

<b>FOURTH YEAR ELECTIVE TITLE</b>  <b>PEDIATRIC CARDIOLOGY</b>		<b>COURSE NUMBER</b>  PEDS 9040	<b>LOCATION</b>  ROBERT WOOD JOHNSON UNIVERSITY HOSPITAL
<b>ELECTIVE DIRECTOR</b>  Benjamin Lentzner, MD <b>Email</b>  lentzbj@rwjms.rutgers.edu	<b>ELECTIVE FACULTY</b>  JOSEPH GAFFNEY, MD BENJAMIN LENTZNER, MD ROBERT MANDULEY, MD SHARON WEINBERGER, MD	<b>ELECTIVE CONTACT</b>  Ann Marie McCann CLINICAL ACADEMIC BLDG. SUITE 6100 NEW BRUNSWICK	<b>CONTACT PHONE/FAX/EMAIL</b>  PH. 732-235-6199 FAX 732-235-7932 <a href="mailto:mccannan@rutgers.edu">mccannan@rutgers.edu</a>
<b>BLOCKS AVAILABLE</b>  ALL	<b>DURATION/WEEKS</b>  MIN 2; MAX 4	<b>HOURS PER WEEK</b>  40	<b>STUDENTS</b>  MAX 1
<b>LECTURES/SEMINARS</b>  YES	<b>OUTPATIENT</b>  YES	<b>INPATIENT</b>  YES	<b>HOUSESTAFF</b>  YES
<b>NIGHT CALL</b>  NO	<b>WEEKENDS</b>  NO	<b>LAB</b>  NO	<b>EXAM REQUIRED</b>  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