

660N NEONATOLOGY

This course does not fulfill the ICU requirement for UC Irvine students
This course is available to UC Irvine students only

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

Course Description: In this four-week elective, the student acts as an intern and takes charge of patients consistent with his or her ability to accept responsibility. This is an opportunity to learn newborn resuscitation, endotracheal intubation, respiratory care techniques, and all phases of acute and critical medicine of the newborn. It is a recommended clerkship for the senior student training in pediatrics, obstetrics/gynecology, surgery, and anesthesiology.

Department: Pediatrics

Prerequisites: UC Irvine students must have completed their basic science course work and third year Pediatrics clerkship.

Restrictions: UC Irvine Students only. All students must get prior approval for all CHOC based rotations.

Elective Director:

CHOC Based Rotation: Irfan Ahamad, M.D.

UCIMC Based Rotation: Rebecca Coleman, M.D.

Instructing Faculty:

Course Website: None

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

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

Site:CHOC, UCIMC

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

Periods Available: Throughout the year

Duration: 4 weeks

Number of Students: 1

Scheduling Coordinator: UC Irvine students please call (714) 456-8462 for a scheduling appointment.

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

- Assume a high level of patient care responsibility in preparation for residency (Di)
- Demonstrate improved clinical and procedural skills (Bvi)
- Demonstrate improved ability to manage complex, acutely ill patients (Bvi)
- Demonstrate ability to work as a team member (Ci)

Key Topics:

- Parenteral and enteral nutrition
- Parental genetics
- Neonatal pharmacology

- Cardiac vs. Respiratory disease
- Neonatal shock
- Neonatal infections
- Neonatal ethics
- Developmental-sensitive care for growing preterm infants

Competencies:

- Independent management of newborn service
- Admission and stabilization
- Daily management
- Discharge planning

Attitudes and Commitments:

- Internship-like responsibilities, e.g., primary workup of new patients, writes orders, performs procedures, participates in daily care, takes night call, and writes notes.
- Assume a high level of patient care responsibility in preparation for residency.
- Strengthen their clinical and procedural skills
- Improve their ability to manage complex, acutely ill patients.
- Learn to work as a team member.

Educational Activities:

Day 1 Orientation:

Time	Activity
8:00 - 9:30	Board Rounds
9:30 - 11:30	Work Rounds
11:30 - 11:45	Meet with OT
11:45 - 12:00	Meet with Audiology
12:00 - 1:00	Noon Conference
1:15 - 1:45	Meet with Attending
1:45 - 2:00	Meet with Nursing
2:00 - 2:30	Meet with Pharmacy
2:30 - 4:30	Meet with Nutrition
4:30 - 4:45	Meet with Child Life
4:45 - 5:00	Meet with Case Manager

Daily work rounds

Weekly Pediatric Grand Rounds, Discharge planning rounds, Psychosocial rounds, Board rounds with NICU attendings and Perinatal service.

Daily sign-out rounds.

Monthly combined Perinatal - Neonatal rounds

Monthly Pathology rounds

Didactic neonatal topics 2-3 times weekly

What Students Should do to Prepare for the Rotation: Review NICU orientation packet. This can be obtained from the site coordinator if it has not been delivered to your mailbox or via email one week

prior to beginning the rotation.

Clinical Responsibilities of the Student: Neonatal sub-intern

Patient Care Responsibilities of the Student: Neonatal sub-intern

Call Schedule of the Student: 4 night calls (1 per week)

Procedures to be Learned by the Student:

- Intubation
- Ventilator management (High frequency and conventional strategies)
- Line placement (Umbilical, peripheral IV, peripheral arterial)
- Arterial stick
- Lumbar puncture

Percentage of Time Student will Participate in Ambulatory Setting: None

Standardized Instructional Material:

- Orientation Packet
- Bedside NICU Patient Rounds
- Conference/Lecture/Small Group Sessions: Lectures are 1 hour in length and given by a neonatal attending on clinical service.
- Common respiratory disorders
- RDS
- PDA
- Newborn Sepsis
- Nutrition
- Delivery room scenarios
- Perinatal asphyxia
- Meconium aspiration
- Newborn ventilation

Course Hours: Weekly Summary

	Case Based
5.0	
5.0	Computer Assisted Instruction
4.0	Conference
1.0	Grand rounds
5.0	Examinations
40.0	Inpatient
3.0	Laboratories
9.0	NICU Rounds
0-4	Other: reading, writing, journaling
72.0	Total

Content Theme Integration:

- Communication skills
- Death & Dying

- Decision Making
- Evidence Based Medicine
- Genetics & Genetics Counseling
- Health Care Systems
- Multicultural Medicine
- Technology Assessment
- Termination of Pregnancy
- Women's Health

Recommended Readings:

- Neonatology: Management, Procedures, On-Call Problems, Diseases, Drugs - Comella
- Care of the High-Risk Neonate - Fanaroff
- Fetal & Neonatal Physiology - Polin and Fox
- Neonatal Drug and Nutritional Manual - Zenk

Official Grading Policy: The standard UC Irvine elective evaluation form will be used to determine the final grade of a student. The students will be graded on a three part system Honors/Pass/Fail. Midcourse feedback will be provided to the students by the attendings. Each student will be observed and evaluated by: 1) Attending neonatology faculty, 2) Neonatal fellows, 3) Neonatal nurse practitioners, 4) NICU team members. 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.