

DEPARTMENT OF NUCLEAR MEDICINE & PET-CT

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STRESS MYOCARDIAL PERFUSION STUDY

Stress myocardial perfusion scintigraphy done following I/V injection of 370 MBq of Tc99m Sesta-MIBI at rest and 740 MBq of Tc99m Sesta-MIBI at STRESS. The patient carried out exercise for 10:20 mins (BRUCE protocol) and attained heart rate of 142BPM (82% MPHR, 12.20METS). Exercise was terminated due to fatigue. Images were acquired under SPECT Gamma Camera at rest and stress. Reconstruction done in 3-oblique orthogonal sections ('short axis', 'horizontal long axis' and 'vertical long axis'), with polar mapping.

SPECT myocardial perfusion scintigraphy reveals

1. Nil significant lung uptake of radiopharmaceutical on a representative planar anterior projection scintigram.
2. Dilated left ventricular cavity size on multiple coplanar orthogonal tomographic sections.
3. Post stress images show reduced uptake of radiotracer in the apical and inferior wall. Refilling is noted in the peripheral zone of this area, in the resting image.
4. Color-coded 3D polar plot of regional myocardial perfusion distribution shows.


Area of ischemia: 15%

Area of infarction: 25-30%

(Rest-to-stress perfusion reduction: 10-15%)

IMPRESSION:

Features on SPECT myocardial perfusion scintigraphic study are consistent with myocardial infarction involving apical and inferior wall with periinfarct ischemia


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