

## Hemangioma

<b>Special Instructions</b>	<p><b>For <i>in vitro</i> labeling, erythrocyte labeling patient verification must be performed. Refer to Radiology - Nuclear Medicine – Handling of Blood Products Procedure. Follow instructions in UltraTag kit for red blood cell labeling. If an allergy to heparin exists, ACD (Anticoagulant Citrate Dextrose) may be substituted (ACD must be ordered from Pharmacy).</b></p> <p><b>To be performed at UNMH.</b>  <b>To be performed at SRMC on a case by case basis with Attending Radiologist approval.</b></p>
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**Radiopharmaceutical:** Tc-99m *in vitro* labeled red blood cells (UltraTag™)

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

**Route of Administration:** Intravenous

**Patient Preparation:** None.

**Equipment Setup:** Collimator (All): High resolution

Computer setup:

Anterior/posterior/laterals:

- Static acquisition
- 256 x 256 matrix
- **Zoom 1.0 (greater for children)**
- 500-1000K

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:** Feet first, supine  
Center liver in field of view

**Procedure:**

- Imaging time post-injection: minimum 45 minutes
- Acquire planar anterior/posterior/right lateral images followed by SPECT or SPECT-CT
- With pediatric patients, confirm with the radiologist whether or not to perform CT with the SPECT

## Hemangioma (continued)

**Processing:** Static display (lightbox/savescreen) of all static images

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
  - Planar:
    - Lightbox/savescreen of all planar images to PACS, including anterior/posterior/right lateral
  - SPECT:
    - Reconstructed Tomo to Leonardo and PACS, Lightboxes/savescreens of axial/coronal/sagittal SPECT to PACS
  - SPECT-CT:
    - Attenuation Corrected and Non Attenuation Corrected Tomo Reconstructions, CT (B30 and B60) to Leonardo and PACS
- Complete the examination in RIS