### NUCLEAR MEDICINE AND MOLECULAR IMAGING FACILITIES, EUH

Nuclear Medicine and Molecular Imaging is located on the first floor of Emory University Hospital and houses advanced imaging equipment for SPECT, SPECT/CT and PET/CT imaging. The nuclear medicine area includes radiopharmacy and chemistry laboratories, patient preparation rooms, and four scan rooms. The PET/CT suite, includes three patient preparation rooms, and a 430 square foot scan room with limited laboratory bench space.

**Imaging systems include:**

*4 dual-detector SPECT cameras equipped with Low Energy High Resolution, Medium Energy and High Energy collimation:*

1. Siemens Intevo T16 (SPECT / 16 slice CT, 2015) (also has ultra high resolution collimation)

2. Siemens Symbia T6 (SPECT / 6 slice CT, 2009) (also has ultra high resolution collimation)

3. GE Infinia (2005, also has pinhole collimation for high-resolution planar imaging)

4. GE Millennium MG (2004, low energy high resolution collimation only)

*1 small field of view planar camera:*

Digirad 2020tc digital gamma camera for mobile and small field of view imaging (2006, also has pinhole collimation for high-resolution planar imaging)

*1 PET/CT System*

GE Discovery 690 (2011, 16 slice CT) with time-of-flight and respiratory gating capability. The PET/CT suite, includes three patient preparation rooms, and a 430 square foot scan room with limited laboratory bench space.

**Image processing workstations include:**

1. GE Xeleris 4.0 Workstations (5 systems) – used for processing studies acquired on GE and Philips cameras.

2. Emory Cardiac Toolbox (SynterMed Inc., Atlanta, GA; 2 systems, 2019) – used for analysis and processing of all myocardial perfusion studies.

3. Siemens Symbia.NET workstations (3 systems, 2015) – used for processing studies acquired on the Siemens SPECT systems

4. 8 MIM Workstations (2 dedicated to research work) with advanced processing capabilities for oncologic and neurologic imaging.

5. Siemens SYNGO VIA server for processing/viewing CT and PET/CT. Two client stations installed at EUH.

6. 2 GE AW Server Workstations with Advanced Processing Capabilities