



Melanoma Lymphoscintigraphy

Approval: K. Shamlou, MD

rev:2

7/15/2026

Melanoma Lymphoscintigraphy

Radiopharmaceutical: Tc^{99m}-Sulfur Colloid

Dose: 1.0 mCi (2.0 mCi for next-day surgery patients)

T1/2: 6 hours

Energy: 140 keV

CPT: 78195

Indications:

Approved indications include, but are not limited to:

1. Melanoma

Patient Preparation:

- No study-related preparations required by patient. Only those preparations needed for surgery.

Equipment:

1. GE830 - Discovery

Procedure MELANOMA:

1. Patient will be prepped in NM using sterile technique.
2. Injections will be performed by technologist (4 intradermal injections around site of melanoma)
3. Immediate anterior dynamic scan will be performed for 15 minutes in order to follow lymph path to sentinel node. Transmission images using the flood source are acquired for first 4 minutes of dynamic imaging.
4. Planar scanning to localize sentinel node(s) can be started after the 15 minute dynamic.
5. Delayed imaging at 90 to 120 minutes will be performed in the anterior and lateral projections if node does not visualize during initial imaging.
6. Transmission scans using the flood source will also be performed in the anterior and lateral projections.
7. If sentinel node is localized, have radiologist mark from both projections.

Acquisition Parameters:

DYNAMIC

- 60 sec/frame x 15 frames
- Matrix: 128x128
- Zoom: 1.0
- Position: Supine
- Orientation: feet first



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STATICS

- Matrix: 256 x 256
- Zoom: 1.0
- Total Time: 300 seconds
- Position: Supine
- Orientation: Feet First

TRANSMISSION

- Matrix: 128x128
- Zoom: 1.0
- Total time: 30 sec
- Position: Supine
- Orientation: Feet first

Processing / PACS data

- Screenshot composite of 4 statics, ANT, RT LAT and transmission images
- Composite of dynamic acquisition, 1 frame per image, not summed
- Raw dynamic

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