



THE UNIVERSITY OF BRITISH COLUMBIA

Pediatric Critical Care Medicine Postgraduate Training Program

ELECTIVE SPECIFIC OBJECTIVES AND COMPETENCIES FOR: *CARDIOLOGY*

Terminal Competencies:

The competent pediatric critical care resident/fellow will demonstrate their ability to:

1. The anatomy, hemodynamics and electrophysiology of the normal heart and the common congenital and acquired pediatric heart diseases.
2. Pre- and post-operative needs of the pediatric cardiac patient, and long-term complications.

Enabling Competencies:

1. Record and interpret an ECG in all age groups
2. Interpret a chest x-ray with respect to heart size, contour and pulmonary vascularity.
3. Learn basic principles of echocardiography and be able to perform a basic Echo, to look at function and pericardial fluid accumulation.
4. Know the indications for, limitations, benefits, costs and hazards of:
 - a) ECG
 - b) Chest x-ray
 - c) Echocardiogram and doppler
 - d) Diagnostic and interventional cardiac catheterization and angiography
 - e) Radionuclide studies
 - f) Exercise ECG
 - g) Holter monitor
5. Know the common cardiac medications used in the treatment of heart disease: indication, contraindications and complications.
6. Develop examination skills for assessment of the cardiac status of clinic and ward patients
7. Learn the basic principles of cardiac catheterization and assist during a minimum of 4 procedures.
8. Develop an understanding of the long term management of the common cardiac abnormalities

9. Develop an understanding of the more common forms of pediatric cardiac conditions:
 - a. Common forms of cyanotic and acyanotic congenital heart disease
 - b. Cardiac murmurs
 - c. Syncope
 - d. Chest Pain
 - e. Endocarditis, myocarditis, cardiomyopathy and pericarditis
 - f. Kawasaki disease
 - g. Congestive heart failure
 - h. Cardiac arrhythmia
 - i. Cor Pulmonale
 - j. Rheumatic fever

Reviewed January 2013