

Elective Description

Campus: Northeast (Grand Forks)

Department: Pediatrics

Elective Title: Neonatology

Course Number: PED 9302

Location of Elective: Altru Hospital – Grand Forks, ND

Preceptor(s): Durga Panda, MD

Period(s) offered: Six months/year during those months when there is no resident from the Family Practice Residency on their required rotation in the NICU.

Course prerequisites: Pediatrics Clerkship Completion

Number of students per period: Prefer one student/month.

Revised Curriculum Phase(s): 2,3

Purpose: To provide education and experience in the care of newborns.

Objectives: Following successful completion of this elective, the student will be able to:

1. Perform a physical examination and assessment of normal newborn as well as ill preterm and term newborns. *(Competency 3.1)*
2. Document patient encounters in the electronic health record. *(Competency 3.7)*
3. Demonstrate the principles of resuscitation and stabilization of the newborn. *(Competency 3.5)*
4. Generate common diagnostic and management problems of the ill newborn. *(Competency 3.2, 3.3, 3.4)*
5. Demonstrate appropriate fluid, electrolyte and nutritional management of both preterm and term infants. *(Competency 2.2, 2.4, 2.6, 3.2, 3.3, 3.4)*
6. Identify the expected complications of neonates born to mothers with high risk pregnancies. *(Competency 2.2, 2.8)*
7. Perform or assist with the common procedures encountered in the neonatal intensive care unit under appropriate attending supervision. *(Competency 3.6)*
8. Summarize in writing or orally information learned from assigned readings. *(Competency 1.3)*

Instructional Activities: During this elective, the student will be involved in/experience:

1. Daily patient rounds in which the student is responsible for forming appropriate assessment and care plans.
2. Daily discussions of specific patient problems based on the reading and instructional assignments given to the student by the preceptor
3. Attendance of c-section and high risk deliveries.
4. Common procedures performed in the setting of neonatal intensive care under the close supervision of the preceptor.
5. The calculation of enteral and parenteral nutritional requirements of the neonate.
6. Weekly core curriculum lectures.
7. A team approach (including family involvement) to the management of the ill neonate.

Criteria for Grading: During and following this elective, the preceptor will:

1. Evaluate by direct observation the quality of patient evaluations, management plans and daily notes. *(Objective 1, 2, 4, 5, 6)*
2. Evaluate by direct observation the quality of performance of the instructed procedures including resuscitation and stabilization of the newborn. *(Objective 3, 7)*
3. Evaluate by direct observation or review of written work the quality of oral and written presentations to the preceptor of assigned readings. *(Objective 8)*
4. Utilize the standardized UNDSMHS senior elective evaluation form.