



GI Bleed

Approval: K. Shamlou, MD

rev:2

7/15/2026

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

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:

- GE 830 – LEHRS 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.
- 4.

Acquisition Parameters:

FLOW

- 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

DYNAMIC

- Matrix: 128 x 128
- Zoom: 1.0 (full field)
- 60 sec/frame x 60 frames
- Position: Supine
- Orientation: feet first

Processing/Data sets for PACS

- Composite screen shot of the flow data reformatted into summed frames (5 frames per image)
- Composite screen shot of the dynamic data reformatted into summed frames (5 frames per image)
- Dynamic data set

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