

PEDS 9404**Neonatal Intensive Care Unit/NICU**

Course Director	Martha Naylor, MD	
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Max Enrollment	1 per block	
Duration	4 weeks ONLY	
Meeting Time	Neonatal Unit, PCMH	
Blocks Offered	1, 2, 3, 4, 5, 6, 7, 8, 10 (4 week blocks) (not offered block 9)	

Goals Through an expansive exposure to neonatal intensive care the medical student will learn and/or reinforce many of the basic principles of pathophysiology and patient care. This is an excellent opportunity to consolidate the basics of assessment and treatment of respiratory diseases, fluids and electrolytes, nutrition, and principles of infectious disease. The student will also learn about disease processes unique to the newborn such as: perinatal depression, respiratory distress syndrome, congenital heart disease, and necrotizing enterocolitis. The student will also develop skills in collaborating with consultant staff and communicating with parents and families of critically ill infants.

Objectives The student will become familiar with the principles and practice of:

1. Neonatal resuscitation
2. Evaluation and treatment of respiratory diseases of the newborn
3. Evaluation and treatment of congenital heart disease and other congenital anomalies.
4. Management of fluid and electrolyte problems
5. Assessment of nutritional needs, and provision of both enteral and parenteral nutrition
6. Treatment of neonatal sepsis and other infections
7. Family communication and support

The student will have supervised hands-on experience with a variety of technical procedures: endotracheal intubation, umbilical artery and vein cannulation, radial artery sticks, bladder taps, lumbar puncture, and chest aspirations/chest tube insertions. The student will also attend high-risk deliveries as a member of a newborn resuscitation team.

Activities/Student Experience The medical student will function as an acting intern under the direct supervision of a neonatology fellow and a neonatology attending. The AI will be assigned his/her own patient load of 1-3 patients. In addition, the student will attend high-risk deliveries to gain experience in evaluating infants in the delivery room, and in resuscitation skills. The student will also learn procedures as available. The rotation will include night call approximately once per week. The student will be provided self-learning programs on neonatal resuscitation and stabilization. Daily radiology and teaching conferences will cover basic topics.

Evaluation

- Clinical Evaluation (knowledge, skills, case write-ups)
- Participation

Date Updated 12/12 MN