



Current Concepts in Adult Critical Care Sample Course Agenda

Day 1	
7:15 a.m. – 8:00 a.m.	Registration and submit pretest
8:00 a.m. – 8:15 a.m.	Welcome and Overview
8:15 a.m. – 9:00 a.m.	<p>Atrial Fibrillation in the ICU</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> Identify the pathophysiology of atrial fibrillation Determine whether the development of atrial fibrillation can be predicted Identify potential prevention strategies
9:00 a.m. – 9:45 a.m.	<p>Special Populations: Cancer and Transplant Care in the ICU</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> Understand the causes, treatment options, and prognosis of cancer patients in the ICU Review the most commonly performed solid organ transplantations Outline the main causes for ICU admission in transplant recipients
9:45 a.m. – 10:30 a.m.	<p>Corticosteroid Use in Critically Ill Patients</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> Identify the therapeutic use of corticosteroids in septic shock according to recent evidence Discuss the role of corticosteroids in community-acquired bacterial pneumonia Review current evidence for corticosteroids in the management of acute respiratory distress syndrome
10:30 a.m. – 10:45 a.m.	Break
10:45 a.m. – 11:30 a.m.	<p>Glycemic Control Into the Third Decade</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> Justify glucose targets for various critical care populations Compare glucose metrics for diffusion, variability, and safety Describe the parameters for safe use of a glucose meter in a critical care patient

11:30 a.m. – 12:15 a.m.	<p>Sepsis Recognition and Management: Bringing Theory and Guidelines Closer to Practice</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> • Highlight the main themes in Surviving Sepsis Campaign (SSC) guidelines (2004 to current) • Review some sepsis resuscitation management questions that require more guidance from SSC • Demonstrate that physiology-based resuscitation can facilitate evidence-based, yet personalized sepsis care
12:15 p.m. – 1:15 p.m.	Lunch
1:15 p.m. – 2:00 p.m.	<p>Multi-Drug Resistant Pathogens in the ICU</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> • Review the rise in multidrug-resistant pathogens, with a focus on gram-negative bacteria • Outline the epidemiology of multidrug-resistant pathogens • Examine the newer antibiotics against multidrug-resistant pathogens
2:00 p.m. – 2:45 p.m.	<p>Anticoagulation Agents, Coagulation Monitoring, and Reversal of Anticoagulation</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> • Discuss the key differences between warfarin and the nonvitamin K oral anticoagulants • Understand the effect of direct oral anticoagulants on routine coagulation testing • Identify the pharmacological options for reversal of anticoagulants that cause life-threatening bleeding
2:45 p.m. – 3:00 p.m.	Break
3:00 p.m. – 3:45 p.m.	<p>Alternative Staffing in Critical Care: Telemedicine and Advanced Practice Providers</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> • Outline the advantages and disadvantages of telemedicine and advanced practice providers in critical care • Describe staffing options to support critical care intensivists • Review the positive outcomes associated with each support service
3:45 p.m. – 4:30 p.m.	<p>Mechanical Ventilation: Lung-Protective Approaches and Ventilator Liberation</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> • Define the open lung concept and explore lung-protective strategies • Identify current concepts in a lung-protective approach to ventilation • Outline factors in mechanical ventilation weaning and ventilator liberation
4:30 p.m. – 4:45 p.m.	Questions and adjournment

Day 2	
7:30 a.m. – 8:00 a.m.	Recap of Day 1
8:00 a.m. – 8:45 a.m.	<p>Cytokine Release Syndrome in the Era of Cancer Immunotherapy</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> • Review advances in cancer immunotherapy • Understand the mechanism of action of chimeric antigen receptor (CAR) T cells and clinical data on CAR T therapy
8:45 a.m. – 9:30 a.m.	<p>Preventive Therapies in the ICU: Venous Thromboembolism, Stress-Related Mucosal Damage, and Acute Delirium</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> • Discuss the relevance, importance, and treatment options for reducing the risk of venous thromboembolism (VTE) in adult critically ill patients • Discuss the relevance, importance, and treatment options for the prevention of stress-related mucosal damage (SRMD) in adult critically ill patients • Identify the nonpharmacologic preventive measures for acute delirium in adult critically ill patients
9:30 a.m. – 10:15 a.m.	<p>Antipsychotics in the ICU</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> • Discuss the pharmacologic characteristics of antipsychotic medications • Review literature evaluating the use of antipsychotic medications in critically ill patients • Identify benefits and risks associated with the use of antipsychotics in the intensive care unit (ICU)
10:15 a.m. – 10:30 a.m.	Break
10:30 a.m. – 11:15 a.m.	<p>Timing of Dialysis for Acute Kidney Injury in the ICU</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> • Describe studies on timing of acute renal replacement therapy (RRT) • Understand when early RRT may be indicated • Describe factors that may influence RRT decisions
11:15 a.m. – 12:00 p.m.	<p>Staphylococcus Infections in the ICU</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> • Appreciate the scope and importance of <i>Staphylococcus</i> infections in critically ill patients ▪ Understand the principles behind effective management ▪ Discuss the treatment of <i>Staphylococcus aureus</i> infections in the critical care setting
12:00 p.m. – 1:00 p.m.	Lunch
1:00 p.m. – 1:45 p.m.	<p>Intra-Abdominal Hypertension and Abdominal Compartment Syndrome</p> <p><i>Objectives:</i></p> <ul style="list-style-type: none"> • Describe the pathophysiological processes of intra-abdominal hypertension and abdominal compartment syndrome • Present the signs, symptoms, and appropriate diagnostic tests for intra-abdominal hypertension and abdominal compartment syndrome • Discuss current management of intra-abdominal hypertension and abdominal compartment syndrome

1:45 p.m. – 2:30 p.m.	Hepatic Tipping Points <i>Objectives:</i> <ul style="list-style-type: none"> • Distinguish acute liver failure from acute-on chronic liver failure • Manage unique problems that arise in the critically ill patient with cirrhosis
2:30 p.m. – 2:45 p.m.	Break
2:45 p.m. – 3:30 p.m.	Acute Mechanical Circulatory Support <i>Objectives:</i> <ul style="list-style-type: none"> • Review the commonly used devices for acute mechanical circulatory support • Discuss the key management principles of these device
3:30 p.m. – 4:15 p.m.	Update: Fluid Management in the ICU <i>Objectives:</i> <ul style="list-style-type: none"> • Review how volume management and hemodynamic support should be guided by the phase of critical illness • Recognize that hypervolemia is strongly associated with worsened outcomes in critically ill patients • Describe how avoidance of hypervolemia and rapid resolution to euvolemia are encouraged
4:15 p.m. – 5:00 p.m.	Posttest and adjournment