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Revised By:

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Procedure:

How to do Daily QC on the Inveon and MRS scanners on a daily basis.

Daily QC microPET

Inveon:

(Reserve at least 45 minutes)

1. Scan the small Ge68 cylinder for 20 minutes, using the protocol "Daily QC Ge68-1200s-sc-new". The protocol will automatically hist.
2. Reconstruct using the protocol "FBP-Z1-SC-dailyqc". Pick the pre-made .atn file in the daily QC folder "Daily Qc-ATN".
3. When the reconstruction is complete, use AsiPro to open the image. Draw an ROI (fixed at 40 pixels). Click "graph across planes" select planes 25-75. Record the median nCi/cc on the microPET QC worksheet located on the G drive. The ratio should be at or close to 1.00.
4. Hit the CT calibration button on the toolbar. Select "condition source". Deselect any protocols you will not be using that day. Make sure protocols you will be using *are* selected to do dark/light calibrations. Start conditioning and dark light calibrations. This will take around 20 minutes.
5. Hit the daily PET QC button on the toolbar. Select current as the bed position. Hit the start button. This will produce an efficiency file. It will compare the detectors from the previous day. If they are off by more than 10%, repeat or call or email Lori or Richard.

MRS:

(Reserve at least 35 minutes)