

Brain PET/CT or PET/MR Scan with 18F – Dopa (a neurotransmitter)

Dear patient,

We welcome you to your appointment in our service, taking place in the near future. Please bring your insurance document or a copy of your insurance certificate with you.

What is a PET/CT or PET/MR?

(Positron Emission Tomography), CT (Computed Tomography and MR (Magnetic Resonance Imaging) all produce cross-sectional images of your body. In PET/CT and PET/MR, two of the examinations are combined within one scanner.

PET: a small dose of radioactive tracer (here F-18-DOPA) -given to the patient - sends rays from within the body. The PET scanner localizes the tracers' whereabouts and represents it in cross-sectional images of the patient.

CT: X-rays travel through the patient and are weakened. The weakening is a measure of the densities of various body tissues. The reconstructed cross-sectional CT-images depict these densities throughout the patient.

MR: the patient - placed in the scanner - is exposed to one strong and weak variable additional magnetic fields. Radio waves are sent into the patient, interact with body tissues and produce other radio waves. As they characterize tissues of the patient, the waves are recorded and reconstructed into cross-sectional images.

Preparation for a Brain PET/CT or PET/MR

You do not have to abstain from food or drink

You may take all medications

If you have strong pain, take all your pain medications as prescribed

In case of existing/possible pregnancy or if you breast-feed, please contact staff.

If you have experienced claustrophobia in the past, please let our medical technicians know. If you have any questions prior to the examination, contact us at +41 (0) 44 255 35 55.

It is important, that you arrive on time for the examination. Tracers are ready made and will decay, if not used on time.

F-DOPA PET/CT or PET/MR examination

In the PET-Center, our technicians await you.

Total examination time is two hours. You will receive an injection of radioactive tracer (in this case a small amount of radioactively labelled F-DOPA, a neurotransmitter substance) into an arm vein. During a wait time of about 80 minutes in a quiet darkened room the substance enters the relevant brain structures. The substance has no side effects.

At the end of the wait period you are placed in the scanner for a scan time totally approximating 20 minutes.

It is important that during this time, you lay quietly on the examination table and do not move. To avoid motions of the head, your head will be placed in a special head support.

After the F-DOPA-PET/CT or PET/MR exam

You should not be accompanied by children or adolescents to the exam.

Reporting

Evaluating your PET/CT or PET/MR exam takes time. Thus, no results can be given right after the exam. A report will be sent to your physician usually by the end of the examination day.

Please note

If you need to cancel or delay your appointment, contact us the latest one working day prior to the exam. Else, we need to charge you for costs generated. Contact: +41 44 255 35 55.