



Lung Ventilation and Perfusion-V/Q

Please contact one of the technologists if you have any questions concerning the information seen on this page.

Study Overview

Prep:

- Chest x-ray needs to be acquired within 24 hours of exam
- No other prep necessary

Exam Time:

- 90 minutes

Overview:

- Patient inhales radioactive mist through a nebulizer for approximately 10 minutes while receiving oxygen. Images are immediately taken.
- Patient is injected with a small amount of radioactive material and then is immediately imaged.

Contraindications

- Pregnancy
- Breastfeeding
- Hypersensitivity to any material used
- Pulmonary hypertension
- Known active pneumonia or other debilitating lung disease, which will yield in a nondeterminable result for a pulmonary embolism

Billing/Coding

Nuclear Sonics Billing #: 44

CPT Code: 78582

CPT Name: Pulmonary ventilation imaging

(eg. ventilation or gas) and perfusion imaging

1st Radiopharmaceutical Used: Tc-99m aerosol

HCPCS Code: A9567

NDC #: if needed, please contact NSA technologist

Billing for Rp: per study dose, up to 75 millicuries

2nd Radiopharmaceutical Used: Tc-99m MAA

HCPCS Code: A9540

Billing for Rp: per study dose, up to 10 millicuries

Interventional Drug: None

Indications

- Diagnosis and treatment of pulmonary embolism
- Evaluation of COPD
- Evaluation of chest pain
- Evaluation of shortness of breath
- Preoperative evaluation of regional function in bronchogenic carcinoma for both involved and uninvolved lung
- Evaluation of low blood oxygen saturation
- Evaluation of adult respiratory distress syndrome, emphysema, inflammation, chronic bronchitis, asthma, and cardiac disease

Pregnancy/Breastfeeding Concerns

It is at the discretion of the ordering physician, the radiologist and the patient, whether or not a pregnant patient should have any nuclear medicine procedures performed until after the pregnancy has ended. It is the recommendation of Nuclear Sonics that patients who are breastfeeding should discontinue for 10 half-lives of the radiopharmaceutical. This is typically a Technetium product, which has a radioactive half-life of 6 hours, so the typical discontinuation should occur for 60 hours.

Disclaimer: These are the recommendations of Nuclear Sonics. At times, the ordering provider may choose a different prep, use the study for something other than what is indicated or order the study even if the study is contraindicated. The prospective Radiology Department and/or Nuclear Sonics will ascertain whether or not the ordering provider wishes to go against the recommendations.