

HARVARD MEDICAL SCHOOL JOINT PROGRAM IN NUCLEAR MEDICINE

COURSE OUTLINE 2008/2009

Course Title: Stress Testing for Myocardial Perfusion Imaging Practicum
& ECG Interpretation

**Course Instructor(s)
& Contact Information:** Sharmila Dorbala, M.B.B.S., Course Director
sdorbala@partners.org

David Yang, M.S.
Dyang1@partners.org

Melissa Marshall, CNMT
MMARSHALL2@BICS.BWH.HARVARD.EDU

Objective(s): This practicum session is designed to cover the basics of ECG interpretation and stress testing for JPNM trainees. After completion of this course, the residents should be able to:

1. Review basic resting and stress ECG's
2. Identify serious ST segment changes, arrhythmias and heart blocks
3. Understand the basics of exercise physiology and understand implications of pathological hemodynamic responses to exercise stress.
4. Understand the technical aspects of SPECT myocardial perfusion imaging, including image acquisition, image processing and dealing with challenging cases.

The session includes 7:00 – 8:00 AM didactic sessions followed by practical hands-on training in stress testing in the stress laboratory in a small group format.

Criteria for Successful Completion of This Course

100% attendance for all four didactic lectures as well as the full-day practicum

Lecture Location: Brigham & Women's Hospital
Shapiro Building, Floor L-2
Cardiovascular Imaging Reading Room

Course Title: Stress Testing for Myocardial Perfusion Imaging Practicum
& ECG Interpretation

Course Schedule

Time: 7:00 – 8:00 AM

Day	Date	Topic	Instructor	Reading/Assignment
Fri	12/12	Basics of Stress Testing All-day Practicum	D.Yang	This session will cover details of stress testing, , including a review of indications, contraindications, reasons for termination and selection of type of stress
Mon	12/15	Basics of Cardiac SPECT Imaging	M. Marshall	This session will cover a review of SPECT image protocols, image acquisition techniques, filters and processing
Wed	12/17	Basic ECG Interpretation I	S. Dorbala	This didactic session will cover basic ECG interpretation, systematic interpretation of rest ECG, determination of rate rhythm an axis, and will review criteria for various abnormalities
Fri	12/19	Basic ECG Interpretation II	S. Dorbala	Review of ECG tracings interactive session with residents reading ECG tracings provided to them

Additional Notes: