

Lexiscan Nuclear Stress Test

Stress testing does not accurately diagnose all cases of coronary artery disease, and can often indicate that it exists in people who do not have the condition. The test can also detect heart abnormalities such as arrhythmias, and conditions affecting electrical conduction within the heart such as various types of fascicular...

Cardiac stress test A cardiac stress test is a cardiological examination that evaluates the cardiovascular system's response to external stress within a controlled clinical setting. This stress response can be induced through physical exercise (usually a treadmill) or intravenous pharmacological stimulation of heart rate

Tc-99m tetrofosmin is rapidly taken up by myocardial tissue and reaches its maximum level in approximately 5 minutes. About 66% of the total injected dose is excreted within 48 hours after injection (40% urine, 26% feces). No contraindications are known for use of Tc-99m tetrofosmin, but care should be taken to constantly monitor the cardiac function in patients with... Tc-99m tetrofosmin is indicated for use in scintigraphic imaging of the myocardium under stress and rest conditions. It is used to determine areas of reversible ischemia and infarcted tissue in the heart. It is also indicated to detect changes in perfusion induced by pharmacologic stress (adenosine, lexiscan, dobutamine or persantine) in patients with coronary artery disease. Its third indication is to assess left ventricular function (ejection fraction) in patients thought to have heart disease.

Technetium-99m As a nuclear stress test Technetium-99m (^{99m}Tc) is a metastable nuclear isomer of technetium-99 (itself an isotope of technetium), symbolized as ^{99m}Tc , that is used in tens of millions of medical diagnostic procedures annually, making it the most commonly used medical radioisotope in the world. MPI is one of several types of cardiac stress test. stress, diseased myocardium receives less blood flow than normal myocardium

As the heart works progressively harder (stressed) it is monitored

using an electrocardiogram (ECG) monitor. This measures the heart's electrical rhythms and broader electrophysiology. Pulse rate, blood pressure and symptoms such as chest discomfort or fatigue are simultaneously monitored by attending clinical staff. Clinical staff will question the patient throughout the procedure asking questions that relate to pain and perceived discomfort. Abnormalities in blood pressure, heart rate, ECG or worsening physical symptoms could be indicative of coronary artery disease. Technetium-99m is used as a radioactive tracer and can be detected in the body by medical equipment (gamma cameras). It is well suited to the role, because it emits readily detectable gamma rays with a photon energy of 140.5 keV (within the range emitted by conventional X-ray diagnostic equipment) and its half-life is 6.0066 hours (meaning 93.7% of it decays to 99Tc in 24 hours). The relatively short physical half-life of the isotope and its biological half-life of 1 day (in terms of human activity and metabolism) allows for scanning procedures which collect data rapidly but keep total patient radiation exposure low. The same characteristics make the isotope unsuitable for therapeutic use because Technetium-99m emits penetrating gamma rays and decays quickly, so it cannot deliver a strong, localized dose to destroy diseased tissue.

Technetium (99mTc) tetrofosmin indicated to detect changes in perfusion induced by pharmacologic stress (adenosine, lexiscan, dobutamine or persantine) in patients with coronary artery disease. Technetium (99mTc) tetrofosmin is a drug used in nuclear medicine cardiac imaging. It is sold under the brand name Myoview (GE Healthcare). The radioisotope, technetium-99m, is chelated by two 1,2-bis[di-(2-ethoxyethyl)phosphino]ethane ligands which belong to the group of diphosphines and which are referred to as tetrofosmin.

Technetium-99m was discovered as a product of cyclotron bombardment of molybdenum. This...

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