

## 630B Heart Station

The course is available to UC Irvine students only

**Course Description:** The Heart Station Elective at UC Irvine Medical Center should provide a learning experience in ECG reading, ability to identify acute cardiac disorders, and indications, performance and interpretation of treadmill testing including pharmacological stress echocardiograms, stress nuclear testing such as thallium and sestamibi scans, and understand the basics of cardiac interventions such as coronary angiography and EP testing.

**Department:** Department of Medicine, Division of Cardiology

**Prerequisites:** UC Irvine students must have successfully completed the basic science curriculum.

**Restrictions:** The course is available to UC Irvine students only

**Elective Director:** Jin Kyung Ki, MD, PhD, UC Irvine Medical Center, UC Irvine Department of Medicine, 333 City Boulevard West, City Tower-Suite 400, Orange, CA 92868-3298, [jkim13@uci.edu](mailto:jkim13@uci.edu)

**Instructing Faculty:** Cardiology faculty

**Course Website:** None

**Who to Report to First Day:** Ask for Lesley, Cardiology Division Coordinator or Lucy on the first day of the rotation and you will receive your course packet with instructions.

**Location to Report on First Day:** Students are requested to initially report to the Cardiology Division coordinator in UC Irvine Medical Center, UC Irvine Department of Medicine,,333 City Boulevard West, City Tower-Suite 400, Orange, CA 92868-3298,

**Time to Report on First Day:** 8:30am

**Site Coordinator:** Lesley Anderson, UC Irvine Medical Center, UC Irvine Department of Medicine, 333 City Boulevard West, City Tower-Suite 400, Orange, CA 92868-3298, (714) 456-6699, [lianders@uci.edu](mailto:lianders@uci.edu)

**Site:** UC Irvine Medical Center

**Periods Available:** Throughout the year except certain dates in November and December

**Duration:** 2 weeks

**Number of Students:** 2 maximum

**Scheduling Coordinator:** UC Irvine students please email [comsched@uci.edu](mailto:comsched@uci.edu) or call (714) 456-8462 to make a scheduling appointment.

**Course Objectives:** To broaden the student's knowledge of cardiac disorders and to develop skills in diagnosis, management, case presentations and laboratory procedures.

3/31/2016

**Key Topics:**

- ECG reading
- Ability to identify acute cardiac disorders
- Indications, performance and interpretation of treadmill testing including pharmacological stress echocardiograms
- Stress nuclear testing such as thallium and sestamibi scans,
- Understand the basics of cardiac interventions such as coronary angiography and EP testing.

**Competencies:** Trainees will demonstrate the following skills and knowledge,

- Commensurate with their level of training.
- Interpret and assess basic 12-lead ECG's, formulate differential diagnoses, and identify acute cardiac disorders such as myocardial infarction using an interactive ECG program and reading.
- Demonstrate the ability to perform basic cardiac history and physical examinations. Become familiar with the recognition and basic management of various cardiac conditions such as congestive heart failure, ischemic heart disease and valvular heart disease.
- Demonstrate the ability to interpret a basic treadmill stress test, and become familiar with other forms of noninvasive testing such as exercise stress echocardiograms, pharmacological stress echocardiograms, and stress nuclear testing such as thallium and sestamibi scans.
- Become familiar with basic cardiac intervention procedures in the cardiac catheterization laboratory and electrophysiology laboratory.

**Attitudes and Commitments:**

- Understanding the basics of cardiac interventions such as coronary angiography and EP testing.

**Educational Activities:**

- Completion of an interactive ECG interpretation module. Review of ECG tracings and self-test with faculty.
- Participate in cardiology clinic and work-up two patients per week, and become familiar with the history, physical exam and management for those patients under the supervision of the resident, fellow and attending.
- Attend echo reading sessions and procedures in the cardiac catheterization laboratories.
- Attend other scheduled conferences, see schedule.
- Participate in an interactive learning module relevant to the care of patients seen in clinic or CCU.
- Attend CCU rounds.
- Complete performance evaluations on the residents, fellows and faculty. Maintain completion records.
- Return signed end of rotation Treadmill, CCU, Clinic, Echo, Cath Lab and EP Lab, and Library Module forms before a grade can be received.

**What Students Should do to Prepare for the Rotation:** Not stated

**Clinical Responsibilities of the Student:** Not stated

**Patient Care Responsibilities:** Not stated

**Call Schedule of the Student:** Not stated

**Procedures to be Learned by the Student:** Not stated

**Percentage of Time Student will Participate in Ambulatory Setting:** Not stated

**Conference/Lecture/Small Group Sessions:**

**Course Hours Weekly Summary:** Not stated

**Content Theme Integration:** Not stated

**Recommended Reading:**

- Dubin, Rapid Interpretation of EKG's
- Jane Huff - ECG Workout
- Marriott, Practical Electrocardiology
- Ellestad, Stress Testing
- Braunwald, Heart Disease
- Oh, Echocardiography
- Grossman, Cardiac Catheterization
- Perloff, Clinical Recognition of Congenital Heart Disease
- Gleicher, Cardiac Problems in Pregnancy
- Criley, Cardiology for the House Officer (highly recommended)
- Mann, Heart Failure: A Companion to Braunwald's Heart Disease
- Hosenpud and Greenberg, Congestive Heart Failure
- Kern, The Cardiac Catheterization Handbook

**Websites of Interest:**

- [www.acc.org/education/online/ecg%](http://www.acc.org/education/online/ecg%)
- <http://sprojects.mmip.mcgill.ca/mvs>

**Official Grading Policy:** The student will receive a grade of Honors, Pass or Fail. The student's final grade will be submitted on the standard UC Irvine elective form. The student will be evaluated by attendings and residents in the areas attendance, knowledge base, clinical skills, motivation, professionalism and interpersonal skills. The student will receive feedback from on an on-going basis. If the student fails the elective a grade of "F" will be permanently recorded on his/her transcript. The student can repeat the course for a second grade, however, the "F" will not be removed from the transcript.

Any planned absences must be pre-approved by the coordinator who will discuss with the attending. We may require you to use a vacation voucher and will require make-up work of absences.

The Attending and the Non-invasive Fellow **MUST** be notified regarding any absences during the rotation