



Liquid Phase Gastric Emptying Study

Approval: K. Shamlou, MD

rev:2

7/15/2026

LIQUID PHASE GASTRIC EMPTYING STUDY

Radiopharmaceutical: Tc^{99m}-Sulfur Colloid in tube feeding liquid or formula.

Dose: 1 mCi

T1/2: 6 hours

Energy: 140 keV

CPT: 78264

Indications:

Clinical indications for a gastric emptying study include, but are not limited to, the following:

1. Gastroparesis
2. Abdominal pain
3. Early satiety
4. Nausea
5. Vomiting
6. Diarrhea

Radiopharmaceutical:

1. 1 mCi Tc^{99m}-sulfur colloid in nutritional liquid with 8 ounces of water.
2. Pediatric patients to receive 0.06 mCi/kg of body weight.

Pharmacologic intervention:

- NO MEDS GIVEN

Patient instruction:

- NPO for at least 6 hours.
- Withhold any gastric medications for 24 to 48 hours (unless physician requests that they be taken).
- Scan time is approximately 2 to 2 ½ hours.
- Upon scheduling, if patient has any pertinent prior studies, please instruct either the patient or the physician's office to make those available for comparison.

Equipment:

1. GE 830 Discovery

Procedure:

1. Have patient use restroom prior to drinking radioactive liquid, so that imaging can begin immediately following ingestion.
2. Acquire immediate, dynamic images from 20° LAO projection for 60 seconds/frame for 120 frames.

Acquisition Parameters:

- LEUHR collimator.
- Matrix 128 x 128.
- Scan 120 frames at 60 seconds/frame.
- Zoom: 1.46



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Processing/Data sets for PACS

- ROI screen shot/gastric emptying graph; ROI of the stomach
- Composite screen shot of the dynamic data reformatted into summed frames (5 frames per image)
- Dynamic data set