

2110 Pediatric Newborn Care

Course: Pediatric Newborn Care Course Number: PED 2110

Department: Pediatrics

Faculty Coordinator: Kathryn Johnson, MD

Assistant Faculty Coordinators: N/A

UTSW Education Coordinator Contact: Anthony Lee (Anthony.Lee@UTSouthwestern.edu)

Hospital: (Location of rotation) Parkland Medical Hospital

Periods Offered: Periods 3-12

Length: 4 weeks

Max # of Students: 1 (Post Clerkship Students)

First Day Contact: Attending on Service or PNP Staff (Physician's Touchdown)

First Contact Time: 7:00am

First Day Location: Parkland APRN Office 6th Floor WISH Tower (06-446)

Prerequisites: PED 1801 Pediatric Core Clerkship

I. Course Description

Students will participate in patient care in the Newborn Nursery under the direct supervision of the faculty attending physician. Students will be able to take the neonatal resuscitation program and attend low risk deliveries. Students will be able to observe and assist mother infant dyads breastfeeding (inpatient in the newborn nursery, outpatient at the WIC lactation care center). Students will be provided with all curriculum material (in paper or digital format). Students will be required to read the prepared curriculum material and complete the self-learning modules on neonatal resuscitation and breastfeeding.

<u>Goals</u>	<u>Objectives</u>	<u>Assessment Methods</u>
<p>Patient Care: Students, together with supervising faculty, must be able to provide patient care that is compassionate, appropriate and effective for the treatment of health problems and the promotion of health.</p>	<ul style="list-style-type: none"> Gather essential and accurate information about their patients. Examples: Obtaining a complete maternal/family history, performing a physical examination on near term and term neonates, and assessing the pattern of fetal growth, nutritional status and well-being of the near term and term neonate after birth. Make informed recommendations about diagnostic and therapeutic interventions based on physical examination, laboratory data, 	<ul style="list-style-type: none"> Quality of Medical Records entries Skills evaluation from direct observation.

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	<p>best medical evidence, and clinical judgment. <i>Examples: Neonates with jaundice, sepsis.</i></p> <ul style="list-style-type: none"> • Together with the attending, communicate plan of care to parents. <i>Examples: Preparing a term neonate and family for discharge, and focusing on incorporating the family into the care of the neonate before and after discharge.</i> • Work with health care professionals, including those from other disciplines, to provide patient-focused care, develop and carry out patient management plans. <i>Examples: Obstetrics team, child life specialists, nurse practitioners, nurses.</i> • Together with the attending, develop appropriate follow up plans that optimize transition to a medical home. <i>Examples: The breastfed baby with excessive weight loss, the teenage mother with social challenges.</i> 	
<p>Medical Knowledge: Students must demonstrate knowledge about established biomedical and clinical sciences and the application of this knowledge to patient care.</p>	<ul style="list-style-type: none"> • Demonstrate an understanding of the normal transitional processes occurring at birth • Understand the principles of neonatal resuscitation and stabilization. • Understand the physiology of the breastfeeding couplet and its impact on medical management and hospital policy. • Understand the physiology of neonatal jaundice, and demonstrate the ability to recognize and appropriately evaluate pathologic jaundice. • Understand the components of and appropriate indications for use of infant formulas. • Understand the significance of cardiac murmurs and appropriate evaluation. • Recognize and appropriately evaluate signs and symptoms of neonatal sepsis. • Understand the patterns of normal fetal growth and development, and understand problems associated with 	<ul style="list-style-type: none"> • Each student is required to create a case presentation and to present it to the faculty and fellows during the rotation. It is recommended that students present an interesting case they encountered during their rotation. However, they are also permitted to present on a topic of interest that relates to pediatric course topic. • The student will be expected to prepare 1-2 short presentations during the month on topics related to the neonate and selected in conjunction with an attending physician.

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<p>Interpersonal and Communication Skills: Students must be able to demonstrate interpersonal and communication skills that result in effective information exchange to Newborn nursery team members and patient families.</p>	<p style="text-align: center;">abnormal growth patterns.</p> <ul style="list-style-type: none"> • Give clear, concise, well-organized case presentations, exchange patient information effectively with members of the team (<i>e.g., nurses, residents, and fellow</i>), work effectively with other members when indicated, and participate in rounds. • Explain complex treatments to parents without medical jargon. 	<ul style="list-style-type: none"> • Observations of faculty and staff.
<p>Practice-Based Learning and Improvement: Medical students must demonstrate the ability to investigate and evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and life-long learning. Medical students are expected to develop skills and habits to be able to meet the following goals</p>	<ul style="list-style-type: none"> • Locate and assimilate evidence from scientific studies related to their patients' health problems. Example: randomized controlled trials of therapy for GBS prophylaxis. • Use information technology to manage information, access on-line medical information; and support their education. 	<ul style="list-style-type: none"> • Each student is required to create a case presentation and to present it to the faculty and fellows during the rotation. It is recommended that students present an interesting case they encountered during their rotation. However, they are also permitted to present on a topic of interest that relates to pediatric course topic. • Critical review of a relevant article.
<p>Professionalism: Medical students must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles.</p>	<ul style="list-style-type: none"> • Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and their families that supersedes self-interest; accountability to patients and the profession, and a commitment to excellence and on-going professional development. <i>Example: Willingness to seek additional patients for evaluation.</i> • Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care and confidentiality of patient information. • Demonstrate sensitivity and responsiveness to patients' or their family's culture, age, gender and disabilities. 	<ul style="list-style-type: none"> • Observations of faculty and staff.

II. Methods of Instruction

Didactic:

- Students will be provided with a Neonatal Resuscitation Program textbook, which must be returned on the last day of the course.

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- The student will be expected to prepare 1-2 short presentations during the month on topics related to the neonate and selected in conjunction with an attending physician.
- Students will attend the following scheduled conferences (*monthly schedule will be provided during orientation*):
 - Resuscitation Conference – 1st and 3rd Monday at 12:00, Parkland location varies
 - Pediatric Grand Rounds – Wednesday at 8:00, Children’s Medical Center (Moore Auditorium)
 - Multidisciplinary Conference – Tuesday at 12:00, Children’s Medical Center (Moore Auditorium)
 - Mortality-Morbidity Conference – 2nd and 4th Thursday at 12:00, Parkland location varies (Sept-June)
 - Resident noon conferences for Parkland NBN and NICU residents as scheduled, location varies
 - Although optional, students are welcome to attend the Research Conference and Journal Club held by the Division of Neonatal-Perinatal Medicine each Friday at 8:00-9:00 in the Pediatric Conference Room, F3.116 (Sept-June) at Southwestern Medical School.

Clinical:

- Students will meet with the on service attending on the initial day of the course to discuss the rotation and expectations.
- During the month each student will spend at least 5 afternoons attending deliveries under the supervision of Nurse Practitioners, House staff and/or attending(s). This will generally be in the first week of the elective. The student will be expected to take and pass the American Academy of Pediatrics course in Neonatal Resuscitation.
- The student will be assigned patients within the term newborn nursery (NBN) for whom they will be expected to write daily notes, maintain the daily orders and perform maternal teaching in conjunction with the first-year Pediatric resident and attending physician. The student will be prepared to discuss their neonates each morning with an attending physician during patient care rounds.
- Night call will be no more often than every fourth night in conjunction with an assigned first-year Pediatric resident. Call schedule will be determined on the first day of the elective. Students will be expected to attend deliveries with the resident and participate in procedures as needed. The students are expected to be available until 8pm. There are no weekend responsibilities.

III. Overview of Student Responsibilities

Because there will be no opportunity to schedule compensatory days, excused absences are limited and must be discussed with the Course Director before starting the course. The student is expected to complete the course during the period selected.

- Night call will be every 4th night.
 - During the evenings, the students will be expected to attend deliveries with the senior resident and/or Neonatal Nurse Practitioner and participate in procedures (e.g., umbilical catheterizations, as needed).
 - The students are expected to stay in the NICU until 10 p.m. when on-call.
 - Weekend rounds begin promptly at 0900 each Saturday and Sunday.
- Students are expected to cover their patients for 3 of the 4 weekends.
 - Students will have 1 day off per week during the elective.
 - Students must notify the Fellow assigned to their team whenever they will be off, so that cross-coverage can be arranged.
 - During the afternoons prior to days off, the students will check out their patients to the resident(s) or NNP(s) who will be covering for them.

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- Before leaving each day, students will check out their patients to the on-call resident or practitioner.

Additional course details are sent to the students prior to beginning the rotation.

IV. Method of Evaluation of Students and Requirements

Pass-fail grades; there are no examinations. Evaluations of the student by the faculty will be based on achievement of the stated objectives of the course. This will be assessed by the student's preparation, fund of knowledge, participation in rounds, direct observation by faculty and participation on call.

It is mandatory that the student complete the on-line evaluation prior to release of his/her grade and evaluation.