

 SELECT RADIOLOGY SOLUTIONS A Division of Radiology Imaging Associates	Liver / Spleen (SPECT)		
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Liver/Spleen (SPECT)

Radiopharmaceutical: 99mTc-Sulfur Colloid

Dose: 4 mCi

T1/2: 6 hours

Energy: 140 keV

CPT: 78205

Indications:

Approved indications include, but are not limited to:

1. Primary liver carcinoma.
2. Possible metastasis from other primary cancer.
3. Liver mass.

Patient Preparation:

- No recent barium studies.

Equipment:

1. GE 830 Discovery – LEHRs collimator

Procedure:

1. Inject 99mTc-Sulfur Colloid and wait 10 minutes.
2. Acquire an anterior view with liver marker in place for 600K counts.
3. Acquire SPECT scan of abdomen including liver and spleen.

Acquisition Parameters:

- Matrix: 128 x 128
- Zoom: 1.0 (Full Field)
- Time: 20 sec/angle
- Number of angles: 120 View angle 3
- Position: Supine
- Orientation: Feet First
 - Acquire during motion
 - H-mode
 - Body Contour

Processing/Data sets for PACS

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