AURORA, CO

PO# 554-B30020

Interventional (IR) Lab Minimum Specifications
(Bi-Plane System)

The Eastern Colorado Health Care System is purchasing an IR System for our replacement medical center. This equipment will allow us to provide superior image quality which is very important in the assessment of small abnormalities. This equipment will also allow us to perform very intricate percutaneous interventional procedures. This equipment will also allow us to better visualize subtle lesions and vascular diseases.

Technical Requirements

1. System
   a. Bi-Plane
   b. Ability to offer either floor and/or ceiling mounted systems
   c. Ability to move system out of the way and park away from the table
   d. High-capacity x-ray tube
      80 kW Generator minimum
   e. Frontal and Lateral Flat Panel Detectors (≥ 30cm x 30m)
   f. 1 Large display monitor (56 inch or greater) with ability to display at least six (6) simultaneous input sources
   g. Backup monitors (at least 2 each)
   h. Rotational acquisition
   i. Ceiling mounted radiation shield
   j. Staff Dose display system
   k. Digital magnification
2. Table
   a. 450 lb weight limit (minimum)
   b. Ability to tilt cranial and caudal
   c. Multiple options for controls (e.g. foot, at tableside, etc.)
   d. Dual tableside controls (control on each side of the table)
   e. Integrated ultrasound capability
   f. Remote control capabilities (e.g. exposure and monitors)
   g. Table must include arm rests for supine and prone procedures, including a head rest
   h. Mattress pad
   i. Table side floor mats that are specifically antimicrobial
   j. Integrated diagnostic ultrasound
3. Hardware/Software
   a. Operators console with expanded memory
   b. Workstation UPS for operators console
   c. Integrated System Shielding
      Soft and hard shutter shielding
      Filters necessary for radiation safety efficacy
   d. HL7 and necessary licenses for integration ancillary equipment
   e. Dose reduction features including fluoro save, pulse fluoro
   f. Software:
      Digital Subtraction Angiography
      Stenosis Measurement
      Vessel Analysis/Mapping
      Peripheral Angiography
   g. UPS to maintain total system functionality to allow for adequate time to complete current procedure

h. Power conditioner as recommended by vendor

4. Interface Specifications
    a. Must be on the Vista Imaging Approved DICOM Modality Interface List
    b. Ability to interface with PACS
    c. 3rd party post processing workstation integration
    d. H7 integration/HIS/RIS (Worklist)
    e. Ability to interface with 3rd party integration system

5. Advanced Applications
    a. Latest needle tracking, cryoablation software, and multi-modality software included
    b. The ability to fuse images from CT, MRI, ultrasound, and Nuclear Medicine (PET)
    c. Software to aide with positioning of a needle using an ultrasound device
    d. Cone Beam/3D image capable/CT-IR Imaging/Cross-beam for needle localization
    e. Post processing workstation
    f. Ability to integrate multiple modalities into the software/workstation of the IR unit
    g. IVUS integration
    h. Ability to do rotational imaging
    i. Neuroradiological Software

6. Training
    a. Off site – Basic Clinical Training for six technologists on main system to include tuition and travel
    b. On site or off site – Clinical Training for two physicians (tuition and travel included)
    c. On site Clinical Applications Training for startup (minimum 24 hours)
    d. Follow up applications training to be performed after technologists have hands-on experience with the system
    e. Off-site training for two Biomedical Engineering staff to include tuition and travel

7. Support and other Documentation to Provide
    a. Provide DICOM Conformance Statement
    b. Provide Completed Pre-Procurement Assessment form (6550) and MDS2 Document
    c. VPN connected remote service and applications support

8. Desired Options
    a. Complete advanced visualization package (thin-client)
    b. Patient comfort focused scanning environment