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GE Healthcare pioneered and consistently pushed the science of image reconstruction further. TrueFidelity CT Images are more than a radical, next-generation improvement. They elevate the vision of what you and TrueFidelity can achieve—together.

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Revolution EVO Gen 3 | GE Healthcare US | GE Healthcare

Revolution EVO delivers high spatial resolution thanks to its redesigned Clarity Imaging System. It features the Performix ™ 40 Plus tube with ultra-stable dual focal spots, the GE-proprietary HiLight detector, and the low-noise Clarity data acquisition system inherited from our Revolution CT. Benefits Core Technologies Solutions & Services

GE Healthcare Revolution EVO

Revolution EVO is designed with the purpose of operating in the reality of now, while anticipating the challenges of tomorrow. It’s designed to support the widest variety of patients and applications, from complex trauma or cardiac cases, to large patient backlogs in busy emergency departments that strain workflows and resources.

Revolution EVO - GE Healthcare

Revolution EVO delivers twice the spatial resolution thanks to its redesigned Clarity Imaging System. It features the Performix* 40 Plus tube with ultra-stable dual focal spots, the GE-proprietary HiLight detector, and the low-noise Clarity data acquisition system inherited from our Revolution CT. Benefits Core Technologies Solutions & Services

GE Healthcare Revolution EVO

*Optional 1. In clinical practice, the use of ASiR or * may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice.

Revolution EVO Gen 2 | GE Healthcare

CT scanner (Revolution Evo, GE Healthcare, Waukesha, USA) to assess the coronary calcium score. Subsequently, after intravenous injection of 80ml nonionic iodinated contrast (370 mg/ml) at a flow rate of 5ml/s, prospective ECG triggered slices were acquired with dose modulation as follow:

Revolution EVO: Low Dose CCTA with ... - GE Healthcare Systems

Ultra-low-dose sinuses at 0.054 mSv10 year old with sinus pain

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Imaging with Revolution EVO - Complex Polytrauma Imaging in the ER Download. FOOTNOTES *Optional 1. In clinical practice, the use of ASiR or * may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the ...

Revolution EVO Gen 2 | GE Healthcare

Revolution TM CT delivers uncompromised image quality and clinical capabilities through the convergence of coverage, spatial resolution, temporal resolution and spectral imaging - all in one. It is the CT designed to help you deliver revolutionary and differentiated capabilities across all of your clinical areas.

Revolution CT | GE Healthcare

Revolution™ EVO is designed with the purpose of operating in the reality of now, while anticipating the challenges of tomorrow. It's designed to support the widest variety of patients and applications, from complex trauma or cardiac cases, to large patient backlogs in busy emergency departments that strain workflows and resources.

Revolution EVO | GE Healthcare

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Built on the Revolution CT platform, the Revolution CT ES is designed with versatility and scalability in mind, so you can broaden access to additional patient populations. The suite of innovative technologies deliver high quality images, fast scans and low dose to help address the toughest clinical areas and the most challenging patients.

Revolution CT ES | GE Healthcare

Description. The Revolution EVO from GE Healthcare is a single source CT Scanner. It’s designed to support the widest type of patients and applications. This scanner offers clear images with great spatial resolution. Low dosage is possible for up to 82% of patients of all ages. It’s fast to use contributing to greater workflow efficiency.

GE Healthcare | Revolution EVO

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Dr Treutnaere, radiologist in Istres (France), shares his experience with Revolution EVO. October 2015.

GE HEALTHCARE Revolution EVO benefits - YouTube

GE Healthcare urges you to use protective materials and devices to prevent any injury or damage from X-ray exposure. Page 60: General Radiation Safety Revolution CT User Manual Direction 5480385-1EN, Revision 1 4.2 General Radiation Safety WARNING NEVER SCAN A PATIENT WITH UNAUTHORIZED PERSONNEL IN THE SCAN ROOM.

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This issue of Neuroimaging Clinics of North America focuses on Dual Energy CT: Applications in Neurologic, Head and Neck Imaging, and is edited by Drs. Reza Forghani and Hillary R. Kelly. Articles will include: Dual Energy CT: Physical Principles and Approaches to Scanning, Part 1; Dual Energy CT: Physical Principles and Approaches to Scanning, Part 2; Dual Energy CT Applications for Differentiation of Intracranial Hemorrhage, Calcium, and Iodine; Dual Energy CT Angiography of the Head and Neck and Related Applications; Miscellaneous and Emerging Applications of Dual Energy CT for the Evaluation of Intracranial Pathology; Applications of Dual Energy CT for the Evaluation of Head and Neck Squamous Cell Carcinoma; Dual Energy CT Applications for the Evaluation of Cervical Lymphadenopathy; Miscellaneous and Emerging Applications of Dual Energy CT for the Evaluation of Pathologies in the Head and Neck; Dual Energy CT Applications for the Evaluation of the Spine; Applications of Dual Energy CT for Artifact Reduction in the Head, Neck, and Spine; Advanced Tissue Characterization and Texture Analysis using Dual Energy CT: Horizons and Emerging Applications; and more!

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

Leading clinicians and researchers from around the world review the full scope of current developments, research, and scientific controversy regarding the principles and applications of cardiac CT. Richly illustrated with numerous black-and-white and color images, the book discusses the interpretation of CT images of the heart in a variety of clinical, physiological, and pathological applications. The authors emphasize current state-of-the-art uses of CT, but also examine developments at the horizon. They also review the technical basis of CT image acquisition, as well as tools for image visualization and analysis.

Recent years have seen a marked increase in cardiovascular computed tomography (CT) imaging, with the technique now integrated into many imaging guidelines, such as those published by ESC and NICE. Rapid clinical and technological progress has created a need for guidance on the practical aspects of CT image acquisition, analysis and interpretation. The Oxford Specialist Handbook of Cardiovascular CT, now revised for the second edition by practising international experts with many years of hands-on experience, is designed to fulfil this need. The Handbook is a practical guide on performing, analysing and interpreting cardiovascular CT scans, covering all aspects from patient safety to optimal image acquisition to differential diagnoses of tricky images. It takes an international approach to both accreditation and certification, highlighting British, European, and American examinations and courses. The format is designed to be accessible and is laid out in easy to navigate sections. It is meant as a quick-reference guide, to live near the CT scanner, workstation, or on the office shelf. The Handbook is aimed at all cardiovascular CT users (Cardiologists, Radiologists and Radiographers), particularly those new to cardiovascular CT, although even the advanced user should find useful tips and tricks within.

This book is a comprehensive guide to contrast-enhanced mammography (CEM), a novel advanced mammography technique using dual-energy mammography in combination with intravenous contrast administration in order to increase the diagnostic performance of digital mammography. Readers will find helpful information on the principles of CEM and indications for the technique. Detailed attention is devoted to image interpretation, with presentation of case examples and highlighting of pitfalls and artifacts. Other topics to be addressed include the establishment of a CEM program, the comparative merits of CEM and MRI, and the roles of CEM in screening populations and monitoring of response to neoadjuvant chemotherapy. CEM became commercially available in 2011 and is increasingly being used in clinical practice owing to its superiority over full-field digital mammography. This book will be an ideal source of knowledge and guidance for all who wish to start using the technique or to learn more about it.

Racial and ethnic disparities in health care are known to reflect access to care and other issues that arise from differing socioeconomic conditions. There is, however, increasing evidence that even after such differences are accounted for, race and ethnicity remain significant predictors of the quality of health care received. In Unequal Treatment, a panel of experts documents this evidence and explores how persons of color experience the health care environment. The book examines how disparities in treatment may arise in health care systems and looks at aspects of the clinical encounter that may contribute to such disparities. Patients' and providers' attitudes, expectations, and behavior are analyzed. How to intervene? Unequal Treatment offers recommendations for improvements in medical care financing, allocation of care, availability of language translation, community-based care, and other arenas. The committee highlights the potential of cross-cultural education to improve provider-patient communication and offers a detailed look at how to integrate cross-cultural learning within the health professions. The book concludes with recommendations for data collection and research initiatives. Unequal Treatment will be vitally important to health care policymakers, administrators, providers, educators, and students as well as advocates for people of color.

Dual-energy CT is a novel, rapidly emerging imaging technique which offers important new functional and specific information. In this book, physicists and specialists from different CT manufacturers provide an insight into the technological basis of, and the different approaches to, dual-energy CT. Renowned medical scientists in the field explain the pathophysiological and molecular background of the technique, discuss its applications, provide detailed advice on how to obtain optimal results, and offer hints regarding clinical interpretation. The main focus is on the use of dual-energy CT in daily clinical practice, and individual sections are devoted to imaging of the vascular system, the thorax, the abdomen, and the extremities. Evaluations and recommendations are based on personal experience and peer-reviewed literature. Plenty of carefully chosen high-quality images are included to illustrate the clinical benefits of the technique.

The purpose of this book is to provide an overview of the new industrial revolution: the "Industry 4.0." Globalization and competitiveness are forcing companies to review and improve their production processes. Industry 4.0 is a revolution that involves many different sectors and is still evolving. It represents the integration of tools already used in the past (big data, cloud, robot, 3D printing, simulation, etc.) that are now connected to a smart network by transmitting digital data at high speeds. The implementation of a 4.0 system represents a huge change for companies, which are faced with big investments. The idea of the book is to present practices, challenges, and opportunities related to the Industry 4.0. This book is intended to be a useful resource for anyone who deals with this issue.

This comprehensive guide provides a uniquely practical, application-focused introduction to medical image analysis. This fully updated new edition has been enhanced with material on the latest developments in the field, whilst retaining the original focus on segmentation, classification and registration. Topics and features: presents learning objectives, exercises and concluding remarks in each chapter; describes a range of common imaging techniques, reconstruction techniques and image artifacts, and discusses the archival and transfer of images; reviews an expanded selection of techniques for image enhancement, feature detection, feature generation, segmentation, registration, and validation; examines analysis methods in view of image-based guidance in the operating room (NEW); discusses the use of deep convolutional networks for segmentation and labeling tasks (NEW); includes appendices on Markov random field optimization, variational calculus and principal component analysis.