

Radiopharmaceutical: Tc^{99m}- UltraTag red blood cell

Dose: 20 mCi

T^{1/2}: 6 hrs.

Energy: 140 keV

CPT: 78278

Indications:

Approved indications include, but are not limited to:

- To detect and localize gastrointestinal bleeding

Patient preparation:

- NONE

Equipment:

- Philips Skylight (VXUR collimator)
- Philips Forte (VXUR collimator)
- Philips Vertex Plus (VXUR collimator)

Procedure:

1. Follow package insert instructions to tag red blood cells with 20 mCi Tc^{99m}-Pertechnetate
2. Reinject tagged RBCs and acquire a flow study at 1 sec/frame for 60 frames, followed by dynamic imaging for 60 sec/frame for 120 frames.
3. If activity seen in the rectum, acquire a lateral view of the area to rule out penile uptake.

Acquisition Parameters:

- Matrix: 128 x 128
- Zoom: 1.0 (full field)
- Flow Time: 1 sec/frame for 60 frames
- Dynamic Time 60 sec/frame for 120 frames
- Position: Supine
- Orientation: Feet First

Processing:

1. Reframe the flow study. Left click on REFRAME ULTRA DYNAMIC DISPLAY
2. Select the flow data
3. Right click on SELECTIONS MENU...5...SELECTION MENU...5 STANDARD
4. Left click on the 16 view button
5. Label appropriately
6. SNAPSHOT and QUIT
7. Reframe the dynamic blood pool study
8. Left click on REFRAME ULTRA DYANAMIC DISPLAY
9. Select the DYNAMIC data
10. Right click on SELECTION MENU...5...SELECTION MENU...5 STANDARD
11. Left click on the 16 view button.
12. Label appropriately
13. SNAPSHOT
14. Arrow through the next 16 frames.
15. SNAPSHOT and QUIT
16. Double SNAPSHOT the images ending in "SS"
17. Send all raw data and double SNAPSHOTS to PACs
18. Type appropriate history, scan documents, and put online for radiologist interpretation.