

Lung ventilation and perfusion scintigraphy

Purpose of the study

Lung scintigraphy is used to detect and investigate possible blood clots or other diseases affecting the lung circulation.

Preparations

- You can eat and drink normally
- You can take your medication as usual
- Dental or joint prostheses are not a hindrance to nuclear medicine study
- We usually do not perform the entire examination on pregnant women. However, lung perfusion study can be done if necessary.

Study protocol

Lung scintigraphy is a three-part study. First, we will perform a lung ventilation scintigraphy, which takes about 15 minutes. You will need to inhale a gaseous radiopharmaceutical into your lungs for a short while. This is how we visualize the entry of respiratory air into different parts of the lungs.

As soon as the first imaging is completed, you will receive the second radiopharmaceutical into a vein in your forearm vein. We will now image the circulation of your lungs, i.e., lung perfusion. The imaging takes 10 minutes.

Finally, immediately after the second scintigraphy, a computed tomography (CT) scan is performed to refine the results. The CT scan takes only a few minutes. During all imaging, you must remain still lying on your back.

Duration of the study

The examination lasts about two hours.

After the study

A physician will provide a statement about the study, which will be directed to the clinic or department that made the referral. The referring unit will take care of follow-up measures.

Notice

If you come to the examination from home, we will monitor your condition at the nuclear medicine department for about an hour after the examination.

You will be administered a small amount of radioactive material that radiates within you, therefore you should keep a certain distance to children and pregnant women for the next 24

hours. After 24 hours the radioactive material has exited your body and you are no longer radiating.

Please do not wear any perfume when coming to the department as it may cause severe symptoms to patients with asthma or allergy!

Contact information

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from Monday to Friday between 7.00–14.30

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