

Parathyroid PET-CT

Purpose of the study

The study aims to locate overactive parathyroid glands. The study uses radioactive fluorocholine, 18F-FCH, as the radiopharmaceutical.

PET-CT imaging combines positron emission tomography (PET) and computed tomography (CT) in a single session. PET is used to study the body's metabolism, while CT provides detailed structural images of the body.

Preparations

On the day of the study, you can take your regular prescribed medication as usual.

The study is generally not performed on pregnant women. If you suspect you might be pregnant, please inform the staff before the study. The study can be conducted on breastfeeding mothers, but a breastfeeding break of 12 hours is required after the study.

Please do not bring small children with you to the appointment.

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

Study protocol

You will be given an interview form to fill out. A nurse will go over the details of the study with you.

A vascular catheter (drip) will be placed in your forearm vein for the administration of the radiopharmaceutical. You will be directed to a resting room for bed rest. The waiting time before administering the radiopharmaceutical is ½ to 2 hours. The study, except for the injection, is painless and does not have any side effects.

The study uses a radioactive tracer. After administering the tracer, a waiting time of approximately 60 minutes is required for the tracer to accumulate in the imaging area. You will continue to wait in the resting room during this time.

The imaging is performed while lying on your back on the PET-CT scanner bed, which moves through the opening of the camera. You can wear your own clothes for the scan, as long as

they do not contain any metal. It is important to stay still for the success of the study. The imaging takes about 30 minutes. Overall, you should allocate about 3-4 hours for the entire study, including breaks.

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

There are no side effects associated with the PET imaging agent, but it emits a mild radiation for a few hours. However, usually no radiation protection measures are necessary. After the study, it is advisable to drink more water than usual, as the imaging agent is eliminated from the body through urine.

On the day of the study, try to avoid close contact with pregnant individuals and holding or being near children for approximately 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 7.00–15.00

SataDiag SataDiag website 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.

Personal identity code:				
□ No	□ Yes			
Have you undergo months?	ne any surg	eries, endoscopies, or bio	psies within the past six	
□ No	□ Yes	Which, when?		
Have you received	the following	ng medications within the	past 2 weeks?	
□ Cortisone□ blood cell growth□ cytostatic agent	factor			
Have you received	radiation th	nerapy within the past 3 mo	onths?	
When?to which area?				
Do you have or ha	ve you had	••		
 □ Myocardial infarct □ Renal disease □ Tuberculosis □ Gastroenteritis □ Other inflammato □ Other chronic disease 	ion ry disease, w ease, which?	vhich?		
☐ Trauma (fracture,	injury), whic	h?		
Have you received	the COVID-	19 vaccine?		
□ No	□ Yes, v □ Left a □ Right			
Question for wome	en: Is it poss	sible that you could be pre	gnant?	
□ No	□ Yes			
Start date of your	orevious me	enstrual period?		