

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 and physical examination and interpretation of these findings for common cardiovascular presentations including murmur, syncope, palpitations, arrhythmias, chest pain and Kawasaki disease.
3. Discriminating between innocent and pathologic cardiac murmurs, syncope and chest pain of cardiac versus non-cardiac causes.
4. 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.
5. Sinus and non-sinus rhythm, narrow and wide complex tachyarrhythmia
6. Relevant details of the fetal circulation and its roles in the presentation of newborn congenital heart disease.
7. The incidence and recurrence risk of congenital heart disease.
8. The goals and principles of management of the patient with congestive heart failure due to left to right shunts and cardiomyopathy.
9. 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 and interpretation of chest x-rays including situs, heart size, chamber enlargement and pulmonary vascularity.

COMMUNICATOR

1. The resident should demonstrate ability to communicate effectively with patients, families and other health professionals. This includes both verbal and written communication.
2. Clear and focused charting of problem, impression, plan with supporting evidence

COLLABORATOR

1. The resident should demonstrate ability to work effectively members of the health care team.
2. Ability to refer and triage appropriately children suspected of cardiac conditions

MANAGER

1. The resident should demonstrate ability to practice cost-effective medicine. For example, the resident should know the indications, limitations, benefits, and hazards of electrocardiogram, chest x-ray, echocardiogram, interventional catheterization, CT scan, exercise test and Holter monitor.

HEALTH ADVOCATE

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

SCHOLAR

1. The resident should demonstrate initiative and intellectual curiosity including critical appraisal of the literature and education of patients, families and other health professionals.
2. Present at Heart-to-Heart rounds

PROFESSIONAL

1. The resident should demonstrate professional behaviour including appropriate skills and knowledge.
2. Understanding of the ethical dilemmas of managing seriously complex congestive heart disease.