

The image capture will take about 20 minutes, during which you will lie on a stretcher with your arms above your head. The camera moves around you. The technologist will stay nearby or in contact with you throughout the test.

Additional Information

You can at any time address the technologists conducting your test with any questions you may have, before, during or after the test.

No risk of cancer or any other disease has been demonstrated at such low radiation doses (< 100 mSv).

The low dose of radiopharmaceutical product will be mainly eliminated by the kidneys. It is therefore important to hydrate well during the following 24 hours, unless otherwise advised by your doctor.

Our nuclear medicine department uses hybrid devices with a scintillation camera (which captures emissions from the injected radiopharmaceutical product) coupled with a CT scanner. For the purposes of this test, you will also receive a low dose of X-rays.

For more information, including in French, available on



IMPORTANT POINTS

- » In order to speed up our service during your appointment, we ask you to have an up-to-date list of your medications with you.
- » Before undergoing a nuclear medicine test, it is important to let us know if there is a possibility that you may be pregnant or if you are breastfeeding.
- » Following a nuclear medicine test, you can resume your activities as usual.
- » If you plan to leave the country in the near future, please advise the technologist to obtain the required document. The injected radiopharmaceutical could be detected at customs.
- » If you are unable to attend your test, please notify us as soon as possible by calling 514-376-3330, ext. 3488.

Montreal Heart Institute
Affiliated with the **Université de Montréal**

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**INSTITUT DE
CARDIOLOGIE
DE MONTRÉAL**

Nuclear Medicine Department

^{99m}Tc-Myoview Myocardial Perfusion Test with Persantine and at Rest with SPECT/CT



The Test

The purpose of these tests is to evaluate myocardial perfusion, i.e. the blood supply to your heart muscle, both with dipyridamole (Persantine®) and at rest. The test also estimates the pumping function of your heart. Stimulation with persantine replaces the treadmill stress test.

What Substances are Used?

^{99m}Tc -tetrofosmin (^{99m}Tc -Myoview(R)), a radioactive product. We will also use persantine, aminophylline and possibly other medications to simulate a cardiac stress condition, necessary for the stress test.

Side Effects

Allergic reactions are extremely rare. Some people may experience a few side effects that are short-lived. These side effects are usually completely resolved by the end of the test. The technologist will be with you during the test and will take time to explain the details during your visit. Note that any possible side effects are related to the administration of pharmaceuticals and not to radiation.

Medication

You can take your usual medications unless otherwise specified by your physician.

Preparation Preparation

You should not eat for at least four hours before the test. However, you are allowed to drink water at all times. If you suffer from diabetes, you can have a light breakfast and drink a fruit juice, up to 2 hours before the start of the test.

You must stop consuming caffeinated products 24 hours before the test. Caffeine can be found in carbonated soft drinks, energy drinks, coffee, decaffeinated coffee, tea, iced tea, chocolate, chocolate milk and acetaminophen (Tylenol Ultra).

For environmental and hygiene purposes, we ask that you bring a bag to carry your personal belongings and clothes during the test.

Duration of the Test

You should allow about 3 hours on the day of myocardial persantine perfusion test. You should allow about 2 hours on the day of the myocardial perfusion scan at rest.

Description of the Exam with Persantine

When you arrive, the nuclear medicine technologist will have you put on a gown. A catheter will be installed in a vein in your arm and electrodes will be placed. The catheter will be used to inject persantine, aminophylline and the radiopharmaceutical agent.

Aminophylline acts as an antidote and helps decrease the side effects associated with persantine. You will then be directed to a room where the stimulation test under persantine will be performed. This intervention lasts approximately 10 minutes and takes place in the presence of the imaging technologist.

A medical specialist will be available at all times.

As on the day of the test at rest, you will be injected with a radiopharmaceutical so that images can be taken an hour after the procedure. During this hour of waiting, in order to optimize the results of your test, you should eat. You will therefore have to plan, as on the day of the test at rest, what you need to take a meal.

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Description of the Test at Rest

For comparison purposes, a myocardial scan test at rest is performed the day before or the day after the persantine scan.

On the day of the myocardial perfusion scan test at rest, the technologist will inject the same radiopharmaceutical used for the test with persantine. Images are also taken one hour after the injection. During this hour of waiting, in order to optimize the results of your test, you should eat. Plan to bring either some cash to visit the MHI cafeteria or bring your meal with you.

