

General Reference:

The SNM Practice Guideline for Somatostatin Receptor Scintigraphy 2.0

Common Indications:

Somatostatin receptor positive tumors, including neuroendocrine, pancreatic, lung, and breast malignancies

Pre-scan Clinical History:

Determine history related to stated clinical history. Locate any pertinent imaging results which describe related findings.

Patient Preparation:

None

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

1. Recent nuclear medicine studies
2. Recent barium contrast studies
3. Severely impaired renal function
4. Pregnancy

Radiopharmaceutical and Route of Administration:

6 to 8 mCi In111 Octreoscan IV.

Procedure:

1. The patient will receive a 6 - 8 mCi In111 Octreoscan. Instruct the patient to hydrate well and return in four hours.
2. 4 Hour Imaging:
 - i. Ant/Posterior whole body. MELP, 256x1024 matrix, 8cm/minute
 - ii. Consult with a nuclear medicine physician to determine what imaging is needed at 24 hours
3. 24 Hour Imaging:
 - i. Ant/Post whole body, MELP, 256x1024 matrix, 8cm/minute
 - ii. Statics (if needed): 128x128, 300 seconds
 - iii. SPECT/CT, 128x128 matrix, 30 seconds per stop, 48 stops, typically from top of the liver down, but occasionally of the thorax instead of or in addition to; consult with the nuclear medicine physician for detail

Review:

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