

# Ct Scan Ge Light Speed Service Manual

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## [PDF] Ct Scan Ge Light Speed Service Manual

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### Ct Scan Ge Light Speed

#### **LightSpeed™ VCT - Spectrum Medical X-Ray Company**

GE Healthcare LightSpeed™ VCT Technical Reference Manual 5340596-1EN Revision 5 GE Medical Systems does business as GE Healthcare LightSpeed VCT Technical Reference Manual, English

#### **RIH - THREE PHASE LIVER CT GE LIGHTSPEED 16 / OPTIMA ...**

RIH - THREE PHASE LIVER CT GE LIGHTSPEED 16 / OPTIMA CT580 PROTOCOL Indications: HCC, cirrhosis, hyper vascular lesions/metastases updated Jan 23, 2017 Position/Landmark Head first or feet first-Supine Xyphoid Topogram Direction Craniocaudal Respiratory Phase Inspiration Scan Type Helical KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation)

#### **RIH - LOWER EXTREMITY RUNOFF CTA GE LIGHTSPEED 16 / ...**

RIH - LOWER EXTREMITY RUNOFF CTA GE LIGHTSPEED 16 / OPTIMA CT580 PROTOCOL Indications: peripheral artery disease, claudication updated Jan 23, 2017 Position/Landmark Head first or feet first-Supine Xyphoid Topogram Direction Craniocaudal Respiratory Phase Suspension Scan Type Helical KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation)

#### **Cardiac CT using GE Healthcare CT systems**

Cardiac CT using GE Healthcare CT systems 2011 Department of Radiology & Cardiology Lightspeed VCT - GE Healthcare 2 dedicated AW workstations Discovery CT750HD 023 mm spatial resolution - better contrast resolution -spectral imaging • heart rate during CT ...

#### **GE LightSpeed 16 Technical Specifications (Tech Specs)**

GE LightSpeed 16 Technical Specifications (Tech Specs) • 16-slice CT detector • Tube heat capacity: 63 MHU • Fastest rotation: 05 seconds • Maximum scan technique: 440 mA at 120 kV • Nominal slice thickness (mm) • Helical tilt • Interface: 2-screen, mouse driven GE LightSpeed 16

Technology • microVoxel • Advanced 3D

### **CT Protocols for Revolution Frontier™ / Revolution ...**

Protocols for the Revolution 256 CT platform and the LightSpeed 16 will be delivered to GE by the end of the first quarter of 2019 New Protocols Added The Revolution 256 CT and LightSpeed 16 scanners will have the same UW protocol set as currently offered on other scanners, with an additional GSA protocol for PE for the Revolution CT scanner

### **Daily, Weekly, & Monthly QA Testing on CT Scanners**

Daily, Weekly, & Monthly QA Testing on CT Scanners Scanning & Analysis of Phantom Scans Procedure for Daily QA: Go to the image at scan location S80 in the Series 1, Helical scans You should call GE and not use the scanner until the issue is

### **Education Services Computed Tomography - GE Healthcare**

equip the participant with the theory and physics of Computed Tomography and the ability to safely operate and identify several GE CT systems at a basic service level Note: Completion of this course or the Challenge Exam is required to attend a Full Service CT course The systems taught in the course include: LightSpeed TM 4/8/16,

### **GE Healthcare TiP Training in Partnership SmartPrep QuickSteps**

GE Healthcare TiP Training in Partnership SmartPrep QuickSteps Note: If all forty monitoring scans have been utilized it is necessary to use the [Move to Scan] and [Start Scan] buttons on the keyboard to place the table in position and initiate the scan prescription Note:

### **CT SCAN PROTOCOLS Revised August, 2007 UCSD MEDICAL ...**

CT SCAN PROTOCOLS Revised August, 2007 UCSD MEDICAL CENTER GE Lightspeed EXAM INDICATION PLAIN CONTRAST PLANE \*ANGLE kVp mA SEC MATRIX FOV SLTHK/INT ALGOR/FILTER Brain #1 Trauma, Screen for altered mental status, dementia, psychiatric disorder, headaches, hydrocephalus Yes No Axial o 15 120 300 1 512 S-Head D-22

### **Shielding for Multislice CT Scanners Site Planning for CT**

Shielding for Multislice CT Scanners Donna M Stevens, MS Imaging Physics Department CT Control CT Scan MECHANICAL Neighboring spaces 2 N N 1 2 ' 2 ' Scanner Location MDACC Imaging Physics 9 • GE LightSpeed 16 • Ignores overscan at ends! - Effect Worsens with wider beams (64-slice)

### **DOC1200461 R3 CS - GE Healthcare**

GE HEALTHCARE DIRECTION DOC1200461, REV 3 LIGHTSPEED VCT 72 AND LIGHTSPEED VCT SELECT WITH 64 CHANNEL UPGRADE DICOM CONFORMANCE STATEMENT 6 of 185 CONFORMANCE STATEMENT OVERVIEW This DICOM Conformance Statement captures the DICOM capabilities of the GEHC CT scanners identified below

### **Dose Reduction and Compliance with Pediatric CT Protocols ...**

an eight-section (LightSpeed Ultra; GE Healthcare), 16-section (LightSpeed 16; GE Healthcare), or 64-section (Light-Speed VCT; GE Healthcare) multidetector CT scanner Color zones—For each phase, the new CT protocols were divided into six color zones based on clinical indication and presence of ...

### **Original Article Diagnostic value of ultrasound compared ...**

CT was performed on a 16 slice spiral CT scanner (Light Speed, GE Healthcare, Cambridge, UK) at 120-KV tube voltage and 350-mA tube current Plain CT scan was performed in the whole abdomen or lower abdomen with 5-mm layer thickness and 5-mm layer distance After scanning, multi planar reconstruction (MPR)

**X. Q UALITY CONTROL PERFORMANCE TESTING MANUAL OF ...**

X63 Acquire one axial scan at the center of the phantom, with no table increment, using your low dose helical CT GE Ultra multi-slice scanner, 120 kVp, 80 mA, 05 sec scan, and 125 x 8 mm slice thickness (European Guidelines on Quality Criteria for Computed Tomography...

**Scanner and kVp dependence of measured CT numbers in the ...**

this scan protocol, air and solid water values are significantly higher on GE scan-ners than on Siemens scanners (p-value < 001 at each kVp) The CT numbers of polyethylene and acrylic increase with kVp, while the bone-equivalent CT number decreases These results are used to define manufacturer- and kVp-specific toler-

**NLST Technique Comparison Chart: THESE TECHNIQUES ARE ...**

ACRIN-NLST CT Technique Chart Definitions used with Permission of the AMERICAN COLLEGE OF RADIOLOGY GE QXi 4-slice/08 sec GE LS Plus 4-slice/ 05 sec GE Ultra 8-slice/05 sec GE - LS 16 or the table increment per rotation of the x-ray tube in a helical scan

**Implementation of (Low Dose) CT Protocols**

Significance of CT Scan Protocol • CT equipment output/calibration routinely evaluated (regulations and/or physics practice) • However scanners themselves are typically very stable and CT console reported dose metrics generally quite accurate (Mathieu K, et al 2010) • It is the technical factors that are specified in scan protocols that