

MRN: NM-DE-NU
DOB: 1970-01-16 **Age:** 44
Gender: M
Height: 72 in **Weight:** 200 lbs
BSA: 2.16 m²
BMI: 27.12

Study Time: 09:11 PM
Reading Group: Reset Reading
Referring Group: Core Sound Imaging
Technologist: SONOGRAPHER
Clinical History: test

Study Quality: Excellent
Diagnosis Code: (I05.2) Mitral stenosis with insufficiency

Indications: SOB
Risk Factors: HTN, Diabetes, FAMILY HISTORY
Procedure Code: 93015 Treadmill/Chemical Stress

Stress Test Summary

Exercise

Stress Protocol: Bruce
Duration: 7:10 (min:sec)
Reason for stopping: Fatigue/Weakness
Treatment Capacity: Normal
Recovery Response: Normal

Heart Rate

Resting: 77 bpm
Max Predicted: 153 bpm
90% of Max Predicted: 138 bpm
Max Achieved: 143 bpm
Response: Normal

Blood Pressure

Resting: 142 / 90 (mmHg)
Peak: 172 / 94 (mmHg)
Response: Normal

Stress Test Findings

Following informed consent, the patient exercised on the Bruce protocol. They exercised for a total of 7 minutes and 10 seconds. Baseline heart rate 77 bpm. A maximum heart rate of 143 beats per minute was achieved, 93% of maximum predicted heart rate. The heart rate response was normal. The baseline blood pressure was 142/90 mmHg and increased to 172/94 mmHg at peak exercise, which is a normal response to exercise treadmill. Resting EKG/ECG demonstrated normal sinus rhythm and LV strain patterns present. Peak EKG/ECG demonstrated sinus tachycardia and no ST-T wave abnormalities. Terminated due to fatigue/weakness.

Nuclear Imaging Protocol Findings

The patient was given 10 mCi of 99mTc-Sestamibi IV at rest and approximately 45 minutes after injection, cardiac SPECT imaging was performed. At peak exercise, 30 mCi of 99mTc-Tetrofosmin was given IV and approximately 45 minutes after injection, cardiac gated SPECT imaging was performed.

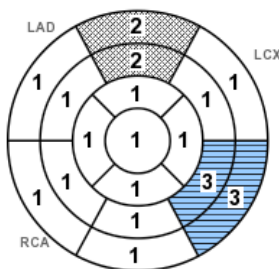
Rest/Stress Findings

Gated SPECT imaging of the left ventricle was normal, demonstrating moderate akinesis of the mid inferolateral and basal inferolateral wall; hypokinesis of the mid anterior wall and basal anterior wall. Moderately elevated stress end diastolic volume. Stress LV EF 54%. Moderate degree medium extent reversible ischemia located in the apical lateral, and the mid and basal anterolateral wall of the left ventricle.

Wall Motion Stress

Myocardial Perfusion Stress

WMSI = 1.35 (normal 1.00)

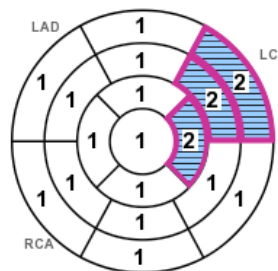


Function

- 1 Normal
- 2 Hypokinesis
- 3 Akinesis
- 4 Dyskinesis
- 5 Aneurysm
- X Not seen

Severity

- Normal
- Mild
- Moderate
- Severe



Perfusion Defect

- 1 Normal
- 2 Ischemia
- 3 Stress induced ischemia
- 4 Reversible ischemia
- 5 Irreversible ischemia
- 6 Myocardial ischemia
- 7 Myocardial infarction
- 8 Myocardial scarring

Severity

- Normal
- Mild
- Moderate
- Severe

Reversibility

- Normal
- Reversible
- Fixed
- Mixed
- Unknown



**SPECT Exercise Treadmill
Myocardial Perfusion
Study Report**

NUCLEAR DEMO
July 14, 2014

Conclusions:

Normal left ventricular systolic function : Moderate akinesis of the mid inferolateral wall and basal inferolateral wall; hypokinesis of the mid anterior wall and basal anterior wall of the left ventricle. Stress LV EF: 54%.

Normal perfusion: Moderate degree medium extent reversible ischemia in the apical lateral, mid and mid anterolateral wall of the left ventricle. No previous exam available for comparison.

April 23, 2019 09:59 AM EDT
CSI Admin Staff
Electronically Signed on Studycast