

NUCLEAR MEDICINE PROTOCOLS



RENAL Scan without/ with Lasix (Renal Scintigraphy)

Exam Time: 1 – 1.5 hours

Indications: Renal scintigraphy is used to assess renal perfusion, function and excretion. Lasix administration may be added to evaluate obstruction from those without obstruction. In obstructed hydronephrosis, no washout of activity may occur, or a blunted response may occur after furosemide administration, whereas washout should be good for unobstructed patients.

Contraindications: Radiographic contrast agents may interfere with kidney function. If contrast studies have been performed; the renal scan should be deferred for 24 hours. If the patient has undergone renal angiography or angioplasty, the study should be deferred for 3 days, if clinically feasible.

Patient Preparation:

1. Patient should hold diuretics the day of test if ordered with Lasix.
2. Patients should be well hydrated.
3. Patient should void just prior to imaging.
4. Heplock or IV should be in place for injections.

Radiopharmaceutical: Tc99m MAG3

Dose: ADULT: 10 mCi (5 mCi if only one kidney) in <0.5ml) Calibrated 30 min post arrival.

LASIX Dose: Test may be ordered with or without Lasix 20 mg IV @ 20 min post radioactive dose.

Camera Setup: Position patient supine, feet towards gantry.
Move table to put patient under camera, center from xiphoid to pubis.

Acquisition Protocol

1. Inject patient with radiopharmaceutical. Flush with saline.
2. Click start immediately after injection
3. If ordered, inject 20mg Lasix over a 1-minute period at the 20-minute mark.
4. Flush with saline.
5. Once images are complete, have patient get up to void.
6. Lay patient back down. Click on Statics icon and take a 2-minute posterior image.
7. Imaging at 10 minutes.
8. Imaging at 20 minutes.