FOURTH YEAR ELECTIVE TITLE

PEDIATRIC CARDIOLOGY

COURSE NUMBER
PEDS 9040

LOCATION
ROBERT WOOD JOHNSON UNIVERSITY HOSPITAL

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BLOCKS AVAILABLE
ALL

DURATION/WEEKS
MIN 2; MAX 4

HOURS PER WEEK
40

STUDENTS
MAX 1

LECTURES/SEMINARS
YES

OUTPATIENT
YES

INPATIENT
YES

HOUSESTAFF
YES

NIGHT CALL
NO

WEEKENDS
NO

LAB
NO

EXAM REQUIRED
NO

OVERALL EDUCATIONAL GOAL OF ELECTIVE
Expose interested students to subspecialty of Pediatric Cardiology

OBJECTIVES

I. Patient care -
   Recognize pertinent findings from a focused cardiovascular history and physical exam
   Recognize the various treatment modalities for acquired and congenital cardiac pathology in pediatric patients
   Recognize the roles and risks of cardiovascular testing modalities: ECG, Holter monitoring, arrhythmia event monitoring, exercise stress testing, intracardiac electrophysiologic testing, diagnostic cardiac catheterization, cardiac MRI, cardiac CT

II. Medical knowledge -
   Learn basics of cardiac physical examination
   Learn basics of pediatric ECG interpretations
   Learn concepts of cardiovascular hemodynamics
   Gain exposure to pediatric and fetal echocardiography
   Learn about congenital and acquired cardiac pathology in pediatric patients
   Learn about common interventional cardiac catheterization procedures for congenital heart lesions
   Learn about common surgical interventions for congenital heart lesions
   Learn about the typical post-operative course and potential complications of pediatric cardiothoracic surgery

III. Practice-based learning and improvement -
   Learn to distinguish innocent murmurs from potentially pathologic murmurs
   Recognize different arrhythmias and conduction abnormalities, as well as their respective risks and therapies
   Be able to determine what, if any, testing is warranted in the work-up of a pediatric patient with complaints regarding the cardiovascular system
During patient presentations with the attending cardiologist, the student will be encouraged to try to synthesize medical knowledge, patient history, and exam findings to develop a potential plan for further work-up and/or intervention.

IV. Interpersonal and communication skills -
- Demonstrates appropriate interpersonal skills
- Be able to effectively communicate a cardiovascular history and pertinent exam findings when presenting a patient to a pediatric cardiologist

V. Professionalism -
- Demonstrate sensitivity to diversity
- Maintain professionalism when interacting with patients, families, and the office faculty and staff

VI. Systems-based Practice -
- Recognize when a referral is warranted for a pediatric cardiology consultation with regards to murmurs, chest pain, palpitations, and syncope

**BRIEF DESCRIPTION OF ACTIVITIES**
The student’s major focus of education will be on outpatient assessment and care. The student will have daily contact with office patients and gain experience with the cardiac physical exam, interpretation of lab data, and discussion of treatment and prognosis. If applicable, the student may also participate in daily rounds of inpatients and inpatient consults. The student will also attend lectures and case conferences pertaining to pediatric and fetal cardiac medicine.

**METHOD OF STUDENT EVALUATION**
Observation and daily contact by attending cardiologist

**ARE THERE ANY PREREQUISITES FOR THIS ELECTIVE?** No

**IS THIS ELECTIVE AVAILABLE TO THIRD YEAR MEDICAL STUDENTS AS WELL?** Yes