Preliminary Program

February 17-20, 2019
San Diego Convention Center  |  San Diego, California, USA

REGISTER EARLY TO SECURE YOUR TOP CHOICES IN COURSES AND ACCOMMODATIONS AT THE LOWEST RATES

SEE PAGE 11 FOR PRICING AND REGISTRATION INSTRUCTIONS. YOU MAY ALSO VISIT SCCM.ORG/CONGRESS OR CONTACT SCCM CUSTOMER SERVICE AT +1 847 827-6888.
Message from the Cochairs

Join us at the Society of Critical Care Medicine’s (SCCM) 48th Critical Care Congress in San Diego, California, USA.

With great weather, a spectacular coastline, and diverse coastal, urban, and inland communities, San Diego is a perfect backdrop for the 2019 Congress, highlighting the waves of change in the continuum of critical care.

This event will feature innovative learning experiences that encompass the full range of the most up-to-date, evidence-based developments in critical care medicine.

▲ Attend plenary sessions, which will feature presentations by authorities across disciplines on a wide array of research and clinical topics.
▲ Participate in educational sessions, hands-on workshops, and interactive debates led by internationally renowned faculty.
▲ Collaborate with members of the entire multiprofessional team to identify solutions to complex problems, reduce barriers, and improve patient care standards.
▲ Engage in numerous events and networking opportunities with members of the entire multiprofessional team.
▲ Explore the newest tools and technologies provided by over 100 exhibitors.

Take advantage of this opportunity to expand your critical care knowledge and enhance the care you deliver to patients as you interact with nearly 6,000 critical care colleagues from around the globe.

Let us work together toward a world in which all critically ill and injured persons receive the highest quality of care.
Congress Highlights

Don't miss these popular Congress events while in San Diego.

**Tech Lab**
Learn, collaborate, and network with fellow attendees about the latest and best technologies available in your personal and professional life. Technology demonstrations, experiential learning, social media analysis, and talks about a variety of hot technology topics will be featured.

**Critical Care Quiz Show**
The 48th Critical Care Congress will feature an updated and more robust Critical Care Quiz Show! Teams will be invited to match wits against each other in elimination and then final rounds. Attendees will gather to watch and root for their teams during the friendly competition, as contestants show off their critical care knowledge in this fast-paced game show.

**Critical Crosstalk Theater**
Participate in stimulating discussions on critical care. This theater features educational sessions and debates focused on critical care topics in the fields of internal medicine, anesthesiology, surgery, and more. Discussions are led by SCCM faculty members and specialty section members.

**Roundtable Discussions**
Discuss critical care topics and network with peers on a variety of professional, career, and leadership subjects. These discussions are led by experienced moderators and are designed to provide participants with multiple quick learning opportunities within each time block.
Popular Congress Events and Sessions

Fellowship Program Directors Luncheon
Critical care fellowship program directors, fellows, members of multiprofessional ICU teams, and those with a passion for critical care education are invited to participate in the Fellowship Program Directors Luncheon to be held Monday, February 18, 2019, from 12:00 p.m. to 1:20 p.m., at the San Diego Convention Center. This year's luncheon session, titled “Mentorship Programs in Critical Care: A Road Less Traveled,” will address the need for appropriate multiprofessional mentorship programs in critical care education around the world. This luncheon session will allow for an open-forum discussion with attendees about the mentorship experience. Attendees will leave with new ideas and a fresh perspective and will be able to establish and support this area of critical care training in their institutions. This is a ticketed session and requires advance registration and an additional fee to attend.

Advanced Practice Provider Networking Luncheon
Critical care advanced practice providers (APPs) are invited to participate in an APP Networking Luncheon to be held Tuesday, February 19, 2019, from 12:00 p.m. to 1:20 p.m. APPs will have the opportunity to participate in informal networking and roundtable discussions on topics related specifically to APPs and their professional success. Content will be multiprofessional in scope and will cover the most challenging topics for APPs in the critical care setting. This is a ticketed session and requires advance registration and an additional fee to attend. Space is limited.

Educational Symposia
Learn about clinical breakthroughs and advances that lead to better patient care during these thought-provoking presentations. Each session is presented by leading experts in critical care and offers a thorough analysis of the developments and controversies affecting most intensive care unit (ICU) environments. These industry sessions are complimentary for all Congress registrants; no additional registration is needed to attend.

Abstract Presentations

Research Snapshot Theaters
Authors of abstracts and case reports will present their submissions with time for questions and answers. Sessions will be moderated by noted faculty and experts to facilitate the exchange of ideas and commentary. Presentations will be held in designated sections of the Exhibit Hall from Sunday, February 17, 2019, through Tuesday, February 19, 2019.

Star Research Presentations
These presentations will be scheduled, unopposed, on Sunday, February 17, 2019, from 3:45 p.m. to 5:45 p.m. The top 64 abstracts submitted will be highlighted.

Awards Presentations
Winners of SCCM's abstract-based awards will be recognized during a ceremony on Tuesday, February 19, 2019.
Popular Congress Events and Sessions

Plenary Sessions
Attend thought-provoking presentations that promote innovative developments in critical care. Plenary sessions are held at unopposed times, with presentations given by distinguished, world-renowned leaders in the critical care field. Confirmed speakers include:

- **Rana L. Awdish, MD, FACCp**
  - Ake Grenvik Honorary Lecture
  - *A View from the Edge: Creating a Culture of Caring*
  - Critical Care Physician
  - Director of the Pulmonary Hypertension Program, Henry Ford Hospital
  - Medical Director, Care Experience, Henry Ford Health System
  - Detroit, Michigan, USA

- **Robert H. Bartlett, MD**
  - Lifetime Achievement Award
  - *Extracorporeal Life Support in Critical Care*
  - Professor of Surgery, Emeritus
  - University of Michigan
  - Ann Arbor, Michigan, USA

- **Ronald V. Maier, MD, FACS, FRCS Ed (Hon)**
  - William Shoemaker Honorary Lecture
  - *Response to Injury and Stress: A Genomic Storm*
  - Jane and Donald D. Trunkey Professor and Vice Chair of Surgery
  - University of Washington
  - Seattle, Washington, USA
  - Surgeon-in-Chief
  - Harborview Medical Center
  - Seattle, Washington, USA

Additional plenary sessions and late-breaking plenary speakers will be announced early in 2019! Check sccm.org/Congress for details.
Critical Care Ultrasound: Adult
Gain the realistic training needed to perform and interpret ultrasound imaging during this two-day comprehensive course. Participants benefit from skill stations that allow the immediate integration of learned skills using live models. Hands-on learning with a high faculty-to-attendee ratio includes topics such as Cardiac Output, Left/Right Ventricular Function, Focused Assessed Transthoracic Echocardiography Examination, Vascular Ultrasound, and Ask the Expert. This course will be held at the Hilton San Diego Bayfront hotel.

Critical Care Ultrasound: Pediatric and Neonatal
Learn how to perform and interpret pediatric and neonatal ultrasound imaging during this comprehensive two-day course. Expert faculty will review the latest pediatric and neonatal strategies in ultrasound image interpretation and diagnostic challenges. Extensive faculty coverage ensures a significant hands-on experience for each participant. Topics covered at the skill stations include Vascular and Guided Procedures, Volume Status, Ventricular Function, and Ask the Expert. This course will be held at the Hilton San Diego Bayfront hotel.

Current Concepts in Adult Critical Care
Enhance and update your critical care knowledge by attending this two-day multidisciplinary course, which will highlight a variety of topics applicable to the intensive care unit setting. The interactive format will include presentations on select topics, including Drug Withdrawal Syndromes, Cytokine Release Syndrome, Inhaled Antibiotics for Respiratory Infection, and the pro/con discussion, Do Mandates Improve Sepsis Care and Outcomes? Panel discussion provides attendees the opportunity to ask questions. Attendees will receive an accompanying book written by the faculty.

Current Concepts in Pediatric Critical Care
Attain expert knowledge and bring home new information and approaches for your pediatric critical care practice. This two-day interactive course with panel discussions will focus on clinical challenges pertinent to the critical care practitioner and will provide insight into new and controversial topics. The 16 presentations will include Tiered Transfusion Strategies, Metabolic Emergencies, Pharmacologic and Mechanical Support in Pediatric Heart Failure, and Toxidromes of Emerging Street Drugs. Attendees will receive an accompanying book written by the faculty.

Disaster Medicine and Toxicologic Emergencies for the Veterinary Critical Care Specialist
Held in partnership with the American College of Veterinary Emergency and Critical Care
This two-day program is designed for veterinary emergency and critical care practitioners, residents, and interns. The first day will feature an in-depth look at common toxicities affecting cats and dogs. The program will emphasize mechanism of action, diagnosis, and treatment of toxins leading to emergency presentation and requiring intensive care and support. Many veterinary intensive care units and emergency departments around the country have been faced with patient management in the face of a natural disaster. The second day of the program will cover common environmental emergencies that occur with fires and hurricanes, as well as facility preparedness, disaster response teams, and unanticipated events based on the experiences of the presenters.

Fundamental Critical Care Support: Obstetrics
Fundamental Critical Care Support: Obstetrics is a newly developed Fundamentals licensed course. This two-day course is designed for intensivists and other critical care clinicians who focus on maternal/fetal critical care and those in obstetrics seeking additional education in critical care. Course content covers physiologic changes during pregnancy, specific obstetric medical conditions and their appropriate treatment, maternal cardiovascular resuscitation and airway management of critically ill pregnant patients, and appropriate steps in fetal assessment, delivery, and neonatal management. Skill stations will complement the lectures and allow course participants to practice clinical scenarios.
**Airway Management for the Critically Ill Patient**  
This full-day course will include didactic discussion and hands-on learning for emergent intubation, airway management pharmacology, rescue techniques for maintaining ventilation, and traditional and novel techniques and tools for difficult airway management in the adult and pediatric population. Attendees will also learn from expert faculty at skill stations encompassing laryngoscopy, fiberoptic intubation, surgical approaches to airway establishment, and rescue strategies in adult and pediatric airway management.

**Bedside Pharmacologic Management**  
The first- and second-line therapies failed; you are already “off the map” in terms of guidelines, protocols, algorithms, and order sets. Now what? What exactly are the rules and what skills do you need to (safely) break them? Come and explore solutions for common clinical challenges—and misadventures, whoops!—in medication management with leading experts. Topics for this eight-hour course will include toxicology, neurocritical care, pain, agitation, sepsis, and shock. There will be an emphasis on skills and practice that challenge the new and seasoned clinician alike.

**ICU Simulation Bootcamp: A Multidisciplinary Approach to Bedside Emergencies and Teamwork**  
This high-fidelity simulation course is designed for ICU providers in training (senior residents, fellows) and all new-to-practice ICU providers (physicians, nurses, nurse practitioners, physician assistants, pharmacists, and respiratory therapists). Attendees will participate in high-fidelity simulated ICU emergencies to improve teamwork, leadership, and situational awareness in acute ICU care. Attendees will practice managing high-risk but infrequent ICU-type conditions in a realistic environment and then debrief the learning experience in collaborative and interactive sessions. This full-day course is not intended for experienced intensivists or for medical or nursing students. *This course will take place at the Naval Medical Center in San Diego, California, USA. Round-trip transportation will be provided.*

Because this course is held in a U.S. government facility and there is a need for attendee security clearance, registration will be closed January 14, 2019. Attendee identification MUST be provided by January 14. No registrations can be taken after this date or on site. Further details will be shared at sccm.org/Congress.

**Liver Failure in the ICU**  
The liver failure population lends unique challenges to management for the intensive care specialist. As liver transplantation has expanded both in the United States and abroad, more hospitals are becoming referral centers for patients with liver disease. Featuring a combination of lectures and case studies, this half-day precourse is designed to highlight some of the common considerations in management of liver failure in the ICU.

**Neurologic Monitoring in the Adult and Pediatric ICUs**  
This full-day course will examine the usefulness and implementation of a variety of advanced neurologic monitoring modalities in the intensive care unit. Indications, choice of appropriate patients, advantages, and pitfalls will be discussed. Topics will include continuous electroencephalography (EEG), including post-processing modalities such as quantitative and amplitude-integrated EEG, brain tissue oxygenation, transcranial Doppler, microdialysis, and neurosonology, including ophthalmic ultrasound, intracranial pressure monitoring, biomarkers, and neuroimaging. A pediatric and adult case-based format will be incorporated, including medical and surgical clinical scenarios in cardiac arrest, stroke, traumatic brain injury, subarachnoid hemorrhage, and status epilepticus.

**Palliative and End-of-Life Care in the ICU: State of the Art and Skills for the Intensivist Team**  
Providing palliative and end-of-life care in the ICU is one of a clinician’s greatest challenges. This half-day course provides both didactic and experiential learning with multidisciplinary experts in the field. Attendees will learn the latest evidence in the fields of primary and specialty palliative care, as well as techniques to optimize complex discussions with clinicians, patients, and families. Participants will practice these skills in small group sessions focused on difficult conversations and formal family meetings.

**SCCM Critical Care Research Methodology and Career Trajectory Foundation Course**  
Why select a research career in critical care? Critical care is an integral part of hospital care, consuming a substantial proportion of the beds and the budget. With increasing critical care needs and better research infrastructure, critical care research is expected to boom. This full-day course will explore the nature and scope of choosing an academic research career in critical care and will include topics such as identifying funding opportunities, writing grant proposals, finding mentors, and research collaboration. This course is applicable to surgeons, physicians, anesthesiologists, pharmacists, and nurses. It will be predominantly directed toward trainees, residents, fellows, and medical students but is also applicable to early career professionals.
Comprehensive Program Topics

Learning Objectives
At the conclusion of the 48th Critical Care Congress, participants should be able to:
▲ Apply new knowledge and strategies to optimize the care of the critically ill patient as provided by the multiprofessional team
▲ Examine research results and evidence-based medicine techniques to evaluate and improve patient care
▲ Review and integrate guidelines to measure performance and identify areas for further study and improvement

ADMINISTRATION
* Big Data and Quality Measures
* Health Informatics
* Telemedicine Is Medicine, Tele-ICU Is ICU, Tele-Healthcare Is Healthcare

CARDIOVASCULAR
* Era of Bionic Patients: Total Artificial Heart and Assist Devices in the ICU (trainee-friendly session)
* Fibbing with the Atria: New-Onset Atrial Fibrillation
* Improving Outcomes in Cardiogenic Shock: Lessons Learned from a Primary PCI Laboratory

DISASTER
* Mass Casualty Events: Challenges and Opportunities in Caring for the Critically Ill and Injured

ENDOCRINE
* Pro/Con Debate on Steroids in the ICU: To Give or Not to Give
* Sweet and Sour: Pearls and Perils of Glycemic Management

EPIDEMIOLOGY/OUTCOMES
* Diagnostic Errors in the ICU: The Hidden Epidemic
* International Critical Care Trials Groups: What New Evidence Will Be Coming Down the Road?
* Life After Landmark RCTs
* The Critical Care Opioid Crisis

ETHICS/END OF LIFE
* Opioids: Crisis in Healthcare and Society

GASTROINTESTINAL/NUTRITION
* Does My ICU Patient Need a Surgical Consult?
* Gut Health in Critical Illness
* Pro/Con Debate: Do Vitamin C and Thiamine Make a Difference?

HEMATOLOGY
* Clot and Bleed: Challenging Situations in Deep Vein Thrombosis Prophylaxis
* Flipping the Switch on Bleeding: What’s New in Anticoagulant Reversal?

IMMUNOLOGY
* Immunomodulators in Critical Illness: Updates From Clinical Trials
* Patient on Fire: Immune Activation Syndromes in the ICU

INFECTION
* Optimizing Antibiotic Use in Your ICU
* Pro/Con Debate: Too Much of a Good Thing: Early Antibiotic Therapy in Sepsis

INTEGUMENT
* New Strategies in Managing Complex Wounds in Critically Ill Patients

NEUROLOGY
* Brain Bleed Essentials for General Intensivists
* How to Poison Your Patient in the ICU
* Seizures 101: What Every Intensivist Should Know

OBSTETRICS
* Amniotic Tsunami: Critical Care of the High-Risk Obstetric Patient
* Baby on My Brain: Neurologic Complications of the Peripartum Period

PATIENT AND FAMILY SUPPORT
* THRIVE: Bringing Meaning and Life Back to Survivors of Critical Illness
PEDIATRICS
- Anticoagulation In the Pediatric ICU: When Do We Need It?
- Guidelines for Pediatric Sepsis Beyond Clinical Care: Government Mandates and Adherence
- Controversies in Pediatric ARDS
- Controversies in the Management of the Pediatric ECMO Patient
- Mending Little Hearts
- Outcomes and Opportunities in the Pediatric ICU
- Pediatric Sedation: Less Is More
- Pediatric Surgical Critical Care: Same Patients, Different Perspectives
- Safety in the ICU Environment

PHARMACOLOGY
- Assessing and Addressing Antimicrobial Overuse in the ICU
- Metabolomics in Critical Illness: The Missing Link in Precision Medicine?
- Toxicology Pearls for Everyone

PLENARY
- A View From the Edge: Creating a Culture of Caring
- Extracorporeal Life Support in Critical Care
- Response to Injury and Stress: A Genomic Storm

PROCEDURES
- Open It Now!
- Pro/Con Debate: Procedures in the ICU: APP Versus GME
- Successful ICU Ultrasound Program Development: A Meaningful Journey Needs a Reliable Vessel

PROFESSIONAL DEVELOPMENT
- ACCM Distinguished Investigator Award and SCCM-Weil Research Grant Recipients
- ACCM Town Hall
- Critical Care Societies Collaborative Joint Session
- Fellowship Program Directors Luncheon: Mentorship Programs in Critical Care: A Road Less Traveled
- How to Become a Fellow of the American College of Critical Care Medicine (non-CE session)
- Late Breakers: Medical Journals
- Late Breakers: SCCM Journals
- Pro/Con: Who Should Be in Charge of Multidisciplinary Critical Care Training?
- Who Wants to Be Boss?

PULMONARY
- Barriers to Implementation of Evidence-Based Practices in Patients with ARDS
- Mechanical Ventilation in the Hot Seat: Three Rapid-Fire Debates
- Pro/Con Debate: Should Anyone Receive ECMO for ARDS?
- Pro/Con Debate: Should We Allow Spontaneous Breathing in ARDS?
- Respiratory Failure in the Morbidly Obese Patient: From Intubation to Extubation
- Think Outside the Endotracheal Tube: Using Noninvasive Ventilation and High-Flow Nasal Cannula

QUALITY AND PATIENT SAFETY
- American College of Critical Care Medicine Guidelines Update
- Beyond the CAUTI/CLABSI Bundle: How to Get to Zero When Change Is Hard
- Handoffs in Critical Care: How Can the Science Guide Us Toward Safer Care?
- Measures and Metrics and Mayhem

RENAL
- Pro/Con Debate: Are Acute Kidney Injury Biomarkers Ready for Clinical Use?

RESUSCITATION
- Assessing End Points of Resuscitation in the ICU
- Make It Stop: Hemorrhagic Control
- Organ Repair and Recovery: How Long, if Ever

SEPSIS
- ESICM/SCCM Joint Session
- Hot Controversies in Sepsis: Surfing the Waves of Change
- Precision Immunomodulation for the Treatment of Severe Sepsis
- Pro/Con Debate: Mandating Sepsis Treatment
- The Pathophysiology of Chronic Critical Illness: From Bench to Bedside
- Will These Controversies in Sepsis Ever End? Which Vasopressor Do I Use?

TRAUMA
- Case Records of the Joint Trauma System: Critical Care Focus
- Pro/Con Debate: Advances in Management of Chest Wall Trauma
- Pro/Con Debate: To REBOA or Not to REBOA

YEAR IN REVIEW
- Year in Review: Emergency Medicine and Prehospital Care
- Year in Review: Pharmacy
- Year in Review: Anesthesia
- Year in Review: Internal Medicine
- Year in Review: Neuroscience
- Year In Review: Research
- Year in Review: Surgery
- Year in Review: Nursing
Hotel Accommodations

Take advantage of discounted Congress hotel rates by making your reservation through the SCCM Housing Bureau. Reserve your room online at sccm.org/Congress.

The deadline for booking at the discounted SCCM rates is Friday, January 18, 2019.

Room reservations for all Congress hotels will be handled on a first-come, first-served basis. All reservations are subject to availability. For housing questions, including reservation changes or cancellations, please email SCCM@orchid.events or call +1 800 572-9712 (U.S. and Canada) or +1 801 505-4135 (all other countries), Monday through Friday, between 8:00 a.m. and 5:00 p.m. Central Time.

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<thead>
<tr>
<th>Hotels</th>
<th>Distance from Convention Center (miles)</th>
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<tr>
<td><strong>1. Hilton San Diego Bayfront</strong></td>
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<td>1 Park Boulevard</td>
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<tr>
<td>San Diego, CA 92101</td>
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<td><strong>8. Omni San Diego Hotel</strong></td>
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Visit sccm.org/Congress for additional housing details.
Travel

Air Travel
SCCM has arranged for discounted airfare with United Airlines and Delta Airlines for travel to San Diego, California, USA, for the 48th Critical Care Congress. Please visit sccm.org/Congress for details.

Car Rental
SCCM has negotiated special car rental rates for Congress with Hertz. Discounted rates are available from all San Diego locations for rental dates between February 10 and February 26, 2019. To receive the discounted rates, please refer to the information below.

Website: www.hertz.com
Phone: +1 800 654-2240 (U.S. and Canada)
+1 405 749-4434 (all other countries)
CV #: 050D0009

Taxi Service/Uber
Save time and money with the following transportation services.

Taxi
Taxi service is available from the San Diego International Airport (SAN) to all Congress hotels through the taxi dispatchers outside the baggage claim area. One-way fares during non-rush-hour periods start at $25. Fare is by meter only. Most major credit cards are accepted. For more information, visit http://www.san.org/parking-transportation/Taxis.

Sightseeing Activities
SCCM is offering sightseeing tours for attendees who want to discover all the amazing culture, natural beauty, and wide range of activities available in San Diego. Come discover what makes San Diego unforgettable! Visit sccm.org/Congress for more information.

Show Your Badge and Save
Exclusive attendee discounts are offered through our Show Your Badge and Save coupon program. Attendees who present their convention badge and coupons are offered savings at participating restaurants, shops, attractions, activities, and more. Complete details can be found at visitsandiego.com/coupons.
## 2019 Congress Registration Rates

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<tr>
<th>Early Rate (by December 19, 2018)</th>
<th>Advance Rate (by January 16, 2019)</th>
<th>Regular Rate (after January 16, 2019)</th>
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*Sponsored fellows will receive the Healthcare Professional rate.

Tuition includes online access to Congress On Demand following the live event and admission to all general Congress sessions, Exhibit Hall and Exhibit Hall refreshment breaks, and Research Snapshot Theaters.

## Additional ticketed sessions and events

You must register for Congress to attend these courses at the rates listed below. If you do not want to register for Congress but wish to attend one of the sessions/events listed below, please visit sccm.org/store or contact SCCM Customer Service.

**FRIDAY, FEBRUARY 15, and SATURDAY, FEBRUARY 16, 2019**
- Critical Care Ultrasound: Adult* $1,720
- Critical Care Ultrasound: Pediatric and Neonatal* $1,720
- Current Concepts in Adult Critical Care $699
- Current Concepts in Pediatric Critical Care $699
- Disaster Medicine and Toxicologic Emergencies for the Veterinary Critical Care Specialist $699
- Fundamental Critical Care Support: Obstetrics $699

**SUNDAY, FEBRUARY 17, 2019**
- San Diego Zoo $95

**MONDAY, FEBRUARY 18, 2019**
- Naval Medical Center $35

**TUESDAY, FEBRUARY 19, 2019**
- Advanced Practice Provider Networking Luncheon $95

**SELECT MEMBERSHIP TOURS**
For complete details, visit sccm.org/SelectTours.

**SATURDAY, FEBRUARY 16, 2019**
- Airway Management for the Critically Ill Patient $499
- Bedside Pharmacologic Management $499
- ICU Simulation Bootcamp: A Multidisciplinary Approach to Bedside Emergencies and Teamwork $499
- Neurologic Monitoring in the Adult and Pediatric ICUs $699
- SCCM Critical Care Research Methodology and Career Trajectory Foundation Course $499

**HAlF-DAY COURSES**
- Liver Failure in the ICU $299
- Palliative and End-of-Life Care in the ICU: State of the Art and Skills for the Intensivist Team $299

*This course will take place at the Hilton San Diego Bayfront hotel.

**Select Membership Tours are available only to those who hold SCCM's Select Membership and up to one guest. To join or upgrade to Select Membership, please visit sccm.org/membercenter. Congress registration is also required.
Emergency Neurological Life Support (ENLS):
What to do in the First Critical Hours of a Neurological Emergency
Thursday, February 21st, 2019
8:00 am – 4:30 pm | San Diego Convention Center, San Diego, CA

PROGRAM OVERVIEW
Emergency Neurological Life Support (ENLS) is designed to help healthcare professionals improve patient care and outcomes during the most crucial time - the critical first hours of the patient's neurological emergency. ENLS covers a collaborative, multi-disciplinary approach that outlines a consistent set of protocols, practical checklists, decision points, and suggested communication to use during patient management.

Completion of this course and online assessment provides 15 hours of Level 1 CME, ANCC, ACPE, and CAPCE credit, and two-year ENLS certification.

INTENDED AUDIENCE
Physicians, Nurses, Pharmacists, Emergency Medicine Professionals, Health Professionals Working in the Field of Neurocritical Care

REGISTRATION
Registration is open and being handled by the Neurocritical Care Society.
TO REGISTER FOR THIS COURSE, EMAIL:
enls@neurocriticalcare.org

For questions please contact us at info2@neurocriticalcare.org or 952-646-2033

ENLS OFFERS:
- Protocols that list important steps in managing a patient with a neurological emergency
- Treatment algorithms that can be administered across a spectrum of care environments
- Structured format for concise communication among members of the healthcare team
- Information on current advancements in treatment

TOPICS
Acute Non-Traumatic Weakness
Acute Stroke
Airway and Ventilation and Sedation
Coma
Intracerebral Hemorrhage
Ischemic Stroke
Meningitis/Encephalitis
Pharmacotherapy
Resuscitation following Cardiac Arrest
Spinal Cord Compression
Status Epilepticus
Subarachnoid Hemorrhage
Traumatic Brain Injury
Traumatic Spine Injury

RECENT ENLS COURSE REVIEWS
“ENLS was tough and useful. It is an amazing compilation of important and succinct information, with practical implications. Many primary specialty textbooks do not contain the information provided by ENLS, especially up-to-date details that guide fast-paced management decisions from the first encounter with the neurological or neurosurgical patient in the ED to his/her long-term NICU stay. Despite the fact that I am a mid-career neurointensivist with years of experience, I found few module questions quite challenging. I have definitely learned something new.”
– Panayiotis Varelas, MD, Henry Ford Hospital

“ENLS offers nurses with or without experience in neurocritical care an opportunity to develop expertise in how to manage neurologic emergencies. Skills learned through ENLS may mean the difference between recognizing time-sensitive patient changes and saving a life or missing subtle hints a patient is in distress. I cannot recommend this training enough. It is mandatory training for those who routinely care for neurocritical care patients and highly recommended to any nurse who may occasionally find themselves caring for a patient with stroke, trauma or other neurologic emergency.”
– Sarah Livesay, DNP, RN, ACNP-BC, ACNS-BC, Rush University (Chicago, IL)

*Also includes ANCC, ACPE, & CAPCE credits.

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TO REGISTER FOR THIS COURSE, EMAIL:
enls@neurocriticalcare.org

**This program is held in conjunction with the Society of Critical Care Medicine’s Critical Care Congress. The Society has reviewed the program to ensure its appropriateness for the critical care provider. However, the program is developed and managed by Neurocritical Care Society, an independent nonprofit organization, which is solely responsible for its content and management.**
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• Valuable information for staying up to date on the latest in ultrasound and echocardiography education, as well as team-based care to keep skills relevant
• Incorporation of clinical practice acumen with available published guidelines, expert consensus, and evidence-based recommendations

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