AURORA, CO

PO# 554-B30024

CT Scanner Minimum Specifications

The Eastern Colorado Health Care System is purchasing a High End CT Scan Unit for our replacement medical center. This equipment will allow us to provide superior image quality which is very important in the assessment of abnormalities. This multi-slice scanner is an excellent diagnostic tool that will assist providers in the diagnosis of neuro and body image abnormalities. In particular this equipment will be used to assess vascular, neurologic, peripheral and cardiac anomalies in a non-surgical setting. This unit is widely considered a valuable and basic diagnostic tool at all medical facilities.

Technical Requirements

- 360 degree rotation < 400 ms
- Minimum number of samples per rotation (images, slices) ≥ 256
- Display CTDIvol (dose) before scan
- Display CTDI (dose) after exposure
- Advance Dose Regulation
- Metal artifact reduction technology
- Variable Helical Pitch
- Detector width ≤ .625
- Automated Ma regulation
- Retrospective Gated ECG Scan
- ECG Triggered scanning
- ECG Monitor
- Contrast timed injections (bolus chase)
- Automatic Contrast Injector with controls at console and in room
- ≥ 50cm Full Field Scan
- Patient weight capacity ≥ 450 lbs. (Bariatric)
- Reconstruction of images ≥ 24 per second
- HL7 integration (HIS/RIS)
- DICOM and IHE- Q/R, MWM, Storage commit SCU, MPPS
- Power conditioning as recommended by CT Scanner provider
- UPS to maintain total system functionality to allow for adequate time to complete current procedure
- Power conditioning as recommended by the vendor
- VPN connected remote service and applications support

Advanced Applications

- CT Fluoroscopy
- CT Perfusion
- CT Cardiac
- CT Colonoscopy
- CT Lung Nodule
- CTA
- Low Dose Chest
- 3D Reconstruction
- Integration to 3rd party advanced visualization system

Training

- On-site or off-site clinical applications training for physician (2 physicians – tuition and travel)
- Off-Site pre-installation clinical education for technologists (7 technologists – tuition and travel)
- On-site clinical education for technologists training for go live (7 technologists)
- Follow up on-site clinical education training (80 hours)
- Full Biomed System training CT Image Review Server (1 engineers – tuition and travel)

Support and other Documentation to Provide

- Provide DICOM Conformance Statement
- Provide Completed Pre-Procurement Assessment form (6550) and MDS2 Document
- VPN connected remote service and applications support

Desired Options

- Complete advanced visualization package (thin-client)
- Patient comfort focused scanning environment