

***Please inform a staff member if you:***

- Are pregnant or a nursing mother
- Are claustrophobic
- Require the results sent by a specific time or method to your doctor

***Additional Information***

Remember to remain still while your lungs are being imaged, as movement may blur the images.

The amount of radiation you will receive during the test is similar to many types of x-rays and CT scans.

There are no known side effects from this test.

The radioactive tracers you are given remain in your body for a short time and are cleared through normal bodily functions.

There will be no restrictions to your daily routine following the test.

APPOINTMENT DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

**Please contact us if you  
are unable to attend  
the test or if you have  
any questions.**

**IMPORTANT**

1. Bring **all** medications with you.
2. We suggest you wear comfortable clothes and shoes.
3. If there is a **language** barrier- it is best if you bring someone to **interpret** for the patient.

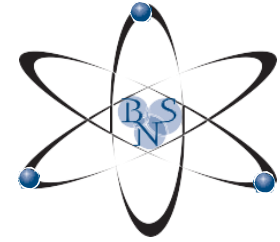
**\*\* 48 HOUR CANCELLATION NOTICE IS REQUIRED if you cannot keep your appointment- SPECIAL INJECTIONS ARE ORDERED FOR YOUR TEST – if you do not provide cancellation notice YOU WILL BE CHARGED FOR THE COST OF THE PRE-ORDERED MEDICATIONS.**

*Brampton Nuclear Services*

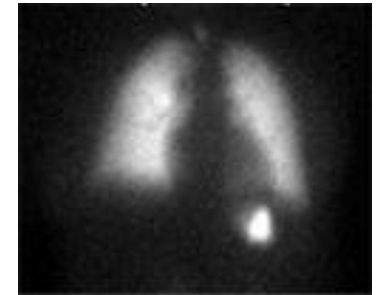
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**Brampton Nuclear Services**  
Diagnostic Nuclear & Cardiology Services



**LUNG SCAN**

**Patient Information**

# LUNG SCAN

## ***What does a Lung Scan involve?***

A Nuclear Medicine Lung Scan is a two-part procedure investigating the airways (ventilation) and blood supply (perfusion) of the lungs and looks for differences between them.

A small amount of a radiopharmaceutical mist is inhaled for the ventilation images, followed by an injection of a radioactive tracer for the perfusion images.

Both the radiopharmaceutical mist and tracer emit gamma radiation and localize in the lungs.

A Gamma Camera is used to acquire the ventilation and perfusion images.

### ***Patient Preparation***

- No preparation required for this test
- Chest X-ray performed within 24 hours of the lung scan.
- Bring a list of all medications and supplements you take.
- It is helpful to bring any previous chest x-rays or scans with you for comparison with the lung scan

### ***Test Duration***

- 45 – 60 minutes

Two part test

Air Supply (Ventilation) Scan- Part 1

- A mask will be placed over your face and you will breathe a radiopharmaceutical mist through a breathing tube for about 10 minutes.
- The technologist will ask you to lie down on the bed and the camera will be positioned above your chest.
- Pictures will be taken from different angles around your lungs.

Blood Supply (Perfusion) Scan – Part 2

- You will receive an injection of another radioactive tracer into a vein.
- Pictures are taken as the tracer is injected to determine the blood flow to the lungs.
- Again, pictures will be taken from different angles around your lungs.

Procedure Modifications

Some patient conditions dictate modification of this test to better ensure the safety of the procedure. The main patient conditions that indicate procedure modification include:

- Severe high blood pressure in the lungs (pulmonary hypertension).
- Right to left blood leak in the heart (right to left cardiac shunt).

A Nuclear Medicine Physician will interpret the images and send a report to your referring doctor that same day.

**\*\*We suggest you come with a driver – if test is positive you will need to go to the hospital.**

## ***What does a Lung Scan investigate?***

Some of the most common indications for having this test are:

- Rule out blood clots to the lungs (pulmonary embolism).
- Monitoring the response to treatment for Pulmonary Embolism.
- Evaluate air supply changes in lung disorders (e.g. COPD, lung cancer, and obstructive conditions).
- Evaluate blood supply changes in lung disorders (e.g. emphysema, chronic bronchitis, asthma, and inflammation conditions).
- Staging for lung cancer.
- Evaluate blood shunting from the right to the left side of the heart.
- Preoperative lung assessment.