

CARDIOLOGY SELECTIVE

The Cardiology Selective is open to residents at all levels. The resident will be exposed to a wide variety of children with suspected or confirmed congenital heart disease. He/she will participate in hospital rounds and consults when instructed to do so, but will focus on the evaluation of the child in the outpatient setting. Residents are required to attend and be active participants in all required clinics. There are no weekend or call responsibilities. The resident will maintain their continuity clinic during this selective.

Goals, Objectives and Resident Responsibilities of the Cardiology Selective:

Patient Care: Residents are expected to provide patient care that is compassionate, appropriate and effective for the promotion of health, prevention of illness, treatment of disease. To that end, the residents will

- Gather accurate, essential information from all sources, including medical interviews, physical examinations, medical records and diagnostic/therapeutic procedures as they contribute to the cardiac evaluation
- Make informed recommendations about preventive, diagnostic and therapeutic options and interventions that are based on clinical judgment, scientific evidence, and patient preference
- Develop, negotiate and implement effective patient management plans and integration of patient care
- Learn to obtain a pertinent history and perform a physical examination of the child with suspected cardiac disease

Medical Knowledge: Residents are expected to demonstrate knowledge of established and evolving biomedical, clinical and social sciences, and the application of their knowledge to the care of patients with cardiac disease. He/she will apply an open-minded, analytical approach to acquiring new knowledge, access and critically evaluate current medical information and scientific evidence and apply this knowledge to clinical problem-solving, clinical decision-making, and critical thinking. Specifically, the resident should

- Improve familiarity with the common surgical approaches to repair congenital heart disease
- Improve knowledge of cardiac involvement in systemic diseases
- Improve skills at electrocardiogram interpretation
- Learn to interpret data obtained during cardiac catheterization
- Learn the initial management and stabilization of infants born with congenital heart disease
- Learn a logical approach to the evaluation and management of children with cardiac disease
- Learn the medical management of congestive heart failure
- Be prepared to discuss the following topics.:

Cardiogenic shock
Coarctation of the aorta
Congestive heart failure

Cyanotic congenital heart disease
Hypoplastic left heart syndrome
Hypoplastic right heart syndroms
The “innocent” murmur
Patent ductus arteriosus
Post pericardiotomy syndrome
Pulmonary hypertension
Septal defects
Valvular heart disease

Practice-Based Learning and Improvement: Residents are expected to be able to use scientific evidence and methods to investigate, evaluate, and improve patient care practices, and

- Identify areas for improvement and implement strategies to enhance knowledge, skills, attitudes and processes of care
- Analyze and evaluate practice experiences and implement strategies to continually improve the quality of patient practice
- Develop and maintain a willingness to learn from errors and use errors to improve the system or processes of care
- Use information technology or other available methodologies to access and manage information, support patient care decisions and enhance both patient and physician education

Interpersonal and Communication Skills: Residents are expected to demonstrate interpersonal and communication skills that enable them to establish and maintain professional relationships with patients, families, and other members of health care teams, and

- Learn to provide effective and professional consultation to other physicians and health care professionals and sustain therapeutic and ethically sound professional relationships with patients, their families, and colleagues
- Use effective listening, nonverbal, questioning, and narrative skills to communicate with patients and families
- Interact with referring physicians in a respectful, appropriate manner
- Maintain comprehensive, timely, and legible medical records
- Complete evaluations of the attending, staff and rotation

Professionalism: Residents are expected to demonstrate behaviors that reflect a commitment to continuous professional development, ethical practice, an understanding and sensitivity to diversity and a responsible attitude toward their patients, their profession and society. They should always

- Demonstrate respect, compassion, integrity, and altruism in relationships with patients, families, and colleagues
- Demonstrate sensitivity and responsiveness to the gender, age, culture, religion, sexual preference, socioeconomic status, beliefs, behaviors and disabilities of patients and professional colleagues
- Adhere to principles of confidentiality, scientific/academic integrity, and informed consent

Systems-Based Practice: Residents are expected to demonstrate both an understanding of the contexts and systems in which health care is provided, and the ability to apply this knowledge to improve and optimize health care, and

- Understand the limitations and opportunities inherent in various practice types and delivery systems, and develop strategies to optimize care for the individual patient
- Apply evidence-based, cost-conscious strategies to prevention, diagnosis and disease management
- Collaborate with other members of the health care team to assist patients in dealing effectively with complex systems and to improve systematic processes of care