AURORA, CO

PO# 554-B30033

Hybrid OR Specifications
(Single Plane System)

The Eastern Colorado Health Care System is purchasing a Hybrid Operating Room for our replacement medical center. This equipment is used in the diagnosis and treatment of a variety of procedures, outlined below in Appendix A. This equipment is designed to be flexible and move out of the way to accommodate the multitude of procedures to be performed.

Floor- or Ceiling-mounted Single plane C-Arm

- Must have the ability to be physically moved out of the way to accommodate all procedures
- Large Field of view FD for vascular studies
- DSA and Roadmapping applications
- Low frame rate capability
- Low dose
- Flat Panel Detector to accommodate large fields (19 inch) with magnification of at least 6 inch to 19 inch
- Integrated IVUS/FFR/OCT
- Radiation shield (ceiling)
- Radiation shield (rolling, for use at head of bed by anesthesiology)
- Automated contrast injector with “sync” function for x-ray acquisition and contrast administration
- Run-off capability
- Cardiac Imaging (to include coronary angiography)
- Vascular Imaging
- Rotational acquisition
- Ability to capture and print still images (include printer)
- Appropriate overhead lighting system

Table

- Total system integration between Table and C-Arm
- Table weight ≥450 pounds
- Ability to tilt along all axes (cranial and caudal, isocentric rotation, etc
- Floating table top
- Normal OR table positioning (trendelenburg, reverse trendelenburg, etc.)
- Moveable/Removable retractor rails
- Hemodynamic monitoring system (compatible with system currently installed)

Displays

- Minimum 56”, 8 MP monitor with tableside control and ability to display at least 6 input sources simultaneously
- Minimum 56” backup slave monitor with tableside control
- Compatibility with third party video integration

Additional Equipment

- UPS to maintain total system functionality to allow for adequate time to close current case
- Power conditioner as recommended by vendor

- HL7 and necessary licenses for integration of ancillary equipment

Staff Safety

- Staff dose display system
- Dose reduction features

Interface Specifications

- Must be on the VistA Imaging Approved DICOM Modality Interface List
- 3rd Party post processing workstation integration capability
- HL7 Integration/HIS/RIS (Worklist)
- Integration with Radiology and Cardiology PACS
- Ability to interface with 3rd party integration company
- Integration with CART

Advanced Applications

- The ability to fuse images from CT, MRI, , 2D/3D ultrasound, IVUS, ICE, and TEE
- Cone Beam/3D imaging capable/CT-IR Imaging/Cross-beam for needle localization
- Ability to integrate multiple modalities into the software/workstation of the Hybrid OR unit
- IVUS/OCT/FFR Integration
- Digital Subtracted Angiography
- Stenosis measurements
- Vessel analysis/mapping
- Peripheral angiography post processing software
- Coronary Angiography post processing software
- 3D reconstruction with overlay/registration to live fluoro imaging
- 3D Echo (TEE, ICE) with X-ray echo integration/registration for structural heart procedures
- CT fusion to identify anatomic landmarks (pre and intra procedurally) and reduce contrast media injected

Training

- On-site or off-site applications training for physicians (12 physicians – tuition and travel)
- On-site or off-site pre-installation clinical education for technologists (8 technologists – tuition and travel)
- On-site clinical education for technologists training for activation (8 technologists)
- Follow up on-site clinical education and applications training (10 complete cases)
- Full Biomed Systems training (1 engineer – tuition and travel)

Support and other Documentation to Provide

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

Desired Options

- Remote control capabilities
- Integrated System Shielding
- VPN/Remote access for service

Appendix A: Hybrid OR Procedures

1. EVAR
2. Complicated EVAR
3. Complex EVAR
4. Aortoiliac and infra-inguinal hybrid procedures
5. Secondary aortic aneurysm maintenance procedures
6. Retrograde carotid stent placement
7. TEVAR
8. Emergency vascular procedures
9. Aortoiliac interventions
10. Infra-inguinal interventions
11. Visceral artery and renal artery interventions
12. Embolizations
13. Carotid stenting
14. Dialysis access maintenance procedures, including hybrid procedures
15. Translumbar aortic embolization for endoleaks
16. TAVR
17. Aortic dissection
18. Minimally invasive mitral/aortic
19. Completion angio and CABG
20. Laser lead extract
21. Branched TAAA
22. Arch replacement
23. Thoracic aortic angio/IVUS