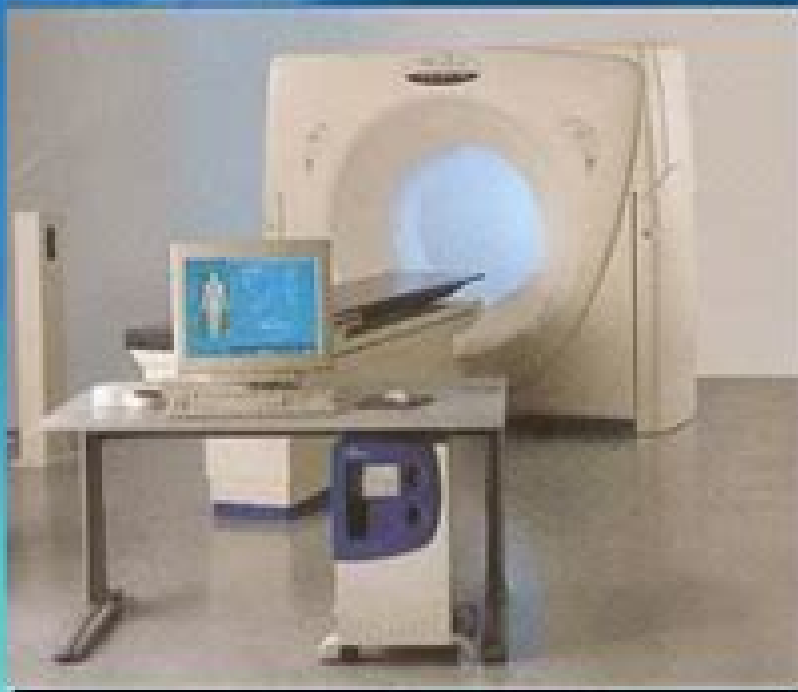


Managing Patient Dose in Computed Tomography (CT)



Managing Patient Dose In Computed Tomography

D. Tack, Pierre Alain Gevenois



Managing Patient Dose In Computed Tomography:

ICRP Publication 87 ICRP,2001-12-31 Computed tomography CT examinations can involve relatively high doses to patients The doses can often approach or exceed levels known with certainty to increase the probability of cancer The frequency of CT examinations is increasing worldwide and the variety of examinations is also increasing However in contrast to the common trend in diagnostic radiology the rapid developments in CT have not led in general to a reduction of patient doses per examination Therefore management of patient dose is crucial Proper justification of examinations use of the appropriate technical parameters during examinations proper quality control and application of diagnostic reference levels of dose as appropriate would all contribute to this end There is also scope for further technical development of the equipment used The present publication aims to provide information in all these respects in order to provide assistance in the successful management of patient dose

ICRP Publication 102 ICRP,2008-01-03 Computed tomography CT technology has changed considerably in recent years with the introduction of increasing numbers of multiple detector arrays There are several parameters specific to multi detector computed tomography MDCT scanners that increase or decrease patient dose systematically compared to older single detector computed tomography SDCT scanners This document briefly reviews the MDCT technology radiation dose in MDCT including differences from SDCT and factors that affect dose radiation risks and the responsibilities for patient dose management The document recommends that users need to understand the relationship between patient dose and image quality and be aware that image quality in CT is often higher than that necessary for diagnostic confidence Automatic exposure control AEC does not totally free the operator from selection of scan parameters and awareness of individual systems is important Scanning protocols cannot simply be transferred between scanners from different manufacturers and should be determined for each MDCT If the image quality is appropriately specified by the user and suited to the clinical task there will be a reduction in patient dose for most patients Understanding of some parameters is not intuitive and the selection of image quality parameter values in AEC systems is not straightforward Examples of some clinical situations have been included to demonstrate dose management e g CT examinations of the chest the heart for coronary calcium quantification and non invasive coronary angiography colonography the urinary tract children pregnant patients trauma cases and CT guided interventions CT is increasingly being used to replace conventional x ray studies and it is important that patient dose is given careful consideration particularly with repeated or multiple examinations

Managing Patient Dose in Computed Tomography ,2000 Managing Patient Dose in Multi-detector Computed Tomography (MDCT) ,2007 Radiation Dose from Multidetector CT Denis Tack,Mannudeep K.

Kalra,Pierre Alain Gevenois,2012-06-05 Computed tomography CT is a powerful technique providing precise and confident diagnoses The burgeoning use of CT has resulted in an exponential increase in collective radiation dose to the population Despite investigations supporting the use of lower radiation doses surveys highlight the lack of proper understanding of CT

parameters that affect radiation dose Dynamic advances in CT technology also make it important to explain the latest dose saving strategies in an easy to comprehend manner This book aims to review all aspects of the radiation dose from CT and to provide simple rules and tricks for radiologists and radiographers that will assist in the appropriate use of CT technique The second edition includes a number of new chapters on the most up to date strategies and technologies for radiation dose reduction while updating the outstanding contents of the first edition Vendor perspectives are included and an online image gallery will also be available to readers Radiation Detection and Protection part - 2 Mr. Rohit Manglik,2024-01-15

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Computed Tomography & Magnetic Resonance Imaging Of The Whole Body E-Book John R. Haaga,Daniel Boll,2008-12-08 Now more streamlined and focused than ever before the 6th edition of CT and MRI of the Whole Body is a definitive reference that provides you with an enhanced understanding of advances in CT and MR imaging delivered by a new team of international associate editors Perfect for radiologists who need a comprehensive reference while working on difficult cases it presents a complete yet concise overview of imaging applications findings and interpretation in every anatomic area The new edition of this classic reference released in its 40th year in print is a must have resource now brought fully up to date for today s radiology practice Includes both MR and CT imaging applications allowing you to view correlated images for all areas of the body Coverage of interventional procedures helps you apply image guided techniques Includes clinical manifestations of each disease with cancer staging integrated throughout Over 5 200 high quality CT MR and hybrid technology images in one definitive reference For the radiologist who needs information on the latest cutting edge techniques in rapidly changing imaging technologies such as CT MRI and PET CT and for the resident who needs a comprehensive resource that gives a broad overview of CT and MRI capabilities Brand new team of new international associate editors provides a unique global perspective on the use of CT and MRI across the world Completely revised in a new more succinct presentation without redundancies for faster access to critical content Vastly expanded section on new MRI and CT technology keeps you current with continuously evolving innovations **Computed Tomography** Ehsan Samei,Norbert J. Pelc,2019-11-15 This book offers a comprehensive and topical depiction of advances in CT imaging CT has become a leading medical imaging modality thanks to its superb spatial and temporal resolution to depict anatomical details New advances have further extended the technology to provide physiological information enabling a wide and expanding

range of clinical applications The text covers the latest advancements in CT technology and clinical applications for a variety of CT types and imaging methods The content is presented in seven parts to offer a structure across a board coverage of CT CT Systems CT Performance CT Practice Spectral CT Quantitative CT Functional CT and Special Purpose CT Each contain chapters written by leading experts in the field covering CT hardware and software innovations CT operation CT performance characterization functional and quantitative applications and CT systems devised for specific anatomical applications This book is an ideal resource for practitioners of CT applications in medicine including physicians trainees engineers and scientists Engineering of Scintillation Materials and Radiation Technologies Mikhail Korzhik,Alexander

Gektin,2019-09-13 This proceedings book presents dual approaches to examining new theoretical models and their applicability in the search for new scintillation materials and ultimately the development of industrial technologies The ISMART conferences bring together the radiation detector community from fundamental research scientists to applied physics experts engineers and experts on the implementation of advanced solutions This scientific forum builds a bridge between the different parts of the community and is the basis for multidisciplinary cooperative research and development efforts The main goals of the conference series are to review the latest results in scintillator development from theory to applications and to arrive at a deeper understanding of fundamental processes as well as to discover components for the production of new generations of scintillation materials The book highlights recent findings and hypotheses key advances as well as exotic detector designs and solutions and includes papers on the microtheory of scintillation and the initial phase of luminescence development applications of the various materials as well as the development and characterization of ionizing radiation detection equipment It also touches on the increased demand for cryogenic scintillators the renaissance of garnet materials for scintillator applications nano structuring in scintillator development trends in and applications for security and exploration of hydrocarbons and ecological monitoring *The Phantoms of Medical and Health Physics* Larry A.

DeWerd,Michael Kissick,2013-11-25 The purpose and subject of this book is to provide a comprehensive overview of all types of phantoms used in medical imaging therapy nuclear medicine and health physics For ionizing radiation dosimetry with respect to issues of material composition shape and motion position effects are all highlighted For medical imaging each type of technology will need specific materials and designs and the physics and indications will be explored for each type Health physics phantoms are concerned with some of the same issues such as material heterogeneity but also unique issues such as organ specific radiation dose from sources distributed in other organs Readers will be able to use this book to select the appropriate phantom from a vendor at a clinic to learn from as a student to choose materials for custom phantom design to design dynamic features and as a reference for a variety of applications Some of the information enclosed is found in other sources divided especially along the three categories of imaging therapy and health physics To our knowledge even though professionally many medical physicists need to bridge the three catagories described above *Radiation Dose from Adult*

and Pediatric Multidetector Computed Tomography D. Tack, Pierre Alain Gevenois, 2007-12-31 Because of the radiation dose delivered multidetector row CT MDCT may induce cancers and the risk of death has been estimated at up to one per 1 000 examinations Despite this only a small proportion of referring clinicians radiologists and technologists are aware of both the radiation risks and their underlying mechanisms This book is designed to rectify this situation The first part of the book provides a comprehensive approach to all the factors that influence the radiation dose and subsequently the risk induced by using MDCT in children and adult patients In the second part guidelines are proposed for optimization of the radiation dose in order to obtain an image quality sufficient for appropriate diagnostic performance while restricting the dose delivered This book written by experts of international standing will appeal to both general and specialized radiologists including pediatric radiologists CT technologists physicists manufacturers and all professionals involved in MDCT

A Comprehensive Guide to Radiographic Sciences and Technology Euclid Seeram, 2021-04-06 A Comprehensive Guide to Radiographic Sciences and Technology is a concise review of radiographic physics and imaging perfect for students preparing for certification examinations such as the American Registry for Radiologic Technologists ARRT Aligned with the core radiographic science components of the current American Society of Radiologic Technologists ASRT curriculum this up to date resource covers topics including radiation production and characteristics imaging equipment digital image acquisition and display radiation protection basic principles of computed tomography and quality control The guide begins with an overview of the radiographic sciences and technology followed by detailed descriptions of the major components of digital radiographic imaging systems Subsequent sections discuss the essential aspects of diagnostic radiography and computed tomography including basic physics imaging modalities digital image processing quality control imaging informatics and basic concepts of radiobiology and radiation protection Throughout the book concise chapters summarise the critical knowledge required for effective and efficient imaging of the patient while emphasising the important yet commonly misunderstood relationship between radiation dose and image quality Written by an internationally recognised expert in the field this invaluable reference and guide Provides easy access to basic physics techniques equipment and safety guidelines for radiographic imaging Reflects the educational requirements of the American Society of Radiologic Technologists ASRT the Canadian Association of Medical Radiation Technologists CAMRT the College of Radiographers CoR and other radiography societies and associations worldwide Offers a range of pedagogical tools such as chapter outlines key term definitions bulleted lists practical examples and links to current references and additional resources Includes charts diagrams photographs and x ray images A Comprehensive Guide to Radiographic Sciences and Technology is required reading for students in programs using ionizing radiation those preparing for the ARRT and other global radiography certification exams and practising technologists wanting to refresh their knowledge

Basic Health Physics Joseph John Bevelacqua, 2010-04-26 Designed to prepare candidates for the American Board of Health Physics Comprehensive examination Part I and other certification

examinations this monograph introduces professionals in the field to radiation protection principles and their practical application in routine and emergency situations It features more than 650 worked examples illustrating concepts under discussion along with in depth coverage of sources of radiation standards and regulations biological effects of ionizing radiation instrumentation external and internal dosimetry counting statistics monitoring and interpretations operational health physics transportation and waste nuclear emergencies and more Reflecting for the first time the true scope of health physics at an introductory level Basic Health Physics Problems and Solutions gives readers the tools to properly evaluate challenging situations in all areas of radiation protection including the medical university power reactor fuel cycle research reactor environmental non ionizing radiation and accelerator health physics

Tracking Radiation Exposure from Medical Diagnostic Procedures Committee on Tracking Radiation Doses from Medical Diagnostic Procedures, Nuclear and Radiation Studies Board, Division on Earth and Life Studies, National Research Council, 2012-06-26 The growing use of medical diagnostic procedures is correlated with tremendous and undeniable benefits in the care of most patients However it is accompanied by growing concerns about the risks associated with diagnostic computed tomography and other procedures that utilize ionizing radiation A number of initiatives in radiation safety in medicine have taken place in the United States and internationally each serving different purposes Their ultimate goals are to provide higher quality clinical management of the patient and to ensure that reasonable steps are taken to keep the exposures as low as possible without compromising diagnostic efficacy Tracking Radiation Exposure from Medical Diagnostic Procedures Workshop Reports provides a summary of the presentations and discussions that took place during the December 8 9 2011 workshop titled Tracking Radiation Exposure from Medical Diagnostic Procedures This workshop was organized by the Nuclear and Radiation Studies Board of the National Academy of Sciences and sponsored by the Centers for Disease Control and Prevention the U S Food and Drug Administration and the U S Department of Health and Human Services This workshop report was authored by a six member committee of experts appointed by the National Academy of Sciences This committee brought together public health regulators physicians manufacturers researchers and patients to explore why what and how to track exposure from medical diagnostic procedures and possible next steps

Tracking Radiation Exposure from Medical Diagnostic Procedures National Research Council, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on Tracking Radiation Doses from Medical Diagnostic Procedures, 2012-06-12 The growing use of medical diagnostic procedures is correlated with tremendous and undeniable benefits in the care of most patients However it is accompanied by growing concerns about the risks associated with diagnostic computed tomography and other procedures that utilize ionizing radiation A number of initiatives in radiation safety in medicine have taken place in the United States and internationally each serving different purposes Their ultimate goals are to provide higher quality clinical management of the patient and to ensure that reasonable steps are taken to keep the exposures as low as possible without compromising diagnostic efficacy Tracking Radiation

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The Essential Physics of Medical Imaging Jerrold T. Bushberg, J. Anthony Seibert, Edwin M. Leidholdt, Jr., John M. Boone, 2020-11-04 Widely regarded as the cornerstone text in the field the successful series of editions continues to follow the tradition of a clear and comprehensive presentation of the physical principles and operational aspects of medical imaging The Essential Physics of Medical Imaging 4th Edition is a coherent and thorough compendium of the fundamental principles of the physics radiation protection and radiation biology that underlie the practice and profession of medical imaging Distinguished scientists and educators from the University of California Davis provide up to date readable information on the production characteristics and interactions of non ionizing and ionizing radiation magnetic fields and ultrasound used in medical imaging and the imaging modalities in which they are used including radiography mammography fluoroscopy computed tomography magnetic resonance ultrasound and nuclear medicine This vibrant full color text is enhanced by more than 1 000 images charts and graphs including hundreds of new illustrations This text is a must have resource for medical imaging professionals radiology residents who are preparing for Core Exams and teachers and students in medical physics and biomedical engineering

World Congress on Medical Physics and Biomedical Engineering 2018 Lenka Lhotska, Lucie Sukupova, Igor Lacković, Geoffrey S. Ibbott, 2018-05-29 This book vol 1 presents the proceedings of the IUPESM World Congress on Biomedical Engineering and Medical Physics a triennially organized joint meeting of medical physicists biomedical engineers and adjoining health care professionals Besides the purely scientific and technological topics the 2018 Congress will also focus on other aspects of professional involvement in health care such as education and training accreditation and certification health technology assessment and patient safety The IUPESM meeting is an important forum for medical physicists and biomedical engineers in medicine and healthcare learn and share knowledge and discuss the latest research outcomes and technological advancements as well as new ideas in both medical physics and biomedical engineering field div Chapter Evaluation of the Impact of an International Master of Advanced Studies in Medical Physics is available open access under a Creative Commons Attribution 3 0 IGO Licence via link [springer.com](https://www.springer.com)

Quality Management in the Imaging Sciences E-Book Jeffrey Papp, 2018-09-11 Make sure you have the most up to date quality management information available Quality Management in the Imaging Sciences 6th Edition gives you complete access to both quality management

and quality control information for all major imaging modalities This edition includes a new chapter on digital imaging and quality control procedures for electronic image monitors and PACS revisions to the mammography chapter updated legislative content and current ACR accreditation requirements It also features step by step QM procedures complete with full size evaluation forms and instructions on how to evaluate equipment and document results The only text of its kind on the market Papp s is a great tool to help you prepare for the ARRT Advanced Level Examination in Quality Management Special icon identifies federal standards throughout the text alert you to government regulations important to quality management Includes QM for all imaging sciences including fluoroscopy CT MRI sonography and mammography Strong pedagogy aids in comprehension and includes learning objectives chapter outline key terms with definitions in glossary student experiments and review questions at the end of each chapter Step by step QM procedures offer instructions on how to evaluate equipment and full sized sample evaluation forms offer practice in documenting results A practice exam on Evolve includes 200 randomizable practice exam questions for the ARRT advanced certification examination in QM and includes answers with rationales NEW Revised Mammography chapter corresponds with new digital mammographic systems that have received FDA approval NEW Updated material includes new technologies ACR accreditation and quality management tools and procedures which reflect current practice guidelines and information NEW Chapter on image quality features material common to all imaging modalities NEW Additional material covers dose levels dose reporting and workflow NEW Expanded material highlights digital imaging and quality control procedures for electronic image monitors and PACS NEW Updated art and colors break up difficult to retain content

An Introduction to Radiation Protection in Medicine Jamie V. Trapp,Tomas Kron,2008-03-13 Combining facets of health physics with medicine An Introduction to Radiation Protection in Medicine covers the background of the subject and the medical situations where radiation is the tool to diagnose or treat human disease Encouraging newcomers to the field to properly and efficiently function in a versatile and evolving work setting

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