

General Reference:

SNM Practice Guideline for Parathyroid Scintigraphy 4.0

Common Indications:

Hyperparathyroidism, hypercalcemia

Pre-scan Clinical History:

Determine history related to stated clinical history. Locate any pertinent imaging results which describe related findings. Determine if patient has had recent iodinated contrast X-rays, prior parathyroid or thyroid surgery, or is taking thyroid hormone replacement.

Patient Preparation:

If SPECT/*CT* is available, administer one (1) Iosat potassium iodide tablet, 130mg (or equivalent), PO, immediately prior to radiopharmaceutical administration.

Relative Contraindications (if present, consult with nuclear medicine physician prior to scan):

1. Recent nuclear medicine studies
2. Pregnancy

Radiopharmaceutical and Route of Administration:

20 - 30 mCi Sestamibi, IV; *Myoview SHOULD NOT be substituted.*

Procedure:

1. **FLOW** - 128x128, 120 seconds, 3 seconds per frame, zoom 1.45
2. **ANTERIOR IMMEDIATE** - 128x128, 300 seconds, zoom 1.45
3. **15 MINUTE DELAY** - 128x128, 300 seconds, zoom 1.45
4. **30 MINUTE DELAY** - 128x128, 300 seconds, zoom 1.45
5. **60 MINUTE DELAY** - 128x128, 300 seconds, zoom 1.45
6. **SPECT/CT (or SPECT if SPECT/CT unavailable)** - 32 dual-detector stops (64 projections), 30 sec/stop, 128x128 matrix, center neck in FOV.
7. **90 MINUTE DELAY** - 128x128, 300 seconds, zoom 1.45, followed immediately by
8. **CHEST** - 128x128, 300 seconds, **zoom 1.00**

Review:

Prepare images and documents for clinical review as per **Nuclear Imaging Acquisition and Presentation Guidelines.**