UNM HOSPITALS

Splenic Imaging

Special Instructions	***In vitro* labeling is performed, so erythrocyte labeling patient verification must be performed. Refer to Radiology - Nuclear Medicine - Handling of Blood Products procedure.** **For pediatric patients, confirm with the radiologist whether the SPECT should be performed without or with CT.** **To be performed at UNMH.** **To be performed at SRMC on a case by case basis with Attending Radiologist approval.**

Radiopharmaceutical: Tc-99m *in vitro* labeled heat damaged red cells.

Dose (Adult/Pediatric): Refer to Nuclear Medicine Dose Chart

Route of Administration: Intravenous

Patient Preparation: None.

Equipment Setup: Collimator (All): High resolution

Computer setup:

Planar imaging:

Static acquisition, 256 x 256 matrix, 500K counts

SPECT or SPECT-CT images:

High resolution collimator, 128 x 128 matrix

Zoom = 1.0

180 degrees, CW (clockwise)

64 steps, 15 sec/step

Noncircular, continuous

Patient Positioning: Supine

Procedure: Imaging time post-injection: At least 30 minutes.

Consult with the radiologist about the region to be imaged (typically the abdomen). Acquire anterior/posterior images, and laterals if requested.

Consult with the radiologist about the use of SPECT or SPECT-CT (typically needed for this examination) and the region to image. With pediatric patients, confirm with the radiologist whether or not to perform CT with the SPECT

Processing: Static display (lightbox/savescreens) of all static images, labeled with view and region imaged.

Splenic Imaging (continued)

SPECT-CT: Follow automatic processing workflow

If SPECT-CT, process CT in soft tissue (B30) and bone (B60) algorithm; should have attenuation corrected and non attenuation corrected SPECT tomo files

If SPECT only, should have reconstructed tomographic file and axial/coronal/sagittal lightboxes/savescreens

Items Required For Complete Study:

- Processing and transfer of all images to PACS and/or Leonardo as appropriate
  - Raw data of all planar images (to PACS)
  - Lightbox/savescreen of all labeled planar images (to PACS)
  - SPECT: Reconstructed Tomo (to Leonardo and PACS), Lightboxes/savescreens of axial/coronal/sagittal SPECT (to PACS). Rename SPECT to include region imaged (e.g., Reconstructed Tomo ABDOMEN)
  - SPECT-CT: Attenuation Corrected and Non Attenuation Corrected Tomo Reconstructions, CT (B30 and B60) to Leonardo and PACS. Rename SPECT and CT files to include region imaged (e.g., Reconstructed Tomo- AC - ABDOMEN)
- Complete the examination in RIS