret a wide range of musculoskeletal imaging modalities. Accessible, thorough, and concise, Musculoskeletal Imaging is an ideal self-assessment tool for both certification and maintenance of certification (MOC) exams. - 200 unknown cases challenge your knowledge of a full range of topics in musculoskeletal imaging with questions, answers, diagnoses, and

commentary. - Emphasizes differential diagnosis to help you distinguish among diseases and disorders with similar imaging presentations. - 100s of new and additional images—three-times more than the previous edition—complement the cases to provide you with key imaging findings and specific "pearls" to remember. - Cases are divided into three levels of difficulty, "Opening Round," "Fair Game," and "Challenge," so you can test yourself and monitor your progress. - All topics have been selected from the ABR Core Examination study guide. - 800 multiple choice questions simulate questions in the Radiology Core and MOC Examinations. - Each figure is labeled and annotated with a legend that discusses the imaging findings. - Cases are enhanced with additional images that emphasize other important features of the disease or condition discussed. - Covers the latest hot topics in musculoskeletal imaging including: compressive neuropathy, emergent musculoskeletal conditions, and secondary signs of ligamentous injury as well as metabolic diseases such as atypical femur fracture from chronic bisphosphonate use. - Updated and expanded coverage of the latest high-tech imaging procedures and modalities to help you stay abreast of recent advances and trends in musculoskeletal imaging. - Expert Consult™ eBook version included with print purchase. This enhanced eBook experience allows you to search all of the text, figures, and references on a variety of devices, as well as access online case presentations for effective exam review.

Neuroradiology Imaging Case Review E-Book

This new volume in the best-selling Case Review series presents the best of 200 brain, spine, and head and neck case studies to challenge your knowledge of a full range of topics in neuroradiology. Designed to fully prepare you for the neuroradiology section of the general radiology boards and the neuroradiology subspecialty exam, this outstanding review tool by Drs. Salvatore V. Labruzzo, Laurie A. Loevner, Efrat Saraf-Lavi, and David M. Yousem, compiles contemporary cases and single best answer questions from the bestselling Brain, Spine, and Head and Neck Case Review titles to create a proven, all-in-one resource for effective review. - Covers the full spectrum of neuroradiology imaging using rewritten and revised questions along with new cases and new images – all designed to reflect the new board exam format. - Incorporates questions on physics, patient management, and treatment to prepare you for recent changes to the board exam. - Includes new MR images and additional imaging of fibromuscular dysplasia (FMD), neurofibromatosis (NF1), lymphoma, vascular malformations, and post-traumatic and iatrogenic processes. - Covers the most high-yield material from all aspects of neuroradiology. - Divides cases into three levels of difficulty, "Opening Round," "Fair Game," and "Challenge," so you can test yourself and monitor your progress. - Includes cross-references to *Neuroradiology: The Requisites*, 4th Edition to direct you to further information for review. - Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability.

Pediatric Imaging: Case Review E-Book

Pediatric Imaging: Case Review is a quick review of common or rare but classic pediatric cases that tests your knowledge of pediatric imaging. Featuring updated pediatric body and pediatric neuro-imaging cases from fetus to young adolescents, this case review book includes over 300 images and 600 all-new multiple-choice questions, providing residents and radiologists with a current review of key pediatric imaging information. - Images and descriptions address most common/classic, as well as several rare but critical entities of pediatric radiology in a single source. - Distinguish between common and rare diagnoses with case studies organized into "Opening Round," "Fair Game," and "Challenge" sections that present varying levels of difficulty and occurrences. - Features completely updated cases throughout -- including new cases on congenital heart disease -- and over 300 new images. - Expanded cases include advanced and state-of-the-art imaging modalities (i.e. fetal MRI and CTA/MRA of the heart). - Provides expanded coverage of radiation dose reduction, in addition to new patient management, physics, quality and safety, and non-interpretive skills content. - 600 all-new multiple-choice questions are designed to mimic the format of core board and certification exams. - Incorporates up-to-date disease classification systems (e.g. ISSVA 2014 of vascular anomalies). - Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, images, and references from the book on a variety of devices.

Non-Interpretive Skills for Radiology: Case Review E-Book

The only review book of its kind, David M. Yousem's Non-Interpretive Skills prepares you for exam questions on every aspect of radiology that does not involve reading and interpreting images: communication, quality and safety, ethics, leadership, data management, business principles, analytics, statistics, and more. Ideal for residents and practitioners alike, this unique study tool contains hundreds of questions, answers, and rationales that cover the entire range of NIS content on the credentialing boards and MOC exams. Your exam preparation isn't complete without it! - Exclusive test preparation on every NIS area, including business, ethics, safety, quality improvement, resuscitation techniques, and medications used by radiologists. - 600 multiple-choice questions with answers and rationales provide a practical and solid foundation for exams and clinical practice. - Author David M. Yousem, MD, MBA and his colleagues at the Johns Hopkins Department of Radiology share years of expertise in radiology education, quality assurance, and business topics. - A single, easy-to-use source for thorough review of the NIS topics you'll encounter on exams and in your radiology practice.

Totally Accessible MRI

This practical guide offers an accessible introduction to the principles of MRI physics. Each chapter explains the why and how behind MRI physics. Readers will understand how altering MRI parameters will have many different consequences for image quality and the speed in which images are generated. Practical topics, selected for their value to clinical practice, include progressive changes in key MRI parameters, imaging time, and signal to noise ratio. A wealth of high quality illustrations, complemented by concise text, enables readers to gain a thorough understanding of the subject without requiring prior in-depth knowledge.

MRI

This fifth edition of the most accessible introduction to MRI principles and applications from renowned teachers in the field provides an understandable yet comprehensive update. Accessible introductory guide from renowned teachers in the field Provides a concise yet thorough introduction for MRI focusing on fundamental physics, pulse sequences, and clinical applications without presenting advanced math Takes a practical approach, including up-to-date protocols, and supports technical concepts with thorough explanations and illustrations Highlights sections that are directly relevant to radiology board exams Presents new information on the latest scan techniques and applications including 3 Tesla whole body scanners, safety issues, and the nephrotoxic effects of gadolinium-based contrast media

Duke Review of MRI Physics

A hands-on tool for medical students, Neuroanatomy Basics: A Clinical Guide covers key basic neuroanatomy material and the most important clinical correlations that a medical student is required to know. The book's style is simple and features an array of figures/illustrations that will show the student what he/she has just studied. It will follow a breadcrumbs approach that relies heavily on images/figures. Relying on photographic memory is quite helpful in grasping 'dry and rigid' neuroanatomy concepts; hence, the large number of figures contained in the book. Students will not have to refer to an atlas or other references in order to grasp the book's concepts. The peculiar order of sections will guide the student through the sequence of events/anatomical structures back and forth from cellular to structural levels, depending on the stimulus and response.

Duke Review of MRI Principles

This superbly illustrated book is designed to meet the demand for a comprehensive yet concise source of information on temporomandibular joint (TMJ) imaging that covers all aspects of TMJ diagnostics. After

introductory chapters on anatomy, histology, and the basics of radiological imaging, detailed guidance is provided on the use and interpretation of radiography, CT, CBCT, ultrasound, MRI, and nuclear medicine techniques. Readers will find clear presentation of the imaging findings in the full range of TMJ pathologies, from intrinsic pathological processes to invasion by lesions of the temporal bone and mandibular condyle. Careful attention is also paid to the technical issues confronted when using different imaging modalities, and the means of resolving them. The role of interventional radiology is examined, and consideration given to the use of arthrography and arthrography-guided steroid treatment. In addition, an overview of recent advances in research on TMJ diagnostics is provided. Imaging of the Temporomandibular Joint has been written by an international team of dedicated authors and will be of high value to clinicians in their daily practice.

Neuroanatomy Basics: A Clinical Guide E-Book

Spine Imaging, a title in the popular Case Review Series, helps you effectively prepare for certification, recertification, and practice in spine imaging with case studies that test your knowledge of all essential topics. This medical reference book will show you how to make confident, final diagnoses through accurate pattern recognition, clinical correlation, and differential diagnosis. - Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Compatible with Kindle®, nook®, and other popular devices. - Prepare effectively by reviewing 160 spine imaging cases, organized by level of difficulty, that mimic the new format of radiology certification and recertification exams. Every case includes at least 3 images and 4 multiple-choice review questions, along with rationales that explain why each answer is correct or incorrect. - Ensure your knowledge is up to date with the aid of new and updated spinal imaging case studies covering modalities such as Spinal MRA imaging, SWI, CINE CSF flow, MR myelography and peripheral nerve imaging. New cases include discal cyst, polymyalgia rheumatica, Gaucher disease, pigmented villonodular synovitis, ventriculus terminalis cyst, and much more.

Advances in Brain Mechanics

Applications of Multi-Criteria Decision-Making Theories in Healthcare and Biomedical Engineering contains several practical applications on how decision-making theory could be used in solving problems relating to the selection of best alternatives. The book focuses on assisting decision-makers (government, organizations, companies, general public, etc.) in making the best and most appropriate decision when confronted with multiple alternatives. The purpose of the analytical MCDM techniques is to support decision makers under uncertainty and conflicting criteria while making logical decisions. The knowledge of the alternatives of the real-life problems, properties of their parameters, and the priority given to the parameters have a great effect on consequences in decision-making. In this book, the application of MCDM has been provided for the real-life problems in health and biomedical engineering issues. - Provides a comprehensive analysis and application multi-criteria decision-making methods - Presents detail information about MCDM and their usage - Covers state-of-the-art MCDM methods and offers applications of MCDM for health and biomedical engineering purposes

Imaging of the Temporomandibular Joint

Master the critical physics content you need to know with this new title in the popular Case Review series. Imaging Physics Case Review offers a highly illustrated, case-based preparation for board review to help residents and recertifying radiologists succeed on exams and demonstrate a clinical understanding of physics, patient safety, and improvement of imaging accuracy and interpretation. - Presents 150 high-yield case studies organized by level of difficulty, with multiple-choice questions, answers, and rationales that mimic the format of certification exams. - Uses short, easily digestible chapters and high-quality illustrations for efficient, effective learning and exam preparation. - Discusses current advances in all modalities, ensuring that your study is up-to-date and clinically useful. - Covers today's key physics topics including radiation safety and methods to prevent patient harm; how to reduce artifacts; basics of radiation doses including dose reduction strategies; cardiac CT physics; advanced ultrasound techniques; and how to optimize image quality

using physics principles. - Enhanced eBook version included with purchase, which allows you to access all of the text, figures, and references from the book on a variety of devices

Translational Advances in Alzheimer's, Parkinson's, and other Dementia: Molecular Mechanisms, Biomarkers, Diagnosis, and Therapies, Volume II

Master the content you need to know for the Core Exam module for gastrointestinal imaging! This unique, image-rich resource is an excellent tool for self-assessment and exam prep, whether you're studying for the Core Exam or MOC. More than 300 questions, answers, and explanations accompany hundreds of high-quality images, in a format that mimics the Core Exam. Gastrointestinal Imaging: A Core Review tests your knowledge of every aspect of this challenging and rewarding subspecialty, covering the wide variety of organs, the diversity of diseases and treatments, and the full spectrum of available imaging modalities.

Spine Imaging E-Book

Candidates can prepare with confidence for postgraduate exams in sports and exercise medicine (SEM) with this revision guide. Containing over 400 SBA questions the content is carefully mapped to the Membership of Faculty of Sports and Exercise Medicine UK (MFSEM) curriculum ensuring comprehensive preparation. The Single Best Answer questions mirror the format of those candidates can expect to find in the MFSEM exam and many other postgraduate MSC SEM examinations globally. Explanatory answers include valuable background knowledge and references for further study. Each question and answer has been written to a high standard by some of the leading lights in SEM, orthopaedics, physiotherapy, rheumatology, radiology and musculoskeletal medicine as well as other specialties. Written by over 90 experts from the UK, Australia, the USA and Europe, this resource can help candidates preparing for entrance and final fellowship examinations of many international organisations including the ACSEP in Australia, UEMS in Europe and the CAQ in the USA. Providing a thorough assessment of the reader's Sports and Exercise Medicine knowledge, this is an invaluable resource for today's SEM student.

Applications of Multi-Criteria Decision-Making Theories in Healthcare and Biomedical Engineering

Getting the right diagnosis is a key aspect of health care - it provides an explanation of a patient's health problem and informs subsequent health care decisions. The diagnostic process is a complex, collaborative activity that involves clinical reasoning and information gathering to determine a patient's health problem. According to *Improving Diagnosis in Health Care*, diagnostic errors-inaccurate or delayed diagnoses-persist throughout all settings of care and continue to harm an unacceptable number of patients. It is likely that most people will experience at least one diagnostic error in their lifetime, sometimes with devastating consequences. Diagnostic errors may cause harm to patients by preventing or delaying appropriate treatment, providing unnecessary or harmful treatment, or resulting in psychological or financial repercussions. The committee concluded that improving the diagnostic process is not only possible, but also represents a moral, professional, and public health imperative. *Improving Diagnosis in Health Care*, a continuation of the landmark Institute of Medicine reports *To Err Is Human* (2000) and *Crossing the Quality Chasm* (2001), finds that diagnosis-and, in particular, the occurrence of diagnostic errors-has been largely unappreciated in efforts to improve the quality and safety of health care. Without a dedicated focus on improving diagnosis, diagnostic errors will likely worsen as the delivery of health care and the diagnostic process continue to increase in complexity. Just as the diagnostic process is a collaborative activity, improving diagnosis will require collaboration and a widespread commitment to change among health care professionals, health care organizations, patients and their families, researchers, and policy makers. The recommendations of *Improving Diagnosis in Health Care* contribute to the growing momentum for change in this crucial area of health care quality and safety.

Imaging Physics Case Review E-Book

Offering a complete review for radiology residents and radiologic technologists preparing for certification, *Review of Radiologic Physics, 5th Edition*, by Dr. William F. Sensakovic, is a high-yield, efficient resource for today's clinically focused exams. Now fully up to date, this edition covers x-ray production and interactions, projection and tomographic imaging, image quality, radiobiology, radiation protection, nuclear medicine, ultrasound, and magnetic resonance—all of the important physics information you need to understand the factors that improve or degrade image quality.

Gastrointestinal Imaging: A Core Review

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.

SBA's in Sport, Exercise, and Musculoskeletal Medicine

Clinical Case Studies for the Family Nurse Practitioner is a key resource for advanced practice nurses and graduate students seeking to test their skills in assessing, diagnosing, and managing cases in family and primary care. Composed of more than 70 cases ranging from common to unique, the book compiles years of experience from experts in the field. It is organized chronologically, presenting cases from neonatal to geriatric care in a standard approach built on the SOAP format. This includes differential diagnosis and a series of critical thinking questions ideal for self-assessment or classroom use.

MRI Made Easy

Radiologists in emergency department settings are uniquely positioned to identify and provide effective, appropriate care to vulnerable patient populations. *Emergency Imaging of At-Risk Patients* fills a void in the literature by illustrating challenges in emergency and trauma imaging of vulnerable patients using a head-to-toe approach. Drawing on the vast clinical experience of emergency and trauma radiologists from the largest academic medical centers across North America, this reference presents basic and advanced emergency imaging concepts, relevant case studies, current controversies and protocols, and subtle imaging findings that help guide clinicians to efficient and accurate diagnoses and treatments. - Provides a comprehensive, evidence-based approach to imaging of non-traumatic and traumatic emergencies in at-risk patients. - Covers acute brain, thoracic, abdominal, and musculoskeletal conditions, including the unique challenges of imaging pregnant, geriatric, bariatric, cancer, immunocompromised, and pediatric patients, as well as patients using recreational drugs. - Describes specific applications of ultrasound, MRI, radiography, and multidetector computed tomography (MDCT). - Reviews recent imaging-related clinical literature and appropriate criteria and guidelines. - A valuable tool for emergency and general radiologists, as well as pediatricians, obstetricians, gynecologists, orthopedic, trauma surgeons, and trainees in all specialties.

Improving Diagnosis in Health Care

Musculoskeletal Imaging: A Core Review will consist of approximately 300 musculoskeletal radiology questions, in the format similar to the core exam. High quality radiographs, CT, MRI, and ultrasound images will be included. Answers to the questions will be discussed in a concise manner with explanations for why a particular answer choice is correct and the remaining answer choices are incorrect. Literature references will be provided for each answer explanation, so a reader will know where to go for further reading on the subject. This will be the first review book available to radiology residents preparing for the new core exam.

Key Features 1st MSK review book geared to prep for the new ABR exam 300 Questions Answers to the questions discussed in a concise manner with explanations for why a particular answer choice is correct and the remaining answer choices are incorrect High quality radiographs, CT, MRI, and ultrasound images included

Review of Radiologic Physics

Dr. Eisenberg's best seller is now in its Fifth Edition—with brand-new material on PET and PET/CT imaging and expanded coverage of MRI and CT. Featuring over 3,700 illustrations, this atlas guides readers through the interpretation of abnormalities on radiographs. The emphasis on pattern recognition reflects radiologists' day-to-day needs...and is invaluable for board preparation. Organized by anatomic area, the book outlines and illustrates typical radiologic findings for every disease in every organ system. Tables on the left-hand pages outline conditions and characteristic imaging findings...and offer comments to guide diagnosis. Images on the right-hand pages illustrate the major findings noted in the tables. A new companion Website allows readers to assess and further sharpen their diagnostic skills.

Nuclear Medicine Physics: The Basics

Designed specifically for the Core Exam, Vascular and Interventional Radiology : A Core Review covers all key aspects of the field, mimicking the image-rich, multiple-choice format of the actual test. Ideal for residents preparing for the Core Examination, as well as practitioners taking recertification exams, this unique review follows the structure and content of what you'll encounter on the test, effectively preparing you for Core Exam success!

Clinical Case Studies for the Family Nurse Practitioner

An up-to-date edition of the authoritative text on the physics of medical imaging, written in an accessible format The extensively revised fifth edition of Hendee's Medical Imaging Physics, offers a guide to the principles, technologies, and procedures of medical imaging. Comprehensive in scope, the text contains coverage of all aspects of image formation in modern medical imaging modalities including radiography, fluoroscopy, computed tomography, nuclear imaging, magnetic resonance imaging, and ultrasound. Since the publication of the fourth edition, there have been major advances in the techniques and instrumentation used in the ever-changing field of medical imaging. The fifth edition offers a comprehensive reflection of these advances including digital projection imaging techniques, nuclear imaging technologies, new CT and MR imaging methods, and ultrasound applications. The new edition also takes a radical strategy in organization of the content, offering the fundamentals common to most imaging methods in Part I of the book, and application of those fundamentals in specific imaging modalities in Part II. These fundamentals also include notable updates and new content including radiobiology, anatomy and physiology relevant to medical imaging, imaging science, image processing, image display, and information technologies. The book makes an attempt to make complex content in accessible format with limited mathematical formulation. The book is aimed to be accessible by most professionals with lay readers interested in the subject. The book is also designed to be of utility for imaging physicians and residents, medical physics students, and medical physicists and radiologic technologists perpetrating for certification examinations. The revised fifth edition of Hendee's Medical Imaging Physics continues to offer the essential information and insights needed to understand the principles, the technologies, and procedures used in medical imaging.

Emergency Imaging of At-Risk Patients - E-Book

Now in its updated Third Edition, MRI: The Basics is an easy-to-read, clinically relevant introduction to the physics behind MR imaging. The book features large-size, legible equations, state-of-the-art images, instructive diagrams, and questions and answers that are ideal for board review. The American Journal of Radiology praised the previous edition as \"an excellent text for introducing the basic concepts to individuals

interested in clinical MRI." This edition spans the gamut from basic physics to multi-use MR options to specific applications, and has dozens of new images. Coverage reflects the latest advances in MRI and includes completely new chapters on k-space, parallel imaging, cardiac MRI, and MR spectroscopy.

Functional Magnetic Resonance Imaging

This unique and comprehensive title offers state-of-the-art guidance on all of the clinical principles and practices needed in providing optimal health and well-being services for college students. Designed for college health professionals and administrators, this highly practical title is comprised of 24 chapters organized in three sections: Common Clinical Problems in College Health, Organizational and Administrative Considerations for College Health, and Population and Public Health Management on a College Campus. Section I topics include travel health services, tuberculosis, eating disorders in college health, and attention deficit hyperactivity disorder among college students, along with several other chapters. Subsequent chapters in Section II then delve into topics such as supporting the health and well-being of a diverse student population, student veterans, health science students, student safety in the clinical setting, and campus management of infectious disease outbreaks, among other topics. The book concludes with organizational considerations such as unique issues in the practice of medicine in the institutional context, situating healthcare within the broader context of wellness on campus, organizational structures of student health, funding student health services, and delivery of innovative healthcare services in college health. Developed by a renowned, multidisciplinary authorship of leaders in college health theory and practice, and coinciding with the founding of the American College Health Association 100 years ago, Principles and Practice of College Health will be of great interest to college health and well-being professionals as well as college administrators.

Musculoskeletal Imaging: A Core Review

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