

Pediatric Cardiology Residency Elective Extramural Rotation Long Island Jewish/Schneider Children's Hospital

Curriculum for PL2 or PL3 Pediatric Residents

Competency: *Medical Knowledge and Patient Management*

1. How to manage common cardiovascular conditions:
 - ? Peripheral pulmonic stenosis
 - ? Tachycardia secondary to fever
 - ? Functional Heart murmurs
 - ? Small VSD
 - ? Small PDA
2. Be able to differentiate between pathologic and innocent heart murmurs.
3. Know when to make appropriate referrals to a pediatric cardiologist.
 - ? Cyanosis
 - ? Severe Hypertension
 - ? Arrhythmias such as Wolff-Parkinson-White, SVT, Atrial Fib/Flutter
 - ? Congestive Heart Failure
4. Recognize the physical findings, pathophysiology, treatment and prognosis for congenital heart lesions Such as:
 - ? VSD
 - ? ASD
 - ? Tetralogy of Fallot
 - ? PDA
 - ? Coarctation of Aorta
 - ? Transposition of Great vessels
 - ? Aortic Stenosis
 - ? Pulmonic Stenosis
 - ? Mitral Valve prolapse
 - ? Total anomalous pulmonary venous return
5. Understand the physiology, indications and contraindications of common cardiovascular medications.
6. Understand the indications for and the interpretation of Cardiology diagnostic tests such as
 - ? EKG
 - ? Echocardiographs
 - ? Cardiac catheterization
 - ? Holter monitor
 - ? And Myocardial imaging technique
 - ? Cardiopulmonary exercise testing
7. Develop familiarity with surgical and transvascular interventional approach to correcting congenital and acquired heart lesions
 - ? Interventional catheterization
 - ✍ Electrophysiologic testing and ablation
 - ✍ Transcatheter PDA closure

✍ Transcatheter ASD and VSD closure

- ? Shunt placement
- ? Open heart surgery with and without cardiopulmonary bypass
- ? Closed heart surgery
- ? Post-operative management

Competency: *Practice-based Learning and Improvement*

- ? Consult current literature to review evidence for management approach to pediatric cardiac disease
- ? Participate in performance improvement review activities

Competency: *Systems-based practice*

- ? Become familiar with resources available for the care and management of patients with cardiac disease or chronic, debilitating and life-threatening conditions.
- ? Participate in multi-disciplinary patient/case management conferences and become aware of the role of different specialists on the healthcare team including nurses, nutritionists, social workers, primary care physicians, specialist physicians, surgeons, physical and occupational therapists, etc.

Competency: *Interpersonal/Communication Skills and Professionalism*

- ? Interact with families and patients with chronic and life-threatening conditions
- ? Become familiar with methods of delivering bad-news
- ? Demonstrate appropriate concern, empathy and understanding for patients with chronic, debilitating and life-threatening conditions