Activity

Purpose
APLS, the Pediatric Emergency Medicine Course, is a continuing medical education activity developed by the American Academy of Pediatrics and the American College of Emergency Physicians. APLS is an exciting curriculum designed to present the information physicians need to assess and care for critically ill and injured children during the first few hours in the emergency department or office-based setting.

Faculty
Faculty will include attending physicians from multiple divisions within the Department of Pediatrics including: Emergency Medicine, Intensive Care, Surgery, Neonatology, and Radiology.

Who Should Take APLS?
- Any physician who treats pediatric patients, pediatricians, family practice physicians, emergency physicians - who might be called on to care for a pediatric patient.
- Any physician who provides medical services to special populations in the community, or for events involving children.
- Physicians in training who will be expected to provide timely evaluation and treatment to infants, toddlers, school-age children and adolescents.
- Any other health care provider who is involved in the treatment of pediatric patients, especially in urgent or emergency care settings.

Agenda

March 1st
7:15–8:00 Registration and Continental Breakfast
8:00–8:50 Pediatric Airway in Health & Disease
8:50-9:40 Cardiovascular Emergencies
9:40-10:30 Medical Emergencies
10:30 -10:40 Break
10:40-11:30 Pediatric Radiology
11:30-12:20 Child Maltreatment
12:20 - 1:00 Lunch
1:00-1:50 Neonatal Emergencies
2:00-5:00 Skill Stations
  • Airway Procedures Skill Station
  • Cardiovascular Procedures Skill Station
  • Mock Codes: Simulation Lab

March 2nd
7:30-8:00 Registration and Continental Breakfast
8:00-8:50 Pediatric Trauma
8:50-9:40 Nontraumatic Surgical Emergencies
9:40-10:30 Nontraumatic Orthopedic Emergencies
10:30-10:40 Break
10:40-11:30 Patient Sedation and Analgesia
11:30-12:15 Toxicology
12:15-12:45 Lunch
1:00-4:00 Skill Stations
  • Children with Special Health Needs
  • Environmental Emergencies
  • Mock Codes: Simulation Lab
4:00-4:15 Break
4:15-5:00 APLS Test

* Agenda Subject to Change
Upon completion of this educational activity, participants will be able to:

**“Pediatric Airway in Health and Disease”**
1. Compare the anatomical and physiological differences between the adult and pediatric airway.
2. Distinguish respiratory distress from respiratory failure.
3. Describe clinical features, diagnosis and management of upper and lower airway obstruction and diseases of the lung.

**“Cardiovascular Emergencies”**
1. Present the clinical features and emergency management of cardiovascular disorders, including:
   a. Recognize clinical and acquired heart disease.
   b. Outline management of ductal dependent lesions.
   c. Identify patients with myocarditis.

**“Medical Emergencies”**
1. Identify rashes that indicate serious illnesses. Formulate a diagnostic evaluation for a child with fever.
2. Describe emergencies seen in children with sickle cell disease.
3. Recognize genitourinary emergencies in male patients.
4. Plan management of hypertensive urgencies and emergencies.
5. Formulate a diagnostic evaluation for a child with syncope.
6. Discuss management of a child in septic shock.

**“Neonatal Emergencies”**
1. Relate the history of resuscitation.
2. Outline the sequence of care in the resuscitation of a newborn.
3. Describe the difference between the newly born and newborn and the common reasons they may require or seek emergency care.

**“Child Maltreatment”**
1. Recognize common presentations of physical abuse and sexual abuse.
2. Describe diagnostic studies to perform.
3. Explain the practitioner’s responsibility in notifying appropriate authorities.

**“Pediatric Radiology”**
Identify the following conditions based on x-ray findings:

**“Airway Procedures Skills Station”**
Demonstrate effective technique in use of:

**“Cardiovascular Procedures Skills Station”**
Demonstrate effective technique in use of:
1. Intraosseous Lines; 2. Femoral Central Lines; 3. Umbilical Lines

**“Mock Codes Station”**
1. Demonstrate effective technique in the care of the pediatric patient experiencing cardio-respiratory arrest.

**“Pediatric Trauma”**
1. Describe unique anatomic and physiologic characteristics of the pediatric age group that affect response to injury and management.
2. Define concepts of the primary and secondary surveys.
3. Discuss management priorities based on lifethreatening injuries identified in the primary survey.
4. Discuss the identification and initial treatment of lifethreatening injuries to major organ systems.

**“Nontraumatic Surgical Emergencies”**
1. Recognize that bilious emesis in an infant is a surgical emergency.
2. Describe the classic triad of intussusception.
3. Discuss the clinical features and emergency management of several important acute surgical disorders in children.

**“Non-traumatic Orthopedic Emergencies”**
1. Define the pathophysiology of nontraumatic orthopedic conditions.
2. Describe the management of nontraumatic pediatric orthopedic problems.
3. Identify radiographic findings helpful in the diagnosis of many orthopedic injuries.
### Topics and Learning Objectives

Upon completion of this educational activity, participants will be able to:

**“Patient Sedation and Analgesia”**
1. Identify clinical circumstances in which procedural sedation or analgesia may be indicated in the care of children.
2. Recite the pharmacologic basis for pediatric procedural sedation and analgesia.
3. Recite the basis for the development of safe and effective procedural sedation and analgesia practices.
4. Present alternative non-pharmacologic approaches to the care of children requiring analgesia and/or sedation.

**“Toxicology”**
1. Explain the general management principles for ingestions and toxic exposures.
2. Identify methods used to minimize drug absorption.
3. Discuss the steps in evaluation and management of a patient exposed to smoke and carbon monoxide.

**“Children with Special Health Care Needs Skill Station”**
1. Recognize gastrostomy and tracheostomy tubes and their emergent replacement.

**“Environmental Emergencies Discussion”**
1. Discuss cases of envenomation, body temperature disturbance and submersion injuries in children and their evaluation and management.

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### Speakers

- **Judson Barber MD, FAAP** - Associate Professor, UAB Department of Pediatrics, Division of Emergency Medicine
- **David Bernard, MD** - Professor, UAB Department of Pediatrics, Division of Emergency Medicine
- **Wally Carlo, MD** - Professor of Pediatrics, Director, UAB Division of Neonatology
- **Kelly Clayton, MD** – Clinical Instructor, Second Year Fellow, UAB Pediatric Emergency Medicine
- **Teresa Coco, MD** – Assistant Professor, UAB Department of Pediatrics, Division of Emergency Medicine
- **Valerie Davis, MD** – Assistant Professor, UAB Department of Pediatrics, Division of Emergency Medicine
- **Nicole Jones, MD** – Clinical Instructor, Second Year Fellow, UAB Pediatric Emergency Medicine
- **Shruti Kant, MD** – Clinical Instructor, Second Year Fellow, UAB Pediatric Emergency Medicine
- **Michele Kong, MD** – Assistant Professor, UAB Department of Pediatrics, Division of Critical Care Medicine
- **Erica Liebelt, MD, FACMT** – Professor, UAB Department of Pediatrics, Division of Emergency Medicine
- **Heather Mitchell, MD** – Clinical Instructor, First Year Fellow, UAB Pediatric Emergency Medicine
- **Michael Mitchell, MD** – Clinical Instructor, Third Year Fellow, UAB Pediatric Emergency Medicine
- **Kathy Monroe, MD** – Professor, UAB Department of Pediatrics, Division of Emergency Medicine
- **Oliver Muensterer, MD, PhD** – Assistant Professor, UAB Department of Surgery, Division of Pediatric Surgery
- **Michele Nichols, MD** – Professor, UAB Department of Pediatrics, Division of Emergency Medicine
- **Julia Niebauer, MD** – Third Year Fellow, UAB Pediatric Critical Care Medicine
- **Robert Nuttall, MD** – Children’s Hospital of Alabama, Department of Pediatric Imaging
- **Melissa Peters, MD, FAAP** – Assistant Professor, UAB Department of Pediatrics, Division of Emergency Medicine
- **Chris Pruitt, MD** – Assistant Professor, UAB Department of Pediatrics, Division of Emergency Medicine
- **Christopher Restrepo, MD** – Clinical Instructor, First Year Fellow, UAB Pediatric Emergency Medicine
- **Annalise Sorrentino, MD, FAAP, FACEP** – Associate Professor, UAB Department of Pediatrics, Division of Emergency Medicine
- **Philip Tatum, MD** – Third Year Fellow, UAB Division of Neonatology
- **Marjorie Lee White, MD, Med, MPPM** – Assistant Professor, UAB Department of Pediatrics, Division of Emergency Medicine
Please PRINT or TYPE the following information for each practitioner - copies of this form are acceptable.

Name:__________________________________________________________

Address:_______________________________________________________

City, State, Zip Code:___________________________________________

Daytime Phone Number:_________________________ FAX Number: ________________

Email:________________________________________________________

Practice Location:_____________________________________________

Practice Type:    □  General Pediatrics    □  Emergency Medicine
                  □  Family Practice    □  Other

Payment Information  (No registrations will be processed without full payment)

Total Amount Due: $________________________

(Make checks payable to UAHSF Department of Pediatrics)

Mail To: Shruti Kant, MD
Pediatric Emergency Medicine
1600 5th Avenue South
Children’s Park Place, Suite 210
Birmingham, AL 35233

Fax To: 205.975.4623
(Checks must be sent before registration can be processed)
**General Information**

**Location:**
The Pediatric Emergency Medicine Course will be held in the Bradley Lecture Center - Harbor Building - 4th floor on the campus of Children’s Hospital at the corner of 6th Avenue South and 16th Street.

**Parking:**
Please park in the Park Place Parking Deck (located at 16th Street and 5th Avenue).

**Questions:**
Please contact Shruti Kant, MD, Course Director by phone at 205.939.9587, or email skant@peds.uab.edu.

**CME Information:**
The Children’s Hospital of Alabama designates this educational activity for a maximum of 15.0 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

The Children’s Hospital of Alabama is accredited by the Medical Association of the State of Alabama to provide continuing medical education for physicians.

Approved by the American College of Emergency Physicians for a maximum of 14.50 hour(s) of ACEP Category 1 credit.

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