| SELECT RADIOLOGY SOLUTIONS<br>A Division of Radiology Imaging Associates | Lung Quantification Scan | | |
|---|---|---|---|
| | Approval: K. Shamlou, MD | rev:2 | 7/15/2026 |

# Lung Quantification

**Radiopharmaceutical:** 99mTc-MAA
**Dose**: 4 mCi
**T1/2**: 6 hours
**Energy**: 140 keV
**CPT**: 78597

**Indications:**
Approved indications include, but are not limited to:
1. Quantitative evaluation of differential lung function in patients, typically with lung cancer prior to lobectomy or pneumonectomy.

**Patient Preparation:**
• Chest x-ray or CT chest is required within one week of procedure.

**Equipment:**
1. GE 830 discovery – LEHRS collimator

**Procedure**:
1. Inject 99mTc-MAA.
2. Position patient on scan bed in supine position.
3. Acquire ANT, POST, RPO, LAO, LT LAT, RT LAT, LPO, and RAO images for 600k counts each. Place a 50 µCi marker on patient's right shoulder for ANT/POST acquisition.

**Acquisition Parameters (Perfusion TOMO):**

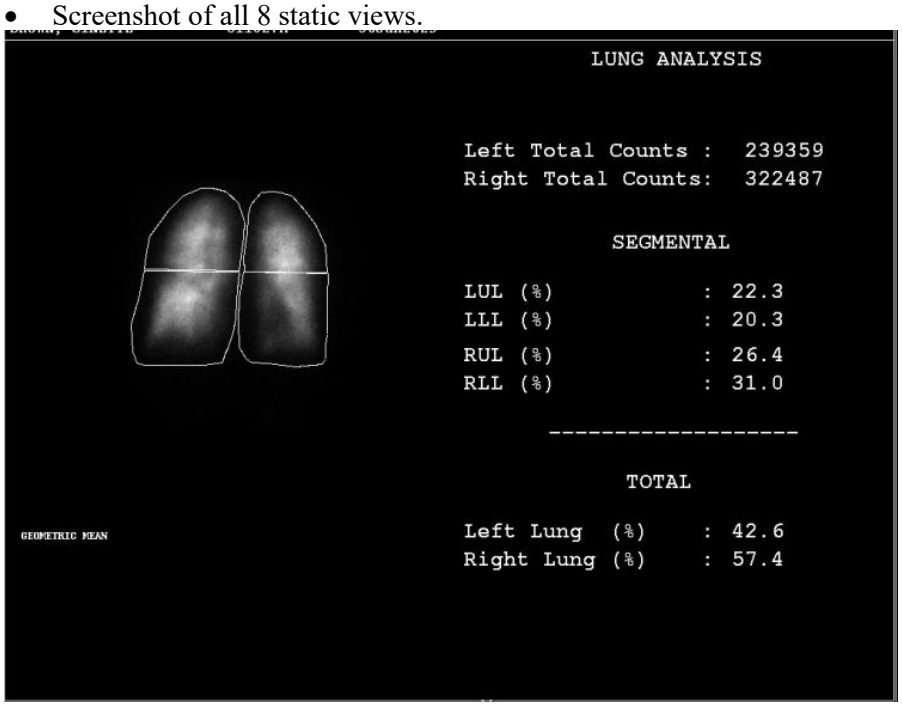
- **Matrix: 128x128**
- **Zoom: 1.0 (full field)**
- **Step/Shoot: 140 sec/stop**
- **Body contour: ON**
- **Supine, feet first, H-mode**
- **Acquire during motion: ON**
- **View angle: 2  8 views**

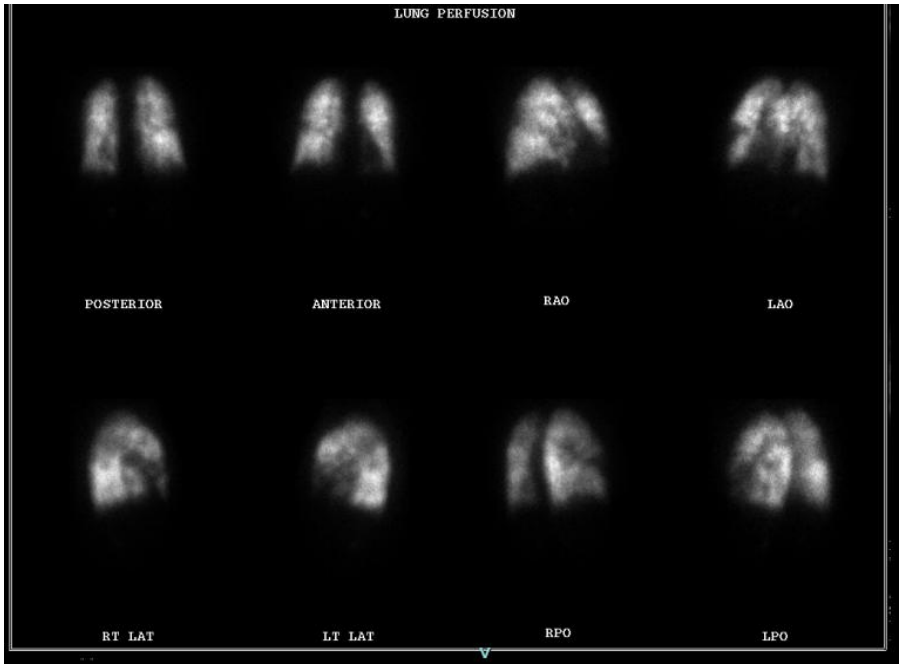
**Acquisition Parameters: ANT/POST quant**
• Matrix: 256 x 256
• Zoom: 1.0 (Full Field)
• 600 sec stop on time
• Position: Supine
• Orientation: Feet First

| SELECT RADIOLOGY SOLUTIONS<br>A Division of Radiology Imaging Associates | **Lung Quantification Scan** | | |
|---|---|---|---|
| | Approval: K. Shamlou, MD | rev:2 | 7/15/2026 |

**Processing / PACS data sets**

- Screenshot of quantification calculations demonstrating LUL, LLL, RUL, RLL perfusion percentages
- Screenshot of all 8 static views.



SELECT RADIOLOGY SOLUTIONS
A Division of Radiology Imaging Associates

# Lung Quantification Scan

| Approval: K. Shamlou, MD | rev:2 | 7/15/2026 |
|---|---|---|