



Exam 7

Brain PET Acquisition

MESA MIND Protocol Appendix - Detailed CT/PET Imaging Protocol

Amyloid PET Brain Imaging. Participants who enroll will complete a amyloid imaging protocol with the FDA approved [18F] Florbetaben (Neuroceq®), which is similar to that used by the Alzheimer’s Disease Neuroimaging Initiative – Study (ADNI). Participants will not receive the results from this scan unless so indicated by a clinically significant medical finding.

- Participants will report to the imaging facilities.
- Vital signs (blood pressure, heart rate, temperature) and body weight will be measured on the same day of tracer injection.
- **[18F] Florbetaben** - Participants will be injected with an intravenous bolus of approximately 8 mCi of tracer (minimum 5 mCi / maximum 8.8 mCi). This is the standard dose used in the many published clinical reports using [18F] Florbetaben. After injection, participant will wait for an uptake period of 90 minutes before the tomographic image acquisition begins.
- Participants will be positioned in the PET/CT scanner by trained staff. Participants will be monitored via audio microphone and video. During PET imaging, participants must remain as still as possible and thus every effort will be made to provide for their comfort including blankets, pillows and diligent assessment. The PET brain imaging procedure is similar to that used by large multicenter imaging clinical trials. Scanning will begin with a standard low dose CT transmission scan of the head that will be used to correctly position the participant and for attenuation correction. Brain emission images will be acquired continuously for a 20 minute period as four 5-minute frames. The images will be immediately assessed for technical validity by the PET technologist and if considered inadequate due to motion or other artifact, the participant will have an additional 20 minutes of continuous imaging, collected as four 5-minute frames.
- From the time of tracer injection until after the imaging session is complete, participants will be observed continuously for signs of adverse events or serious adverse events. The injection site will be observed for excessive inflammation or damage to the surrounding tissue.
- A physician or a person designated by the physician with appropriate training and experience will be present during the tracer injection and to approve discharge of the participant from the PET suite.



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Participant ID #:
Acrostic:*
*Do not enter into PET software

Technician ID:
Date: / /
Month Day Year

1. PET tech ID: _____	<u>Participant Information</u>
2. Time of today's scanner QC: <input type="text"/> <input type="text"/> : <input type="text"/> <input type="text"/> <input type="radio"/> AM <input type="radio"/> PM	3. Sex: <input type="radio"/> Male <input type="radio"/> Female
	4. Age: _____

Pre-scan Vitals

5. Blood pressure: _____ / _____

6. Pulse: _____ bpm

7. Weight: _____ lbs

8. Temperature: _____ °F

Tracer: (11C) PiB
 (18F) florbetaben

9. Dose: _____ mCi

10. Dose assay time: : AM PM

11. Dose injection time: : AM PM

12. Residual: _____ mCi

12.1 Residual Assay Time: : AM PM

Post-injection Vitals

13. Blood pressure: _____ / _____

14. Pulse: _____ bpm

15. Was appropriate time allowed for tracer uptake?

No
 Yes, 40 minutes for (11C) PiB
 Yes, 90 minutes for (18F) Florbetaben

16. Scan start time: : AM PM

17. Any variations from protocol during tracer uptake?

Yes → If yes, note below (Q29)
 No

18. Was the scan completed?

Yes
 No → If no, note below (Q29)

Post-scan Vitals

19. Blood pressure: _____ / _____

20. Pulse: _____ bpm



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Additional measurements, if necessary:

21. Blood pressure: _____ / _____

22. Pulse: _____ bpm

23. Blood pressure: _____ / _____

24. Pulse: _____ bpm

25. Injection site location and observations:

26. Participant encouraged to void and drink plenty of fluids the rest of the day?

- Yes
- No

27. PET technician signature: _____

28. Notes: _____

CALL STUDY STAFF PRIOR TO RELEASING PARTICIPANT. *[Insert site contact name and phone]*