

# Resident Activities in Neonatal-Perinatal Medicine

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## 1<sup>st</sup> and 2<sup>nd</sup> Year Resident Activities

### Neonatal Intensive Care Unit (NICU) Rotation at Parkland Memorial Hospital

The overall goal and objective of the rotations for the pediatric residents in the NICU is to gain extensive experience in the recognition and care of the high-risk, low-birth-weight, preterm (<2200gm or <34wks) and term neonate who requires intensive or intermediate care, surgery, or evaluation by other pediatric specialists.

## 3<sup>rd</sup> Year Resident Activities

### Resuscitation Rotation at Parkland Memorial Hospital

This 4-week rotation is taken by PL3 residents. The goal of the rotation is to enhance the principles of stabilization at birth, assessment in the delivery room, use and assignment of Apgar Scores, and when and how to initiate measures necessary to maintain respiration, heart rate and "adequate" oxygenation (resuscitation). Each trainee will be certified in neonatal resuscitation program from the American Academy of Pediatrics and American Heart Association (NRP). Each Trainee will assist in the consultation of high-risk pregnancies and assist in the admission of neonates to the NICU and their stabilization.

## Elective Rotations

### Children's [Neonatal Intensive Care Unit](#) Rotation

The overall goal and objective of the rotations for the pediatric residents in the Neonatal Intensive Care Nursery at Children's Medical Center is to gain extensive experience in the recognition and care of the high-risk, low-birth-weight, preterm (<37 wks) and term neonate who requires transfer to a referral center or admission to the neonatal intensive care unit for intensive or acute care, surgery or other intervention, or evaluation by other pediatric specialists. Since the CMC NICU is a referral center, many patients admitted to that NICU have higher complexity than those admitted to a NICU with predominantly inborn patients. Therefore, this elective rotation is open to residents in the program at Children's Medical Center and to external rotators after they have completed their basic 2nd year NICU rotation. The evaluation form is the same as that for the NICU rotation at Parkland Memorial Hospital"

### Parkland [Labor and Delivery](#) Rotation

This 4-week elective rotation is offered to PL3 residents after completion of PL-3 NICU rotation. The goal of the rotation is to enhance the principles of stabilization at birth, assessment in the delivery room, use and assignment of APGAR Scores, and when and how to initiate measures necessary to maintain respiration, heart rate and "adequate" oxygenation (resuscitation). Each trainee will be certified in neonatal resuscitation program from the American Academy of Pediatrics and American Heart Association (NRP) as an Instructor and will use these skills during the month as well as teach them to medical students rotating through the NICU. Each Trainee will assist in the consultation of high-risk pregnancies and assist in the admission of neonates to the NICU and their stabilization. Each trainee will present a teaching case at the two quality assurance resuscitation conferences during the rotation."

### Children's [Low Birth Weight Clinic](#)

- Provides primary care to 90% of extremely low birth weight infants born at Parkland Memorial Hospital up to 3 years as needed.
- Is involved routinely with national studies regarding premature infants and their future development.

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- A unique clinic in the state that provides comprehensive primary care specifically to very low birth weight infants.
- Provides formalized developmental testing as part of a patient's treatment plan.

The goals and objectives of this rotation include the following:

- Learn how impact of neonatal morbidities and interventions is tracked over time from clinical and research perspectives
- Become familiar with spectrum of evolving variations from normal development in high-risk infants and with the tools used to assess/diagnose such; develop understanding of issues/controversies in administering, interpreting, reporting
- Acquire appreciation of ongoing growth, nutritional, and feeding issues of ELBW infants, including social FTT, oral aversion, GERD, short bowel.
- Observe course/management of chronic lung disease (BPD)
- Gain insight into psychosocial impact of prematurity, emerging morbidities, chronic illness on families, as well as impact of psychosocial and environmental factors on child's course/outcome.
- Learn how a multidisciplinary team interacts internally and interfaces externally with community services to address medical, developmental, and psychosocial issues/needs

The focus of the rotation is outlined below (allowing for extension into other weeks according to availability of illustrative patient cases):

- A. First two days: Introduction/Orientation
- B. First week: Development Screening/Assessment
- C. Second week: Neuromotor Assessment
- D. Third Week: Psychosocial Assessment
- E. Fourth Week: Chronic Diseases & Growth/Nutrition

## **Parkland [Newborn Nursery](#) Rotation**

The Newborn Nursery (NBN) at Parkland Memorial Hospital offers a 2-4 week elective for Residents who have completed their required month in the NBN. This elective may be tailored to the Resident's needs, and may include any of the following:

- Complete care of the term and near-term newborn from delivery through discharge, including anticipatory guidance for the parent
- Assessment and management of the breastfeeding couplet
- Early follow-up care of the infant with common problems such as weight loss, jaundice, and breastfeeding issues
- Care of Level 2 patients (those with pneumonia and other transient respiratory problems, illicit drug exposure, hypoglycemia)
- Neonatal resuscitation experience in the Delivery Room
- Interactive teaching of the 3<sup>rd</sup> year medical students
- The complete circumcision process
- Option to combine this rotation with an outpatient experience (e.g., Genetics Clinic, Low Birth Weight Clinic, etc.)"

## **Research Rotation**

- To set up an elective research rotation, contact your mentor in advance to schedule the rotation and to set up its goals and objectives.
- Plan ahead to obtain necessary training, accreditation or certification (e.g., UTSW, IRB; Parkland Memorial Hospital, Children's Medical Center, or Animal Institute).