

ACR CT Equipment QC

Hopkins CT and MRI Center
1632 Imaging Center Way, Lake, MN 55162
CT Room 1 - ID 11252014
February 2020

Generated: 8/4/2021
By: Beatrice DuPont

Date	WFO	AC	Mode	CT water (HU)	Noise (SD)	Artifacts	P/T	Initials
			Axial	(L=5.00 U=5.00)	(L=7.00 U=7.00)			
			Helical	(L=5.00 U=5.00)	(L=7.00 U=7.00)			
2/1/2020								
2/2/2020								
2/3/2020	P	P	Helical	5.19	3.12	Pass	✓	Br
2/4/2020	P	P	Axial	5.42	3.12	Pass	✓	Br
2/5/2020	P	P	Helical	5.28	3.49	Pass	✓	Br
2/6/2020	P	P	Axial	5.26	3.03	Pass	✓	Br
2/7/2020	P	P	Helical	5.46	3.89	Pass	✓	Br
2/8/2020								
2/9/2020								
2/10/2020	P	P	Axial	5.42	3.43	Pass	✓	Br
2/11/2020	P	P	Helical	5.17	3.06	Pass	✓	Br
2/12/2020	P	P	Axial	5.16	2.83	Pass	✓	Br
2/13/2020	P	P	Helical	5.40	2.83	Pass	✓	Br
2/14/2020	P	P	Axial	5.31	3.42	Pass	✓	Br
2/15/2020								
2/16/2020								
2/17/2020	P	P	Helical	5.00	3.16	Pass	✗	Br
2/18/2020			Axial				✗	Br
2/19/2020	P	P	Helical	5.96	3.53	Pass	✓	Br
2/20/2020	P	P	Axial	5.22	3.32	Pass	✓	Br
2/21/2020	P	P	Helical	5.84	3.21	Pass	✓	Br
2/22/2020								
2/23/2020								
2/24/2020	P	P	Axial	5.40	3.03	Pass	✓	Br
2/25/2020	P	P	Helical	5.17	2.56	Pass	✓	Br
2/26/2020	P	P	Axial	5.28	3.33	Pass	✓	Br
2/27/2020	P	P	Helical	5.23	2.93	Pass	✓	Br
2/28/2020	P	P	Axial	5.18	3.93	Pass	✓	Br
2/29/2020								

Monthly Visual Checklist		
Gantry	Table height indicator	Pass
	Table position indicator	Pass
	Angulation indicator	Pass
	Laser localization light	Pass
	High voltage cable (other cables)	Pass
CONTROL CONSOLE	Smoothness of table motion	Pass
	X-Ray on indicator	Pass
	Emergency switch	Pass
	Display window (with level)	Pass
	Panel switches (light meters)	Pass
OPERATOR	X-Ray on indicator	Pass
	Door interlocks	Pass
	Warning lights	Pass
	Interact system	Pass
	Plotting	Pass
	Service records	Pass
Monthly Display Monitor		
SCANNING MONITOR	50%-100% contrast is discernible	Pass
	50%-100% contrast is discernible	Pass
	Distinct gray level steps	Pass
	High contrast patterns visible	Pass
	High contrast patterns visible	Pass
	Low contrast patterns visible	Pass
	No artifacts	Pass
	Window (L=100, U=120)	100
	Level (L=240, U=240)	120
	Date	02/24/2020
	Br	
Monthly Large Artifact Check		
If available, scan manufacturer's large phantom		
Artifacts		Pass
Date		02/24/2020
Initials		Br

Date of Test	Technologist	QC Test	Comments
02/17/2020	Winthrop, Brooke	Water Phantom - Helical	Feb 19 2020 9:55AM by Winthrop, Brooke Test failure was resolved automatically due to subsequent successful completion of Water Phantom - Helical test dated 02/19/2020 by Winthrop, Brooke. Feb 21 2020 9:55AM by Winthrop, Brooke (Resolution Remark) service called Feb 21 2020 9:55AM by Winthrop, Brooke (Resolution Remark) parts ordered
02/18/2020	Winthrop, Brooke	Water Phantom - Axial	Feb 21 2020 10:03AM by Winthrop, Brooke (Worksheet Skipped) Test not needed - Closed for Service/Preventive Maintenance
02/19/2020	Winthrop, Brooke	Water Phantom - Helical	Feb 21 2020 10:01AM by Winthrop, Brooke (Worksheet) service replaced parts, re-ran test

Ct Qc Manual

John D. Newell



Ct Qc Manual:

Rad Tech's Guide to Photon Counting Computed Tomography Euclid Seeram, 2025-09-10 Concise guide offering a thorough exploration of the transformative technology of photon counting Rad Tech's Guide to Photon Counting Computed Tomography is a comprehensive resource that enables readers to stay at the forefront of medical imaging with the first FDA cleared Photon Counting Computed Tomography PCCT scanner Ensuring compliance and cutting edge practice readers can prepare for the future with a guide that addresses upcoming educational requirements in medical imaging technology This book is designed for quick reference with precise bulleted guidance and material that aligns with international standards Rad Tech's Guide to Photon Counting Computed Tomography includes information on Essential physics of radiation attenuation in CT and the physical principles of MSCT imaging with a review of CT image quality Fundamental physical principles of PCCT including the technical design characteristics of their semiconductor sensors and associated electronics Advantages of PCCT systems compared to CT systems using EIDs with each advantage illustrated with selected anatomical areas Elements of the ACR manual for quality control of CT systems and quality assurance programs for a PCD CT imaging system Suitable for an international audience Rad Tech's Guide to Photon Counting Computed Tomography is an excellent reference for professionals and practitioners in the fields of computed tomography nuclear medicine diagnostic medical sonography magnetic resonance imaging and biomedical engineering technology

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

Computed Tomography Euclid Seeram, 2022-07-11 COMPUTED TOMOGRAPHY PHYSICS AND TECHNOLOGY In the newly updated second edition of Computed Tomography Physics and Technology A Self Assessment Guide distinguished computed tomography CT educator Euclid Seeram delivers a completely revised and expanded collection of multiple choice questions covering all relevant technological advances including the use of artificial intelligence in the field of CT In the book readers will find a focused emphasis on physics and technology an area where students of this discipline have traditionally struggled The questions are presented in a format similar to those found on the certification examinations of the American Registry of Radiologic Technologists ARRT the Canadian Association of Medical Radiation Technologists CAMRT and other professional medical imaging organizations around the world The author has also included true false questions short answer questions and relevant learning outcomes to aid students in their study of the subject Readers will also find brief notes on An introduction to computed tomography including an overview of the field and a historical perspective Digital image processing and the physics of computed tomography Data acquisition principles and technology and image reconstruction fundamentals Deep learning image reconstruction the major equipment components of a computed tomography scanner and image post processing and visualization Multislice CT Principles and Technology Image quality considerations CT Dosimetry and dose optimization strategies Quality control Perfect for radiological technology and diagnostic radiography students and practitioners Computed Tomography Physics and Technology A Self Assessment Guide will also earn a place in the libraries of biomedical engineering students and radiology residents in training Handbook of X-ray Imaging Paolo Russo, 2017-12-14 Containing chapter contributions from over 130 experts this unique publication is the first handbook dedicated to the physics and technology of X ray imaging offering extensive coverage of the field This highly comprehensive work is edited by one of the world s leading experts in X ray imaging physics and technology and has been created with guidance from a Scientific Board containing respected and renowned scientists from around the world The book s scope includes 2D and 3D X ray imaging techniques from soft X ray to megavoltage energies including computed tomography fluoroscopy dental imaging and small animal imaging with several chapters dedicated to breast imaging techniques 2D and 3D industrial imaging is incorporated including imaging of artworks Specific attention is dedicated to techniques of phase contrast X ray imaging The approach undertaken is one that illustrates the theory as well as the techniques and the devices routinely used in the various fields Computational aspects are fully covered including 3D reconstruction algorithms hard software phantoms and computer aided diagnosis Theories of image quality are fully illustrated Historical radioprotection

radiation dosimetry quality assurance and educational aspects are also covered This handbook will be suitable for a very broad audience including graduate students in medical physics and biomedical engineering medical physics residents radiographers physicists and engineers in the field of imaging and non destructive industrial testing using X rays and scientists interested in understanding and using X ray imaging techniques The handbook s editor Dr Paolo Russo has over 30 years experience in the academic teaching of medical physics and X ray imaging research He has authored several book chapters in the field of X ray imaging is Editor in Chief of an international scientific journal in medical physics and has responsibilities in the publication committees of international scientific organizations in medical physics Features Comprehensive coverage of the use of X rays both in medical radiology and industrial testing The first handbook published to be dedicated to the physics and technology of X rays Handbook edited by world authority with contributions from experts in each field

CT of the Heart U. Joseph Schoepf, 2019-04-01 This book is a comprehensive and richly illustrated guide to cardiac CT its current state applications and future directions While the first edition of this text focused on what was then a novel instrument looking for application this edition comes at a time where a wealth of guideline driven robust and beneficial clinical applications have evolved that are enabled by an enormous and ever growing field of technology Accordingly the focus of the text has shifted from a technology centric to a more patient centric appraisal While the specifications and capabilities of the CT system itself remain front and center as the basis for diagnostic success much of the benefit derived from cardiac CT today comes from avant garde technologies enabling enhanced visualization quantitative imaging and functional assessment along with exciting deep learning and artificial intelligence applications Cardiac CT is no longer a mere tool for non invasive coronary artery stenosis detection in the chest pain diagnostic algorithms cardiac CT has proven its value for uses as diverse as personalized cardiovascular risk stratification prediction and management diagnosing lesion specific ischemia guiding minimally invasive structural heart disease therapy and planning cardiovascular surgery among many others This second edition is an authoritative guide and reference for both novices and experts in the medical imaging sciences who have an interest in cardiac CT

X-Ray Imaging Systems for Biomedical Engineering Technology Euclid Seeram, 2023-11-27 This book addresses X Ray Imaging Systems intended for biomedical engineering technology students and practitioners and deals with the major technical components of x ray imaging modalities These modalities include film based imaging digital radiography and computed tomography Furthermore principles and concepts essential to the understanding of how these modalities function will be described These include fundamental radiation physics imaging informatics quality control and radiation protection considerations X Ray Imaging Systems for Biomedical Engineering Technology An Essential Guide is intended for biomedical engineering technologists who provide technical advice and services relating to digital radiography and CT departments not only in hospitals but in private facilities as well Students in radiological technology programs may also find this to be a useful resource

3D Printing in Medicine Frank J.

Rybicki, Gerald T. Grant, 2017-09-27 This book describes the fundamentals of three dimensional 3D printing addresses the practical aspects of establishing a 3D printing service in a medical facility and explains the enormous potential value of rendering images as 3D printed models capable of providing tactile feedback and tangible information on both anatomic and pathologic states Individual chapters also focus on selected areas of applications for 3D printing including musculoskeletal craniomaxillofacial cardiovascular and neurosurgery applications Challenges and opportunities related to training materials and equipment and guidelines are addressed and the overall costs of a 3D printing lab and the balancing of these costs against clinical benefits are discussed Radiologists surgeons and other physicians will find this book to be a rich source of information on the practicalities and expanding medical applications of 3D printing **Clinical Imaging Physics** Ehsan Samei, Douglas E. Pfeiffer, 2020-04-20 Clinical Medical Imaging Physics Current and Emerging Practice is the first text of its kind a comprehensive reference work covering all imaging modalities in use in clinical medicine today Destined to become a classic in the field this book provides state of practice descriptions for each imaging modality followed by special sections on new and emerging applications technologies and practices Authored by luminaries in the field of medical physics this resource is a sophisticated one volume handbook to a fast advancing field that is becoming ever more central to contemporary clinical medicine Summarizes the current state of clinical medical imaging physics in one volume with a focus on emerging technologies and applications Provides comprehensive coverage of all key clinical imaging modalities taking into account the new realities in healthcare practice Features a strong focus on clinical application of principles and technology now and in the future Contains authoritative text compiled by world renowned editors and contributors responsible for guiding the development of the field Practicing radiologists and medical physicists will appreciate Clinical Medical Imaging Physics as a peerless everyday reference work Additionally graduate students and residents in medical physics and radiology will find this book essential as they study for their board exams *Developing the Digital Lung, E-Book* John D. Newell, 2022-09-13 Reflecting recent major advances in the field of artificial intelligence Developing the Digital Lung From First Lung CT to Clinical AI by Dr John Newell is your go to reference for all aspects of applied artificial intelligence in lung disease development including application to clinical medicine It provides a unique overview of the field beginning with a review of the origins of artificial intelligence in the mid 1970s and progressing to its application to clinical medicine in the early 2020s Organized based on the four stages of development this practical easy to use resource helps you effectively apply artificial intelligences to lung imaging Traces the development of precise quantitative CT of diffuse lung disease through the use of applied AI leading to faster effective diagnosis of patients with lung disease Reviews CT manufacturers models and scanning protocol used to produce the 3D digital maps of the lungs Discusses how the data processed by AI algorithms can produce measures of emphysema air trapping and airway wall thickening in subjects with COPD and measures of pulmonary fibrosis and traction bronchiectasis in idiopathic pulmonary fibrosis IPF Demonstrates the

differences between reactive machine AI and limited memory AI methods Includes comprehensive case studies and current information on cloud computing Quality Control Training Manual Syed Imtiaz Haider, Syed Erfan Asif, 2016-04-19 Written to help companies comply with GMP GLP and validation requirements imposed by the FDA and regulatory bodies worldwide Quality Control Training Manual Comprehensive Training Guide for API Finished Pharmaceutical and Biotechnologies Laboratories presents cost effective training courses that cover how to apply advances in the life sciences to produce commercially viable biotech products and services in terms of quality safety and efficacy This book and its accompanying downloadable resources comprise detailed text summaries test papers and answers to test papers providing an administrative solution for management Provides the FDA Health Canada WHO and EMEA guidelines directly applicable to pharmaceutical laboratory related issues Offers generic formats and styles that can be customized to any organization and help management build quality into routine operations to comply with regulatory requirements Contains ready to use training courses that supply a good source of training material for experienced and inexperienced practitioners in the biotechnology biopharmaceutical industries Includes downloadable resources with downloadable training courses that can be adopted and directly customized to a particular organization Supplies ready to use test papers that allow end users to record all raw data up to the issuance of the attached certificate The biotechnology bioscience industries are regulated worldwide to be in compliance with cGMP and GLP principles with particular focus on safety issues Each company must create a definite training matrix of its employees The training procedures in this book enable end users to understand the principles and elements of manufacturing techniques and provide documentation language ranging from the generic to the specific The training courses on the downloadable resources supply valuable tools for developing training matrices to achieve FDA Health Canada EMEA MHRA UK WHO and GLP compliance

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