

660U Pediatric Cardiology

This rotation is not accepting international students.

All students must get prior approval for all CHOC based rotations.

This course is available to 4th year students only

Course Description: During the Pediatric Cardiology Elective students will learn the fundamental approach to evaluation of the pediatric patient with heart disease. History and physical examinations are stressed, and the student is expected to develop confidence in interpretation of all but the most complicated electrocardiograms and chest x-rays. A short introduction to Echo-Doppler studies is included, but the student is not expected to interpret these more complex studies.

Department: Pediatrics

Prerequisites: UC Irvine Students must have successfully completed their basic science course work and their third year clerkships. Extramural students must be in their last year of undergraduate medical education.

Restriction: Must be in their last year of medical education. This rotation is not accepting international students.

Elective Directors:

CHOC-UCI: Anjan Batra, MD

Millers-based rotation: Christopher Tan, M.D.

CHOC-PSF: Gira Morchi, M.D.

Please contact the following on information to report on the first day:

Frank Cruz student coordinator will contact student with further details. fcruz@uci.edu
(714)456-5650

Site: CHOC and Miller Children's Hospital

Site Coordinator: Frank Cruz fcruz@uci.edu 714-456-5650

Periods Available: Throughout the year except 12/15 - 1/2

Duration: 4 weeks

Number of Students:

Millers-based rotation: 1

CHOC-based rotation: 1-2

Scheduling Coordinator: UC Irvine students please email comsched@uci.edu or call (714) 456-8462 to make a scheduling appointment. Please read the following information carefully. Any student enrolled at a U.S. LCME medical school will use VSAS to apply. To apply please refer to this website <http://www.aamc.org/programs/vsas/>

Course Objectives: At the end of this rotation the student will be able to

- Perform history and physical exam on pediatric patients referred for cardiac evaluation.

- Develop proficiency in interpretation of chest x-rays and electrocardiograms.
- Provide consultation on all pediatric cardiology in-patients. (except those in the NICU).
- Provide patient care at the Pediatric Cardiology Clinics. At the cardiology the student will see a variety of patients including those with significant heart disease, innocent murmurs, chest pain, and a variety of other cardiac diseases. The patients will be examined, the patient's x-rays and ECG evaluated, and a discussion of the case will follow

Key Topics:

- History of patients referred for cardiac evaluation.
- Physical examination of patients referred for cardiac evaluation.
- Interpretation of electrocardiograms
- Interpretation of chest x-rays.
- Diagnosis and treatment of congestive heart failure.
- Diagnosis and management of cyanosis.
- Some experience with pediatric echocardiography.
- Observation of critically ill infants with heart disease in NICU
- Evaluation of newborn with heart murmur.

Competencies:

- Ability to have a basic understanding of managing key topics listed above.

Attitudes and Commitments:

- Dedication to delivering high quality competent cardiac care in a compassionate manner with attention to both patient and family.

Educational Activities: Miller's based rotation: Monday-Friday: 9am-5pm—rounds with attending, attendance at conferences, attendance at cardiology clinic

What Students Should do to Prepare for the Rotation: Be familiar with previous curriculum in cardiology (basic science, outpatient and inpatient pediatric cardiology) from third year pediatric clerkship - will vary from one student to another.

Clinical Responsibility of the Student: Basic evaluation of pediatric cardiac patient with close supervision from faculty.

Patient Care Responsibilities of the Student: Outpatient: Primary evaluation of outpatients followed by discussion and bedside care provisions with attending. Inpatient: Degree of responsibility of student dependent on degree of illness in patient.

Call Schedule of the Student: No call

Procedures to be Learned by the Student: Interpretation of electrocardiograms, chest x-rays and basics of echocardiography.

Percentage of Time Student will Participate in Ambulatory Setting: 50%

Conference/Lecture/Small Group Sessions: Student instruction will vary slightly by patient population during the rotation, but common cardiac problems are seen and evaluated by all students - emphasis is on the individual patient. Lecture topics include:

- Introduction to the history and physical exam
- Introduction to electrocardiograms
- Introduction to cardiac radiology
- Introduction to echocardiography
- Introduction to management of acutely ill patient

Summary of Weekly Course Hours: Total of roughly 40 hours per week of inpatient care, outpatient clinics, didactic lectures, independent reading, EKG analysis, and echo readings.

Required Reading:

- Park MK, Pediatric Cardiology for Practitioners, Year Book Medical Publishers, 2002.
- Park MK and Guntheroth WG, How to Read Pediatric ECGs. Year Book Medical Publishers, 1992.
- Harriet Lane Handbook (section on cardiology), current edition.

Recommended Reading:

- Additional references are available in the Division Office.

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 form. The student will be evaluated by attending and residents in the area of clinical performance, clinical skills, formal presentation, learning accomplishments, attendance, attitude and effort. Evaluations will be completed by the attending in consultation with faculty, residents, and staff who interacted with the resident. 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.