Pediatric Emergency Medicine
Children’s Medical Center EM2 & EM3 Rotations

The following goals and objectives are intended to inform each EM resident of what you should gain from your educational experience during the Pediatric Emergency Medicine EM2 & EM3 Rotations at Children’s Medical Center, both clinical and didactic. These goals and objectives are also intended to assist you in achieving competencies appropriate for the EM resident. They can be achieved through customary methods including the fulfillment of supervised clinical assignments, attendance and participation in didactic activities, and study.

Patient Care

- Interpret pediatric EKG’s, showing awareness of the normal physiologic differences from adult EKG’s
- Discuss the common pediatric dysrhythmias, their diagnosis and treatment
- Discuss the types of congenital cyanotic and noncyanotic heart disease, their complications and treatment
- Demonstrate ability to read pediatric chest x-rays
- Discuss the differential of congestive failure in the pediatric patient and demonstrate knowledge of appropriate treatment
- Discuss the etiologies and demonstrate correct management of children with lower and upper airway diseases including asthma, bronchiolitis, cystic fibrosis, pneumonia
- Discuss the management of the pediatric patient with diabetes and diabetic ketoacidosis
- Demonstrate knowledge of the etiologies of anemia in children and the appropriate diagnostic evaluation
- Demonstrate knowledge of the differential diagnosis and work-up of the jaundiced child
- Discuss the differential diagnosis and work-up of the child with evidence of a bleeding disorder
- Discuss the diagnosis and management of a patient with a suspected autoimmune syndrome such as juvenile arthritis, lupus, or dermatomyositis
- Discuss the differential diagnosis and treatment of weakness in the infant and child
- Demonstrate knowledge of the diagnosis, evaluation, and treatment of a child with GI bleeding
- Discuss the differential diagnosis and work-up of renal failure or anuria in children
- Discuss the signs, symptoms, treatment and complications of Kawasaki disease
- Discuss the common pediatric malignant tumors
- Discuss the differential of abnormal vaginal bleeding in childhood
- Discuss the diagnostic work-up and disposition when child abuse and/or neglect is suspected
- Demonstrate ability to perform a history and physical exam of an alleged victim of sexual abuse.
- Correctly interpret soft tissue lateral neck x-rays in children
- Discuss the findings and differential of sudden infant death syndrome
- Discuss correct management of foreign bodies of the upper and lower airway
- Discuss the management of children with a foreign body ingestion
- Discuss pediatric inguinal and umbilical hernias
- Demonstrate knowledge of pediatric facial and orbital infections and their treatment
- Discuss the differential of abnormal vaginal bleeding in childhood
- Demonstrate knowledge of the common poisonings of childhood and their treatments

Medical Knowledge

- Learn to recognize and differentiate the level of acuity and complexity of children presenting to the emergency room
- Learn the manifestations and significance of abdominal related complaints in the child
- Learn the etiologies and treatment of neurologic emergencies in the child
• Learn the physiology and derangements of fluid and electrolyte management in children
• Learn the manifestations and treatment of pediatric cardiac abnormalities
• Learn the pathophysiology, etiologies, and treatment of respiratory disorders of children
• Learn the pathophysiology, etiologies, and treatment of common serious endocrine and hematologic disorders of children
• Learn the pathophysiology, etiologies, and treatment of common serious renal, gynecologic and urologic conditions of children
• Develop knowledge of the initial evaluation and stabilization of the critically ill or injured child
• Learn initial ventilator settings
• Understand principles of conscious sedation in the pediatric population

**Practice - Based Learning and Improvement**
• Demonstrate evidence-based decision-making
• Show appropriate use of educational resources
• Effectively utilize senior residents, fellows, and faculty that supervise during this rotation for education and optimizing patient care
• Review and discuss current literature as appropriate to patient care

**Interpersonal and Communication Skills**
• Demonstrate effective information exchange with patients and their families
• Communicate the treatment plan to supervising and consulting physicians
• Communicate effectively and listen to other members of the health care team
• Answer questions and provide information in a clear and respectful manner
• Convey respect for others and display an appropriate degree of confidence

**Professionalism**
• Apply appropriate ethical practice to patient care
• Maintain patient privacy and confidentiality
• Demonstrate sensitivity and responsiveness to the culture, age, gender and disabilities of patients and their caregivers / family
• Arrive on time and complete assigned duties

**Systems - Based Practice**
• Understand basic resources available for care of the patient in the Pediatric Emergency Medicine setting
• Utilize the consultation process appropriately
• Practice cost-effective health care delivery and resource allocation that does not compromise quality of care
• Understand the organization of patient care services in the Pediatric Emergency Medicine setting
• Advocate high quality health care and assist patients in dealing with complex health care delivery systems
• Work effectively with other members of the health care delivery team to improve health care and health care system performance in the Pediatric Emergency Medicine setting

**MEMORANDUM OF SUPPORT AND UNDERSTANDING**
Between the UT Southwestern Emergency Medicine Residency Program
And the UT Southwestern Department of Pediatrics
The Department of Pediatrics at UT Southwestern and Children’s Medical Center (CMC) is pleased to support the Emergency Medicine (EM) Residency Program at UT Southwestern, and hereby agrees to provide a rotation experience for each R-2 and R-3 level EM resident in Pediatric Emergency Medicine at Children’s Medical Center of Dallas, with the following mutually
agreed upon goals and objectives. The format for this rotation experience is 2-4 shifts per 4-week block of Emergency Medicine in the R-2 and R-3 year. There are 9 blocks of EM in the R-2 year, and 8 blocks of EM in the R-3 year. It is understood by Emergency Medicine that the overall goal of the rotation is to provide residency training in the emergency management of pediatric disease processes and injuries.

GOALS
1. Learn to recognize and differentiate the level of acuity and complexity of children presenting to the emergency room
2. Learn the manifestations and significance of abdominal related complaints in the child
3. Learn the etiologies and treatment of neurologic emergencies in the child
4. Learn the physiology and derangements of fluid and electrolyte management in children
5. Learn the manifestations and treatment of pediatric cardiac abnormalities
6. Learn the pathophysiology, etiologies, and treatment of respiratory disorders of children
7. Learn the pathophysiology, etiologies, and treatment of common serious endocrine and hematologic disorders of children
8. Learn the pathophysiology, etiologies, and treatment of common serious renal, gynecologic and urologic conditions of children
9. Develop knowledge of the initial evaluation and stabilization of the critically ill or injured child
10. Learn initial ventilator settings
11. Understand principles of conscious sedation in the pediatric population

OBJECTIVES
1. Interpret pediatric EKG’s, showing awareness of the normal physiologic differences from adult EKG’s
2. Discuss the common pediatric dysrhythmias, their diagnosis and treatment
3. Discuss the types of congenital cyanotic and noncyanotic heart disease, their complications and treatment
4. Demonstrate ability to read pediatric chest x-rays
5. Discuss the differential of congestive failure in the pediatric patient and demonstrate knowledge of appropriate treatment
6. Discuss the etiologies and demonstrate correct management of children with lower and upper airway diseases including asthma, bronchiolitis, cystic fibrosis, pneumonia
7. Discuss the management of the pediatric patient with diabetes and diabetic ketoacidosis
8. Demonstrate knowledge of the etiologies of anemia in children and the appropriate diagnostic evaluation
9. Demonstrate knowledge of the differential diagnosis and work-up of the jaundiced child
10. Discuss the differential diagnosis and work-up of the child with evidence of a bleeding disorder
11. Discuss the diagnosis and management of a patient with a suspected autoimmune syndrome such as juvenile arthritis, lupus, or dermatomyositis
12. Discuss the differential diagnosis and treatment of weakness in the infant and child
13. Demonstrate knowledge of the diagnosis, evaluation, and treatment of a child with GI bleeding
14. Discuss the differential diagnosis and work-up of renal failure or anuria in children
15. Discuss the signs, symptoms, treatment and complications of Kawasaki disease
16. Discuss the common pediatric malignant tumors
17. Discuss the differential of abnormal vaginal bleeding in childhood
18. Discuss the diagnostic work-up and disposition when child abuse and/or neglect is suspected
19. Demonstrate ability to perform a history and physical exam of an alleged victim of sexual abuse
20. Correctly interpret soft tissue lateral neck x-rays in children
21. Discuss the findings and differential of sudden infant death syndrome
22. Discuss correct management of foreign bodies of the upper and lower airway
23. Discuss the management of children with a foreign body ingestion
24. Discuss pediatric inguinal and umbilical hernias
25. Demonstrate knowledge of pediatric facial and orbital infections and their treatment
26. Discuss the differential of abnormal vaginal bleeding in childhood
27. Demonstrate knowledge of the common poisonings of childhood and their treatments
28. Discuss the care of a child with immersion/drowning
29. Discuss the presentation, diagnosis, and treatment of septic joint
30. Develop skills in the initial evaluation and resuscitation of critical and serious pediatric patients
31. Demonstrate ability to evaluate children with syncope and discuss its differential diagnosis
32. Develop skills necessary for the performance of stabilizing and diagnostic procedures in children, including interosseous infusion techniques
33. Recognize and appropriately treat urgent and emergent pediatric problems
34. Develop understanding of the appropriateness of outpatient vs. ED vs. inpatient evaluation and treatment for pediatric presentations
35. Demonstrate the appropriate use of consultants in care of children
36. Demonstrate ability to perform initial evaluation and stabilization of injured children
37. Demonstrate ability to perform conscious sedation in children
38. Demonstrate recognition and ability to manage respiratory distress
39. Demonstrate ability to treat acute asthma in the pediatric patient

RESOURCES/FACILITIES

The location for the rotation is the Emergency Department (ED) in Children’s Medical Center of Dallas (CMC). Children’s Medical Center is a 325-bed, private pediatric hospital that has been listed by US News and World Report as one of the top-rated children's hospitals in the United States. CMC is adjacent to Parkland Hospital and the ED’s of both hospitals are connected. The ED at CMC is the highest volume children’s ED in the nation.

The UT Southwestern Medical Library has an extensive collection including 256,264 total volumes. This includes 83,124 book volumes and 6,158 full text electronic journals. The 64,000 square feet of library space includes an Educational Technology Laboratory that contains many options for audiovisual and computer-based teaching and learning. The library employs 52 personnel, including dedicated personnel for research and evidence-based literature searches/education. In addition, residents have internet access in the ED as well as various other locations in the hospital. The ED also keeps a variety of reference texts.

DUTIES AND RESPONSIBILITIES

The duties, responsibilities, and duty hours of the EM residents while rotating on Pediatric Emergency Medicine are guided by ACGME-approved requirements for Pediatrics and Pediatric Emergency Medicine.

The EM residents are responsible for the care of their assigned patients in the ED. The residents will perform and record history and physical exams, provide treatment, perform procedures with appropriate supervision, coordinate consultations, and direct the discharges for their patients.

The EM resident will function in a role similar to that of a Pediatric resident at the same level of post-graduate training. EM residents will have the same supervisory chain and will report to the senior Pediatric residents, and Pediatric EM fellows and faculty.

The EM residents are encouraged to attend the Pediatric Conferences as patient care requirements permit. Pediatric EM shifts start after the residency conference series is finished, allowing the EM R-2 and R-3 residents to attend these residency conferences.
SUPervision & Evaluation

The EM residents are supervised by senior Pediatric residents, and Pediatric EM fellows and faculty. The Rotation Director or designee will orient residents, supervise scheduling, and monitor progress during the rotation. The Rotation Director or designee will complete the UTSW EM Program’s evaluation tool for this rotation that utilizes core competencies to assess the resident’s performance.

Patricia Hicks, MD
Associate Professor & Program Director
Pediatrics Residency Program

Michael P. Wainscott, MD
Professor & Program Director
Emergency Medicine Residency Program

Cub Culbertson, MD
Professor & Interim Medical Director
Emergency Services