

Neuraceq® (florbetaben F18 injection)

Amyloid Brain Image Acquisition Guide

Note: The instructions in this document may be used as a guide to generate a PET imaging facility's own imaging protocol for Neuraceq Brain Amyloid PET scans.

Please refer to the Neuraceq prescribing information for FDA approved Indications, Dose and Radiopharmaceutical Information, Limitations of Use, Contraindications, Adverse reactions, Warnings and Precautions.

Patient Preparation

None required

Procedure

1. PET facility's standard procedures may be followed regarding patient identification, aseptic technique and radiation safety measures and instruction.

Dose administration

2. Neuraceq dose is visually inspected for absence of particulate matter. Dose should not be administered if particulate matter is present.
3. Neuraceq activity is confirmed with a dose calibrator immediately prior to injection.
4. 8.1 mCi Neuraceq is injected at a rate of 6 sec/ml into a large vein, preferably in the upper extremity, via an indwelling catheter.
 - a. Neuraceq dose should not be diluted.
 - b. A post-injection flush with approximately 10 mL normal saline is recommended.

Image acquisition

5. Patient position: Supine.

Head position: Entire brain, including the cerebellum, is positioned in the PET scanner's field of view.

If necessary, tools to aid immobilization (elastic bands etc.) may be used.

6. Attenuation correction image is acquired as per PET facility's standard procedure.

7. Scan start time: 45 to 130 minutes after Neuraceq injection.

Scan duration: 15-20 minute.

Either static or dynamic scans (4 frames, 5 min/frame) may be acquired.

Dynamic scans are summed during post-processing.

Image reconstruction

8. The scan is processed using the reconstruction algorithm for PET Brain scan provided by the scanner manufacturer. Reconstruction should include attenuation correction.

Recommended matrix size: 128x128

Recommended transaxial (in-plane) pixel size: 2 to 3 mm