

Pediatric Fundamental Critical Care Support

Society of
Critical Care Medicine
The Intensive Care Professionals



June 6-7, 2024

Children's Hospital Colorado

Village Pavilion – Learning Center
13100 E Colfax Ave | Aurora, Colorado 80011

Register at

ce.childrenscolorado.org/pfccc-aurora-24

Jointly Provided by

Children's Hospital Colorado Outreach and Education
Society of Critical Care Medicine

In collaboration with: Mountain Plains Regional Disaster Health Response System



Children's Hospital Colorado



OVERVIEW, TARGET AUDIENCE, AND LEARNER OUTCOME

Ensure that you are prepared to save the life of a child by participating in a Pediatric Fundamental Critical Care Support (PFCCS) Course. This 2-day course combines expert-developed lectures with hands-on skill stations to provide healthcare professionals at all levels, including non-intensivists, with the training they need to manage critically ill or injured pediatric patients for the first 24 hours or until appropriate critical care consultation can be arranged. This evidence-based curriculum was developed by the Society of Critical Care Medicine. This activity was planned in collaboration with the Mountain Plains Regional Disaster Health Response System as part of regional pediatric disaster preparedness planning. Specific attention will be given to caring for patients in hospitals that do not typically admit pediatric patients during routine operations.

This course is for interdisciplinary healthcare team members including physicians, nurses, respiratory therapists and EMS professionals.

We gratefully acknowledge the financial support from the Mountain Plains Regional Disaster Health Response System (MPRDHRS) which is funded by Award Number 6 HITEP200043-01-03 from the Administration for Strategic Preparedness and Response (ASPR) for this course. The content of the presentations is a product of the individual presenters/Society of Critical Care Medicine and does not represent the official policy of the United States Government.

As a result of this session, learners will be able to report new knowledge and intent to change practice in the care of critically ill pediatric patients. Participants will successfully complete a posttest related to the care of critically ill pediatric patients.

LEARNING OBJECTIVES

- Discuss knowledge of the signs and symptoms of an unstable airway and respiratory failure.
- Summarize management principles of acute respiratory failure.
- Describe the characteristics of different types of breaths and modes of mechanical ventilation (noninvasive and invasive).
- Review the various categories of shock and sepsis, emphasizing early detection and rapid intervention.
- Describe the management of children with cardiopulmonary deficiency, including the initial assessment and importance of rapid detection and intervention.
- Describe the indications for initiation of mechanical ventilation.
- Summarize the diagnosis, pathophysiology, and treatment of children with upper and lower airway disease.
- Describe communication process for safe transport of the critically ill child.
- Identify anatomic, physiologic, and mechanistic issues in trauma including the ABCDE approach to resuscitation.
- Review specific management principles and options for common neurologic emergencies.
- Discuss basic concepts of maintenance of intravascular fluid homeostasis.
- Describe the unique features of the pediatric population that make them particularly vulnerable during disasters.
- Identify the indications, risk factors, and level of monitoring needed for pediatric patients undergoing procedural sedation and describe the differences among mild, moderate, and deep sedation.
- Describe the effects of anesthesia on the patient during postoperative period.
- Demonstrate the DIRECT methodology to provide care to a complex patient case using the knowledge and skills obtained during the course.

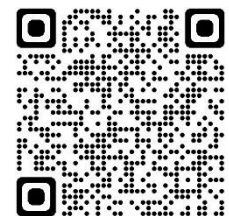
REGISTRATION

Learners register at: <http://ce.childrencolorado.org/pfccs-aurora-24>

Registration Deadline: May 2, 2024

No registration fee for learners from HHS Region VIII (CO, MT, ND, SD, WY, UT)

Course registration fees covered by Mountain Plains Regional Disaster Health Response System (MPRDHRS) Cooperative Agreement



REQUIRED COURSE PREPARATION

- This course includes a required pre-test and post-test to obtain SCCM certification.
- Approximately 4 weeks before the course, you will receive an email from hostedtraining@sccm.org titled "Enrollment in SCCM's LearnICU Classroom". The link allows you access to the PFCCS e-book, course slides and pre-test.
 - You must complete the pre-test prior to attending the course
 - We strongly recommend reviewing the e-book before the course
- If you need assistance logging into the SCCM portal, please contact SCCM customer service at support@sccm.org or 1-847-827-6888 Monday through Friday between 8am to 5pm central time.

For additional information related to this course contact: nicole.shonka@childrencolorado.org

AGENDA

Thursday, June 6, 2024 – Day 1

Time	Activity		
7:45 - 8:00 am	Sign-In		
8:00 - 8:15	Welcome, Course Announcements, and PFCCS Overview		
8:15 - 9:00	Airway Management <u>Objective:</u> Discuss knowledge of the signs and symptoms of an unstable airway and respiratory failure.		
9:00 - 9:45	Management of Acute Respiratory Failure and Mechanical Ventilation <u>Objectives:</u> Summarize management principles of acute respiratory failure. Describe the characteristics of different types of breaths and modes of mechanical ventilation (noninvasive and invasive).		
9:45 - 10:30	Cardiovascular Evaluation and Shock <u>Objective:</u> Review the various categories of shock, emphasizing early detection and rapid intervention.		
10:30 - 10:45	Break		
10:45 - 11:45	<table border="1"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Skill Stations</td> <td> A. Cardiopulmonary Dysfunction <u>Objective:</u> Describe the management of children with cardiopulmonary deficiency, including the initial assessment and importance of rapid detection and intervention B. Mechanical Ventilation <u>Objectives:</u> Describe the indications for initiation of mechanical ventilation. Modify the ventilator prescription in response to patient data. Assemble the equipment and practice noninvasive positive-pressure ventilation. </td> </tr> </table>	Skill Stations	A. Cardiopulmonary Dysfunction <u>Objective:</u> Describe the management of children with cardiopulmonary deficiency, including the initial assessment and importance of rapid detection and intervention B. Mechanical Ventilation <u>Objectives:</u> Describe the indications for initiation of mechanical ventilation. Modify the ventilator prescription in response to patient data. Assemble the equipment and practice noninvasive positive-pressure ventilation.
Skill Stations	A. Cardiopulmonary Dysfunction <u>Objective:</u> Describe the management of children with cardiopulmonary deficiency, including the initial assessment and importance of rapid detection and intervention B. Mechanical Ventilation <u>Objectives:</u> Describe the indications for initiation of mechanical ventilation. Modify the ventilator prescription in response to patient data. Assemble the equipment and practice noninvasive positive-pressure ventilation.		
11:45 - 12:45 pm	Repeat Skill Stations		
12:45 - 1:30	Lunch		
1:30 - 2:00	Acute Upper and Lower Airway Disease <u>Objective:</u> Summarize the diagnosis, pathophysiology, and treatment of children with upper and lower airway disease		
2:00 - 2:30	Transport <u>Objective:</u> Describe communication process for safe transport of the critically ill child. Describe monitoring and equipment for transport.		
2:30 - 3:00	Pediatric Emergency Preparedness <u>Objective:</u> Describe the unique features of the pediatric population that make them particularly vulnerable during disasters.		
3:00 - 3:15	Break		
3:15 - 4:00	<table border="1"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Skill Stations</td> <td> A. Transport <u>Objectives:</u> Use case-based scenario to discuss factors that influence team composition and mode of transport. Identify problems or complications that can occur during transport. B. Accidental and Abusive Trauma <u>Objective:</u> Use case-based scenario to discuss appropriate assessment and management of trauma patients. </td> </tr> </table>	Skill Stations	A. Transport <u>Objectives:</u> Use case-based scenario to discuss factors that influence team composition and mode of transport. Identify problems or complications that can occur during transport. B. Accidental and Abusive Trauma <u>Objective:</u> Use case-based scenario to discuss appropriate assessment and management of trauma patients.
Skill Stations	A. Transport <u>Objectives:</u> Use case-based scenario to discuss factors that influence team composition and mode of transport. Identify problems or complications that can occur during transport. B. Accidental and Abusive Trauma <u>Objective:</u> Use case-based scenario to discuss appropriate assessment and management of trauma patients.		
4:00 - 4:45	Repeat Skill Stations		
4:45 - 5:00	Recap Day 1		
5:00	Adjourn		

Friday, June 7, 2024 – Day 2

Time	Activity
8:00 - 8:15 am	Review of Pretest/Recap Points from Previous Day
8:15 - 9:00	Neurologic Emergencies <u>Objective:</u> Review specific management principles and options for common neurologic emergencies.
9:00 - 9:45	Fluids, Electrolytes, and Metabolic Derangements <u>Objectives:</u> Discuss basic concepts of maintenance of intravascular fluid homeostasis. Discuss common electrolyte disturbances, and their recognition and management.
9:45 - 10:00	Break
10:00 - 10:30	Trauma <u>Objective:</u> Identify anatomic, physiologic, and mechanistic issues in trauma. Apply the ABCDE approach to resuscitation.
10:30 - 11:00	Sedation, Analgesia, and Neuromuscular Blockade <u>Objectives:</u> Identify risks and level of monitoring for procedural sedation. Explain the benefits and side effects of analgesics, sedatives, and neuromuscular agents.
11:00 - 11:45	<div style="display: flex;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); background-color: #cccccc; padding: 5px; font-weight: bold;">Skill Stations</div> <div style="padding-left: 10px;"> A & B. Sedation <u>Objective:</u> Identify the indications, risk factors, and level of monitoring needed for pediatric patients undergoing procedural sedation, and describe the differences among mild, moderate, and deep sedation <i>Same skill stations running concurrently.</i> </div> </div>
11:45 - 12:30 pm	Lunch
12:30 - 1:00	Postoperative Management <u>Objectives:</u> Describe the effects of anesthesia on the patient during postoperative period. Recognize and manage common postoperative complications
1:00 - 1:15	Break
1:15 - 2:15	<div style="display: flex;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); background-color: #cccccc; padding: 5px; font-weight: bold;">Skill Stations</div> <div style="padding-left: 10px;"> A. Integrative Scenarios <u>Objective:</u> Demonstrate the DIRECT methodology to provide care to a complex patient case using the knowledge and skills obtained during the course. B. Integrative Scenarios <u>Objective:</u> Demonstrate the DIRECT methodology to provide care to a complex patient case using the knowledge and skills obtained during the course. </div> </div>
2:15 - 3:15	Repeat Skill Stations
3:15 - 3:30	Recap of Day 2 and Evaluation
3:30	Adjourn

CONTINUING EDUCATION CREDIT

Registration, attendance, and submission of the **evaluation,** including a written response to questions related to any change in practice that you may make as a result of learning that took place at this activity, are required for successful completion and receipt of the certificate of attendance. Claim only those hours you attend.

Medical

This activity has been planned and implemented in accordance with the essential areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Children's Hospital Colorado and the Society of Critical Care Medicine. Children's Hospital Colorado is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. Children's Hospital Colorado designates this Live Activity for a maximum of 13.75 *AMA PRA Category 1 Credit(s)*[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Nursing

Children's Hospital Colorado is approved with distinction as a provider of nursing continuing professional development by Colorado Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. This educational activity for 13.75 nursing contact hour(s) is provided by Children's Hospital Colorado.

EMS

Children's Hospital Colorado is a State of Colorado recognized EMS Training Group (CO-049) and will provide 13.75 continuing education credit(s) for all pre-hospital providers.

Others

A certificate of attendance will be provided upon completion of this course.

Disclosure

Planners, faculty and others in control of content (either individually or as a group) have no relevant financial relationships with ineligible companies.

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TRAVEL ACCOMODATIONS

Lodging: There are two hotels located directly next to the event location and both offer Children's Hospital Colorado rates.

- Hyatt Regency Aurora- Denver Conference Center: 303.365.1234 [Hyatt website](#)
- SpringHill Suites by Marriot Denver at Anschutz Medical Campus: 720.859.1100 [SpringHill Suites website](#)

Airport: The Denver International Airport is the closest and recommended airport for air travel. www.flydenver.com