Lung ventilation and perfusion

You have an appointment for lung ventilation/perfusion SPECT/CT (single photon emission computed tomography, computed tomography) imaging at the Nuclear Medicine Department of Oulu University Hospital. Perfusion and ventilation in your lungs will be examined with the aid of a radioactive marker.

Before the examination

Please reserve about one hour for the examination.

On the day of the examination, you may eat, drink, and take your medication as usual. Please inform us before the examination if you are **allergic to products containing albumin.**

**For women**

Pregnancy is not a contraindication to examination. However, do inform us if you are pregnant.

The radioactive marker enters breast milk. Please have a break from breastfeeding for 12 hours during which you express the milk.

During the examination

You will first inhale a radioactive substance through a hose. Right after this, your lungs are imaged with a gamma camera from different angles. The imaging takes about 20 minutes, and you will lie supine during it. Next, a radioactive marker is injected into your vein. Following this, your lungs are imaged from different angles. The imaging takes about 15 minutes. The first two stages of the scan will be SPECT followed by the CT scan. It is very important that you remain still for the entire duration of the studies so that the SPECT and CT can be accurately combined.

After the examination

The marker does not affect your state of health, and it will be eliminated from your body within 24 hours.

The radioactive marker gives off some radiation to your immediate vicinity on the day of the examination. However, the radiation dose to other people around you is so small that no precautions are needed.

A statement on the results of the examination will be sent to the doctor treating you. You will be informed of the results in the manner agreed on.

Contact information

The department of nuclear medicine (Kajaanintie 50, S entrance, Isotooppiosasto, S6) is located at the end of the S hallway on the 2nd floor. You can also use G or H entrances (Kiviharjuntie 9) and follow S-guidance to Isotooppiosasto. For more information about the examination, call **040 1344566** on weekdays from 12.00 pm to 2.00 pm.