

Myocardial Perfusion Imaging (MPI) With Pharmacologic Stress Test

General Information

Your doctor wants you to have a myocardial perfusion imaging (MPI) with a pharmacologic (medicine) stress test.

This test will help your doctor see how well your heart works at rest and during stress. It will also help your doctor tell if parts of your heart muscle are not getting enough blood.

This test is used for people who cannot exercise on a treadmill. Instead, you are given a medicine that either opens up your blood vessels or speeds up your heart rate. These medicines include regadenoson, adenosine, dobutamine and dipyridamole. Your doctor will order the best medicine to use for your test.

During the test you will also receive a radioactive material, known as a tracer, through an intravenous (IV) line in your hand or arm. The amount of radiation you will receive from the tracer is small.

The test takes about 3 to 4 hours, including preparation time. The test does not use contrast.

Like with any test that involves stress, there are risks. They can include irregular heartbeat, heart attack or death. Serious side effects are rare. If you have any issues, a doctor will help you right away.

Your Test

Date: _____

Time: _____ a.m. / p.m.

Date: _____

Time: _____ a.m. / p.m.

Location:

If you need to reschedule your test,
call: _____.

Call your doctor's office if you have any questions about your test.

Before the Test

- For 24 hours before the test, **do not** eat or drink anything with caffeine such as:
 - caffeinated or decaffeinated beverages (coffee, tea, soda or energy drinks)
 - chocolate
 - medicines that contain caffeine, unless your doctor tells you otherwise.
- For 4 hours before the test, **do not** eat or drink anything.

(over)

- **Do take any medicines you usually take.** Your doctor will tell you if you should not take certain medicine.
 - If you have diabetes, you may receive special instructions about your medicine and diet.
 - If you take medicine that contains caffeine, ask your doctor if you should take it.
 - **If you take medicine for your heart or high blood pressure, ask your doctor if you should take it.**

- Bring a written list of all medicines you take. Be sure to include prescription, over-the-counter medicines, herbal and natural products.
- Bring any respiratory inhalers you use regularly.
- Wear loose, comfortable clothing and walking shoes.
- Tell your doctor and technologist if you are breastfeeding, pregnant or think you may be pregnant.

During the Test

- The technologist will place an IV catheter in your hand or arm and will inject the tracer through it 30 to 60 minutes before the first scan.
- After you enter the scan room, you will lie on your back on the imaging table.
 - You will need to lie quietly while a camera scans your heart. This will take about 25 minutes.
- After the first scan, a technician will put electrocardiogram (ECG) patches on your chest to monitor your heart.

- You will then get the stress medicine and a second injection of the tracer through the IV line.
 - The stress test may be done with you lying down, sitting up or even slowly walking on a flat treadmill.
 - While you receive the stress medicine, you may feel hot, have chest discomfort or shortness of breath. **This is normal.**
- After 30 to 60 minutes, the technologist will scan your heart a second time for about 25 minutes. You will need to lie quietly while the camera scans your heart.

After the Test

- The IV catheter will be removed from your arm or hand and a bandage put on.
- The ECG patches will be removed.
- You may return to your normal activities.
- The test results will be sent to the doctor who ordered this test for you. He or she will notify you of the results.

If you have any questions about your test, please call your doctor's office.

Two-day Tests

Sometimes, MPI studies are done over two days. Usually, the stress part of the test is done on the first day and you are scheduled a day or two later to return for the resting pictures. Each appointment will last about 2 hours.

Please follow the "Before the Test" instructions on the day of the stress test. No special prep is needed on the day of the resting pictures.

If this is how your test is scheduled, the appointments will be explained to you when they are scheduled.