

## **PET/CT Specifications**

### **Technical Requirements**

1. Time of Flight PET system with list mode acquisition
2. Minimum transaxial and axial resolutions:  $\leq 5$  mm FWHM
3. 4D (respiratory gating) for PET and CT
4. ECG cardiac gating for PET and CT
5. Minimum 40 slice CT configuration
6. Cardiac CTA software
7. OSEM reconstruction with PSF modeling
8. CT iterative reconstruction dose reduction software
9. Gantry opening diameter  $\geq$  to 70cm
10. Patient table limit  $> 400$  lbs.
11. UPS to maintain total system functionality for 10 minutes without facility power
12. CT injector interface
13. Radiation Therapy Planning flat pallet
14. Patient comfort table pads
15. Respiratory gating for PET & CT
16. Structured DICOM dose reporting features
17. Thin client workstation/server setup
18. If Windows is loaded on a workstation, it must be Windows 7 or latest version

### **Software Application Options**

1. Tumor Tracking with auto tumor segmentation
2. Quantitative software
3. Cardiac quantitative software
4. Neuro quantitative software
5. Oncology quantitative software
6. Quality control and performance tracking for PET and CT
7. Metal artifact reduction

### **Optional Items**

1. Uptake room or exam room anxiety reducing technology
2. CT simulation lasers (3 movable)
3. Extended warranty of 6 months
4. Partnership with Biomed for first call service
5. VPN Capability
6. Single source dual energy
7. Continuous bed motion
8. Raw data access and transfer
9. Customized reconstruction

### **Training**

1. Training does not have an expiration date for scheduling or completion.

2. On-site or off-site applications training for physicians (2 physicians – tuition, lodging, and travel)
3. Pre-installation clinical education for technologists (2 technologists – tuition, lodging, and travel)
4. On-site clinical education for technologists training for activation (4 technologists)
5. Follow up on-site clinical education and applications training (72 hours)
6. Full Biomed Systems training PET/CT image review server (2 engineers – tuition, lodging, and travel)

**Optional Training Items**

1. All prerequisite courses are including in the training costs.
2. Training for 1 medical physicist (tuition, lodging, 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
4. Documentation of file formats
5. Two complete sets of operators and maintenance manuals
  - 5.1. One set of each must be electronic.

**Trade-In**

1. Siemens E.CAM