

## DEPARTMENT OF PEDIATRICS

Medical Center of Central Georgia  
777 Hemlock Street  
Macon, Georgia 31208  
478-633-7500

Memorial University Medical Center  
4700 Waters Avenue  
Savannah, Georgia 31404  
912-350-7847

<b>Course Number</b>	<b>Course Name</b>
<b>PED.M01 PED.S01</b>	<b>Pediatric Sub-Internship</b>
<b>PED.M02 PED.S02</b>	<b>Pediatric Hematology-Oncology</b>
<b>PED.M03</b>	<b>Neonatology</b>
<b>PED.M04 PED.S04</b>	<b>Ambulatory Care Pediatrics</b>
<b>PED.M05 PED.S05</b>	<b>Child Development/Behavioral Pediatrics</b>
<b>PED.M06 PED.S06</b>	<b>Pediatric Specialty</b>
<b>PED.M07 PED.S07</b>	<b>Pediatric Cardiology</b>
<b>PED.M08 PED.S08</b>	<b>Pediatric Critical Care</b>
<b>PED.S09</b>	<b>Child Advocacy</b>
<b>PED.S10</b>	<b>Pediatric Endocrinology</b>
<b>PICU.M300 PICU.S300</b>	<b>Pediatric Critical Care/Intensive Care</b>
<b>NICU.M400 NICU.S400</b>	<b>Neonatal Critical Care/Intensive Care</b>

## **PEDIATRIC SUB-INTERNSHIP**

### **PED.M01, PED.S01**

<b>DURATION:</b>	4 weeks
<b>ENROLLMENT:</b>	Maximum 1 student
<b>VISITING STUDENTS:</b>	Yes
<b>PCR MAJORITY:</b>	Yes

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**PREREQUISITE:** Successful completion of required third year clerkships.

**PED.M01:** Debbie West, M.D. and Department of Pediatrics attending MCGG physicians – Children’s Hospital, Macon, Georgia. Contact – 478-633-7600.

**PED.S01:** Natalie Hogan, M.D. and Department of Pediatrics attending MUMC physicians – Backus Children’s Hospital, Savannah, Georgia. Contact Melissa Goodman 912-350-7847.

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### **DESCRIPTION:**

The student will perform as an acting intern. He/she will assume primary care responsibility for staff patients admitted to the Children’s Hospital under the direct supervision of the faculty. The student will participate in the evaluation and management of emergency pediatric problems. Emphasis will be placed on applying basic principles to achieve optimal patient care. Students will report directly to the ward. Student will take night call during which he/she will participate in ward and ER calls under the supervision of the intern and/or resident on call.

### **OBJECTIVES:**

- To increase the student’s knowledge base, clinical skills, and decision making capabilities in the area of hospital-based General Pediatrics.
- To gain better exposure to the role and responsibilities of a pediatric intern.
- To develop a differential diagnosis and make recommendations for establishing the diagnosis and providing the appropriate therapy in an in-patient setting and in the emergency room.
- To gain proficiency in common diagnostic and therapeutic procedures.
- To interact with hospital personnel such as: pediatric social workers, child life specialists, psychologists, etc. This is to broaden the exposure of the student to the dynamics of the child, the family, and psychosocial considerations.
- To communicate with families in a manner that demonstrates compassion and assures parents comprehension of the child’s illness and treatment.

### **EVALUATION:**

Subjective evaluation will be completed on the student by the assigned faculty and residents.

## **PEDIATRIC HEMATOLOGY-ONCOLOGY**

### **PED.M02, PED.S02**

<b>DURATION:</b>	4 weeks/Macon 2-4 weeks/Savannah
<b>ENROLLMENT:</b>	Maximum 2 students
<b>VISITING STUDENTS:</b>	Yes
<b>PCR MAJORITY:</b>	Yes

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**PREREQUISITE:** Successful completion of required third year clerkships.

**PED.M02:** Ishan Al-Khalil, M.D., Department of Pediatrics, MCCG,  
478-633-1104

**PED.S02:** J. Martin Johnson, M.D., Cynthia Gonzales, M.D., & Mary Ellen Cavalier, M.D., Backus Children's Hospital Outpatient Clinic,  
Savannah, GA. Report at 8:00 A.M. on first day. Contact Cheryl Douse 912-350-8194

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### **DESCRIPTION:**

This elective provides the opportunity to evaluate and follow children and young adults with hematologic or oncologic disorders, as well as adults with pediatric malignancies in both in-patient and out-patient settings. The student will function as an integrated member of the Pediatric Hematology-Oncology team in the care of patients hospitalized for evaluation and treatment, as well as routine and acute "walk-in" patients in the out patient clinic. Students will be encouraged to follow newly diagnosed patients for evaluation and continuity, as time allows. Additionally, established patients will provide a broad perspective of the various diagnoses in both hematology and oncology. Emphasis will be placed on general knowledge of the clinical approach to children with anemia and other red cell disorders, neutropenia, platelet and coagulation disorders, and pancytopenia. Likewise, general knowledge of childhood cancer including incidence, prognosis, and integrated multi-disciplinary care will be provided. Lastly, competence with interpretation of the CBC, peripheral blood smear, and bone marrows will be established.

### **OBJECTIVES:**

- To increase the student's knowledge base, clinical skills, and decision making capabilities in the care of children with hematologic and oncologic disorders.
- To evaluate the patient with hematologic and oncologic abnormalities.
- To interpret the peripheral blood smears of infants and children.
- To gain exposure to common diagnostic and therapeutic procedures.
- To communicate with families in a manner that demonstrates compassion and assures parental comprehension of the child's illness and treatment.

### **EVALUATION:**

Subjective evaluation will be completed on the student based upon the student's medical knowledge, communication skills, interest in patients, enthusiasm, and presentation skills.

## NEONATOLOGY

### PED.M03

<b>DURATION:</b>	2-4 weeks
<b>ENROLLMENT:</b>	Maximum 1 student / <b>Must be Pre-approved</b>
<b>VISITING STUDENTS:</b>	Yes
<b>PCR MAJORITY:</b>	Yes

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**PREREQUISITE:** Successful completion of required third year clerkships.

**PED.M03:** Mitch Rodriguez, M.D., Edward Conner, M.D., Atul Khurana, M.D. MCCG – Neonatal Intensive Care Unit, Macon, Georgia. Contact – Dr. Rodriguez Pager – 326-0171 *Student must have pre-approval from Dr. Rodriguez as elective is only offered at certain times of the year.*

*Not available on Savannah Campus.*

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### DESCRIPTION:

This elective is to advance the student's knowledge, experience, and skills in the care of low birth weight and critically ill newborns that are managed in the Neonatal Intensive Care Nursery at the Medical Center of Central Georgia. The students will perform as externs and share primary care responsibilities with the resident for a selected number of infants with a variety of life-threatening problems. Emphasis will be placed on stabilization of stressed newborns, methods of evaluation and options of treatment. The student is expected to make daily rounds with the attendings and present patients' problems and plan of management. He/she is required to present a seminar on a neonatology topic. The student will have opportunities to participate in all diagnostic and therapeutic procedures (e.g. lumbar puncture, umbilical artery catheterization, etc.).

### OBJECTIVES:

- To increase the student's knowledge base, clinical skills, and decision making capabilities in the care of the critically ill newborn.
- To gain proficiency in common diagnostic and therapeutic procedures.
- To communicate with families in a manner that demonstrates compassion and assures parents comprehension of the child's illness and treatment.

### EVALUATION:

Subjective evaluation will be completed on the student based upon the student's medical knowledge, communication skills, interest in patients, and presentation of a seminar.

## **AMBULATORY CARE PEDIATRICS**

### **PED.M04, PED.S04**

**DURATION:** 2-4 weeks  
**ENROLLMENT:** Maximum 1 student  
**VISITING STUDENTS:** Yes  
**PCR MAJORITY:** Yes

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**PREREQUISITE:** Successful completion of required third year clerkships.

**PED.M04:** Edward Clark, M.D. and Department of Pediatrics attending physicians MCCG – Children’s Health Center, Macon, Georgia.  
Contact – Delores White – 478-633-6835

**PED.S04:** Kasey Berman, M.D. and Donna Evans, M.D., Backus Children’s Hospital, Outpatient Center, Savannah, Georgia  
Contact – Melissa Goodman, 912-350-7847

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### **DESCRIPTION:**

The student is expected to attend the General Pediatrics Clinic at the Children’s Health Center or the office of one of the pediatricians for four and one-half days each week. He/she will perform problem-oriented evaluations on sick children. The student will perform well-child care evaluations, sports physicals, and outpatient pre-operative evaluations. He/she will present the evaluations for discussion to the clinical preceptor. The student will attend the pediatric residents’ daily noon conferences.

### **OBJECTIVES:**

- To provide the student with the opportunity of in-depth exposure to ambulatory pediatric problems and well-child care.

### **EVALUATION:**

Subjective evaluation will be completed on the student by the assigned faculty. **Attendance is mandatory on all clinical days unless excused by the clinical clerkship director.**

## **CHILD DEVELOPMENT/BEHAVIORAL PEDIATRICS**

### **PED.M05, PED.S05**

<b>DURATION:</b>	4 weeks
<b>ENROLLMENT:</b>	Maximum 1 student
<b>VISITING STUDENTS:</b>	Yes
<b>PCR MAJORITY:</b>	Yes

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**PREREQUISITE:** Successful completion of required third year clerkships.

**PED.M05** Elizabeth Young, M.D. – Children’s Health Center, Macon , Georgia. Contact – 478-633-7600

**PED.S05:** Doris M. Greenberg, M.D., Office at 5120 Paulsen St., Savannah, GA. Contact – Dr. Greenberg, 912-354-4953 (contact 2 weeks prior to the start of the elective to set up schedule).

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### **DESCRIPTION:**

This branch of Pediatrics has seen rapid growth during the past ten years as improved diagnosis and therapeutic modalities have become available. The student will participate in an active private practice and learn about management of patients on a one-to-one level. The patient population will be limited to children with developmental problems, handicaps, limitations, school difficulties, and behavioral disorders. This discipline bridges the gaps between general pediatrics, neurology, and psychiatry.

### **OBJECTIVES:**

- To provide the student with the opportunity of in-depth exposure to child development and behavioral disorders.
- To enable the student to work with children and their families when confronted with behavioral problems, school-related difficulties, and physical or emotional limitations.
- To teach the student different approaches to the complexity of long-term illness along with interactions between family, school, and community resources.

### **EVALUATION:**

Subjective evaluation will be completed on the student by the assigned faculty. The student will be evaluated on clinical knowledge, enthusiasm, patient/family/peer interactions, and participation.

## **PEDIATRIC SPECIALTY**

### **PED.M06, PED.S06**

<b>DURATION:</b>	2-4 weeks
<b>ENROLLMENT:</b>	Maximum 1 student
<b>VISITING STUDENTS:</b>	Yes
<b>PCR MAJORITY:</b>	Yes

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**PREREQUISITE:** Successful completion of required third year clerkships.

**PED.M06:** Department of Pediatrics attending physicians. MCCG – Children’s Health Center and selected clinics, Macon, Georgia. Contact – Mary Witherington, 478-633-1063

**PED.S06** Please contact Debbie Brickner, Coordinator, Undergraduate Medical Education at 912-350-8076 for preceptor information.

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### **DESCRIPTION:**

The student is expected to attend the selected specialty Clinic at the Children’s Health Center and/or the office of one of the specialized pediatricians for four and one-half days each week. He/she will perform problem-oriented evaluations on sick children. The student will perform evaluations, plan long-term care, and perform follow-up evaluations. He/she will present the evaluations for discussion to the clinical preceptor. The student will have assigned readings and must be prepared to discuss the readings with the preceptor. The student will attend the pediatric residents’ daily noon conferences.

### **OBJECTIVES:**

- To provide the student with the opportunity of in-depth exposure to one or more pediatric specialties either because of personal interest or to make up for a specific weakness.
- To teach the student how to search the medical literature and present critical analysis of the reading materials.

### **EVALUATION:**

Subjective evaluation will be completed on the student by the assigned faculty. **Attendance is mandatory on all clinical days unless excused by the clinical preceptor.**

**Subjects selected in the past include Hematology/Oncology, Endocrinology, Adolescent Medicine, Newborn Nursery, Child Development, Special Needs Children, Gastroenterology, Sports Medicine, and Asthma/Allergy. Other topics are available dependent on faculty preceptor availability.**

## **PEDIATRIC CARDIOLOGY**

**PED.M07, PED.S07**

**DURATION:** 2–4 weeks  
**ENROLLMENT:** Macon/Maximum 2 students  
Savannah/4 students per year  
**VISITING STUDENTS:** Yes  
**PCR MAJORITY:** Yes

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**PREREQUISITE:** Successful completion of required third year clerkships.

**PED.M07:** Macon – William Ham, M.D., Brian Cardis, M.D., MCCG – Sibley Heart Center Cardiology, Macon, Georgia. Contact – Stephanie Hicks 478-743-4622  
Note: the elective is available on a limited basis in the Spring, check with program coordinator for available dates.

**PED.S07:** Blake Long, M.D., Kenneth Burch, M.D., John Pastorek, M.D. Savannah’s Children’s Heart Center – Provident Bldg., Suite 512, Savannah, GA. Contact – Dr. Long 912-350-8085  
Availability limited in June through August and December

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### **DESCRIPTION:**

The student involvement will include:

- Allotted time for reading from a provided syllabus.
- Initial assessment of consultations.
- Admission and work-up of new patients requiring hospitalization.
- Time allotment for echocardiogram and electrocardiogram reviews.
- Preparation of a 30 minute informal review of a pediatric cardiac subject.
- Participation in outpatient evaluation and management of pediatric cardiology patients.

### **OBJECTIVES:**

- To introduce the student to a basic understanding of pediatric cardiac diseases and the tools available for evaluation.
- To evaluate a child with a murmur, interpret a pediatric electrocardiogram, and understand the physiology of acyanotic and cyanotic heart disease in infants and children.

### **EVALUATION:**

Subjective evaluation will be completed on the student by the assigned faculty. Evaluated areas will be participation, clinical ability to formulate information, and enthusiasm.

## **PEDIATRIC CRITICAL CARE**

### **PED.M08, PED.S08**

<b>DURATION:</b>	2-4 weeks
<b>ENROLLMENT:</b>	Maximum 1 student
<b>VISITING STUDENTS:</b>	Yes
<b>PCR MAJORITY:</b>	Yes

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**PREREQUISITE:** Successful completion of required third year clerkships.

**PED.M08:** Lowell C. Clark, M.D., Roger Delacruz, M.D., Umesh Narsinghani, M.D. MCCG – Children’s Hospital, Macon, Georgia. Contact – Umesh Narsinghani, M.D. 478-633-1104

**PED.S08:** Thomas W. McKee, M.D. and Mary Carol Lytle, MD - PICU, 2<sup>nd</sup> Floor Main Hospital, Savannah GA. Contact – Melissa Goodman 912-350-7847

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### **DESCRIPTION:**

This elective is designed to advance the student’s knowledge, experience, and skills in the care of the critically ill child. Emphasis will be placed on pathophysiology and management of common pediatric intensive care problems including acute respiratory failure, sepsis, poisoning, and trauma. Principles of monitoring will be stressed. The student will work directly at bedside with the preceptor and have the opportunity, where appropriate, to gain experience in invasive procedures. The student will make daily rounds and function as an extern. Major topics to be covered include: Fluid and electrolytes, closed head injury, seizures, respiratory distress/arrest, shock (cardiogenic and non-cardiogenic), renal physiology, and sepsis.

### **OBJECTIVES:**

- To advance the student’s knowledge of the general principles of pediatric intensive care.
- To provide introductory experience in the procedures of intensive care medicine.
- **Macon** - To provide the student with expanded and refined technical skills as applied in the PICU.
- **Savannah** - To provide the student with an introductory experience in the evaluation and management of critically-ill children.

### **EVALUATION:**

Subjective evaluation will be completed on the student by the assigned faculty and residents. Evaluation will cover the student’s participation, clinical ability to formulate and apply treatment plans, enthusiasm, and attendance.

## **CHILD ADVOCACY**

### **PED.S09**

<b>DURATION:</b>	2 weeks
<b>ENROLLMENT:</b>	Maximum 1 student
<b>VISITING STUDENTS:</b>	No
<b>PCR MAJORITY:</b>	No

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**PREREQUISITE:** Successful completion of required third year clerkships.

**PED.S09:** Donna Evans, M.D., Contact Melissa Goodman 912-350-7847  
Students will report to Pediatric Education office at 9:00am on first day.

*Not available on Macon Campus.*

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### **DESCRIPTION:**

This elective is designed to teach medical students the physician's role in child protection in the hospital and outpatient setting. The student will understand the scope of physical and sexual abuse as it relates to outpatient and inpatient practice of pediatric medicine. The medical student will participate in inpatient and outpatient consultations for child physical and sexual abuse. The student will be given a notebook of articles and DC Rom of lectures for their review during the rotation. The student will also spend time observing at the Coastal Children's Advocacy Center where child victims are interviewed for evidentiary purposes. In addition, the student will attend the multidisciplinary team staffing where all cases of physical and sexual abuse are reviewed each week. The student will observe and learn how the physician examiner interfaces with the community resources and the criminal justice system. The student will also accompany Dr. Evans to any court cases that she has to testify at during the rotation. During the rotation, the student will observe and participate in all aspects of child protection from initial referral to disposition in court or weekly staffing.

### **OBJECTIVES:**

- The student will gain experience in taking a medical history as it pertains to a child abuse case.
- The student will become familiar with medical literature in the area of child abuse and neglect.
- The student will know how to conduct an examination for physical and sexual assault.
- The student will experience the interaction of professionals during multidisciplinary staffing for child abuse cases.
- The student will become familiar with the role of the medical expert witness in child abuse court testimony.

### **EVALUATION:**

The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A post test to assess knowledge is given at the end of the rotation.

## **PEDIATRICS ENDOCRINOLOGY**

### **PED.S10**

**DURATION:** 2 weeks  
**ENROLLMENT:** Maximum 1 student  
**VISITING STUDENTS:** No  
**PCR MAJORITY:** Yes

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**PREREQUISITE:** Successful completion of required third year clerkship

**PED.S09:** Christopher Houk, M.D., Backus Children's Hospital Outpatient Center. Contact Melissa Goodman (912)350-7847

*Not available on Macon campus.*

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### **DESCRIPTION:**

The goal is to provide an understanding of the role of the pediatrician in preventing endocrine dysfunction, and in counseling and screening individuals at risk for this disease.

### **OBJECTIVES:**

- To differentiate between normal, physiologic deviations from normal, and pathological states related to endocrinology.
- To evaluate patients who present with signs and symptoms that may represent an endocrine disease process.
- To diagnose and manage endocrine conditions in patients not generally requiring referral.
- Recognize, initiate management of, and refer patients with endocrine conditions that require referral.
- Diagnose and manage uncomplicated diabetes mellitus with or without the assistance of an endocrinologist.

### **EVALUATION:**

The preceptor, on the basis of performance, skill, knowledge and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship.

## **Pediatric Critical Care/ Intensive Care**

**PICU.M300**

**PICU.S300**

**Duration:** 4 weeks

**Enrollment:** 1 student

**Prerequisite:** Successful completion of required third year clerkship

**Macon Course Director/Contact:** Lowell C. Clark, M.D., Steve Williams, M.D., Umesh Narsinghani, M.D. MCCG – Children’s Hospital, Macon, Georgia. Contact Dr. Lowell Clark 478-633-1633

**Savannah Course Director/Contact:** Thomas W. McKee, M.D. and Mary Carol Lytle, MD - PICU, 2<sup>nd</sup> Floor Main Hospital, Savannah GA. Contact Melissa Goodman 912-350-7847

### **Course Goal:**

This elective is designed to advance the student’s knowledge, experience, and skills in the care of the critically ill child. Emphasis will be placed on pathophysiology and management of common pediatric intensive care problems including acute respiratory failure, sepsis, poisoning, and trauma. Principles of monitoring will be stressed. The student will work directly at bedside with the preceptor and have the opportunity, where appropriate, to gain experience in invasive procedures. The student will make daily rounds and function as an extern. Major topics to be covered include: Fluid and electrolytes, closed head injury, seizures, respiratory distress/arrest, shock (Cardiogenic and non-cardiogenic), renal physiology, and sepsis.

### **Objectives:**

1. To advance the student’s knowledge of the general principles of pediatric intensive care.
2. To provide introductory experience in the procedures of intensive care medicine.
3. **Macon** - To provide the student with expanded and refined technical skills as applied in the PICU.
4. **Savannah** - To provide the student with an introductory experience in the evaluation and management of critically ill children.

### **Evaluation:**

Subjective evaluation will be completed on the student by the assigned faculty and residents. Evaluation will cover the student’s participation, clinical ability to formulate and apply treatment plans, enthusiasm, and attendance.

## Neonatal Critical Care/ Intensive Care

**NICU.M400**

**NICU.S400**

**Course Duration:** 4 weeks

**Enrollment Maximum:** 1 student / **Must be Pre-approved**

**Prerequisite:** Successful completion of third year clerkship

**Macon Course Director:** Mitch Rodriguez, M.D., Edward Conner, M.D., Atul Khurana, M.D.  
MCCG – Neonatal Intensive Care Unit, Macon, Georgia. Contact –  
Delores White, 633-6835. *Student must have pre-approval from  
Dr. Rodriguez as elective is only offered at certain times of the year.*

### **DESCRIPTION:**

This rotation is to advance the student's knowledge, experience, and skills in the care of low birth weight and critically ill newborns that are managed in the Neonatal Intensive Care Nursery at the Medical Center of Central Georgia. The students will perform as externs and share primary care responsibilities with the resident for a selected number of infants with a variety of life-threatening problems. Emphasis will be placed on stabilization of stressed newborns, methods of evaluation and options of treatment. The student is expected to make daily rounds with the attendings and present patients' problems and plan of management. He/she is required to present a seminar on a neonatology topic. The student will have opportunities to participate in all diagnostic and therapeutic procedures (e.g. lumbar puncture, umbilical artery catheterization, etc.).

### **OBJECTIVES:**

1. To increase the student's knowledge base, clinical skills, and decision making capabilities in the care of the critically ill newborn.
2. To gain proficiency in common diagnostic and therapeutic procedures.
3. To communicate with families in a manner that demonstrates compassion and assures parents comprehension of the child's illness and treatment.

### **EVALUATION:**

Subjective evaluation will be completed on the student based upon the student's medical knowledge, communication skills, interest in patients, and presentation of a seminar.