Clerkship Title: NEONATOLOGY

Location: LAC+USC Medical Center
          WCH Room L-919

Credit Level: Selective A or Elective

Course Director: Rangasamy Ramanathan, M.D
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Length of time: 4 week selective, 3 week elective
Dates offered: year round
Number of students: 1-4 students, depending on census
Visiting students from other US medical schools? Yes
Prerequisites: Must be MS III or IV and have completed core Pediatrics Clerkship

Place and time to report on first day: WCH 4th floor NICU, 8:00 a.m.

Textbooks/Availability:
    • Newborn section of any general pediatric textbooks, i.e., Nelsons or Oski
      (available in the medical library at WCH)

Learning Objectives –
    • Goals: The goals of this elective rotation in neonatal medicine are to introduce the student to the unique physiologic and biochemical environment of the term and prematurely born newborn infant and to relate this to the pathophysiology and treatment of the disease in the newborn.

At the conclusion of the clerkship the student should be able to:
1. Describe the characteristics of the normal term newborn infant.
2. Assess the gestational age and physical characteristics of the healthy term newborn.
3. To discuss the pattern of normal fetal development and the impact of:
4. Normal labor and delivery
5. Abnormal labor and delivery, and
6. Premature delivery on development
7. To discuss transitional changes that happen at the time of delivery and during the
   immediate neonatal period.
8. To describe the pathophysiology of diseases common to the prematurely born and
term newborn infant.
9. To discuss the impact of neonatal illnesses on later development.
10. Discuss diagnostic and therapeutic procedures of neonatal care.
11. Communicate with parents or family members of the critically ill neonate and the
   psychosocial problems involved.
12. To describe opportunities in clinical research in neonatal medicine;
13. To participate in academic aspects of neonatal medicine through case
   presentation, discussion, literature search and attendance at lectures and
   conferences.
14. To describe current advances in the continual progress in the care of the neonate
   and
15. To discuss the management and ethical issues in infants at the threshold of
   viability.

Course Description:
   - Instructional methods: 40% supervised patient care
     30% attending rounds/ small group discussion
     30% lectures
   - Supervision:
     Elective Rotation: 100% faculty supervision
     Selective rotation: 50% house staff
                      20% fellows
                      30% faculty

Skills Taught:
1. Critical thinking
   a. Patient care management under supervision
2. Review of medical literature for clinical problem solving
   a. Case discussions
3. Technical/procedural skills
   a. Direct observation by fellows and house staff and/or attending faculty.

Student Performance/ Assessment:
1. How will students be informed of expectations and methods of evaluation?
   a. Expectations of rotation will be discussed with student by house staff,
      fellow or team attending at beginning of clerkship.
2. How will students be evaluated on their performance and who will write the
   evaluation?
   a. Students will be evaluated based on their daily performance by the
      resident and/or attending faculty.
3. How will students be given feedback on their performance?
   a. Students will be provided with a standard critique form at completion of
      rotation.