



Procedure Information Sheet

Introduction

1. Myocardial perfusion scintigraphy is used to assess the regional blood supply to the heart muscle through the coronary arteries. The test is usually ordered to diagnose coronary artery disease and assess its severity.
2. It usually involves two sets of scanning, one in rest state and the other after stress. The stress test requires administration of dobutamine.

The Operation / Procedure

1. Part I:
 - 1.1. Radiotracer injection at resting state.
2. Part II:
 - 2.1. Pharmacological stress test with radiotracer injection.
 - 2.2. The stress test is supervised closely by a doctor. Your electrocardiogram (ECG), blood pressure and pulse will be monitored during and for sometime after the stress test. You will receive dobutamine infusion at different rates with time, via a catheter at your arm or forearm. An additional drug called atropine may also be given as and when necessary. At peak stress, a radioactive drug will be injected. You may receive β -blocker when you have significant side effect from dobutamine.
 - 2.3. Imaging will be started shortly afterwards.

Risk and Complication

The common side effects are chest pain (31%), palpitation (29%), headache (14%), flushing (14%), dyspnoea (14%) and significant supraventricular or ventricular arrhythmias (8-10%). The risk of non-fatal myocardial infarction is 1 in 1,000 tests. A few deaths with dobutamine stress test have been reported.

Disclaimer

This leaflet only provides general information pertaining to this operation / procedure. While common risks and complications are described, the list is not exhaustive, and the degree of risk could also vary between patients. Please contact your doctor for detailed information and specific enquiry.

Reference

B Hesse, K Ta'gil, A uocolo, C Anagnostopoulos, M Bardie's, J Bax, F Bengel, E Busemann Sokole, G Davies, M Dondi, L Edenbrandt, P Franken, A Kjaer, J Knuuti, M Lassmann, M Ljungberg, C Marcassa, P Y Marie, F McKiddie, M O'Connor, E Prvulovich, R Underwood, B van Eck-Smit. EANM/ESC procedural guidelines for myocardial perfusion maging in nuclear cardiology. Eur J Nucl Med Mol Imaging 2005;32:855-897.

Patient's Signature: _____ Date: _____

Patient's Label

Patient Name: _____

Hospital No: _____

Episode No: _____