

Radiopharmaceutical: Tc^{99m}-Unfiltered 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:

- Patient will be coming down from the surgery center upstairs
- No study-related preparations required by patient. Only those preparations needed for surgery.

Equipment:

1. Philips Skylight (VXUR collimator)
2. Philips Forte (VXUR collimator)
3. Philips Vertex Plus (LEUR collimator)

Procedure MELANOMA:

1. Patient will be prepped in NM using sterile technique.
2. Injections will be performed by technologist (4 shallow injections around site of melanoma)
3. Immediate anterior dynamic scan will be performed for patients with melanoma located on thorax, in order to follow lymph path to sentinel node. Transmission images using the flood source are acquired for first 5 minutes of dynamic imaging.
4. Planar scanning to localize sentinel node(s) can be started just after injections.
5. Delayed imaging at 90 to 120 minutes will be performed in the anterior and lateral projections if node does not immediately appear after injections.
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:

- Matrix: 256 x 256 (128 X 128 for dynamic)
- Zoom: 1.0
- Total Time: 300 seconds
- Dynamic time: 60 sec/frame for 15 frames
- Total Kcounts: N/A
- Position: Supine
- Orientation: Feet First

Processing:

1. Left-click on ALL IMAGE DISPLAY.
2. Choose the ANTERIOR, ANTERIOR TRANS, LATERAL, and LATERAL TRANS images, and click on PROCEED.
3. Select the 4-view image display button.
4. Annotate using the proper default in the PENCIL TOOL, and SNAPSHOT→QUIT.
5. Double SNAPSHOT the image ending in “_SS”.
6. Send to PACS and print an image to send to the surgery center.