



PEDS 602 Neonatology

Elective Description

The goal of this elective is to familiarize the student with normal and abnormal adaptation of the newborn, to recognize various clinical entities peculiar to newborns (hyaline membrane disease, congenital heart disease, meconium aspiration, syndromes, genetic diseases, etc.) and their management. *2-4 credits*

Credit: 2-4 semester credits

Prerequisites: PEDS 500

Entrustable Professional Activities

As a fourth-year student, the focus of skills development are those tasks important for entering residency training:

- Gather a history and perform a physical exam
- Prioritize a differential diagnosis following a clinical encounter
- Recommend and interpret common diagnostic and screening tests
- Enter and discuss orders and prescriptions
- Document a clinical encounter in the patient record
- Provide an oral presentation of a clinical encounter
- Form clinical questions and retrieve evidence to advance patient care
- Give or receive a patient handover to transition care responsibility
- Collaborate as a member of an inter-professional team
- Recognize a patient requiring urgent or emergent care and initiate evaluation and management
- Obtain informed consent for tests and/or procedures
- Perform general procedures of a physician
- Identify systems failures and contribute to a culture of safety and improvement

General Course Objectives

Medical Knowledge

- Review the development of the lungs, liver, immune system, and GI system and the most common presentations in a premature infant
- Review perinatal asphyxia
- Review problems of full-term babies seen in neonatal intensive care:
 - Congenital defects of development
 - Hereditary defects
 - Pneumonia, meningitis, generalized sepsis
 - Hyperbilirubinemia
 - Injuries during birth

Patient Care

- Develop an appreciation for the role of the neonatal intensive care unit in a hospital setting involved in the transport of sick infants and coordination of specialty care consultations.
- Gain experience with late preterm infants and familiarity with management of long-term complications of extremely low birth weight infants such as ROP, NEC, posthemorrhagic ventricular dilatation, cholestatic jaundice.
- Where possible, participate in the initial evaluation and stabilization of critically ill neonates or pediatric patients
- When possible, gain diagnostic skills in the assessment and treatment of neonatal problems such as respiratory distress and ventilator management, birth asphyxia, congenital anomalies, sepsis neonatorum, intraventricular hemorrhage, enteral and parenteral nutrition, nosocomial infection, chronic lung disease in the preterm infant, persistent pulmonary hypertension of the newborn
 - Demonstrate an understanding of fluid and electrolyte management of the premature, newborn screening, and long-term outcomes.
 - Demonstrate an appreciation of family centered care in the NICU, the areas of major progress in treatment in the NICU and the major obstacles in neonatal intensive care.

REQUIRED TEXTBOOKS and Other Resource Material

Kliegman, RM, BMD Stanton, J St. Geme, NF Schor. 2016. *Nelson Textbook of Pediatrics*, 20th edition, Elsevier Health Sciences Publishing. [ISBN 978-1-4557-7566-8]

Additional Material

Yamamoto L. 2015. *Case Based Pediatrics for Medical Students and Residents*, 2nd edition: <http://www.hawaii.edu/medicine/pediatrics/pedtext/>

Evaluation

The evaluation will include the entrustable professional activities. The clerkship preceptor will evaluate those relevant to this clerkship experience.

GRADES

This elective is graded Satisfactory/Unsatisfactory.

POLICIES

ACADEMIC DISHONESTY

The University holds its students to the highest standards of intellectual integrity. Therefore, the attempt of any student to pass any examination by improper means, present work which the student has not performed or aid and abet a student in any dishonest act may result in disciplinary action including immediate dismissal. Any student witnessing or observing a perceived violation of academic dishonesty is required to report it as outlined in the Guidelines. Students failing to report an observed violation may also receive disciplinary action.

ATTENDANCE POLICIES

Attendance of lectures and laboratories is based on the University's stated attendance policy. Refer to the Student handbook for more information.

CONDUCT

The University expects all students to be responsible individuals who possess the highest standards of integrity, honesty and personal conduct. These traits are prerequisites to independent learning, professional development, the successful performance of academic and clinical assignments, and the conduct of one's personal life. Accordingly, students are expected to adhere to a standard of behavior

consistent with the University's high standards at all times off and on campus. Compliance with institutional rules and regulations, in addition to city, state and federal laws, is expected.

COPYRIGHT POLICY

Trinity Medical Sciences University must respect and observe the right and privileges of copyright holders, obey the United States Copyright Act and preserve the integrity of its internal network systems. All students must sign the technology and software use policy. A copy of this policy may be obtained from the Information and Technology Department.

DRESS CODE

All students are expected to maintain the highest standards of professional appearance at all times. During years one and two and while on campus. Medical students are required to wear scrubs or white coats with appropriate dress. Appropriate dress for clinical students includes business slacks with open-collar shirt for men, and business slacks or skirt with professional shirt or sweater for women.

Trinity School of Medicine Faculty Contact Information

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