

WHOLE BODY PET/CT

Overview

Imaging procedure using F-18 FDG to identify the presence of a tumor, or to assess regional or metastatic spread of tumor.

Indications

1. Differentiation of malignant and benign masses.
2. Assessment of regional and/or metastatic spread of tumor.
3. Evaluation of tumor recurrence vs. radiation necrosis or post surgical changes.
4. Assessment of tumor response to therapy.
5. Determination of biopsy site.
6. Assessment of surgical candidacy.

Examination Time

Initially: 15 minutes for blood sugar testing, and radiopharmaceutical injection, followed by a 45-60 minute resting period.

Blood sugar levels over 200 will result in rescheduling of exam.
Blood sugars between 150 – 200 may require second scan if initial outcome is Normal.

Total scanning time is approximately 30-40 minutes
For dual timed acquisitions add 20 minutes.

Patient Prep

See prep page for patient instruction sheet.

Radiopharmaceutical Dose and Administration Technique

15mCiF-18 FDG
(Flouro-2-Deoxyglucose)
Standard I.V. line or intravenous injection

Patient Positioning/Image Field

Supine
6-8 5 min. bed positions to encompass the entire span from base of skull to mid-thigh.
Melanoma scans are 2 separate scans, covering the body from head to toe. First Scan from top of head to end of pelvis, and the second from pelvis to feet.

Acquisition Protocol – Routine Study

Patient is to rest in separate holding area for 45-60 minutes prior to scan.
Patient is to drink 3 -12 oz. glasses of water during waiting period.
Begin image acquisition 45-60 minutes post-dose.
Patient is to empty their bladder immediately prior to scan, and between multiple scans.

Moving Acquisition Protocol – CT for attenuation correction, followed by the PET study. Standard scanogram performed, followed by low dose CT. CT Followed by sequential bed PET scans. Both attenuated, and non-attenuated Images are obtained.

Data Processing

Standard processing consists of application of Mirada Fusion 7-D to determine, and, if necessary, to correct for patient motion.

Galaxy review performed utilizing both the attenuated, and non-attenuated Images.

Optional Maneuvers

Dual timed acquisitions are to be done routinely for lung ca, colon ca, and over Any areas of increased uptake.

Special Views

None

Contraindications

None

Notes: