

 SELECT RADIOLOGY SOLUTIONS A Division of Radiology Imaging Associates	Gallium Scan		
	Approval: K. Shamlou, MD	rev:2	7/15/2026

Ga67 Citrate Scan

Radiopharmaceutical: Ga67-Citrate

Dose: 6 mCi for infection localization; 12 mCi for tumor localization.

T1/2: 78 hours

Energy: 93, 184, and 296 keV

CPT: 78805 (limited area); 78806 (whole body); 78807 (SPECT)

HCPCS: A9556 (per mCi)

Indications:

Approved indications include, but are not limited to:

1. Whole-body survey to localize source of fever in patients with fever of unknown origin (FUO).
2. Detection of pulmonary and mediastinal inflammation/infection, especially in the immunocompromised patient.
3. Evaluation and follow-up of active lymphocytic or granulomatous inflammatory processes, such as sarcoidosis or tuberculosis.
4. Lymphomas.
5. Diagnosing osteomyelitis and/or disk space infection. 67Ga is preferred over labeled leukocytes for disk space infection and vertebral osteomyelitis.
6. Diagnosis and follow-up of medical treatment of retroperitoneal fibrosis.
7. Evaluation and follow-up of drug-induced pulmonary toxicity.

Patient Preparation:

- Inform the patient of the possibility of the procedure taking up to 3 days to complete, depending on the indication.
- A high fiber diet is encouraged, so as to minimize bowel activity, especially in wholebody or abdominal scans.

Equipment:

1. GE 830 Discovery

Procedure:

1. Place an intravenous catheter in the patient's arm.
2. Inject 67Ga-Citrate slowly through IV.
3. If **Irritable Bowel Disease** is the indication, perform an 8 cm/min wholebody scan at 3, 24, and 48 hours post reinjection. Ask radiologist for further instruction.
4. **Osteomyelitis of extremity:** Image area of interest in all pertinent projections at 48 hours post injection. A 99mTc-MDP bone could be done prior to the gallium scan and a Bone/Gallium ratio can then be found.
5. **Osteomyelitis of Lumbar Spine (Discitis):** Perform wholebody scan and then L-spine SPECT at 48 hours post injection.
6. **Interstitial Lung Disease:** Acquire wholebody scan at 48 hours post injection. Calculate a ratio of each lung to background (below the kidneys). A chest xray is required within 1 week of this procedure.
7. **For tumor localization,** acquire wholebody scans at 24 and 48 hours at 7 cm/min. At 72 hours acquire a wholebody SPECT from mandible to pelvis.

Acquisition Parameters:

Wholebody

- Zoom: 0.92
- Scan Speed: 8 cm/min
- Position: Supine
- Orientation: Feet First
- Display Mode: Variable
- Body Contour: ON

Statics

- Matrix: 256 x 256
- Zoom: 1.00 (Full Field)
- Total Time: 600 sec
- Position: Supine
- Orientation: Feet First

SPECT

- Matrix: 64x64
 - Zoom: 1.00 x (Full Field)
 - Number of angles: 120 View Angle: 3
 - Time per angle: 30 seconds
 - SPECT mode: Step
 - Orbit type: Body contour
 - Rotation direction: Clockwise
- Supine, d=feet first. H mode

Processing/ PACS data sets

Whole body:

- Screenshot of posterior and anterior views
- Screenshot of any statics.

SPECT:

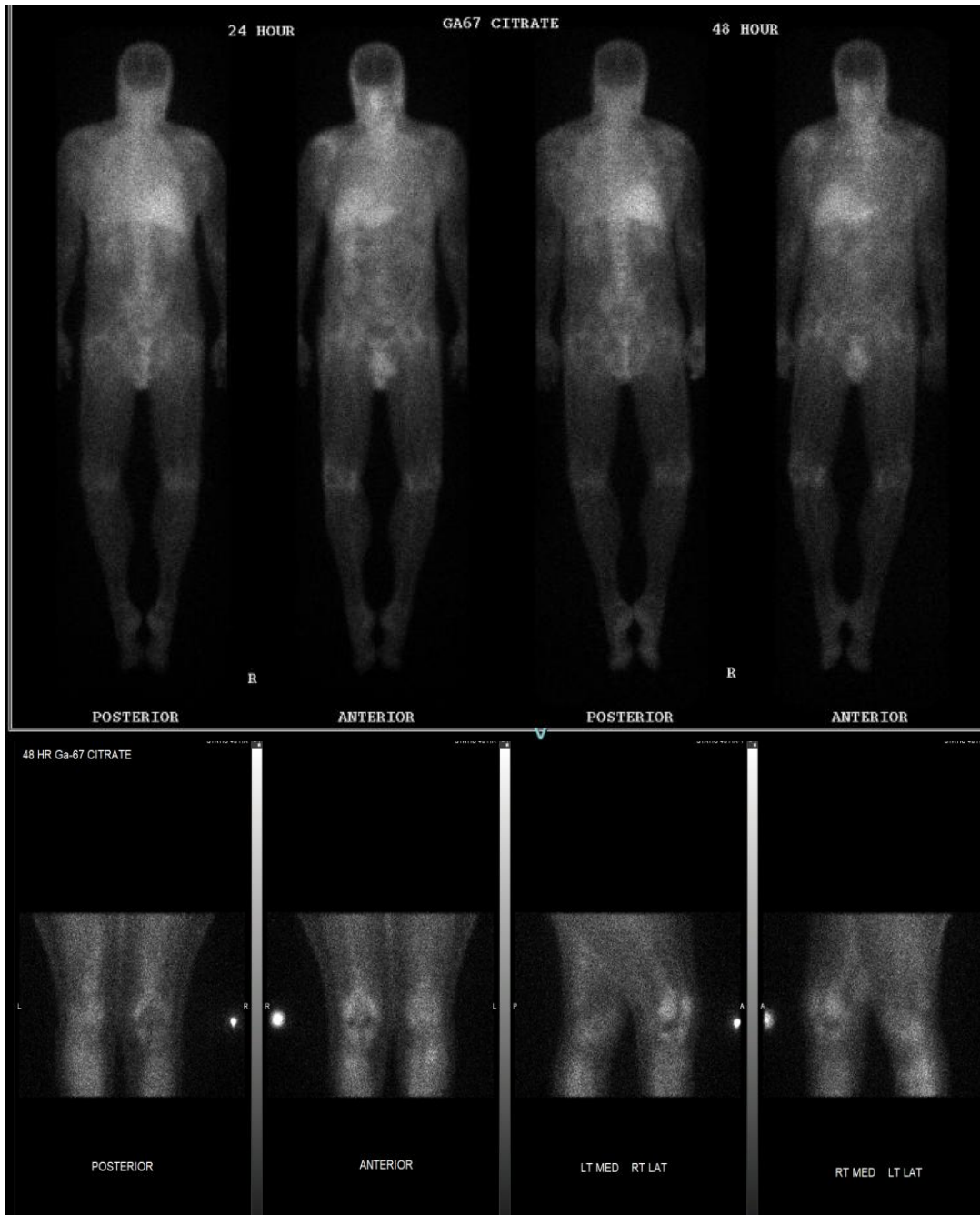
- Axial, coronal, and sagittal dynamic SPECT datasets
- Composite screen shot of the dynamic SPECT data reformatted into summed frames (3 frames per image) – Axial, coronal, and sagittal
- Raw projection dataset & Volume SPECT reconstruction

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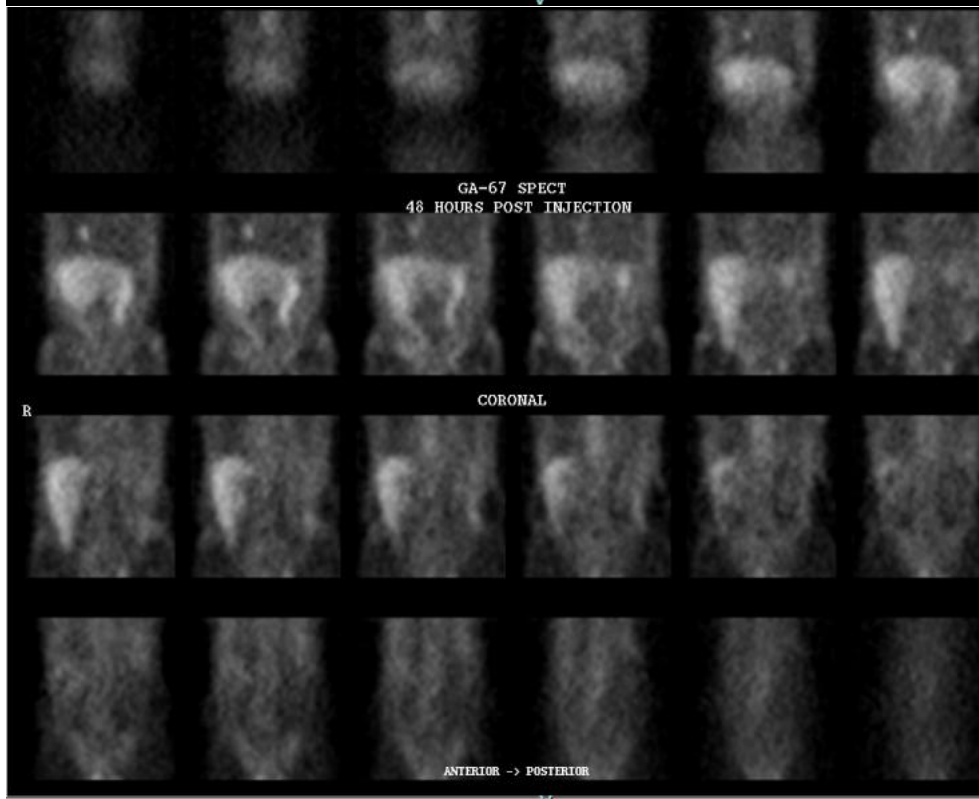
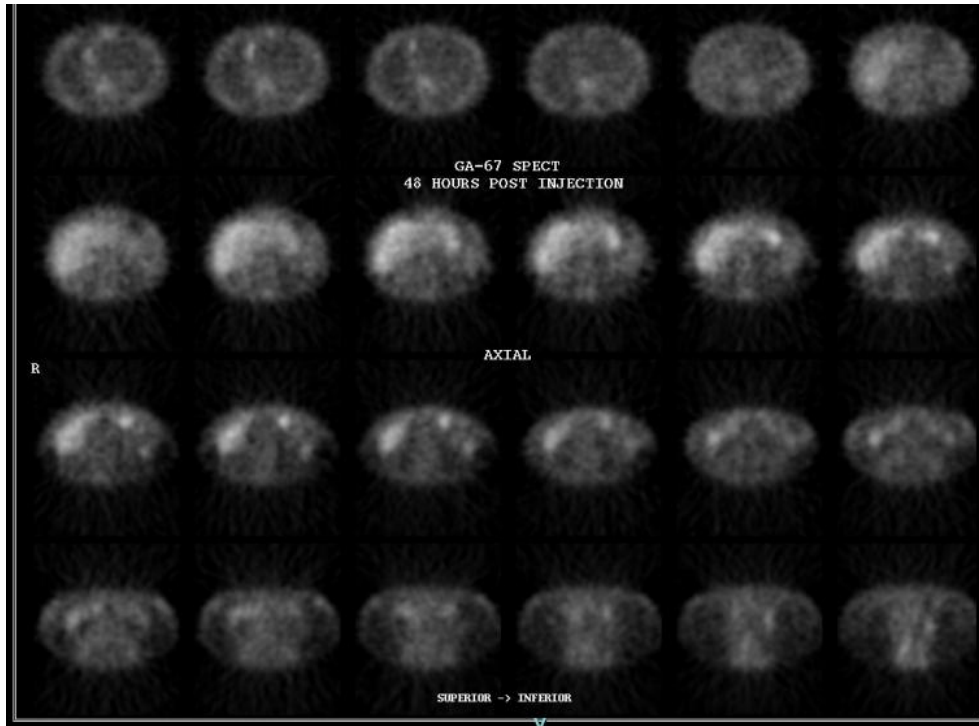


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