

Acquiring a normalization data set

- Fill the Normalization Phantom with F-18
 - Calculate the activity to be injected into the phantom such that it will have 500 uCi of F18 at the start of the scan.
 - Record the activity injected into the phantom along with the time it was measured.
 - Leave a small air bubble in the tank.
 - Roll the tank on the floor for 2-3 minutes to ensure an even mixture.
 - Add more water to the tank to remove the air bubble.
- Place the phantom in the NeuroPET/CT bore liner
 - Use the foam inserts to axially center the phantom.
 - The front edge of the phantom should stick out from the laser line by 57.5 mm (see diagram)
- Register a new patient
 - Patient Last Name: Normalization
 - Leave rest blank
- Protocol
 - Select the Normalization protocol
 - Scan Duration: 7200 seconds
 - Options: Option 3
 - All other values are ignored.
- Dose Info
 - Isotope: Fluorine-18
 - RadioPharm: Fluorodeoxyglucose F-18
 - Assay Dose: _____ Time: __:__:__
 - Remaining Dose: _____ Time: __:__:__
- Begin Scan and allow the acquisition to complete
- Allow the normalization reconstruction to complete
- Connecting the normalization (must be connected manually)
 - From the Workstation open a Linux terminal window to the scanner.
 - `cd /data/Calibration`
 - `ls -ltr`
 - You should see 1 new folder:
 - `SN001_<acquisition_datetime>_<recon_date_time>`
 - Remove the current normalization links
 - `rm CurrentMaps`
 - Note: Do not use the `-rf` option on the `rm`
 - Note: Do not include a `/` at the end of the link name
 - Create links to the new normalization folder
 - `ln -s SN001_<acquisition_datetime>_<recon_date_time> CurrentMaps`
 - `ls -ltr`
 - Confirm the normalization links are pointing to the correct folders.