

## **Nuclear Medicine Capital Equipment Specifications**

### **SPECT/CT Camera – Pittsburgh VAMC – 646-B22020**

#### **Capital Equipment**

- Capital Equipment - SPECT/CT
- (Dual Detector with Variable Angle, Cephalic & Caudal Tilt, Large Field of View: minimum UFOV 50cm x 38cm, Table Weight Limit > 400lbs; Energy Range Minimum 60-550keV; Persistence Scope; CTAC Timing Resolution equal to or less than 0.5 Sec, multiple kVp, mA Max equal to or greater than 300 with dose modulation [note: typical minimum site requirement 27' x 12'; 8k-12k lbs structural support load]) , must fit in 20'3" x 19'7" room preferably in non-diagonal orientation
- Hi Resolution Detector – 3/8" Crystal
- High Performance Dual Head Configuration
- NM Scanner License(s)
- LEHR – Low Energy Collimators (x2)
- Collimator Cart(s) – enough for all collimator sets
- Internal ECG/Cardiac Gate
- External ECG Connectivity/Input
- ECG Monitor/Stand
- Flood Source/Holder
- Four Quadrant Bar Phantom
- Point Source/COR Source/Holder
- Low Contrast CT Phantom/Holder
- Under Floor/Above Ground Cable(s)
- Main Disconnect Panel
- Acquisition/Control Room Console Configuration and Furniture
- RIS/HIS Interface
- Head Holder
- Patient Arm Support
- Patient Leg Rest
- Patient Pallet Extender
- Patient Bed Multi-angle Pivot
- All Applicable Operator's Manuals x 2
- Install/Project Management
- UPS to maintain total system functionality for 10 minutes without facility power

#### **Workstations**

- Acquisition/Console Hardware
- 19" LCD Monitor
- Keyboard
- Workstation UPS
- Supplemental In-room SPECT Acquisition Control

#### **Software**

- Acquisition Software
- DICOM 3.0 Compatible Worklist
- Multivendor export

- SPECT/CT Processing
- Nuclear Medicine Diagnostic Applications
- SPECT/CT Fusion Applications
- Software Licenses

#### **Advanced Applications**

- Whole Body SPECT Capability
- Advanced Nuclear Cardiology SPECT/CT
- SPECT/CT MPI Registration/QC Package (ex: Cedars QGS/QPS, 4DM)
- Advanced Nuclear Oncology
- Advanced Nuclear Neurology
- Advanced Iterative Reconstruction/Processing for Nuclear Medicine/Nuclear Cardiology
- Advanced Resolution Recovery
- ½ time/dose Planar
- ½ time/dose SPECT
- Multi-frame Secondary Capture
- Processing Placeholder
- Remote Diagnostic Services
- Applications Support
- 3D/CTA Fusion Overlay
- Cardiac morphing & EKG synchronization

#### **Training**

- Initial Onsite Applications Training (x1 week)
- Follow-up Onsite Applications Training (x2 weeks)
- Onsite Advanced Applications Training (x 1 week)
- Offsite Training for two technologists (clinical training)
- Offsite Training Travel Package (Lodging/Meals/Transportation)
- Biomed Basic Training
- Biomed SPECT/CT Training
- Biomed – Console Training
- Biomed – Workstation Training
- Web Based Training
- Biomed Training Travel Package (Lodging/Meals/Transportation)

#### **Options**

- Auto QC
- Advanced Nuclear Cardiology Configuration/Hardware/Processing
- Oncology/Treatment Planning Positioning/Pallet
- Advanced Neurology Applications
- CTAC Coronary Calcium Scoring
- Iterative Reconstruction for CTAC
- Radiation Dose Tracking
- 1 year extended applications support
- 6 month extended warranty