

660J HEMATOLOGY/ONCOLOGY MCH
660J HEMATOLOGY CHOC

This rotation does not accept international students.

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

Course Description: During this elective rotation, students will participate in the management of children with cancer and blood diseases. Students will be expected to attend ward rounds, outpatient clinics, weekly Peds Hem/Onc team meetings and tumor boards. A broad range of childhood cancers and benign blood diseases include hemophilia and sickle cell disease will be encountered. Students will be asked to complete an independent study project, on a topic relating to one of the patients they were involved with during the rotation and will be asked to present a brief seminar on ward rounds towards the end of the rotation.

Department: Pediatrics

Prerequisites: UCI Students must have completed their basic science course work and third year Pediatrics clerkship. Extramural students must be in their final year of undergraduate medical education. All students must get prior approval for all CHOC based rotations.

Restrictions: This rotation does not accept international students. You must get prior approval for all CHOC based rotations.

Elective Director:

Millers-based rotation: Amanda Termuhlen, MD, CHOC-
based rotation: Diane Nugent, MD

Who/Location/When to Report to on First Day:

Millers-based rotation: Frank Cruz Student Coordinator will contact students with further details.
fcruz@uci.edu (714)456-5650

CHOC-based rotation: Frank Cruz Student Coordinator will contact students with further details.
fcruz@uci.edu (714)456-5650

Site: CHOC and Miller's Children's Hospital, Long Beach

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

Scheduling Coordinator: UCI students please email comsched@uci.edu or call (714) 456-8462 to make a scheduling appointment. Please read the following information carefully.

Extramural students enrolled at a U.S. LCME medical school must use VSAS to apply. To apply please refer to the [Visiting Student Learning Opportunities website](#).

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

- The student will develop a good understanding of the clinical signs and symptoms of childhood cancer and blood disease, and will develop an appreciation for the physical, psychological and social impact of these illnesses on the patient, family and community.
- Basic mechanisms of blood formation and disease processes affecting bone marrow and blood cell function. Normal coagulation cascade and basic mechanisms of hemophilia and thrombophilia. Basic mechanisms leading to development of cancer, and principles of therapy for childhood malignancies.
- Students will develop a working knowledge of the clinical signs and symptoms associated with childhood cancer and blood disease, as well as a knowledge of the diagnostic tests commonly employed to screen for these diseases.
- The student will learn when to suspect cancer and blood diseases in children, what screening test to employ, and when to refer to further evaluation.
- The student will learn examination skills pertinent to the lymphatic system, liver, spleen, hematopoietic system and coagulation symptom.
- Students will learn how to relate empathically and sympathetically to patients and families dealing with these serious, and often chronic or life-threatening illnesses.

Key Topics:

- Anemia and other cytopenias
- Hemoglobinopathy, including sickle cell disease and thalassemia
- Hemophilia and thrombophilia
- Leukemia and lymphoma
- Solid tumors in childhood

Competencies:

- Evaluation of the patient with pallor and anemia
- Evaluation of the patient with bruising and bleeding
- Evaluation of the patient with adenopathy
- Evaluation of the patient with suspected malignancy.

Attitudes and Commitments:

- Compassion, empathy, professionalism, persistence and determination.
- Educational Activities:
 - Ward Rounds
 - Outpatient clinics
 - Weekly conferences
 - Tumor board
 - Independent study project

What Students Should do to Prepare for the Rotation: Review pediatric hematology and oncology in Nelson's Textbook of General Pediatrics (or equivalent textbook)

Clinical Responsibilities of the Student: The student will follow a cohort of inpatients and will see patients in clinic. There will be an opportunity to perform procedures including lumbar puncture and bone marrow aspirate and biopsies

Patient Care Responsibilities: All patient care will be supervised by hem/onc residents and attending doctors.

Call Schedule of the Student: Daily ward rounds and Mon, Wed and Thursday afternoon clinic. No weekend or on call responsibilities

Procedures to be Learned by the Student:

- Lumbar punctures
- bone marrow aspirate and biopsy

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

Conference/Lecture/Small Group Sessions: Students will participate in three small group discussion sessions

- Anemia
- Bruising/Bleeding
- Lymphadenopathy

Course Hours Summary: 50% outpatient, 50% inpatient

Content Theme Integration: None

Recommended Reading:

- Peds Hem/Onc in Nelson Textbook of Pediatrics

Official Grading Policy: The student will be graded with Honors/Pass/Fail. The standard UC Irvine elective evaluation form will be used to determine the final grade of a student. The student will be evaluated by attendings and residents in the area of clinical performance, clinical skills, formal presentation, learning accomplishments, attendance, attitude and effort. The student will be provided with midcourse feedback by the attending. 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.