

The pediatric resident should complete the following objectives by the end of a cardiology rotation. The rotation involves both ambulatory and inpatient consult service. An evaluation of resident performance will be performed at the end of the rotation based upon the following objectives.

MEDICAL EXPERT

The resident should demonstrate knowledge of:

1. The different patterns of presentation of cardiac disease in childhood
2. Specific history, physical examination, ancillary tests and their value in the discrimination of innocent and pathologic cardiac murmurs, syncope and chest pain of cardiac versus non-cardiac causes.
3. The anatomy, hemodynamics of the normal heart and common congenital (cyanotic and acyanotic) and acquired pediatric heart disease including atrial septal defect, ventricular septal defect, patent ductus arteriosus, tetrad of Fallot, aortic stenosis, pulmonary stenosis and cardiomyopathy.
4. The incidence and recurrence risk of congenital heart disease
5. Relevant understanding of the fetal circulation and its roles in the presentation of newborn congenital heart disease
6. The goals of treatment in the patient with congestive heart failure due to left to right shunts and cardiomyopathy
7. Goals and principles in the nutrition of the patient with congestive heart failure
8. Goals and principles in the treatment of common cyanotic heart malformations
9. The indications, benefits, side effects and contraindications for commonly used cardiovascular medications including prostaglandins, indomethacin, beta blockers, adenosine, furosemide, captopril and digoxin
10. Basic interpretation of electrocardiograms for all age groups, chest x-rays including situs, heart size, chamber enlargement and pulmonary vascularity. Value and limitations of common cardiac ancillary tests (EKG, CXR and echocardiography, Holter monitoring) in the diagnosis and management of cardiac disease
11. Differentiating between sinus and non-sinus rhythm, narrow and wide complex tachyarrhythmia. Heart block.

COMMUNICATOR

1. The resident should master the art of referral. Should demonstrate ability to communicate effectively with patients, families and other health professionals. This includes both verbal and written communication.

COLLABORATOR

The resident should demonstrate:

1. The ability to work effectively with other members of the health care team.
2. The ability to practice cost-effective and evidence-based medicine. For example, the resident should know the indications, limitations, benefits, costs and hazards of electrocardiogram, chest x-ray, echocardiogram and Holter monitoring and integrate the knowledge into the development of optimal referral skills.

HEALTH ADVOCATE

The resident should demonstrate ability to identify and focus on health advocacy issues during patient care.

SCHOLAR

The resident should demonstrate initiative and intellectual curiosity including critical appraisal of the literature and education of patients, families and other health professionals.

PROFESSIONAL

1. The resident should demonstrate professional behaviour including appropriate skills and knowledge.
2. The resident should demonstrate knowledge and practice of medical ethics. This includes respecting patient confidentiality and respecting individuality (awareness of race, gender and cultural differences).