

Cardiology Rotation Goals and Objectives

Goals

- To facilitate the exposure and education of the neonatal fellow to the spectrum of congenital heart diseases that manifest in the fetus and the newborn
- To enable neonatal fellows to diagnose and treat congenital heart diseases, with conscientious regard for the possible and probable outcomes of various interventions
- To ensure that neonatal fellows develop proficiency in the physical signs and symptoms of congenital and secondary heart disease in infancy.

Educational Objectives

Patient care

- Develop an effective written and oral consultation for the neonate with real or imagined cardiac components to neonatal clinical course
- Demonstrate proficiency in analyzing and communicating results of diagnostic and laboratory testing, including fetal and neonatal echo, EKG, CXR, etc.
- Conduct routine cardiology consults, effectively communicating a diagnosis and treatment recommendations to the primary medical team
- Communicate effectively with patients and their families, demonstrating caring and respectful behaviors
- Manage neonates undergoing surgical treatment for congenital heart diseases in the first year of life, including pre-operative evaluation, presence in the operating room, post-operative management in the ICU and discharge planning.
- Participate in pediatric catheterizations and learns interpretation of data obtained

Medical knowledge

- Demonstrate a thorough understanding of clinical and basic science knowledge, specifically concerning:
 - Anatomy, embryology, physiology and Hemodynamics in normal heart and congenital heart diseases
 - ECMO, Electrophysiology, Electrocardiography and Echocardiography
 - Use and Pharmacology of medication commonly used for cardiac patients (i.e., dopamine, dobutamine, digoxin, adenosine, etc.)

Practice-based learning and Improvement

- Successfully queries UIC Medical Center neonatal database regarding incident, management and outcome of congenital heart diseases
- Succinctly summarize the current clinical literature on same topic, relating it back to the patients
- Participate, present and/or discusses topics relevant to the patients in weekly cardio-surgery conference

Professionalism

- Interact appropriately with cardiology team, primary medical team, and ancillary staff
- Handle cardiology consult in timely manner with respect, compassion, and sensitivity to multicultural, gender, and disability-related issues
- Demonstrate ability to teach and educate pediatrics and medical students in correlation with cardiac patients

Interpersonal and Communication Skills

- Communicate effectively with the cardiac patients and their family, primary team, nursing staffs and ancillary staff

Systems-based Practice

- Become familiar with consult, medical practice and delivery system, understanding of the Perinatal network concept and its strengths and limitations in the region and comparisons to other regional networks
- Advocate for quality cardiac patient care and assist the patients and their family in dealing with system complexities
- Develop skills in the practice of collaborative patient care for the cardiac patient among the primary medical team, pediatric cardiology and surgical team.