



Fundamental Critical Care Support (FCCS) With Simulation

Dates: September 23-24, 2023

FW2024106

Center for Advanced Medical Learning and Simulation (CAMLS)
124 S. Franklin, Tampa, Florida 33602

Needs Statement and Educational Gap:

Early identification of the patient at risk for life threatening illness makes it easier to manage them appropriately and prevent further deterioration. Many clinical problems, if recognized early, can be managed with simple measures such as supplemental oxygen, respiratory therapy intervention, intravenous fluids or effective analgesia. Early identification of patients in trouble allows clinicians time to identify the main physiological problem, determine its underlying cause and begin treatment. The longer the interval between the onset of an acute illness and the appropriate intervention, the more likely it is that the patient's condition will deteriorate, even to cardiopulmonary arrest. Studies have demonstrated that physiological deterioration precedes many cardiopulmonary arrests by hours, suggesting that early intervention could prevent the need for resuscitation, admission to the ICU and other sentinel events. The purpose of this activity is to assure the clinical team has the knowledge, skills and abilities to recognize, assess, and rapidly intervene with the deteriorating patient.

FCCS, the Society of Critical Care Medicine's highly recognized national curriculum course introduces principles important in the initial care of critically ill or injured patients to physicians, nurses, and other healthcare providers who are not skilled in critical care but who must care for such a patient in anticipation of the arrival of an intensivist or the pending transfer of the patient to a more suitable facility. Along with lectures, the FCCS course features interactive, team-based case scenarios and skill stations unique to critically ill or injured patient.

Target Audience:

Non-Intensivists, Hospitalists, Emergency and Trauma Physicians, APPs, Nurses, Respiratory Therapists and Pharmacists involved in the stabilization and management the critically ill patient.

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Learning Objectives and Competencies:

Upon completion of the course, the **Physician, ARNP or PA** participant should be able to:

- Prioritize assessment needs for critically ill and injured patients
- Select appropriate diagnostic tests
- Identify and respond to significant changes in unstable patients
- Recognize and initiate management of acute life threatening conditions
- Determine the need for expert consultation and/or patient transfer

Upon completion of the course, the **RN and Pharmacist** participant should be able to:

- Evaluate assessment needs for the critically ill or injured patient.
- Review appropriate diagnostic test results.
- Recognize and communicate significant changes in the unstable patient.
- Recognize and initiate management of acute life-threatening conditions.
- Recognize and communicate the need for expert consultation and/or patient transfer.
- Prepare for optimal transfer.

Course Director and Faculty

Course Director:

Dr. Luis Llerena, MD, FACS, CHSE-A

Medical Director

USF Health – Center for Advanced Medical Learning and Simulation (CAMLs)

Professor, Department of Surgery

Morsani College of Medicine

Faculty:

All faculty are the Society of Critical Care Management approved FCCS instructors or recognized community experts.

Agenda:

Day One

Schedule	Session	Format	Learning Objectives
7:30 - 8:00 AM	Registration and Breakfast		

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8:00 - 8:15 AM	Introduction Course Director		
8:15 - 8:45 AM	Recognition and Assessment of the Seriously Ill Patient	Lecture	• Recognize early signs and symptoms of critical illness • Describe the framework for initial assessment of the critically ill patient • Specify how treatments and interventions should be delivered in relation to assessment
8:45 - 9:15 AM	Acute Respiratory Failure: Diagnosis and Management	Lecture	• Define and classify acute respiratory failure • Describe the pathophysiology and manifestations of acute respiratory failure • Discuss oxygen supplementation strategies in acute respiratory failure
9:15 - 9:25 AM	Break		
9:25 - 10:05 AM	Mechanical Ventilation I	Lecture	• Discuss indications and techniques for noninvasive positive pressure ventilation (NPPV) • Describe types of breaths and modes of mechanical ventilation • Outline settings and monitoring for initiation of mechanical ventilation
10:05 - 10:35 AM	Mechanical Ventilation II	Lecture	• Review principles of brain insult and mechanisms of neuronal injury • Apply concepts of intracranial hypertension and brain oxygen delivery and consumption to management of the brain-injured patient • Review the clinical and diagnostic assessment of a brain-injured patient • List general treatments that are common in brain injury • Review management principles for selected pathophysiologic conditions

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10:35 – 10:55 AM	Introduction to Simulation	Lecture	
11:05 - 12:35 PM	Skills Stations:	Skill Station	• Skill Stations
12:45 – 1:15 PM	Lunch and review pretest		
1:25 - 2:55 PM	Skills Stations:	Skill Station	• Skill Stations
3:05 - 3:35 PM	Special Considerations	Lecture	• Outline the diagnosis and management of pulmonary embolism (PE) • Describe prophylactic therapy for venous thromboembolism • List general management principles for severe gastrointestinal hemorrhage • Describe appropriate prophylactic therapy for the prevention of stress-related gastritis • Summarize the principles of poisoning management • Outline the diagnosis and management of frequent hematologic and oncologic emergencies
3:35 - 4:20 PM	Life Threatening Infections	Lecture	• Understand and apply terminology specific to life-threatening infections • List risk factors for development of infection • Identify clinical manifestations of life threatening infections and understand use of laboratory tests in diagnosis • Describe variables used to guide selection of antimicrobial therapy • Outline antimicrobial treatment for empiric therapy and specific infections
4:20 - 4:30 PM	Break		

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4:30 - 5:00 PM	Management of Life Threatening Electrolyte and Metabolic Disturbances	Lecture	• Review the emergent management of severe electrolyte disturbances • Recognize manifestations of adrenal insufficiency in the critically ill patient and initiate appropriate treatment • Describe the management of severe hyperglycemic syndromes
5:00 – 5:15 PM	Recap and Q and A		
5:15 PM	Adjourn		

Fundamentals of Critical Care Support

Day Two

Schedule	Session		Learning Objectives
7:30 - 8:00 AM	Registration and Breakfast		
8:00 - 8:30 PM	Critical Care in Pregnancy	Lecture	• Describe physiologic alterations in pregnancy • Discuss diagnosis and management of hypertensive disorders • Identify manifestations and treatment of HELLP syndrome • Outline approaches to management of other conditions in pregnancy • List priorities for managing trauma in pregnancy
8:30 - 9:15 AM	Monitoring Oxygen Balance and Acid-Base Balance	Lecture	• Outline the determinants of oxygen balance • Recognize disorders of oxygen delivery • Identify principles and limitations of techniques for monitoring oxygen balance • Explain the use of acid-base status in monitoring the seriously ill patient
9:15 - 9:45 AM	Diagnosis & Management of Shock	Lecture	• Identify the main categories of shock • Discuss goals of resuscitation in shock • Summarize principles of shock management • Describe effects of vasopressor and inotropic agents • Discuss the differential diagnosis and management of oliguria

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9:45 - 10:15 AM	Ethics in Critical Care Medicine	Lecture	• Summarize types of advance directives • Describe 4 ethical principles in medical ethics • Explain best case/worst case model and time-limited trials • Discuss futility, its definition and application • Understand the role of palliative care
10:15 - 10:25 AM	Break		
10:25 - 10:55 AM	Neurologic Support	Lecture	• Review principles of brain insult and mechanisms of neuronal injury • Apply concepts of intracranial hypertension and brain oxygen delivery and consumption to management of the brain-injured patient • Review the clinical and diagnostic assessment of a brain-injured patient • List general treatments that are common in brain injury • Review management principles for selected pathophysiologic conditions
10:55 - 11:25 AM	Basic Trauma and Burn Support	Lecture	• Prioritize and initiate assessment of the traumatized patient • Initiate treatment of life-threatening traumatic injury • Use appropriate radiography in identifying significant traumatic injury • Identify and respond to changes in the status of the injured patient • Initiate early burn management • Identify patients requiring transfer to a higher level of care
11:35 - 12:35 PM	Skills Sessions:	Skill Station	• Skill Stations
12:45 - 1:15 PM	Lunch		
1:25 - 2:25 PM	Skills Sessions:	Skill Station	Skill Stations

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2:40 - 3:55 PM	Post Test and Review
3:55 - 4:10 PM	Wrap up and Evaluation
4:10 PM	Adjourn

Disclosures and Disclaimers

Relevant Financial Relationships:

Prior to the activity, USF Health will disclose and mitigate all relevant financial relationships that relate to the content of the activity.

Prerequisites and Completion Requirements:

Participants must complete the FCCS pre-test prior to attending the course. For successful course completion, participants must sign-in each day, participate in all lectures and skill stations, complete the course evaluation, and score 70% or higher on the post-test.

Fees:

Registration Fee schedule: \$900.00 for Physicians, \$750.00 for PAs and APRNs. \$600.00 for Nurses and Pharmacists. Registration includes course content, simulations, breakfast, and lunch, the FCCS® book, and certification for those who successfully pass.

Registration Cancellation:

Due to instructors and resources being procured based on course attendance, USF Health Professions Conferencing Corporation must adhere to the following cancellation policy.

- All requests for cancellation, transfer or refunds must be received in writing to camlsoperations@usf.edu.
- Cancellations received **at least 31 calendar days** prior to the start of the activity, a refund will be provided minus a \$75 administrative fee and the cost of the book and shipping.(up to a total \$165 combined with shipping, textbook and admin fee)
- Requests for a transfer to another course date **at least 31 calendar days** prior to the start of the activity will be honored with no additional fees. The new course date must be within 6 months of the original course date.
- No refunds or requests for transfer will be provided if cancellation is received **within (and including) 30 calendar days** of the start date of the activity
- No-shows are not eligible for a refund or transfer.
- For internal USF participants or organizations wishing to be invoiced for registrations, your department or organization will be invoiced according to the above guidelines.

USF Health Professions Conferencing Corporation reserves the right to cancel this activity due to unforeseen circumstances, in which you will be contacted via phone and/or email to reschedule or issue a refund. USF Health Professions Conferencing Corporation is not responsible for travel expenses incurred by the participants in the rare event that this activity is canceled or postponed.

Accommodations

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Partner Hotel: CAMLS has a partnership with the Hyatt in Downtown Tampa. Please visit the <https://caml-s-us.org/booking-information/downtown-hotels/> and click “book hotel” in order to receive the CAMLS discount.

Accreditation:

Physicians



ACCME: USF Health is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

USF Health designates this live activity for a maximum of 15.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity

Florida Board of Medicine: USF Health is an approved provider of continuing education for physicians through FBN 50-2970. This program has been approved for 15.0 contact hours.

Florida Board of Osteopathic Medicine: USF Health is an approved provider of continuing education for osteopathic physicians through Florida Board of Osteopathic Medicine (FBOM) 2970. This program has been approved for up to 15.0 contact hours

Nurses:

Florida Board of Nursing: USF Health is an approved provider of continuing education for nurses through FBN 50-2970. This program has been approved for 15.0 contact hours.

Florida Board of Nursing (FBN) certificates have reciprocity in most states. Nurses who do not have a Florida license are encouraged to contact their state board to determine if and how they can apply an FBN certificate to their state's CE requirements.

APRNs:

Advanced Practice Nurses: AANPCP accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credit™* from organizations accredited by ACCME. Nurse Practitioners who participate will receive a certificate of completion commensurate with the extent of their participation.

Physician Assistants:

NCCPA: PAs may claim a maximum of 15.0 Category 1 credits for completing this activity. NCCPA accepts *AMA PRA Category 1 Credit™* from organizations accredited by ACCME or a recognized state medical society.

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Florida Physician Assistant Continuing Education Credit: USF Health is an approved provider (50-2970) of Florida Physician Assistant continuing education credit through the Florida Board of Medicine. This activity has been approved for 15.0 continuing education credit(s)

Pharmacists: Florida Board of Pharmacy: USF Health is an approved provider of continuing education for Pharmacists through the Florida Board of Pharmacy (provider number 2970). This program has been reviewed and approved for up to 15.0 contact hours.

Further Information

If you have activity related questions please contact camlsoperations@usf.edu, or call 813-224-7860.

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