

Course:	<u>Pediatric Cardiology</u>	<u>PED 1203</u>
Department:		Pediatrics
Course:		Cardiology (12-03)
Faculty Coordinator:		Edgar Newfeld, M.D.
Hospital:		Children's Medical Center
Periods offered:		All
Length:		4 weeks
Max no. of students:		2
Fax:		214/456-6154
First Day Contact:		Clinic Attending – 214/456-2333
First Day Time:		8:30 a.m.
First Day Place:		CMC, Cardiology Conf Room B337
Prerequisites:		3 rd year Pediatric Clerkship

I. Course Description:

Students will perform outpatient evaluations on infants and children referred to the pediatric cardiology clinic at Children's Medical Center under the direct supervision of faculty attending pediatric cardiologist. In addition, they will read the prepared curriculum material and standard textbooks, will view the computerized self-learning material, interpret electrocardiograms and attend scheduled clinical conferences.

II. Course Goals:

Patient Care

Objectives: Students are expected to

- Gather essential and accurate information about their patient's history.
- Perform focused physical examination being able to recognize signs of congestive heart failure, cyanosis and abnormal cardiovascular physical findings; should be able to differentiate between a functional and organic heart murmur, and be able to recognize typical murmurs of common congenital and acquired heart disease.
- Should be able to interpret chest roentgenogram to recognize cardiac enlargement and abnormal pulmonary markings.
- Be able to interpret electrocardiographic tracings in reference to rhythm abnormalities, abnormal axes and cardiac hypertrophy and strain.
- Be able to interpret hemodynamic findings on a cardiac catheterization report.
- Locate sites and the magnitude of shunting lesions, recognize the presence of pulmonary hypertension valvar obstructions and myocardial dysfunction.

Medical Knowledge

Objectives: Students are expected to

- Demonstrate critical thinking in correlating cardiovascular pathophysiology with patient's physical and laboratory findings.
- Develop an understanding of the natural history of congenital heart disease and the indications for cardiac surgery or catheter intervention.

Interpersonal and Communication Skills

Objectives: Students are expected to

- Use effective questioning and listening skills to develop an understanding of the patient's coping abilities to the medical situation.
- Work effectively with other members of the healthcare team.

Professionalism

Objectives: Students are expected to

- Demonstrate compassion and responsiveness to the needs of patients.
- Demonstrate sensitivity to the patient's culture, age and disability.
- Demonstrate a commitment to ethical principles pertaining to confidentiality of patient information.

III. **Methods of Instruction:**

A) **Didactic**

- Monday 7:30 am, cardiac catheterization review conference
- Monday 9:00 am, multidisciplinary inpatient progress conference
- Thursday 7:30 am, pediatric research/clinical conference
- Thursday 5:00 pm, cardiac surgery preview conference

B) **Clinical**

- Attend pediatric cardiology outpatient consultations. The students see the patients and their family prior to the attending physician and performs histories, physical examination and interpretation of laboratory tests in preparation for presenting the case.
- Preventive cardiology clinic – the student observes the multidisciplinary approach with hyperlipidemic families learning techniques for preventive medicine.

C) **Schedule** (see attachment)

IV. **Method of evaluation of students:**

Pass-fail grades are assigned based on observation by faculty attending of the student's performance working with patients the last week of the rotation. Achievement of the specified goals is based on this operational definition.