

Full-body PSMA PET-CT

Purpose of the study

The study aims to locate prostate cancer and its metastases.

PET-CT study combines positron emission tomography (PET) and computed tomography (CT) in the same session. The PET scan examines the body's metabolism, while the CT scan provides a detailed image of the body's structure.

Preparations

You must fast for at least 4 hours before the study, but you may drink water. You can take your regular medication as prescribed by your doctor on the day of the study.

The CT study may require the use of iodine-based contrast material, which will be administered during the scan. If you have had a previous reaction to contrast material, inform the staff before the study. The PET radiopharmaceutical is essential for the study, but the CT scan can be performed without the use of iodine-based contrast material.

Study protocol

You will be asked to complete an interview form, and a nurse will review the details of the study with you.

A vein catheter (drip) will be placed in your forearm to administer the radiopharmaceutical. You will be directed to a resting room where you will lie down on a bed. The waiting time before the administration of the radiopharmaceutical is between ½ to 2 hours. Except for the injection, the study is painless and there are no side effects.

The radiopharmaceutical is used as a radioactive tracer. After the tracer is administered, it takes about 60 minutes for it to accumulate in the imaging area. The waiting time is spent in the resting room.

The imaging is performed on a PET-CT bed in a supine position, which moves through the camera opening. You can wear your own clothes as long as they don't have metal in them. The success of the study requires you to stay still. The imaging takes approximately 30 minutes. The study, including the waiting time, takes about 3-4 hours.

After the study

A physician will provide a statement on the study, which will be directed to the clinic or department that made the referral. The referring unit will take care of any further actions.

Notice

The PET radiopharmaceutical has no side effects, but it emits mild radiation for a few hours. However, no radiation protection measures are generally required. After the study, it is advisable to drink more water than usual, as the radiopharmaceutical is excreted from the body through urine.

Avoid close contact with pregnant women and holding children in your lap or beside you on the day of the study, if possible, for about 8 hours.

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

Department of nuclear medicine and PET
Satasairaala, Building A, floor 0
Phone number 02 627 7361
from Monday to Friday between 7.00–14.30

SataDiag
[SataDiag website www.satadiag.fi](http://www.satadiag.fi)

Pre-study questionnaire for PET imaging

Please fill out the form the day before the examination and bring it with you when you come for the study.

Name: _____ **Weight:** _____

Personal identity code: _____ **Height:** _____

Have you experienced any hypersensitivity reactions to contrast agents during previous imaging procedures?

No Yes

Have you undergone any surgeries, endoscopies, or biopsies within the past six months?

No Yes Which, when? _____

Have you received the following medications within the past 2 weeks?

- Cortisone
- blood cell growth factor
- cytostatic agent

Have you received radiation therapy within the past 3 months?

When? _____

to which area? _____

Do you have or have you had...

- Diabetes. Current diabetes medication in use: _____
- Myocardial infarction
- Renal disease
- Tuberculosis
- Gastroenteritis
- Other inflammatory disease, which? _____
- Other chronic disease, which? _____
- Trauma (fracture, injury), which? _____

Have you received the COVID-19 vaccine?

- No Yes, when? _____
- Left arm
- Right arm

Question for women: Is it possible that you could be pregnant?

No Yes

Start date of your previous menstrual period? _____