

Neonatal-Perinatal Medicine Residency Program

Maternal-Fetal-Medicine Rotation

Competency Based Goals and Objectives

All residents in neonatal/perinatal medicine are expected to spend a one block rotation in the Maternal-Fetal-Medicine Clinic sometime during their 3 years of training. During this rotation they will learn how to identify and follow high-risk pregnancies. The residents will develop an understanding of the studies available to determine fetal well being and maturation. They will learn the relationship between maternal illnesses and their impact on the fetus.

1. Patient Care

- Resident will gather essential and accurate information about patients in the Maternal-Fetal-Medicine Clinic through record review, history taking, physical examination, and interpretation of pertinent test results.
- Resident will develop an understanding regarding when to initiate and/or discontinue consults, services, and therapies based on clinical information and evidence-based clinical judgment, and family preferences.
- Resident will develop an understanding about when a high-risk mom may benefit from inpatient treatment.
- Resident will counsel and educate patients in a caring and respectful manner

2. Medical Knowledge

- Resident will develop an understanding of the risk, etiologic and prognostic factors for a wide range of medical problems experienced by high risk pregnancies such as diabetes, hypertension, thyroid disease, connective tissue disorders, asthma, or chronic renal dysfunction, etc.
- Resident will develop an understanding of the management of viral and bacterial infections (TORCH infections, acute pyelonephritis, varicella, GBS, HIV, etc.) during pregnancy.
- Resident will learn about the utility and limitation so first and second trimester genetic and structural defect screening methods: nuchal translucency, serum markers, CVS, amniocentesis and ultrasound
- Resident will demonstrate the ability to counsel patients about the age-related risk of aneuploidy and the risk of other genetic defects such as cystic fibrosis.
- Resident will develop an understanding of methods (ultrasound, LMP) used to estimate gestational age and their limitations.
- Resident will develop an understanding of the indications for cordocentesis and intrauterine transfusion.

- Resident will develop an understanding of the interpretation and limitations of standard measurements of fetal growth and weight estimation by ultrasound.
- Resident will develop an understanding about the interpretation and limitations of the biophysical profile.
- Resident will develop an understanding about the management of women with preterm labor, preeclampsia, multiple gestation, intrauterine growth restriction and prolonged premature preterm rupture of membranes and which of these high-risk moms may benefit from inpatient treatment.
- Resident will develop an understanding of antepartum fetal surveillance techniques to include the indications and interpretations of non-stress tests, contraction stress test, amniotic fluid assessment, and biophysical profile.

3. Practice-Based Learning and Improvement

- Resident will identify gaps in his/her own knowledge based on his/her experience in the Maternal-Fetal-Medicine clinic, introspection and feedback
- Resident will develop expertise in where to locate, and how to critically review and assimilate evidence from scientific literature to fill these knowledge gaps
- Resident will use this evidence to guide his/her practice and improve patient management
- Resident will seek and accept feedback with a goal of individual improvement
- Resident will provide feedback with a goal of system improvement

4. Interpersonal and Communication Skills

- Resident will begin to develop skills that result in effective, compassionate information exchange and collaboration with patients and their families, thus creating a therapeutic relationship
- Resident will develop appropriate listening skills and use of nonverbal communication while both eliciting and providing information
- Resident will develop expertise in the effective communication of medical information in an accurate and timely fashion with other members of a multidisciplinary health care team using oral presentation, dictation and/or written records
- Resident will begin to work with the health care team, including health care professionals from other disciplines, to provide patient focused care and to develop and implement patient management plans

5. Professionalism

- Resident will demonstrate respect, compassion and integrity in his/her interactions with patients, families, staff, faculty, and peers
- Resident will be sensitive and responsive to patients' and their families' needs
- Resident will demonstrate sensitivity to a diverse patient population and responsiveness to age, gender, cultural differences, and disability

- Resident will demonstrate a commitment to ethical principles pertaining to the provision or withholding of clinical care
- Resident will maintain confidentiality of patient information in accordance with HIPPA standards.

6. Systems-Based Practice

- Resident will provide timely consultation to primary care and specialty physicians
- Resident will develop expertise in the interconnectedness and dependence of multidisciplinary services in the management of high-risk pregnancies.
- Resident will develop an understanding of the impact of placing a high-risk pregnancy mom on the inpatient service including financial, psychosocial, and interpersonal issues.