

## Pediatric Fundamental Critical Care Support

### Sample Course Schedule

Day 1			
Time	Activity (All lectures are required unless noted.)		
7:30 am – 8:00 am	Registration / Pretest (participants must hand in pretest at this time)		
8:00 am – 8:15 am	Welcome, Course Announcements, and FCCS Overview		
8:15 am – 8:45 am	<b>Assessment of the Critically Ill Child (optional)</b> <u>Objective:</u> Recognize the early signs and symptoms of critical illness		
8:45 am – 9:45 am	<b>Management of Acute Respiratory Failure and Mechanical Ventilation</b> <u>Objective:</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 am – 10:30 am	<b>Cardiovascular Evaluation and Shock</b> <u>Objective:</u> Review the various categories of shock, emphasizing early detection and rapid intervention		
10:30 am – 10:45 am	Break		
10:45 am – 11:45 pm	<table border="1"> <tr> <td style="background-color: #cccccc; text-align: center; vertical-align: middle;">Skill Stations</td> <td> <p><b>A. Cardiopulmonary Dysfunction</b> <u>Objectives:</u> Describe the management of children with cardiopulmonary deficiency, including the initial assessment and importance of rapid detection and intervention.</p> <p><b>B. Mechanical Ventilation</b> <u>Objectives:</u> Describe the indications for initiation of mechanical ventilation. Modify the ventilator prescription in response to patient data. Assemble the equipment necessary for NPPV. Practice techniques of NPPV.</p> </td> </tr> </table>	Skill Stations	<p><b>A. Cardiopulmonary Dysfunction</b> <u>Objectives:</u> Describe the management of children with cardiopulmonary deficiency, including the initial assessment and importance of rapid detection and intervention.</p> <p><b>B. Mechanical Ventilation</b> <u>Objectives:</u> Describe the indications for initiation of mechanical ventilation. Modify the ventilator prescription in response to patient data. Assemble the equipment necessary for NPPV. Practice techniques of NPPV.</p>
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11:45 pm – 12:45 pm	Repeat Skill Stations		
12:45 pm – 1:30 pm	Lunch		
1:30 pm – 2:00 pm	<b>Acute Upper and Lower Airway Disease (optional)</b> <u>Objective:</u> Summarize the diagnosis, pathophysiology, and treatment of children with upper and lower airway disease.		
2:00 pm – 2:30pm	<b>Transport (optional)</b> <u>Objective:</u> Describe communication process for safe transport of the critically ill child. Describe monitoring and equipment for transport.		
2:30 pm – 3:00 pm	<b>Trauma (optional)</b> <u>Objective:</u> Identify anatomic, physiologic, and mechanistic issues in trauma. ABCDE approach to resuscitation.		
3:00 pm – 3:15 pm	Break		
3:15 pm – 4:00 pm	<table border="1"> <tr> <td style="background-color: #cccccc; text-align: center; vertical-align: middle;">Skill Stations</td> <td> <p><b>A. Transport</b> <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.</p> <p><b>B. Accidental and Abusive Trauma</b> <u>Objective:</u> Use case-based scenario to discuss appropriate assessment and management of trauma patients.</p> </td> </tr> </table>	Skill Stations	<p><b>A. Transport</b> <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.</p> <p><b>B. Accidental and Abusive Trauma</b> <u>Objective:</u> Use case-based scenario to discuss appropriate assessment and management of trauma patients.</p>
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4:00 pm – 4:45 pm	Repeat Skill Stations		
4:45 pm – 5:00 pm	Recap Day 1		

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Day 2			
Time	Activity		
8:00am – 8:30 am	Review of Pretest/ Recap Points from Previous Day		
8:30 am – 9:00 am	<b>Fluids, Electrolytes, and Metabolic Derangements-</b> <u>Objectives:</u> Discuss basic concepts of maintenance of intravascular fluid homeostasis. Discuss common electrolyte disturbances, and their recognition and management.		
9:00 am – 9:45 am	<b>Neurologic Emergencies</b> <u>Objectives:</u> Review specific management principles and options for common neurologic emergencies.		
9:45 am – 10:00 am	Break		
10:00 am – 10:30 am	<b>Acute Infections (optional)</b> <u>Objectives:</u> Identify systemic and site-specific clinical manifestations of life-threatening infections, including the uses of clinical laboratory tests. Apply principles of antimicrobial treatment for empiric therapy and for specific infections.		
10:30 am – 11:00 am	<b>Sedation, Analgesia, and Neuromuscular Blockade</b> <u>Objective:</u> Identify risks and level on monitoring for procedural sedation. Explain the benefits and side effects of analgesics, sedatives, and neuromuscular agents.		
11:00 am – 11:30 am	<b>Postoperative Management</b> <u>Objectives:</u> Describe the effects of anesthesia on the patient during postoperative period. Recognize and manage common postoperative complications.		
11:30 pm – 12:15 pm	Lunch		
12:15 pm – 1:15 pm	<table border="1"> <tr> <td style="background-color: #cccccc; text-align: center; vertical-align: middle;"><b>Skill Stations</b></td> <td> <p><b>A. Integrative Scenarios</b> <u>Objective:</u> Demonstrate the DIRECT methodology to provide care to a complex patient case using the knowledge and skills obtained during the course.</p> <p><b>B. Invasive Devices</b> <u>Objective:</u> Systemic approach to radiographic interpretation.</p> </td> </tr> </table>	<b>Skill Stations</b>	<p><b>A. Integrative Scenarios</b> <u>Objective:</u> Demonstrate the DIRECT methodology to provide care to a complex patient case using the knowledge and skills obtained during the course.</p> <p><b>B. Invasive Devices</b> <u>Objective:</u> Systemic approach to radiographic interpretation.</p>
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3:15 pm – 3:30 pm	Recap of Day 2		
3:30 pm – 4:30 pm	Posttest and Adjourn		