The Root of Better Care

Root® is an intuitive patient monitoring and connectivity platform designed to transform patient care from the operating theater to the general ward through a powerful combination of the following high-impact innovations:

- **Radical-7®** Instant interpretation of Masimo's breakthrough rainbow® and SET® measurements via Root's intuitive navigation and high-visibility, touchscreen display
- **MOC-9™** Flexible measurement expansion through Masimo Open Connect™ (MOC-9)—with SedLine® brain function monitoring, Phasein™ capnography, and the ability to expand with additional third-party measurements
- **Iris™** Built-in connectivity gateway for standalone devices such as IV pumps, ventilators, hospital beds, and other patient monitors

See for yourself how Root is destined to transform patient care at www.masimo.com/root
Inspiration at Work

Connect with colleagues, experience leading-edge innovations in critical care medicine, and stretch your imagination at the Society of Critical Care Medicine’s (SCCM) 45th Critical Care Congress. Inspiration is the driving force behind a successful Congress and the spark that ignites the imagination. Participants will be certain to leave Orlando refreshed and inspired after this unparalleled event.

The Society’s Congress is the largest critical care event that brings together all members of the multiprofessional, multidisciplinary team. This five-day event will offer unique opportunities to explore breakthroughs in research, share creative and stimulating ideas, network with leadership in critical care, and share in a diverse range of perspectives.

Join us and advance the mission of securing the highest quality care for all critically ill and injured patients.

Registration opens June 2015 at www.sccm.org/Congress.
The Society of Critical Care Medicine appreciates the support of all our industry partners who contribute to the overall success of this event. In particular we are grateful for the generosity of the following companies that have made substantial financial commitments in support of the 44th Critical Care Congress:

**Platinum**

- Hospira
  - Booth #611
- Teleflex
  - Booth #801

**Gold**

- Covidien
  - Booth #501
- SonoSite
  - Booth #601
- T2 Biosystems
  - Booth #1013

**Silver**

- Ambu
  - Booth #200
- C.R. Bard
  - Booths #719, 723
- Edwards Lifesciences
  - Booth #701
- GE Healthcare
  - Booth #913
- MAQUET Medical Systems, USA
  - Booth #1001
- Masimo
  - Booth #1007
- Thermo Scientific
  - Booth #326
The Congress educational program is made possible through independent medical education grants from the following supporters:

- Abbott Nutrition, Inc.
- Astellas Scientific and Medical Affairs, Inc.
- Astute Medical, Inc.
- Baxter Healthcare Corporation
- Cubist Pharmaceuticals, Inc.
- Grifols
- Mead Johnson Nutrition
- Otsuka America Pharmaceutical, Inc.
- Pfizer, Inc.
- Zoll Medical Corporation
Create your schedule, see the list of speakers, and much more. All the event info you need is on the Congress App!

Point your mobile Web browser to www.sccm.org/ccc44app to access this handy tool. Apps designed specifically for the iPhone®, iPad® and Android™ are available now! Search “SCCM” in Google Play or the iTunes store.

Download the Congress App!
Scan the QR code or visit
www.sccm.org/ccc44app.
Welcome Military

Many lessons in the delivery of critical care medicine were learned via the needs of the military. In honor of all the men and women who have or are currently serving our country, members of all branches of the military are invited to wear their uniforms on Sunday, January 18, 2015. Thank you for your service.
MONUROL®
(fosfomycin tromethamine)

Available in retail and hospital pharmacies
Welcome to Phoenix and to your Society of Critical Care Medicine's (SCCM) 44th Critical Care Congress. We are excited to join you in the “Valley of the Sun” for this important event.

Collaboration is an essential element of high-quality critical care in our critical care units. At a time when nearly infinite amounts of information are available on any topic at the click of a button, we must maintain our focus; working together to share knowledge, exchange new ideas, and to expand and improve our multi-professional team performance. Your SCCM Annual Congress provides each of us a wonderful opportunity to advance these mutual goals.

It is a gratifying and humbling experience to share and to learn from our critical care colleagues all around the world. Critical care is truly boundless. The mutual challenges that we face are the same songs, sung in different languages. The chorus of these songs highlights our future, our mandate – critical care prevention.

The most efficacious critical care is that which is never needed. Efforts to improve patient care are not exclusive to the bedside. They are sparked in classrooms when new ideas are presented; they flourish in hands-on sessions where clinicians improve their skills; and they evolve over coffee where colleagues hatch new strategies.

As you experience this year’s Congress, keep your patients in mind as you move from room to room. Return to them to your thoughts when you walk the Exhibit Hall and find new innovations from our industry partners. Remember them when you reunite with colleagues over dinner.

The Society has joined with numerous organizations to provide outstanding educational programming throughout this year’s Congress and beyond. In this spirit of collaboration, on behalf of those partners, the elected leadership and the entire Creative community, we hope your experience here in Phoenix exceeds your expectations. May you leave motivated to take on the larger movement of breaking down the walls of critical care and achieving the highest quality care for all critically ill and injured patients.

Welcome International Delegates

The Society of Critical Care Medicine (SCCM) welcomes our critical care partners from around the world. These delegates have joined SCCM in Phoenix, Arizona, USA, to develop friendships, network with multiprofessional critical care colleagues and learn from world-renowned faculty. SCCM is grateful to those individuals who have traveled a great distance to attend Congress.

J. Christopher Farmer, MD, FCCM
Professor and Chair, Department of Critical Care Medicine
Mayo Clinic Arizona
Phoenix, Arizona, USA

David J. MARTIN, CAE
Chief Executive Officer/Executive Vice-President
Society of Critical Care Medicine
The Intensivist Group provides critical care services to a diverse network of state-of-the-art hospitals. Use your talents to practice critical care medicine at its best, within a proven structure of staff, processes and sound leadership.

We recognize our physicians are our most valuable asset, demonstrated through our proven 95% retention rate. Together we’ll make sure you have the time to truly focus on your patient’s health and the time to invest more in the relationships that keep you healthy.

*Improve health care for hospitals, patients and YOU.*

Visit us at booth 201 to learn more about the Intensivist program near you.

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**Simple. Fast. Precise.**

Empowering Critical Care Medicine.

**New:**

Vscan™

with Dual Probe

Visit us at booth 913.

www.gehealthcare.com/poultrasound
Dear Colleague,

Thank you for joining us at the Society of Critical Care Medicine’s (SCCM) 44th Critical Care Congress, held from January 17 to 21, 2015, in the city symbolic of its mission, Phoenix, Arizona, USA.

The Society’s first logo was composed of a triangle with a phoenix in the center. The triangle represented SCCM’s three-pronged purpose — education, research, and patient care. The mythical phoenix symbolized immortality and invincibility. Together, these images were a reminder that the central focus of all SCCM initiatives is to provide quality care to patients, with the ultimate goal of healing and survival.

The Society has continued to promote its purpose and make a difference in the world of critical care. The 2015 Congress will offer opportunities to explore breakthroughs in research, share creative and stimulating ideas, make valuable connections and obtain inspired perspectives from all members of the multidisciplinary, multiprofessional critical care team.

This five-day event will provide outstanding networking opportunities and innovative learning experiences, highlighting the most up-to-date, evidence-based developments in critical care medicine. Engage in the numerous events and networking opportunities offered at Congress:

▲ Participate in cutting-edge educational sessions, hands-on workshops and interactive debates.
▲ Collaborate with members of the multiprofessional team to solve complex problems, reduce barriers and improve standards.
▲ Preview the newest technologies, products, services, and career opportunities provided by hundreds of exhibitors.

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

44th Critical Care Congress Co-Chairs

Greg S. Martin, MD, MSc, FCCM
Associate Professor of Medicine
Director, Medical and Coronary Intensive Care Units, Grady Memorial Hospital
Director of Research, Emory Center for Critical Care
Emory University
Atlanta, Georgia, USA

Lauren R. Sorce, ACNP, CCRN, FCCM
Pediatric Critical Care NP/APN Manager
Ann and Robert H. Lurie Children’s Hospital
Chicago, Illinois, USA
Put a Face to Your Name

Visit the photo booth in the Critical Connections Cafe to update your SCCM profile.

- Add your picture, which can be taken by an available SCCM staff member
- Update your personal and professional data with information, including degrees and certifications
- Select your communications preferences

Keeping your profile current helps SCCM better inform you of new resources, products and events that will help you continue to enhance the care you deliver.
improve sepsis risk assessment

Nearly one out of 23 patients in U.S. hospitals had sepsis in 2009. Early identification of sepsis and initiation of therapy are crucial to improving patient outcomes. Procalcitonin (PCT) can provide valuable information to those examining the patient in the earliest hours of disease progression. Join us at SCCM, booth 326 for information on tools for early sepsis management and strategies to drive changes in sepsis practices and policies.

Procalcitonin (PCT)

Have you taken the Sepsis Challenge?
Stop by Booth 326 to play our interactive case-based sepsis knowledge game.

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45th Critical Care Congress
Call for Abstracts!

Make your contribution to the advancement of critical care by submitting your original investigative research and case reports for the 45th Critical Care Congress. If accepted, your work will be on display throughout Congress, which will be held February 20-24, 2016. Abstracts also will be published in Critical Care Medicine, the #1 critical care subspecialty journal. Individuals whose abstracts are accepted also enjoy other benefits:

- **PEER EVALUATION.** Select posters will be visited by critical care experts who provide indispensable feedback.

- **AWARDS.** Multiple awards are offered, including scientific awards, educational scholarships and research awards.

Presenting authors who are SCCM members at the time of abstract submission may have an opportunity to apply for complimentary Congress registration.

Submission categories are: Administration, Basic Science, Case Reports, Clinical Science, and Education.

Visit [www.sccm.org/abstracts](http://www.sccm.org/abstracts) for complete details on submission guidelines and categories.

- Abstracts may be submitted between May 1 and July 31, 2015, at noon Central Time.
Special thanks to the multiprofessional team who worked to establish this year's stellar educational program.
The use of valid and reliable bedside assessment tools to measure pain, agitation, and delirium (PAD) in intensive care unit patients leads to better recognition and management of these conditions. Yet the use of assessment tools is still limited in clinical practice.

Liberate your patients from the harmful effects of PAD and improve their long-term outcomes. Point your Internet browser to ICULiberation.org for a variety of valuable resources on bedside interventions and assessment tools:

- Download the pain, agitation and delirium guidelines.
- Access the assessment, treatment and prevention strategies recommended for guideline implementation.
- Review tools helpful in implementing early mobility protocols.
- Participate in the ICU Liberation eCommunity, which connects you with colleagues and thought leaders. Pose a question, share valuable resources or offer insight into topics related to pain, agitation, delirium and early mobility.

Visit ICULiberation.org for details on these helpful resources.
## Executive Committee

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Clinical Pharmacist  
Clinical Associate Professor  
Ohio State University Wexner Medical Center  
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Section Chief, Surgical Critical Care  
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Director of Research, Emory Center for Critical Care  
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Mayo Clinic Arizona  
Phoenix, Arizona, USA

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*At-Large Seat*  
Medical Director, Center for Simulation, Advanced Education and Innovation  
The Children's Hospital of Philadelphia  
Philadelphia, Pennsylvania, USA

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*At-Large Seat*  
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Division Chief, Critical Care Medicine  
Department of Anesthesiology, Perioperative, and Pain Medicine  
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Stanford, California, USA

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Director of the Institute for Critical Care and Trauma Education  
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*Designated Seat: Pediatrics*  
Professor of Pediatrics and Anesthesiology  
Pediatric Critical Care Medicine  
Seattle Children's Hospital  
University of Washington School of Medicine  
Seattle, Washington, USA
Sightseeing Activities

SCCM is offering the following organized activities for attendees who want to experience some of Arizona’s main attractions. Buses will depart from the North Ballroom entrance, off Third Street. If you are interested in signing up for any tours, please inquire at Registration.

Half-Day Tours

Desert Four Wheel Drive
Up close and personal is the best way to understand the beauty of the Sonoran Desert. On this tour, you’ll head into the heart of cactus country for a memory-making four wheel drive tour. Your colorfully attired guides will transport you into a world where coyotes, cottontails and jumping cholla rule. Your guide also will lead the group on a nature walk that gives a true taste of the Southwest.

Heard Museum
Built in the early 1900s, the internationally acclaimed Heard Museum provides a unique glimpse into the fascinating cultures and art of Native Americans of the Southwest. Its elegant arched walkways, ten spacious galleries, outdoor-bricked patios, fountains, and lush desert landscapes are the perfect backdrop to the Heard’s extensive collection of artifacts, fine art and unique exhibits.

Horseback Riding
Whether you’re a drugstore cowboy or a city slicker, it’s time to saddle up. Relax as professional guides take you on the most scenic horseback riding trails in Arizona. Enjoy the breathtaking sites while wandering by saguaro cactus, rugged mountains, and abundant plant and animal life during your ride. This scenic trail ride meanders through the Sonoran Desert and gradually climbs to grassy mesas with soaring cottonwoods, sandy washes, and spectacular views. A true Southwestern experience!

Hot Air Balloon Ride
The adventure begins upon arrival at the Sonoran Desert launch site just a short drive from downtown Phoenix. You will receive a “pre-flight briefing,” then an awe-inspiring flight over the scenic desert. Balloons are equipped with oversized, beautifully handcrafted wicker baskets to allow all guests to comfortably enjoy the flight. Finally, upon descent, you will enjoy a gourmet continental breakfast and a traditional champagne toast.

Full-Day Tours

Grand Canyon - South Rim by Land
Your Grand Canyon experience begins with a relaxing luxury transfer to the South Rim of the Grand Canyon. You will travel over the spectacular panorama of the mystical red-rock monuments of Sedona, Flagstaff and finally the Grand Canyon. On arrival at the Grand Canyon, enjoy free time to explore the museum and the South Rim, including Bright Angel trail, the El Tovar Lodge, and the hourly tours conducted by a knowledgeable National Parks guide. Enjoy a beautiful sunset before heading back to downtown Phoenix. (Tour includes lunch.)

Sedona/Jerome
Join us for a day in northern Arizona. Located 125 miles from the Valley of the Sun, your first stop is enchanting Sedona. You’ll see the famous red-rock monoliths named Coffeepot, Cathedral and Thunder Mountain. At the north end of the city is the stunning Oak Creek Canyon, a breathtaking chasm. After lunch, you’ll head to the best kept secret in Arizona -- Jerome. Founded in 1876, Jerome was once called the “Wickedest Town in the West”; the town prospered until the mines and the mining economy began declining during the Great Depression. Presently, Jerome is a hidden jewel in the desert, a mecca for fledgling artists and host to a thriving wine country. (Tour includes lunch.)
An Innovative Non-Aerosol Unit Dose Topical Anesthetic Spray

- Meets Joint Commission Standard for the most ready-to-administer form available.*
- Utilizes bar code medication administration (BCMA) to accommodate point-of-care scanning.
- Virtually eliminates adverse events resulting from preventable medication errors, ensuring the “5 Rights” are met:
  ✔ Right Drug  ✔ Right Patient  ✔ Right Dose  ✔ Right Route  ✔ Right Time
- Single unit-of-use packaging eliminates the potential for cross-contamination.
- Increases billing accuracy and improves supply chain costs.

ORDERING INFORMATION

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If HurriCaine ONE is not yet available through your wholesaler, request it by name and NDC Number.

*Joint Commission Standard: MM.05.01.11, EP4

MAKE THE SWITCH TODAY.
Call 1-800-238-8542 to place your order or request more information.
www.beutlich.com. HurriCaine ONE is a registered trademark of Beutlich® Pharmaceuticals, LLC. HCOA 650 0713
American College of Critical Care Medicine

When the American College of Critical Care Medicine (ACCM) was created in 1988, the Society of Critical Care Medicine (SCCM) began a tradition dedicated to the recognition of excellence.

ACCM is committed to fostering the highest goals of multiprofessional critical care. It honors individuals whose achievements and contributions demonstrate a personal commitment to these goals, promotes a forum for the development of collaborative practice among the specialties and professions providing critical care, and serves as SCCM’s consultative body possessing recognized expertise in the practice of critical care.

The prestigious designation of Fellow of the American College of Critical Care Medicine (FCCM) honors practitioners, researchers, administrators and educators who have made outstanding contributions to the collaborative field of critical care. ACCM is comprised of nurses, pharmacists, physicians, respiratory care practitioners, and other healthcare professionals who are all experts in their fields.

As an organization devoted to creating a greater understanding of critical care, ACCM emphasizes quality management in the practice and administration of critical care, focuses on leadership and underscores the importance of fostering partnerships, humane caring, communication and public opinion involving critical care.

Become a Fellow of the American College of Critical Care Medicine

SUNDAY, JANUARY 18, 2015  
PHOENIX CONVENTION CENTER  
ROOM 231

Attend this year’s session to obtain information on joining your colleagues as a Fellow of this distinguished body. You can also stop by the Critical Connections Cafe to obtain an application or contact Carol Prendergast at cprendergast@sccm.org. Applications are due March 15, 2015.

Fellows of the American College of Critical Care Medicine are eligible to nominate other Fellows for the esteemed designation of Master of Critical Care Medicine. You can contact Colette Punda at cpunda@sccm.org to obtain the award criteria. Nominations are due April 15, 2015.

ACCM Convocation and SCCM Awards Ceremony

MONDAY, JANUARY 19, 2015  
SHERATON PHOENIX DOWNTOWN  
PHOENIX BALLROOM

Members and guests are invited to attend the ACCM Convocation and SCCM Awards Ceremony where new Fellows will be inducted into the ACCM and award and grant recipients will be honored. Come support your colleagues on this prestigious occasion.

Frederick A. Moore, MD, MCCM is the recipient of the 2015 ACCM Distinguished Investigator Award, ACCM’s highest recognition given to an individual whose scientific and educational contributions to the art and science of critical care demonstrate career commitment and excellence. Join your colleagues in congratulating Dr. Moore and plan on attending his address, “Lessons Learned in Translational Research.”

ACCM Business Meeting

TUESDAY, JANUARY 20, 2015  
PHOENIX CONVENTION CENTER  
ROOM 132

The leadership of the ACCM will announce election results for the 2015-2016 Board of Regents and summarize the activities of the ACCM over the past year. This is a great opportunity to meet with members of the Board and network with ACCM Fellows.

ACCM Town Hall

TUESDAY, JANUARY 20, 2015  
PHOENIX CONVENTION CENTER  
ROOM 132

All Congress attendees are invited to attend the ACCM’s Town Hall, where this year’s topic will be a pro/con debate: “Pro/Con Debate: Do the Benefits of a Low Hemoglobin Threshold Outweigh the Side Effects?” Presenters will be Aryeh Shander, MD, FCCM, and Shelly Timmons, MD, PhD.
Availability should never be an issue

Challenging conventions

Ambu® aScope™ 3 the worlds 1st single-use, flexible videoscopes for bedside bronchoscopy and difficult airway management.

Leading the way in visualization
Ambu® aScope™ 3


Visit us at SCCM Booth # 200
Transition from Training to First Job: My First Week of ICU Service as an Attending

Attend the In-Training Section Session held during the Society of Critical Care Medicine’s 44th Critical Care Congress.

Sunday, January 18, 2015 • 3:45 p.m. - 5:45 p.m.
Phoenix Convention Center • Room 231

PROGRAM
MODERATOR: UTPAL S. BHALALA, ELIZABETH A. HUNT

- Panel Discussion
  Cheryl N. Bartke, Denise M. Goodman, Vinay M. Nadkarni, Samuel A. Fisherman

LEARNING OBJECTIVES
- Review how to recognize and manage conflicts
- Discuss being the new person at work: know when and who to call for help
- Examine professionalism and teamwork
Communication with patients who are unable to speak is often challenging. Mechanical ventilation, hearing or speech limitations, language barriers, and other hurdles may stand in the way of providing optimal patient-centered care. Developed by Intensivists, the Patient Communicator from the Society of Critical Care Medicine (SCCM) is designed to help overcome these common barriers to facilitate better communication, which can be vital in reducing pain and anxiety and increasing satisfaction.

Features include:

• Translation capabilities that allow for two-way communication between patients and caregivers in 19 languages
• A diagram that allows patients to identify the location of pain, itching and nausea and a scale to express the intensity of these sensations
• More than 30 translatable phrases that allow patients to convey various needs related to their care and well-being

Stop by the Critical Connections Cafe during each break for a demonstration.

To download the app and for more information, visit www.sccm.org/PatientCommunicator.
Become a Member of the Only Multiprofessional Critical Care Organization

Special SCCM member benefits include:

- **FREE** Subscriptions to *Critical Care Medicine* (CCM), the #1 journal devoted to critical care medicine with round-the-clock access to CCM online, and *Critical Connections*, SCCM’s newsmagazine
- Unparalleled opportunities to learn alongside an integrated team of dedicated experts
- Access to cutting-edge research
- Recognition amongst an esteemed group of critical care professionals
- Advocacy efforts that advance the profession and critical care providers
- **Substantial savings** on educational programs and resources

Please visit the SCCM registration desk to become a member today!

**Special Offer** for Critical Care Congress Attendees:

- $280 for Physicians (regular rate $380)
- $119 for Healthcare Professionals (regular rate $164)
- $161 for International Physicians (regular rate $261)

*Offer available for on-site registration only. Excludes membership renewals.

Please visit the SCCM registration desk to become a member today!
Commit to Critical Care

As a member of the Society of Critical Care Medicine (SCCM), you will not only make a valuable commitment to yourself, but you also will commit to securing the highest quality care for all critically ill and injured patients. With nearly 16,000 members in more than 100 countries, the Society of Critical Care Medicine is the only multiprofessional organization dedicated exclusively to the advancement of critical care, education, research and advocacy.

Membership in this unique organization gives you access to activities that promote excellence in patient care and tools that enhance your delivery of the right care at the right moment. It is an unequalled opportunity to connect your own day-to-day work with new ideas, trends and the expertise of other professionals.

Membership Benefits Include, but are not limited to:

Career Development
Continue the lifelong learning process by accessing educational and clinical content as well as practice-enhancing guidelines on SCCM’s LearnICU.org website. Search for new job opportunities using Career Central, SCCM’s online career placement website for clinicians.

Skill Enhancement
Gain a multiprofessional perspective to optimize patient care, develop team building skills and improve the performance of your institution using the Right Care, Right Now™ paradigm.

Unlimited Networking
Engage in informative conversations in person at SCCM events or online using Critical Care Forums. Locate fellow colleagues from around the world using SCCM’s membership database.

Leadership Opportunities
Give back to the profession and help further patient care practices by volunteering in SCCM’s Creative Community in Critical Care. Join up to three specialty sections to meet colleagues with similar interests.

Substantial Savings
Receive up to 25% discount off educational programs and resources including SCCM’s annual Congress and board review courses, publications and products.

For more information, visit www.sccm.org or call SCCM Customer Service at +1 847 827-6888

Mission
The mission of the Society of Critical Care Medicine is to secure the highest quality care for all critically ill and injured patients.

Become a member today and get FREE subscriptions to Critical Care Medicine and Critical Connections—the go-to resources for dedicated experts like you.
# Membership Application

## Personal Information (Please Print)

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<th>First Name</th>
<th>Middle Initial</th>
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## Certifications

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## Membership Options

- **Healthcare Professional** Dues $164 U.S. - Available to all healthcare professionals except physicians. Provides full privileges of membership.
- **Physician** Dues $380 U.S. - Provides full privileges of membership.
- **International Physician** Dues $261 U.S. - Available to physicians residing outside the United States. Provides privileges of membership, except the right to make motions, vote, or hold office.
- **Young Physician** Dues $200 U.S. - Available to physicians who have completed their fellowship training programs within the last three years. Documentation verifying the fellowship program completion date is required. Provides full privileges of membership.
- **In-training** (check one) **Fellow**  **Resident**  **Student** Dues $85 U.S. - Available to individuals in specialty training programs or pursuing education in healthcare and related fields. Provides privileges of membership, except the right to make motions, vote, or hold office. Verification letter from program director is required.
- **International Associate** Dues $55 U.S. - Available to all healthcare professionals residing outside the United States. Provides privileges of membership, except the right to vote, make motions, hold office; receive Critical Care Medicine; or apply for fellowship in the American College of Critical Care Medicine.

## Specialty Sections

Membership in SCCM includes the option to join up to three specialty sections. Please check a maximum of three:

- Anesthesiology
- Clinical Pharmacy & Pharmacology
- Emergency Medicine
- Industry & Technology
- Internal Medicine
- In-training
- Neuroscience
- Nursing
- Osteopathic Medicine
- Pediatric*
- Physician Assistants
- Research
- Respiratory Care
- Surgery
- Unformed Services

*Please note that Pediatric Section membership has an associated fee of $139 U.S., which includes a subscription to Pediatric Critical Care Medicine.

## Chapters

Membership includes the option to join one of 12 state and regional chapters for an additional fee of $45 U.S. (In-training members may join at no cost.)

- Baltimore
- Carolinas/Virginias (NC, SC, VA, WV)
- Michigan
- New Jersey
- New Mexico
- North Central (IA, MN, ND, SD, WI)
- Northeast (CT, MA, ME, NH, NY, RI, VT)
- Ohio
- Oregon
- Pennsylvania
- Southeast (AL, AR, GA, KY, LA, MS, TN)
- Texas

## Demographic

- **Primary Employment Settings**
  - Government Hospital/Clinic
  - Medical School/University
  - Non-Government Hospital/Clinic
  - Pediatric/Multispecialty Group Practice
  - Solo/Two-Physician Practice
  - Staff Model HMO
  - Other: ________________________

## Payment Information

- **Annual Dues**
  - Add $139 U.S. if Pediatric Section membership selected.
  - Add $45 U.S. if Chapter membership selected. (No charge for In-training members)

- **Total Enclosed** $__________ U.S.
  - **Check** made payable to Society of Critical Care Medicine (U.S. funds drawn on U.S. bank) or International Money Order

- **Charge to:**  **American Express**  **Discover**  **MasterCard**  **Visa**

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**Cardholder Name**

**Signature**  **Date**

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**Privacy Statement:** SCCM periodically rents its membership list to organizations that wish to promote educational courses, publications and other products or services that are of interest to critical care practitioners. If you wish to be excluded, please check here ☐

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**Specialty Sections**

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**Demographic**

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**Signature**  **Date**
Early detection of sepsis, with the timely administration of appropriate antibiotics, appears to be the single most important factor in reducing morbidity and mortality from sepsis. The Society of Critical Care Medicine is partnering with The Johns Hopkins University School of Medicine to offer a one-day interactive conference which will focus on strategies to identify, diagnose and manage patients who present with signs and symptoms of sepsis, irrespective of their care unit.

It has become increasingly apparent that there is a long delay in both the recognition of sepsis and the initiation of appropriate therapy in many patients. This translates into an increased incidence of progressive organ failure and a higher mortality. Healthcare providers, therefore, need to have a high index of suspicion for the presence of sepsis and must begin appropriate antimicrobials quickly. Join the multiprofessional panel of leading experts who will focus on problem solving through case studies in developing effective strategies in specific patient populations.

Registration opens Spring 2015 at www.sccm.org/Sepsis.

Learning Objectives

- Identify cutting-edge diagnostic algorithms for pathogen identification in sepsis
- Analyze and implement sepsis care pathways for patients who are not yet located in the ICU
- Compare and contrast efficacy of current infection control practices
- Summarize effective antibiotic recommendations for common nosocomial infections

Co-Chairs:

Mitchell Levy, MD, FCCM
Professor of Medicine
Division Chief, Pulmonary and Critical Care Medicine
Brown University School of Medicine
Providence, Rhode Island, USA

Pamela Lipsett, MD, MHPE, FCCM
Professor of Surgery and Anesthesiology
Johns Hopkins University School of Medicine
Baltimore, Maryland, USA
Attend thought-provoking presentations that promote innovative developments in critical care. Plenary sessions are held at unopposed times in the North Ballroom with presentations given by distinguished, world-renowned leaders in the critical care field. Speakers include:

**Peter Safar Memorial Lecture**

*Drug Shortages: Economic Explanation of Manufacturing Failure and Buying Monopolies*

Margaret Dempsey Clapp, RPH, MS, MDiv
Signature-Healthcare
Brockton, Massachusetts, USA

**Lifetime Achievement**

*The Practice of Critical Care Medicine: Ten Things We Can (and Must) Do Better*

R. Phillip Dellinger, MD, MSc, MCCM
Professor and Chair, Department of Medicine
Cooper Medical School of Rowan University
Chief Medicine Service and Medical Director
Adult Health Care Institute
Senior Critical Care Attending
Cooper University Health Care
Camden, New Jersey, USA

**William Shoemaker Honorary Lecture**

*Creating a Healthy Work Environment Through Compassionate Care*

Dorrie Fontaine, RN, PhD, FAAN
Dean of the School of Nursing
Sadie Heath Cabaniss Professor of Nursing
Associate Chief Nursing Officer at the University of Virginia Health System
University of Virginia School of Nursing
Charlottesville, Virginia, USA

**The Emerging Prominence of Latin and Central America in Critical Care**

Jorge L. Hidalgo, MD, MACP, FCCP, FCCM
Professor of Critical Care
Chief, Division of Critical Care
Karl Heusner Memorial Hospital
Member, Board of the Under the Water Science and Scientific Diving
University of Belize
Belize City, Belize

**The Transplant Experience: From the Professional and Personal Perspective**

David A. Laskow, MD, FACS
Associate Professor of Surgery
Robert Wood Johnson Medical Center
New Brunswick, New Jersey, USA

**Max Harry Weil Memorial Lecture**

*Immunoregulation During Sepsis*

Lyle L. Moldawer, PhD
Professor of Surgery and Vice Chairman (Research)
University of Florida
College of Medicine
Gainesville, Florida, USA

**Ake Grenvik Honorary Lecture**

*Disruptive Innovation: Transforming a Team of Champions into a Championship Team... Are We Ready for Football?*

Vinay M. Nadkarni, MD, FCCM
Medical Director
Center for Simulation, Advanced Education and Innovation
The Children’s Hospital of Philadelphia
Philadelphia, Pennsylvania, USA
Popular Events and Sessions

**Fellowship Program Directors’ Luncheon**
Critical care fellowship program directors are invited to participate in the Fellowship Program Directors’ Luncheon, to be held Monday, January 19, 2015, from 12:15 p.m. to 1:30 p.m. in Room 131 at the Phoenix Convention Center. This year’s luncheon will provide information on how fellowship programs can develop systems to educate trainees and maintain compliance with the new quality and safety requirements. Expert panelists will lead the discussion, focusing on history, structure and measurement metrics. This is a ticketed session and requires an additional fee to attend.

**Educational Symposia**
Learn about clinical breakthroughs and advances that lead to better patient care during these thought-provoking presentations. Sessions are presented by leading experts in critical care and offer thorough analyses of the developments and controversies affecting most ICU environments. These industry sessions are complimentary for all Congress registrants and no additional registration is needed to attend.

**Abstract Presentations and Poster Hall Events**

**Oral Presentations**
Oral presentations are scheduled, unopposed, on Sunday, January 18, 2015, from 3:45 p.m. to 5:45 p.m. These presentations will highlight the top 64 abstracts submitted.

**Poster Discussions and Awards Presentations**
Discuss original scientific research findings with abstract authors in the Poster Hall, which will be open Sunday, January 18, through Tuesday, January 20, 2015. Winners of SCCM’s abstract-based awards will be recognized during a ceremony on Tuesday, January 20, 2015, from 1:30 p.m. to 2:00 p.m. in Room 222 at the Phoenix Convention Center.

**ePosters**
In addition to the standard Poster Hall, attendees will have the opportunity to view all posters in an electronic format via computers, screens and other mobile views. These posters will be searchable and will include enhanced information to provide the most recent critical care research available.

**Professor Walk Rounds**
Select poster presentations will be assigned by category to noted faculty and experts who will facilitate the exchange of ideas and commentary between younger scientists and established clinicians. Presentations will be scheduled during the lunch breaks on Sunday, January 18 through Tuesday, January 20, 2015.
Critical Connections Cafe

The Critical Connections Cafe presents a whole world of critical care resources in a single, one-stop venue. Please visit the cafe to see what SCCM has to offer.

Membership
Become a member of the world's largest multiprofessional critical care organization. Members enjoy reduced registration rates on SCCM's annual Congress, educational programs and products, and can benefit from networking opportunities with critical care colleagues from around the world. Nonmembers can stop by the Critical Connections Cafe to take advantage of the special introductory membership offer for attendees of the 44th Critical Care Congress: $119 for Healthcare Professionals, $280 for Physicians and $161 for International Physicians. For your convenience, a membership application is located on page 24. If you are already a member, find out how you can become more involved, renew your membership on site or update your membership profile/contact information.

Sections and Chapters
Join one of SCCM's 15 specialty sections and 12 chapters. Sections serve as a voice for members with common interests and help advance professional specialties through unique projects, advocacy and educational programming. Chapters provide a vehicle for members to exchange information, network with local critical care practitioners and discuss the impact of national issues in their communities. If you are interested in joining an SCCM section or chapter, please complete an application at the Critical Connections Cafe.

American College of Critical Care Medicine
In 1988, SCCM established the American College of Critical Care Medicine (ACCM) to recognize individuals who have excelled in the advancement of critical care. The prestigious designation of Fellow of the American College of Critical Care Medicine (FCCM) is awarded to practitioners, researchers, administrators, and educators who are members of the ACCM and demonstrate personal and professional commitment to the profession.

In 2011, SCCM added the Master of Critical Care Medicine (MCCM) designation. This honors Fellows of the ACCM who have distinguished themselves by achieving national and international professional prominence due to personal character, leadership, eminence in critical care, or years of exemplary service to SCCM, ACCM and the field of critical care in its broadest sense. To be eligible, an individual must have been an FCCM for at least five years. Fellows may nominate other Fellows for this honor. Visit the Critical Connections Cafe for information on applying for Fellowship in the ACCM or to obtain more information on nominating a colleague for the MCCM designation.

Fundamental Critical Care Support (FCCS), Pediatric Fundamental Critical Care Support (PFCCS) and Fundamental Disaster Management (FDM)
The courses in the Fundamentals family ensure that your patient care staff has the confidence and skills to treat the critically ill and injured patient. The Fundamental Critical Care Support (FCCS) course addresses timely care of adults and better prepares the non-intensivist for the first 24 hours of critical care management, while the Pediatric Fundamental Critical Care Support (PFCCS) course focuses on the recognition and management of infants and children presenting with acute needs. The Fundamental Disaster Management (FDM) course covers the critical care response to natural or man-made mass casualty events. Due to increased demand for FCCS, PFCCS and FDM worldwide, the need for new course instructors and sponsors is growing. Visit the Critical Connections Cafe to learn more about the courses, locations, instructor criteria, and course sponsorship and pricing.

Prize Drawing
Take advantage of five chances to win an Apple iPad® during Congress. Be sure to have your badge scanned at the Critical Connections Cafe to be entered in the daily drawing.

SCCM Bookstore
A complete selection of SCCM publications, educational materials and merchandise is available for purchase at the bookstore located in the Critical Connections Cafe or the satellite bookstore located outside the North Lobby. Members of the Society receive a discount of up to 25% on all purchases. If you are not a member, join SCCM at Congress and receive the member discount.
Board Prep and Review Your Way

Experience the complete line of adult board preparation and review solutions that can be customized to meet your goals, schedule and learning style. Benefit from high-quality educational programming and flexible, effective self-study options.

ATTEND the Adult Multiprofessional Critical Care Board Review Live Event

• August 11-15, 2015
• Fairmont Chicago, Millennium Park
• Chicago, Illinois, USA

The Society of Critical Care Medicine’s (SCCM) 2015 Adult Multiprofessional Critical Care Board Review Course (MCCBRC) is the preferred resource for critical care professionals seeking a comprehensive review of content focused on the diagnosis, monitoring and management of critically ill patients. Spend four-and-a-half days in intensive review sessions that offer MOC credits and are designed to prepare fellows and attendings for the certification and recertification examinations in critical care.

Can’t make it to the live course?

LEARN all you need to know with Self-Directed Multiprofessional Critical Care Board Review Course (MCCBRC). Experience the same didactic sessions from the live version of the course at your own pace.

Physicians, nurses and pharmacists are eligible to receive 41.5 hours of continuing education credit.

REVIEW the full gamut of critical care topics in Comprehensive Critical Care: Adult, the most complete critical care textbook for any learner in adult practice.

ASSESS your knowledge with Self-Assessment in Adult Multiprofessional Critical Care, a collection of over 300 questions, answers and rationales from the top 20 critical care focus areas. Available both online and in print.

PRACTICE sitting for the exam with the Advanced Knowledge Assessment in Adult Critical Care, composed of 150 questions and rationales with accompanying study materials.

ENHANCE your learning experience by purchasing the Comprehensive Adult Board Prep Bundle, which includes Self-Directed MCCBRC, the Comprehensive Critical Care: Adult textbook, and both versions of the self-assessment (print and interactive).

For more information, visit www.sccm.org/adultboardreview.
Advanced Knowledge Assessment in Pediatric Critical Care Question Set 2

Assess your pediatric critical care knowledge and prepare for the subspecialty board examination with Advanced Knowledge Assessment in Pediatric Critical Care Question Set 2. This self-study tool is designed for physicians working on board preparation and Maintenance of Certification (MOC). Comprising 100 questions and rationales with accompanying study materials, Advanced Knowledge Assessment in Pediatric Critical Care Question Set 2 provides a review of infectious disease, immunologic, neurologic, trauma-related, and hematologic/oncologic critical care topics. Participants will gain online board examination experience, consisting of:

▲ 100 multiple choice questions, similar to those covered on the actual exam, as well as evidence-based rationales
▲ Keywords and references from missed questions for further study
▲ 20 points towards MOC Part II in pediatrics and 6 CME/CE credit hours

Physicians, nurses and pharmacists are eligible to receive 6 hours of continuing education credit.

$150 Member / $195 Nonmember
Product code: AKAPCC2

Coding and Billing for Critical Care: A Practice Tool, Sixth Edition

A must-have text for professional coders, hospital administrators, physicians, nurse practitioners, and physician assistants, Coding and Billing for Critical Care: A Practice Tool, Sixth Edition, explains the complexities of critical care coding and billing and offers a better understanding of these procedures in a critical care setting. This expanded edition includes new chapters on diagnosis-related group coding and documentation, coding for advanced practice providers, and establishing appropriate auditing procedures.

$70 Member / $90 Nonmember
Product code: CODEB6


This comprehensive companion to the Current Concepts in Adult Critical Care course focuses on compelling challenges immediately pertinent to the critical care practitioner. Highlights of this edition include:

· Management of the “Almost Never Events”
· Early Mobility
· Antithrombolytics and Antiplatelet Therapy in the ICU
· How to Start an Extracorporeal Membrane Oxygenation Program

$75 Member / $95 Nonmember
Product code: CCACC-2015


Look to this edition of Current Concepts in Pediatric Critical Care for the latest information on problems encountered in the pediatric patient. This year highlights include:

· Diabetic Ketoacidosis and Cerebral Edema
· Extracorporeal Membrane Oxygenation in High-Risk Populations
· Managing Comfort in the Critically Ill Pediatric Patient
· Donation After Cardiac Death

$75 Member / $95 Nonmember
Product code: CCPCC-2015
Self-Directed Critical Care Ultrasound
Self-Directed Critical Care Ultrasound provides a relaxed learning experience with access to the same didactic sessions from the live version of the Critical Care Ultrasound course. Learn at your own pace from the comfort and convenience of your home or office and then assess your knowledge through the use of pre- and posttests. Self-Directed Critical Care Ultrasound includes four modules with synchronized speaker audio. Nurses and physicians can earn 8.5 CME/CE credits.
$975 Member / $1,250 Nonmember
Product code: USFUNDON

Self-Directed Critical Care Ultrasound with Simulation
Benefit from all of the features provided with the Self-Directed Critical Care Ultrasound course, plus enhance your learning experience with a hand-held simulation sensor that transforms your personal computer into your own ultrasound training solution. Also included are links to specific case-based simulations, covering a broad spectrum of normal and pathologic cases, which allow you to practice the techniques presented in the didactic lectures. Nurses and physicians can earn 8.5 CME/CE credits.
$3,895 Member / $4,195 Nonmember
MAC product code: USFUNDONSIMMAC
PC product code: USFUNDONSIMPCC

Self-Directed Multiprofessional Critical Care Board Review Course: Adult
The Self-Directed Multiprofessional Critical Care Board Review Course: Adult provides a relaxed learning experience with access to the same didactic sessions found in the live course. Learn at your own pace from the comfort and convenience of your home or office and then assess your knowledge through the use of pre- and posttests. Physicians, nurses and pharmacists are eligible to receive 41.5 hours of continuing education credit.
$760 Member / $975 Nonmember
Product code: BOARD14ON

Self-Directed Multiprofessional Critical Care Board Review Course: Pediatric
The Self-Directed Pediatric Multiprofessional Critical Care Board Review Course: Pediatric provides a relaxed learning experience with access to the same didactic sessions found in the live course. Learn at your own pace from the comfort and convenience of your home or office and then assess your knowledge through the use of pre- and posttests. Physicians, nurses and pharmacists are eligible to receive 38.25 hours of continuing education credit.
$760 Member / $975 Nonmember
Product code: PBOARD14ON
FREE WiFi
AT THE SOCIETY OF CRITICAL CARE MEDICINE’S 44TH CRITICAL CARE CONGRESS!

Complimentary Internet access is available throughout the convention center.

How to Access the Network:
Connect using SSID: 44CCC
As SCCM continues to grow and support the critical care community, it also continues to support a healthy planet by employing environmentally friendly operating processes. Please join SCCM in its charge to help preserve and protect the environment. Many of the practices SCCM follows can be applied to your own work or personal life.

Reduced use of paper
Records that many companies keep in paper format are scanned and stored in an electronic central database accessible to all SCCM staff members. Files are routed electronically whenever possible, further eliminating paper waste.

Use of recycled materials
When the use of paper is necessary, SCCM uses only recyclable products. SCCM’s copy paper is made of 30% recycled materials. Additionally, SCCM uses only recycled paper and paper from managed sources for all marketing materials and publications.

Waste minimization
SCCM provides reusable dishes and flatware for employee use in an effort to reduce waste from disposable products.

Comprehensive recycling program
SCCM provides several recycling stations for paper, plastic, glass, and aluminum products. Additionally, recycling stations are available for retired or inoperable cellular phones, batteries, digital storage devices, personal digital assistants, computer equipment, and battery chargers.

Energy efficiency
SCCM uses energy-efficient dishwashers, heating and cooling systems, and lighting systems to reduce its consumption of power and natural resources.

An environmentally friendly Congress
The Phoenix Convention Center and Global Experience Specialists (GES) Exposition Services both provided SCCM with environmentally friendly products and services that helped reduce the environmental footprint of the 44th Critical Care Congress.

The Phoenix Convention Center partners with local farmers and touts a green purchasing program. The West Building is certified by the U.S. Green Building Council with a Leadership in Energy and Environmental Design (LEED) Silver rating. The Phoenix Convention Center upholds its reputation as one of North America’s green meeting venues by hosting events such as The Green Summit and Build It Green. In addition, Aventura, the Phoenix Convention Center’s catering partner, implements sustainable practices.

GES assembled the Congress Exhibit Hall using the following items that are produced from recycled content and/or are 100% recyclable: carpeting, carpet padding, carpet covering, trash can liners, wastebaskets, table covers, and substrates used for sign graphics.

Clean the World
Together with the Hyatt Regency Phoenix and the Westin Phoenix Downtown, SCCM is proud to participate in the Clean the World Meeting Planner Program during the 44th Critical Care Congress. All gently used bathroom amenities that are normally thrown away will be recycled after Congress and made into soaps and bottled amenities for distribution to children worldwide. Clean the World estimates that more than 2,100 pounds of used soap and nearly 1,600 pounds of used bottle amenities will be gathered from Congress. Our support will provide nearly 2,300 children in need with recycled soap and 400 children in need with bottled amenities, helping to keep them clean for one month.

In addition, other Phoenix hotels offer their own recycling programs. Critical Care Congress attendees are encouraged to participate in all recycling programs.

MAKE A DIFFERENCE! KEEP IT GREEN AT CONGRESS

▲ Bring a reusable water bottle, preferably aluminum, instead of purchasing bottled water.
▲ Recycle your badge holder and registration bag in the appropriate recycling bin located near the registration desk.
▲ Donate gently used or unwanted items, such as participant bags, supplies and exhibitor items, to local charities.
Thank you to the SCCM professional staff for their development of the 44th Critical Care Congress. The Society’s staff is dedicated to providing high-quality customer service and support to all members and the entire critical care community. You may contact staff at +1 847 827-6869 or visit www.sccm.org/staff.

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Technical Medical and Item Writer
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Business Analyst
Mary Ann Branagan
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Managing Editor, Books
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Managing Editor, Books
JoAnn Williams
Customer Service Representative
Board Prep and Review Your Way

Experience the complete line of pediatric board preparation and review solutions that can be customized to meet your goals, schedule and learning style. Benefit from high-quality educational programming and flexible, effective self-study options.

**LEARN** all you need to know with Self-Directed Pediatric Multiprofessional Critical Care Board Review Course (MCCBRC). Experience the same didactic sessions from the live version of the course at your own pace. Physicians, nurses and pharmacists are eligible to receive 38.25 hours of continuing education credit.

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**PRACTICE** sitting for the exam with the Advanced Knowledge Assessment in Pediatric Critical Care Question Sets 1 and 2, each composed of 100 questions and rationales with accompanying study materials.

**ENHANCE** your learning experience by purchasing the Comprehensive Pediatric Board Prep Bundle, which includes Self-Directed Pediatric MCCBRC, the *Comprehensive Critical Care: Pediatric* textbook, and both versions of the self-assessment (print and interactive).

For more information, visit www.sccm.org/pediatricboardreview
General Information

Access/Special Assistance
Efforts have been made to ensure that every Congress session and event is accessible to those with disabilities. If you have any special needs or requirements for participation in a Congress activity, please notify an SCCM staff member at the Special Assistance Booth, located at the SCCM Registration Desk on the Lower Level. An electric scooter is also available for use within the convention center at no charge and may be reserved from the SCCM Convention Office, located in Room 121A.

Ambassadors
If you explore downtown Phoenix, you are likely to see a Downtown Ambassador strolling the sidewalks or pedaling a bicycle. Easy to spot in their bright orange shirts, Ambassadors assist visitors and promote safety. They give directions, are trained in first aid and crime prevention, and are happy to share their knowledge about local attractions, restaurants, theaters, hotels and shops. They can even help you make dinner reservations and find event tickets. You can find Ambassadors in the Information Center on Adams Street, between Central and 1st Avenues, in the US Bank building, or you can call their hotline at +1 602 495-1500.

Automated Teller Machines (ATM)
There are six permanent ATMs located throughout the convention center.

Badges
Congress badges are required for entrance to all Congress functions and events, including scientific sessions and the Exhibit Hall. To enter a ticketed session or event, you must present your badge. Lost badges may be replaced at the SCCM Registration Desk, located on the Lower Level. A nominal fee may be charged for replacement badges.

SCCM Council members and leaders, Congress Program Planning Committee members and Congress faculty/moderators are easily identified by the ribbons affixed to their name badges.

Business Center
The UPS Store is located on the Lobby Level, and will be open during all Congress activities. Services include photocopying, faxing, e-mail receipt and shipping services. Major credit cards are accepted for services and purchases.

Child Care
Nita Nanny has been recommended by SCCM’s Congress hotel partners. Please note that SCCM does not endorse or screen child care providers; parents and guardians should screen providers before hiring. Phone: +1 602 820-3304; E-mail: nitananny@gmail.com.

CME/CE Stations
Congress participants can complete evaluations and continuing education forms at the CME/CE Stations located at SCCM Registration on the Lower Level. Please provide any comments, suggestions or other valuable feedback useful for evaluation of the 44th Critical Care Congress. Note: Certificates cannot be printed on site, but completed certificates will be stored at MySCCM.org for future printing.

Coat and Luggage Check
Coat and luggage check services are available on the Lower Level during the following hours:

- FRIDAY, JANUARY 16, 2015  7:00 A.M. – 5:30 P.M.
- SATURDAY, JANUARY 17, 2015  7:00 A.M. – 5:30 P.M.
- SUNDAY, JANUARY 18, 2015  7:00 A.M. – 6:00 P.M.
- MONDAY, JANUARY 19, 2015  6:00 A.M. – 5:45 P.M.
- TUESDAY, JANUARY 20, 2015  7:30 A.M. – 5:30 P.M.
- WEDNESDAY, JANUARY 21, 2015  7:30 A.M. – 11:30 A.M.

Fees: $2.00 per coat/small handbag; $3.00 per luggage item.

Coffee/Dining
Concessions will be open in the Exhibit Hall and throughout the convention center during Exhibit Hall hours. Additional options are available within walking distance of the convention center. For a map of local restaurants, please stop by one of the Visit Phoenix Information Centers, located on the Lobby Level of both the North and West buildings.

Congress App
Access the Congress schedule and so much more from the palm of your hand. With apps built specifically for the iPad®, iPhone® and Android™, you can search for sessions, speakers, business meetings, exhibitors, and abstracts. Download the Congress App at www.sccm.org/ccc44app.

Congress On Demand
Full Congress attendees gain access to Congress On Demand for continued learning after the live event. Congress On Demand contains the audio recordings and slides from hundreds of individual presentations drawn from the concurrent, joint and plenary educational sessions, as well as breakfast symposia. Your subscription to this resource is included in your Congress registration fee. You will receive an email with the access instructions approximately 10 days after Congress has ended.

Emergency Procedures
The safety and security of attendees is the first priority of SCCM and the Phoenix Convention Center. In the event of an emergency, contact an SCCM staff member, call House Security from your cell phone at +1 602 262-7271, dial 85 from a house phone, or stop by one of the Visit Phoenix Information Centers, located on the Lobby Level of both the North and West buildings.

Exhibit Hall Hours
The Exhibit Hall, located on the Lower Level, will be open during the following hours:

- SUNDAY, JANUARY 18, 2015  9:00 A.M. – 3:45 P.M.
- MONDAY, JANUARY 19, 2015  9:00 A.M. – 3:15 P.M.
- TUESDAY, JANUARY 20, 2015  9:00 A.M. – 12:00 P.M.
First Aid
For immediate First Aid assistance, an EMT is available in the First Aid Office, located in the rear of Exhibit Hall 5.

Information Centers
Stop by one of the Visit Phoenix Information Centers for information on local dining and attractions. Information Centers are located on the Lobby Level of both the North and West Buildings.

Lost and Found
Lost and found is located in the SCCM Convention Office, Room 121A.

No Smoking Policy
The Phoenix Convention Center is a smoke-free environment. Please refrain from smoking within 20 feet of the main entrance doors.

Poster Activities
All posters are displayed inside the Exhibit Hall.

SUNDAY, JANUARY 18, 2015
7:00 A.M. – 9:00 A.M.  POSTER SETUP
9:00 A.M. – 3:45 P.M.  HALL OPEN
9:30 A.M. – 10:30 A.M.  BREAK
12:45 P.M. – 1:45 P.M.  PROFESSOR WALK ROUNDS
2:45 P.M. – 3:45 P.M.  BREAK
MONDAY, JANUARY 19, 2015
9:00 A.M. – 3:30 P.M.  HALL OPEN
9:00 A.M. – 10:00 A.M.  BREAK
12:15 P.M. – 1:15 P.M.  PROFESSOR WALK ROUNDS
2:15 P.M. – 3:15 P.M.  BREAK
TUESDAY, JANUARY 20, 2015
9:00 A.M. – 2:00 P.M.  HALL OPEN
9:00 A.M. – 10:00 A.M.  BREAK
12:15 P.M. – 1:15 P.M.  PROFESSOR WALK ROUNDS
1:15 P.M. – 2:00 P.M.  POSTER RETRIEVAL
1:30 P.M. – 2:00 P.M.  ABSTRACT-BASED AWARDS CEREMONY (ROOM 222)

Recording and Photography
No personal photography or recording is allowed at any Congress session or in the Exhibit Hall at any time.

Refreshment Breaks
Complimentary refreshments will be available during the morning and afternoon breaks in the Exhibit Hall on Sunday, January 18; Monday, January 19; and the morning of Tuesday, January 20. These breaks are excellent opportunities for attendees to visit with exhibitors and network with colleagues. Complimentary refreshments will also be available outside the North Ballroom the afternoon of Tuesday, January 20 and the morning of Wednesday, January 21.

Registration
Registration is located on the Lower Level and will be open during the following hours:
THURSDAY, JANUARY 15, 2015
4:00 P.M. – 7:00 P.M.
FRIDAY, JANUARY 16, 2015
7:00 A.M. – 5:30 P.M.
SATURDAY, JANUARY 17, 2015
7:00 A.M. – 5:30 P.M.
SUNDAY, JANUARY 18, 2015
7:00 A.M. – 6:00 P.M.
MONDAY, JANUARY 19, 2015
6:00 A.M. – 5:45 P.M.
TUESDAY, JANUARY 20, 2015
7:30 A.M. – 5:30 P.M.
WEDNESDAY, JANUARY 21, 2015
7:30 A.M. – 11:30 A.M.

Session Protocol
To ensure a pleasant meeting environment for all Congress participants, meeting room temperatures are maintained to provide optimal comfort. A light jacket or sweater is recommended. Please note that all guests, including children, must be registered for Congress. Only registered Congress attendees and guests are allowed entrance to Congress sessions and the Exhibit Hall. Children 16 years and younger must be accompanied by an adult at all times.

Society Offices/Exhibits

| BUSINESS CENTER | 100 LEVEL (NORTH AND WEST BUILDINGS) |
| COAT AND LUGGAGE CHECK | LOWER LEVEL |
| CONTINUING EDUCATION STATIONS* | LOWER LEVEL |
| CONVENTION OFFICE | ROOM 121A |
| CRITICAL CONNECTIONS CAFE | EXHIBIT HALL |
| FIRST AID | EXHIBIT HALL 5 |
| MEETING BAG PICKUP | LOWER LEVEL |
| POSTER EXHIBITS | EXHIBIT HALL |
| REGISTRATION | LOWER LEVEL |
| SATELLITE BOOKSTORE | NORTH BUILDING LOBBY |
| SPEAKER READY ROOM | ROOM 122AB |
| TECHNICAL EXHIBITS | EXHIBIT HALL |

*Complete your evaluations and continuing education applications at the computers located in this area.

Speaker Ready Room
At least one hour prior to their sessions, faculty must submit their presentations in Room 122AB, which is open during the following hours:
THURSDAY, JANUARY 15, 2015
4:00 P.M. – 7:00 P.M.
FRIDAY, JANUARY 16, 2015
7:00 A.M. – 5:30 P.M.
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TUESDAY, JANUARY 20, 2015
7:00 A.M. – 6:00 P.M.
WEDNESDAY, JANUARY 21, 2015
7:00 A.M. – 11:30 A.M.

Wireless Internet Access
For the convenience of SCCM Congress attendees, complimentary Internet access is available within the Phoenix Convention Center.
Access the most up-to-date list of American College of Critical Care Medicine (ACCM) guidelines on your mobile device.

The ICU Guidelines app provides:

- summaries of select ACCM guidelines for quick reference
- downloadable PDFs of full guidelines

Also included are abstracts from the most current issues of the Society of Critical Care Medicine (SCCM) journals, Critical Care Medicine and Pediatric Critical Care Medicine.

Developed by the ACCM and approved by the Board of Regents and SCCM Council, these guidelines provide the essential recommendations, protocols and parameters for intensive care unit activities.

Visit www.sccm.org/GuidelinesApp and download the app today!

The ACCM guidelines are also available for purchase as a CD-ROM at www.sccm.org/store.
Put Your ICU to the Test

Evaluate your critical care unit in terms of personnel, organization and quality improvement processes with the Intensive Care Unit Resource, Evaluation, and Patient Outcomes Rating Tool (ICU REPORT).

This easy-to-use online tool offers a multitude of assessment components designed to simplify your ICU's data collection, extraction and debriefing systems.

In addition to reading materials, sample dashboards, data reports, charts, and worksheets, this product also includes the ICU Index, which provides a snapshot assessment of your ICU, enabling ICU directors, staff and hospital administrators to:

- Rapidly identify ICU strengths and weaknesses
- Highlight specific areas that would benefit from improvement
- Compare multiple staff perspectives, allowing teams to explore staffing, physician management, quality, and patient safety concerns.

$145 member / $190 nonmember
Product Code: ICUR2

Order online at www.sccm.org/store, or contact SCCM Customer Service at +1 847 827-6888.
100 Level – North Building

200 Level – North Building
The Society of Critical Care Medicine (SCCM) offers live, instructor-led and self-directed critical care ultrasound training courses.

**Critical Care Ultrasound**
August 16-17, 2015
Fairmont Chicago, Millennium Park
Chicago, Illinois, USA

Gain the realistic training needed to perform and interpret ultrasound imaging during this two-day comprehensive course. Benefit from guided, focused skill stations, featuring live models and interactive presentations to reinforce key learning points. Extensive faculty coverage ensures a significant hands-on experience for each participant.

**Advanced Critical Care Ultrasound**
August 18, 2015
Fairmont Chicago, Millennium Park
Chicago, Illinois, USA

Expand upon fundamental echocardiographic skills and knowledge and focus on the specialty-specific use of echocardiography in the critically ill patient. Learn important cardiovascular information for the noninvasive management of the hemodynamically unstable patient.

Space for these courses is limited. Register today at www.sccm.org/ultrasound to guarantee your seat.

**Looking for Self-Directed Training?**
Prepare for the live, instructor-led course or reinforce learning initiatives with SCCM’s self-directed courses, available for MAC and PC. These courses are also ideal for those who are unable to leave the workplace for training. Nurses and physicians can earn 8.5 CME/CE credits.

- **Self-Directed Critical Care Ultrasound**
  Experience the same didactic sessions from the live version of the Critical Care Ultrasound course at your own pace and assess your knowledge through the use of pre- and post-tests. Four modules with synchronized speaker audio are included.

- **Self-Directed Critical Care Ultrasound with Simulation**
  Benefit from all of the features provided with the Self-Directed Critical Care Ultrasound course, plus enhance your experience with a hand-held simulation sensor. Case-based simulations allow you to practice the techniques presented in the didactic lectures.

Visit www.sccm.org/ultrasound for more information.
Integrating

NURSE PRACTITIONERS & PHYSICIAN ASSISTANTS INTO THE ICU

Strategies for Optimizing Contributions to Care

As the roles of nurse practitioners (NPs) and physician assistants (PAs) in the ICU expand, so does the need to promote their proper and optimal utilization as members of the critical care team. Integrating Nurse Practitioners & Physician Assistants Into the ICU provides vital information and resources for how to do just that. With staffing schedule models, orientation/training templates, and other practical educational resources, this essential reference also serves as a resource for clinicians and institutions that seek to enhance patient care by introducing or further expanding their use of NPs and PAs into the multiprofessional ICU workforce teams.

$70 member / $95 nonmember

Product Code: INTEGRATE
Publication Year: 2012

To order copies of Integrating Nurse Practitioners & Physician Assistants Into the ICU, please contact SCCM Customer Service at +1 847 827-6888 or order online at www.sccm.org.
Comprehensive Program Topics

Listed after each session, in parentheses, is a letter, A through E, that corresponds to a specific SCCM Core Competency.

A = Patient- and Family-Centered Care
B = Practice Applications
C = Communications
D = Multiprofessionalism
E = Quality Improvement

ADMINISTRATION
- Administrative Aspects of ICU Leadership (A,C)
- How to Create a High-Functioning ICU (B,C,D,E)
- ICU Team: Show Me the Money (B,D,E)
- Organizational Approaches to Tele-ICU (A,B,C,D,E)
- Project Dispatch: Patient- and Family-Centered Care Making a Difference (A,B,D,E)
- The Future of Hospitalists in the ICU (E)
- Thinking about ICUs: Beds, Costs, Occupancy Rates, Post-ICU Care and Governance (B)

CARDIOVASCULAR AND RESUSCITATION
- Brain Function After Cardiac Arrest (B)
- Crystalloid Versus Colloid: The Debate Rages On! (B,E)
- How to Mend a Broken Heart: Bringing the Heart Failure Patient Through the ICU Experience (A,B,C,D,E)
- Noninvasive Cardiovascular Monitoring Strategies: The Swan Has Flown! (B,D,E)

ENDOCRINE/RENAL
- Diagnosis and Application of Current and Emerging Therapeutic Interventions for Hyponatremia in the Critical Care Patient (Breakfast Symposium) (B,D)
- Glucose Control in the Critically Ill: Still Relevant After All These Years? (B,D)
- Hormone Resuscitation (B)
- Is Repair After Acute Kidney Injury Linked to Long-Term Outcomes? (E)
- Soup-to-Nuts Renal Failure: Caring for the Patient with Kidney Injury (A,B,C,D)
- Spin Doctors, Who to Believe: Dissecting the Decision to Initiate Dialysis in the ICU (B,E)

ETHICS/END OF LIFE
- End of Life in the ICU: Costs and Logistics (A,B,C,D,E)
- Pro/Con Debate: Family Participation in the ICU (A,C,D,E)
- The Ethics Committee and the Palliative Care Team: Not the Same (A,B,E)

GI/NUTRITION
- Drug-Induced Gastrointestinal Disease (B,D)
- Hot Topics in Nutrition (B)

HEMATOLOGY AND IMMUNOLOGY
- Breaking the Blood Bank: Anemia and Coagulation (A,B,D,E)
- Mitochondrial Medicine at the Core of Critical Illness (A.S. Laerdal Memorial Award Lecture) (B)
- Pro/Con Debate: Do the Benefits of a Low Hemoglobin Threshold Outweigh the Side Effects? (ACCM Town Hall) (B)
- Short or Tall, Broad or Narrow? Balancing Appropriate Sepsis Coverage with Immunologic Function (B,C,D,E)
- Why Is My Platelet Count Dropping? Evaluation of the Patient with Thrombocytopenia (B,C,D)

INFECTION DISEASE
- Best Practices for the Management of Invasive Fungal Infections in the ICU (Breakfast Symposium) (B,D)
- New Antimicrobial Utilization Strategies in the ICU (B)
- What Just Got Off the Airplane? (B)

NEUROSCIENCE
- Medication Management in the Neuroscience ICU (B,E)
- The Brain During Sepsis (B)
- To Do or Not to Do: Endovascular Procedures for the Brain (A,D,E)

PEDIATRICS
- Autoimmune Diseases in the Pediatric ICU (A)
- Bench-to-Bedside Research and Back: Finding the Bridge (B)
- Infections in the ICU: What Is Old Is New Again (B)
- Nutrition Issues in Pediatric Critical Care (B)
- Pro/Con Debate: Does Continuous Renal Replacement Therapy Have a Clinical Role in Sepsis Management? (C,E)
- Surfactant Therapy in Acute Lung Injury: A Role Revisited (E)
- The Expanding Role of Quality Care in the Pediatric ICU (D,E)
- The Use of Cardiac Assist Devices in the Failing Pediatric Heart (B,E)
- What If: Pediatric ICU Controversies (A,D)
- Working with the Institutional Review Board: Controversies in Pediatric Clinical Research (A,D)
PHARMACOLOGY
- Drug Dosing in Challenging ICU Populations (B,E)
- Improving Medication Safety Strategies in the ICU (D,E)
- Pro/Con Debate: Is a Short Duration of Antimicrobial Therapy Appropriate for Ventilator-Associated Pneumonia? (B)
- The Hangover, Part IV: Dealing with Alcohol Withdrawal and Recreational Drugs (B)
- Your Patient Is Positive for *Clostridium difficile*: “Oh Feces!” (B,D)

PLENARY
- Creating a Healthy Work Environment Through Compassionate Care (B,C,D)
- Disruptive Innovation: Transforming a Team of Champions into a Championship Team ... Are We Ready for Football? (B)
- Drug Shortages: Economic Explanation of Manufacturing Failure and Buying Monopolies (C)
- Immunoregulation During Sepsis (B)
- The Emerging Prominence of Latin and Central America in Critical Care (C,E)
- The Practice of Critical Care Medicine: Ten Things We Can (and Must) Do Better (B,E)
- The Transplant Experience: From the Professional and Personal Perspective (A,C)

PROFESSIONAL DEVELOPMENT
- Applying the GRADE Approach to the Grading of Evidence (E)
- Burnout in ICU Healthcare Professionals: Addressing a Real Phenomenon (Critical Care Societies Collaborative Joint Session) (C,D)
- ICU Program Development, Financing and Ongoing Value Analysis (B)
- ICU Research Success Road Map (D)
- Moving from Gridiron to Gurney ... Are We Ready for Football? (C)
- Running the Perfect Code: The Rashomon Effect (A,C,D,E)
- Systems Biology in Critical Illness and Injury: From Mechanistic Insights to Drug Discovery (B)
- Transition from Training to First Job: My First Week of ICU Service as an Attending (In-Training Section/non-CE) (C)

PULMONARY
- Evidence-Based Mechanical Ventilation in the ICU (B, D, E)
- From Sea to Space: Pulmonary Physiology Adaptation (A,C,D)
- Mobilization in the ICU: Practice Makes Perfect (B,D,E)
- Newer Modes of Mechanical Ventilation = Better Outcomes? (B,E)

QUALITY AND PATIENT SAFETY
- Enhancing the Quality and Safety of Care for Older Adults with Critical Illness (E)
- Redesigning ICU Care to Eliminate Preventable Harms (B,E)
- Resilience, Frailty and Recovery from Critical Illness (B)
- The Weaponization of Medical Infrastructure: Hidden Agendas in Performance Improvement (A,B,C,D,E)

SEPSIS
- Fluids Make the Difference in Organ Function and Survival with Sepsis (B,E)
- International Perspectives on Sepsis (B)
- Metabolic Recovery and Multiple Organ Failure (B)
- Outcomes Important to Critically Ill Patients (E)
- Risk Stratification in Septic Shock (B)
- Sepsis Redefined (Joint SCCM/ESICM Session) (C,D,E)

SURGERY AND TRAUMA
- Extracorporeal Support in the ICU: What's New for 2015? (B)
- Geriatrics in the ICU: Old, New, Black and Blue (A,B,C,D,E)

YEAR IN REVIEW
- Year in Review: Anesthesiology (B)
- Year in Review: Clinical Pharmacy and Pharmacology (B)
- Year in Review: Internal Medicine (B)
- Year in Review: Neurosciences (B)
- Year in Review: Nursing (B)
- Year in Review: Pediatrics (B)
- Year in Review: Research (B)
- Year in Review: Surgery (B)
At the conclusion of the 44th 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 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

Type of Activity
This activity includes elements that increase knowledge, application and practice.

Competencies
SCCM supports recommendations that will promote lifelong learning through continuing education. SCCM promotes activities that encourage the highest quality in education that will enhance knowledge, competence or performance in critical care practice. This activity will meet the following:

▲ Quality Improvement and Patient Safety
▲ Patient- and Family-Centered Care
▲ Clinical Knowledge
▲ Communication
▲ Multiprofessionalism and Teamwork
▲ Translation Research from Bench to Bedside

Target Audience
This continuing education offering is intended to meet the needs of all practitioners who care for critically ill patients:

▲ Advanced Practice Nurses
▲ Anesthesiologists
▲ Clinical Pharmacists
▲ Critical Care Educators
▲ Clinical Nurse Specialists
▲ Emergency Department Physicians
▲ Family Practice Physicians
▲ ICU Medical Directors
▲ ICU Nurse Managers
▲ In-Training Staff
▲ Internists
▲ Neurosurgeons
▲ Neurologists
▲ Nurses, Adult and Pediatric
▲ Physicians
▲ Physician Assistants
▲ Respiratory Care Practitioners
▲ Research Scientists
▲ Trauma Surgeons
▲ Other Critical Care Practitioners

Policy on Appropriate Use of Commercial Support

The Society of Critical Care Medicine (SCCM) fully supports and adopts the ACCME Standards for Commercial Support of Continuing Medical Education, Accreditation Council for Pharmacy Education’s Standards for Continuing Pharmacy Education and the standards set by the American Nurses Credentialing Center (ANCC) as its basis for relating to commercial support companies with regard to continuing education.

The Society implements these standards and has integrated additional policies that continue to maintain the highest integrity in providing quality continuing education programs. SCCM’s comprehensive policies provide the foundation for the administration, content, and quality of all educational activities, which include: activity goals and objectives development, promotional material, text content, faculty approval and guidance, activity evaluation, and issuance of certificates.

A commercial interest is an entity producing, marketing, reselling or distributing healthcare goods or services consumed by or used on patients.

1. All continuing education (CME/CE) activities sponsored by SCCM shall provide for an in-depth presentation that is independent, balanced, objective, and scientifically rigorous.
2. SCCM is solely responsible for the quality, content and utilization of instructional materials or post-activity documents that are prepared with the support of outside organizations.
3. CME/CE activities supported by a commercial interest must use an SCCM-approved Letter of Agreement for all continuing education activities. The Program Development Department must be directly involved in the program development process between SCCM and the commercial support company.
4. Acknowledgment will be made of any outside organization (commercial/for-profit) providing financial support for any educational activity.
5. SCCM makes all decisions regarding the disposition and disbursement of the commercial support funds and in-kind support received for CME/CE activities. All commercial support associated with a CME/CE activity must be given with the full knowledge and approval of SCCM. No additional funds or in-kind support will be provided to the planning committee members, faculty, or authors beyond those defined in the budget.
6. SCCM will not accept advice or services concerning faculty, authors, or participants or other education matters, including activity content and format, from a commercial interest as conditions of contributing funds or services.
7. The Letter of Agreement shall define the terms, purposes and conditions of the grant and shall be signed by the commercial interest, SCCM, and any other provider or educational partner involved in the planning and implementation of the CME/CE activity. The originating source of the funds shall be considered the commercial interest for purposes of signing the agreement and acknowledgment. All parties to the Commercial Support Letter of Agreement must agree to comply with SCCM’s policies.
8. All educational grant amounts will be based on an itemized and estimated budget prepared in advance and shared with the commercial supporter, and the total dollar amount will be reflected in the Letter of Agreement. All commercial support expenditures must be documented and, upon request, provided to the commercial supporter. If it is anticipated that total expenses will be exceeded, SCCM will send a budget addendum and request for additional funds to the commercial supporter. Any additional funds will be documented in an addendum to the Letter of Agreement.
Obtaining Credit
To obtain credit and complete the course evaluation, go to www.MySCCM.org. Once logged in with your SCCM Customer ID (found on your badge) and password, select the MY LEARNING tab on the orange bar, go to the section labeled “Continuing Education” and select the 44th Critical Care Congress. The page that appears will be the Continuing Education Portal. Select “Search Sessions,” which will take you to a search page with a dropdown list of the programs for which you have registered. Select the 44th Critical Care Congress and the claim credit page will be displayed. Select “Claim Credit” for all of the programs you attended.

For additional information, please contact SCCM at +1 847 827-6869 or e-mail education@sccm.org.

Maintenance of Certification Part II
SCCM is offering Maintenance of Certification (MOC) in addition to continuing medical education for board-certified physicians of the boards: ABIM, ABA, ABS, and ABP. For the attendees claiming the MOC credits, the program consists of a pretest, targeted MOC lectures, and a posttest. The pretest will close at noon on Wednesday, January 21, so please log in prior to this time. To access the pretest, log in to www.MySCCM.org with your Customer ID (found on your badge) and password, and follow the steps outlined in the Obtaining Credit paragraph above. After the course, you will follow the same login to complete the MOC posttest. You will have three attempts to achieve a passing score of 75%. You will be asked to supply your Board ID number and date of birth. Please note: You are responsible for providing accurate information to SCCM.

▲ American Board of Surgery: This course meets the requirements for Maintenance of Certification (MOC). You are responsible for reporting to ABS.

▲ American Board of Anesthesia:
This course meets the requirements for Maintenance of Certification (MOC). Your score will be reported directly to the board.

▲ American Board of Internal Medicine (Application Pending): This course meets the requirements for Maintenance of Certification (MOC). Your score will be reported directly to the board.

▲ American Board of Pediatrics:
This course meets the requirements for Maintenance of Certification (MOC). Your score will be reported directly to the board.

Physicians
SCCM is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Designation Statement
SCCM designates this live educational activity for the maximum AMA PRA Category 1 Credits™, as listed below. Physicians should only claim credit commensurate with the extent of their participation in the activity.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Overall Congress (Concurrent Sessions)</td>
<td>21.5</td>
</tr>
<tr>
<td>Current Concepts in Adult Critical Care Course</td>
<td>15</td>
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<tr>
<td>Current Concepts in Pediatric Critical Care Course</td>
<td>15</td>
</tr>
<tr>
<td>ECMO Management</td>
<td>14.5</td>
</tr>
<tr>
<td>Fundamental Disaster Management Instructor Course</td>
<td>9</td>
</tr>
<tr>
<td>Fundamental Critical Care Support Instructor Course</td>
<td>8.5</td>
</tr>
<tr>
<td>Pediatric Fundamental Critical Care Support Instructor Course</td>
<td>8.25</td>
</tr>
<tr>
<td>Advanced Practice Providers: Administration, Leadership, and Outcomes</td>
<td>3.75</td>
</tr>
<tr>
<td>Pre-Congress Courses</td>
<td>up to 7.5</td>
</tr>
<tr>
<td>Advances in Veterinary Critical Care</td>
<td>15</td>
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</tbody>
</table>

Nurses
This program has been approved by the California Board of Registered Nursing, Provider No. 8181, for a maximum number of hours, as listed below:

<table>
<thead>
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</tr>
</tbody>
</table>

Respiratory Therapists
Application has been made to the American Association for Respiratory Care (AARC) for continuing education contact hours for respiratory therapists.

Registered Dietitians and Dietetic Technicians
SCCM has submitted this program for approval from the Commission on Dietetic Registration (CDR).
Continuing Education Credit

Pharmacists

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I have participated in research funded by the Gordon and Betty Moore Foundation

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Consultant, speaker – Nutricia, Abbott
Grant recipient - GSK; Consultant - TenaVance

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44th CRITICAL CARE CONGRESS PROGRAM | SOCIETY OF CRITICAL CARE MEDICINE 57
FRIDAY, JANUARY 16, 2015

7:00 A.M. - 8:00 A.M. OUTSIDE ROOM 101
Continental Breakfast

8:00 A.M. - 3:15 P.M. ROOM 102
• PRE-Congress Educational Session
Advances in Veterinary Critical Care: Day 1 (see page 65 for Day 2)
Moderator: Benjamin Brainard

LEARNING OBJECTIVES
• Discuss novel neurologic diagnostics in veterinary medicine
• Summarize the use of novel therapeutics for veterinary neurocritical care
• Review pathophysiology of traumatic brain injury and targeted therapies
8:00 A.M. - 8:45 A.M.
> Traumatic Brain Injury: The Neurologist's Perspective
  Curtis Dewey
8:45 A.M. - 9:30 A.M.
> The Neurologic Exam: Insights and Diagnostics
  Peter Early
9:30 A.M. - 10:15 A.M.
> Control of Status Epilepticus: New Pharmacology, New Technology
  Curtis Dewey
10:15 A.M. - 10:30 A.M.
> Break
10:30 A.M. - 11:15 A.M.
> Surgical Spinal Cord Disease: When to Cut? When to Use Polyethylene Glycol?
  Curtis Dewey
11:15 A.M. - 12:00 P.M.
> Vestibular and Cerebellar Disease: Is It an Emergency, or Does It Just Look Like One?
  Peter Early
12:00 P.M. - 1:00 P.M.
> Lunch — Exhibit Hall 1
1:00 P.M. - 1:45 P.M.
> Magnetic Resonance Imaging for the Critical Care Practitioner: What's a T1?
  Curtis Dewey
1:45 P.M. - 2:30 P.M.
> MUE, GME: New Acronyms and Therapies
  Peter Early
2:30 P.M. - 3:15 P.M.
> A Day in the Neurology ER: Case Discussions
  Peter Early

8:00 A.M. - 5:00 P.M. ROOM 101
• PRE-Congress Educational Session
Current Concepts in Adult Critical Care: Day 1 (see page 67 for Day 2)
Moderators: Edward A. Bittner, Steven Greenberg

LEARNING OBJECTIVES
• Discuss updates on diagnostic and treatment options in critical illness
• Debate controversial topics
• Examine patient safety and quality improvement initiatives in the ICU
8:00 A.M. - 8:45 A.M.
> What's New in Early Goal-Directed Therapy?
  Emanuel P. Rivers
8:45 A.M. - 9:30 A.M.
> Management of the “Almost Never” Events
  Jennifer A. LaRosa
9:30 A.M. - 10:15 A.M.
> ICU Pharmacology in Special Populations
  Brian L. Erstad
10:15 A.M. - 10:30 A.M.
> Break
10:30 A.M. - 11:15 A.M.
> Antithrombolytics and Antiplatelet Therapy in the ICU
  Jerrold H. Levy
11:15 A.M. - 12:00 P.M.
> Leadership in the ICU
  Jeffery S. Vender
12:00 P.M. - 1:00 P.M.
> Lunch — Exhibit Hall 1
1:00 P.M. - 1:45 P.M.
> Traumatic Brain Injury and Neuromonitoring
  Avinash B. Kumar
1:45 P.M. - 2:30 P.M.
> Pain Control in the ICU
  Edward A. Bittner
2:30 P.M. - 3:15 P.M.
> Palliative and End-of-Life Care in the ICU
  Rebecca A. Aslakson
3:15 P.M. - 3:30 P.M.
> Break
3:30 P.M. - 4:15 P.M.
> Heart Failure and Cardiac Assist Devices in the ICU
  Robert M. Savage
4:15 P.M. - 5:00 P.M.
> Are Checklists in Critical Care Needed? Pro/Con Debate
  Avery Tung, Pamela A. Lipsett
Current Concepts in Pediatric Critical Care, Continued

10:30 A.M. - 11:15 A.M.
> Adjunctive Therapies in Acute Respiratory Distress Syndrome: Pro/Con Debate
  David A. Turner, Robinder G. Khemani

11:15 A.M. - 12:00 P.M.
> Continuous Renal Replacement Therapy in the Pediatric ICU: Who, When and How?
  Stuart L. Goldstein

12:00 P.M. - 1:00 P.M.
> Lunch — Exhibit Hall 1

1:00 P.M. - 1:45 P.M.
> ICU Care with Limited Resources: Making Do
  David H. Beyda

1:45 P.M. - 2:30 P.M.
> Extracorporeal Membrane Oxygenation in High-Risk Populations
  Paul A. Checchia

2:30 P.M. - 3:15 P.M.
> Donation After Cardiac Death
  Robert D. Truog

3:15 P.M. - 3:30 P.M.
> Break

3:30 P.M. - 4:15 P.M.
> Intensive Care Management of Pulmonary Artery Hypertension
  Peter E. Oishi

4:15 P.M. - 5:00 P.M.
> Ultrasound Beyond Intravenous Access
  Aaron Jason Godshall
ECMO Management: Day 1
(see page 68 for Day 2)

Moderators: Heidi J. Dalton, Lillian Su, Bhavesh Patel

LEARNING OBJECTIVES
• Identify the different components of the extracorporeal membrane oxygenation (ECMO) circuit and diagnose equipment malfunction
• Determine the optimal ECMO settings in diseases commonly treated by ECMO
• Recognize and manage the most common ECMO emergencies
• Identify the different components of the ECMO circuit and diagnose equipment malfunction
• Determine the optimal ECMO settings in diseases commonly treated by ECMO
• Recognize and manage the most common ECMO emergencies

8:00 A.M. - 8:30 A.M.
> Welcome and Introduction
  Heidi J. Dalton

8:30 A.M. - 9:15 A.M.
> Basic Physiology of Venoarterial and Venovenous ECMO
  Daniel Brodie

9:15 A.M. - 10:00 A.M.
> Basic Physiology and Pump Types and Options
  James D. Forstenberry

10:00 A.M. - 10:30 A.M.
> Break

10:30 A.M. - 11:15 A.M.
> Seeing Is Believing
  Bhavesh Patel

Continued →

ECMO Management: Day 1, Continued

11:15 A.M. - 12:00 P.M.
> Simulation I: ECMO Demonstration
  Heidi J. Dalton, Bhavesh Patel, David Michael McMullan, Laurance L. Lequier, Christopher D. Beaty, Steven A. Conrad, Mark T. Ogino, Jennifer Wheeler, Alicia Schmidt, Cory Alwardt

12:00 P.M. - 1:00 P.M.
> Lunch — Cafeteria

1:00 P.M. - 1:45 P.M.
> Cannula Selection and Surgical Perspective
  David Michael McMullan

1:45 P.M. - 2:30 P.M.
> Simulation II: Hypovolemia
  Mark T. Ogino, Steven A. Conrad, Christopher D. Beaty, Laurance L. Lequier, Bhavesh Patel, Heidi J. Dalton, Jennifer Wheeler, Alicia Schmidt, Cory Alwardt

2:30 P.M. - 3:00 P.M.
> Break

3:00 P.M. - 3:45 P.M.
> Patient Selection Criteria: What History Tells Us
  Daniel Brodie

3:45 P.M. - 4:30 P.M.
> Simulation III: Hypoxia
  Heidi J. Dalton, Bhavesh Patel, David Michael McMullan, Laurance L. Lequier, Christopher D. Beaty, Steven A. Conrad, Mark T. Ogino, Jennifer Wheeler, Alicia Schmidt, Cory Alwardt

4:30 P.M. - 4:45 P.M.
> Break

4:45 P.M. - 5:30 P.M.
> Surgical Cannulation Demonstration
  David Michael McMullan
SATURDAY, JANUARY 17, 2015

Continental Breakfast

7:00 A.M. – 8:00 A.M. OUTSIDE ROOMS 101, 224, 231, 301

Fundamental Critical Care Support Instructor Course

Moderator: Muhammad Jaffar

LEARNING OBJECTIVES

• Review the basic principles of selected critical care topics
• Discuss teaching techniques for lectures and interactive small group sessions
• Outline policies and procedures for sponsoring a Fundamental Critical Care Support (FCCS) course

7:30 A.M. - 8:00 A.M.
> Pretest

8:00 A.M. - 8:30 A.M.
> Welcome/Overview of the FCCS Fifth Edition
  Muhammad Jaffar

8:30 A.M. - 9:00 A.M.
> Diagnosis and Management of Acute Respiratory Failure
  Muhammad Jaffar

9:00 A.M. - 9:30 A.M.
> Monitoring Oxygen Balance and Acid-Base Status
  Gregory H. Botz

9:30 A.M. - 10:00 A.M.
> Diagnosis and Management of Shock
  Gregory H. Botz

10:00 A.M. - 10:30 A.M.
> Mechanical Ventilation I
  Edgar Jimenez

Continued →
### Fundamental Disaster Management Instructor Course

**Moderator: Mary J. Reed**

**LEARNING OBJECTIVES**
- Recognize the core disaster incident management structure and functions and describe how critical care response is coordinated.
- List the types of events most likely to require a critical care response and describe the anticipated critical care needs.
- Describe the guiding principles for triage and allocation of scarce critical care resources.
- List the major emergency changes during a mass casualty event.
- Demonstrate an ability to operate alternative positive pressure ventilation equipment.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 A.M. - 8:00 A.M.</td>
<td>Pretest</td>
</tr>
</tbody>
</table>
| 8:00 A.M. - 8:15 A.M. | Welcome and Overview

Mary J. Reed

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 8:15 A.M. - 8:45 A.M. | ICU Microcosm within Disaster Medical Response

James A. Geiling

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 8:45 A.M. - 9:15 A.M. | Augmenting Critical Care Capacity During a Disaster

Randy S. Wax

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 9:15 A.M. - 9:45 A.M. | Critical Care Management of Chemical Exposures

James A. Geiling

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 9:45 A.M. - 10:00 A.M. | Break

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 10:00 A.M. - 10:30 A.M. | Critical Care Management of Radiological Exposures

Randy S. Wax

Continued ➔
7:30 A.M. - 5:00 P.M.  ROOM 229

**PRE-CONGRESS EDUCATIONAL SESSION**

**Pediatric Fundamental Critical Care Support Instructor Course**

**Moderator:** Maureen A. Madden

**LEARNING OBJECTIVES**
- Prioritize assessment needs for the critically ill or injured infant and child
- Identify and respond to significant changes in the unstable pediatric patient
- Recognize and initiate management of acute, life-threatening conditions
- Discuss teaching strategies for lectures and interactive skill stations
- Outline policies and procedures for conducting a Pediatric Fundamental Critical Care Support (PFCCS) course

7:30 A.M. - 8:00 A.M.
- Pretest

8:00 A.M. - 8:30 A.M.
- Introduction to PFCCS Course
  Maureen A. Madden

8:30 A.M. - 9:30 A.M.
- Sampling of Lectures
  Maureen A. Madden, Karl L. Serrao, Mohan R. Mysore

9:30 A.M. - 10:15 A.M.
- Skill Station I: Part I, Respiratory Failure and Shock: Evaluation and Management
  Maureen A. Madden, Karl L. Serrao, Michele C. Papo
- Skill Station I: Part I, Ventilation
  Ellen J. Pringle, Rahul Bhatia, Mohan R. Mysore

10:15 A.M. - 10:30 A.M.
- Break

10:30 A.M. - 11:15 A.M.
- Skill Station I: Respiratory Failure and Shock: Evaluation and Management
  Maureen A. Madden, Mohan R. Mysore, Michele C. Papo
- Skill Station I: Ventilation
  Ellen J. Pringle, Rahul Bhatia, Karl L. Serrao

11:15 A.M. - 11:45 A.M.
- Skill Station II: Pediatric Transport
  Michele C. Papo, Maureen A. Madden, Mohan R. Mysore, Ellen J. Pringle

11:45 A.M. - 12:15 P.M.
- Skill Station II: Sedation
  Karl L. Serrao, Rahul Bhatia

12:15 P.M. - 1:00 P.M.
- Lunch and Course Requirements
  Maureen A. Madden

1:00 P.M. - 2:00 P.M.
- Skill Station III: Radiology
  Rahul Bhatia, Mohan R. Mysore

2:00 P.M. - 3:00 P.M.
- Skill Station IV: Integration
  Maureen A. Madden, Michele C. Papo, Ellen J. Pringle, Karl L. Serrao

3:00 P.M. - 3:15 P.M.
- Break

**Continued ➔**

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**8:00 A.M. - 12:00 P.M.  ROOM 301D**

**PRE-CONGRESS EDUCATIONAL SESSION**

**Critical Care Skills Lab (Morning)**

**Invasive Procedures for the Practicing Critical Care Professional**

**Moderators:** TBD

**LEARNING OBJECTIVES**
- Describe indications and contraindications for specified critical procedures
- Demonstrate safe and effective techniques for performing specified critical procedures
- Recognize potential complications of specified critical procedures
- Intraosseous Lines
- Direct and Video Laryngoscopy
- Chest Tubes
- Lateral Canthotomy
- Pericardiocentesis
- Suprapubic Catheterization

---

**3:15 P.M. - 4:00 P.M.**
- Course Review and Feedback Session
  Maureen A. Madden, Mohan Mysore, Michele Papo, Ellen Pringle, Rahul Bhatia, Karl L. Serrao

**4:00 P.M. - 5:00 P.M.**
- Posttest
# Airway Management in the Critically Ill

**Moderators:** Gregory E. Kerr, Daniel A. Diedrich, Michael H. Wall

## LEARNING OBJECTIVES
- Describe the anatomy of the human airway
- Discuss how to manage an emergency airway
- Identify the medications used during airway management
- Review the new devices available for airway management and practice proper usage
- Perform percutaneous and surgical cricothyrotomy and practice proper technique

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>8:00 A.M.</td>
<td>Airway Anatomy</td>
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<td>8:00 A.M.</td>
<td>Airway Anatomy</td>
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<tr>
<td>8:45 A.M.</td>
<td>Airway Anatomy</td>
</tr>
<tr>
<td>8:45 A.M.</td>
<td>Management of the Difficult Airway</td>
</tr>
<tr>
<td>9:30 A.M.</td>
<td>Anatomic Surprises</td>
</tr>
<tr>
<td>10:15 A.M.</td>
<td>Airway Devices You Should Know About</td>
</tr>
<tr>
<td>10:30 A.M.</td>
<td>Airway Devices You Should Know About</td>
</tr>
<tr>
<td>11:15 A.M.</td>
<td>Pharmacologic Support: Sedation and Paralysis</td>
</tr>
<tr>
<td>12:00 P.M.</td>
<td>Lunch — Exhibit Hall 1</td>
</tr>
<tr>
<td>1:00 P.M.</td>
<td>Skill Station: Direct Laryngoscopy</td>
</tr>
<tr>
<td>1:30 P.M.</td>
<td>Skill Station: Percutaneous Cricothyroidotomy</td>
</tr>
<tr>
<td>2:00 P.M.</td>
<td>Skill Station: Surgical Cricothyroidotomy on a Pig Airway</td>
</tr>
<tr>
<td>2:30 P.M.</td>
<td>Skill Station: Surgical Cricothyroidotomy on a Pig Airway</td>
</tr>
<tr>
<td>2:45 P.M.</td>
<td>Skill Station: Channeled Airway Devices</td>
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<tr>
<td>3:15 P.M.</td>
<td>Skill Station: Non-Channeled Airway Devices</td>
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<tr>
<td>3:45 P.M.</td>
<td>Skill Station: Extraglottic Devices</td>
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<tr>
<td>4:15 P.M.</td>
<td>Questions and Answers</td>
</tr>
</tbody>
</table>

# Acute Kidney Injury and Renal Replacement Therapies

**Moderators:** John A. Kellum, Azra Bihorac

## LEARNING OBJECTIVES
- Discuss the pathophysiology, epidemiology and prevention of acute kidney injury (AKI)
- Compare drug and non-drug therapies for AKI
- Discuss practical aspects of renal replacement therapy (RRT)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:00 A.M.</td>
<td>AKI Diagnosis and Epidemiology</td>
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<tr>
<td>8:45 A.M.</td>
<td>Pathogenesis and Pathophysiology</td>
</tr>
<tr>
<td>9:30 A.M.</td>
<td>Prevention and Early Management of AKI</td>
</tr>
<tr>
<td>10:15 A.M.</td>
<td>Break</td>
</tr>
<tr>
<td>10:30 A.M.</td>
<td>Adverse Drug Events and AKI</td>
</tr>
<tr>
<td>11:15 A.M.</td>
<td>Who Should Receive RRT and When?</td>
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<tr>
<td>12:00 P.M.</td>
<td>What Kind of RRT?</td>
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<tr>
<td>1:00 P.M.</td>
<td>Access and Anticoagulation</td>
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<tr>
<td>1:45 P.M.</td>
<td>RRT Intensity and Fluid Management</td>
</tr>
<tr>
<td>2:30 P.M.</td>
<td>Trouble and Troubleshooting</td>
</tr>
<tr>
<td>3:15 P.M.</td>
<td>Life After RRT?</td>
</tr>
</tbody>
</table>
8:00 A.M. - 12:00 P.M.  ROOM 301A

Advanced Practice Providers: Administration, Leadership and Outcomes

Moderators: Rob Grabenkort, Marilyn Hravnak

LEARNING OBJECTIVES
- Identify models of care for integrating advanced practice providers (APPs)
- Review national trends on the use of nurse practitioners (NPs) and physician assistants (PAs)
- Discuss benchmarking for the role of the APP

8:00 A.M. - 8:45 A.M.
> Models of Care in NP and PA Practice: National Survey of NPs and PAs
  Ruth M. Kleinpell

8:45 A.M. - 9:30 A.M.
> A Model of NPs and PAs in the ICU: Aligning Goals and Strategies within the Healthcare System
  Timothy G. Buchman

9:30 A.M. - 10:15 A.M.
> Mentoring the APP for Professional Role Integration and Development
  Rob Grabenkort

10:15 A.M. - 10:30 A.M.
> Break

10:30 A.M. - 11:15 A.M.
> Evidence Supporting APPs in Process Improvement and Knowledge Dissemination
  Andrea M. Kline-Tilford

11:15 A.M. - 12:00 P.M.
> Reimbursement for APPs
  Walter A. Boyle

8:00 A.M. - 5:00 P.M.  ROOM 102

Advances in Veterinary Critical Care: Day 2 (see page 58 for Day 1)

Moderator: Benjamin Brainard

LEARNING OBJECTIVES
- Summarize the pathophysiology of multiorgan dysfunction in animals with sepsis
- Discuss the role of novel diagnostic options for animals with sepsis (i.e., biomarkers)
- Review the evidence behind new therapeutic options for animals with sepsis

8:00 A.M. - 8:45 A.M.
> Antibiotic Selection in Sepsis: One Size Does Not Fit All
  Iain Keir

8:45 A.M. - 9:30 A.M.
> Sepsis Biomarkers
  Claire R. Sharp

9:30 A.M. - 10:15 A.M.
> Extracorporeal Blood Purification: Changing the Paradigm of Sepsis Therapy
  Iain Keir

10:15 A.M. - 10:30 A.M.
> Break

10:30 A.M. - 11:15 A.M.
> The Interplay Between Coagulation and Inflammation in Sepsis
  Claire R. Sharp

11:15 A.M. - 12:00 P.M.
> Cardiovascular Dysfunction and Shock in Sepsis
  Claire R. Sharp

12:00 P.M. - 1:00 P.M.
> Lunch — Exhibit Hall 1

1:00 P.M. - 1:45 P.M.
> Is It Time to Re-Evaluate Our Approach to Fluid Therapy in the ICU?
  Iain Keir

1:45 P.M. - 2:30 P.M.
> The Lung in Sepsis
  Claire R. Sharp

2:30 P.M. - 3:15 P.M.
> The Cell Cycle Arrest as a Mechanism of and Therapeutic Target in Sepsis-Associated Multiple-Organ Dysfunction Syndrome
  Iain Keir

3:15 P.M. - 3:30 P.M.
> Break

3:30 P.M. - 5:00 P.M.
> ACVECC Mock Exam
  Benjamin Brainard
**Critical Care of the Patient with Liver Disease**

**Moderators:** Rahul Nanchal, Ram Subramanian

**LEARNING OBJECTIVES**
- Identify problems unique to patients with acute liver failure, acute-on-chronic liver failure and perihepatic transplantation
- Outline specific management strategies
- Discuss multiorgan system derangements in liver disease and management

8:00 A.M. - 8:45 A.M.
> Epidemiology  
  Jody C. Olson

8:45 A.M. - 9:30 A.M.
> The Brain Connection  
  Mark Wainwright

9:30 A.M. - 10:15 A.M.
> Hemodynamics and Cardiac Complications  
  Steven M. Hollenberg

10:15 A.M. - 10:30 A.M.
> Break

10:30 A.M. - 11:15 A.M.
> Pulmonary Complications  
  Rodrigo Cartin-Ceba

11:15 A.M. - 12:00 P.M.
> Kidney Injury Complications  
  Kai Singbartl

12:00 P.M. - 1:00 P.M.
> Lunch — Exhibit Hall 1

1:00 P.M. - 1:45 P.M.
> Hematological Issues  
  Richard T. Stravitz

1:45 P.M. - 2:30 P.M.
> Infectious Complications  
  Rahul Nanchal

2:30 P.M. - 3:15 P.M.
> Gastrointestinal Issues  
  Jody C. Olson

3:15 P.M. - 3:30 P.M.
> Break

3:30 P.M. - 4:15 P.M.
> Extracorporeal Support for the Liver: Hype or Reality?  
  Ram Subramanian

4:15 P.M. - 5:00 P.M.
> Liver Function in Critical Illness  
  David J. Kramer

5:00 P.M. - 5:45 P.M.
> Perioperative Management  
  Mark T. Keegan

8:00 A.M. - 5:00 P.M. ROOM 105

**Critical Care Pharmacotherapy: Challenges and Controversies**

**Moderators:** John Papadopoulos, Jeffrey Barletta

**LEARNING OBJECTIVES**
- Describe the challenges that exist when crafting a medication therapy regimen in the critically ill patient
- Describe the risks and benefits of selected therapies that are commonly considered in the critically ill
- Develop a plan for pharmacotherapy when the literature data may be lacking or conflicting

8:00 A.M. - 8:45 A.M.
> Management of Neuroemergencies: What’s Changed in the Last 10 Years?  
  Denise H. Rhoney

8:45 A.M. - 9:15 A.M.
> Pain, Agitation and Delirium: Beyond the Guidelines  
  John W. Devlin

9:15 A.M. - 10:15 A.M.
> Novel Antidotes for the Poisoned ICU Patient  
  John Papadopoulos

10:15 A.M. - 10:30 A.M.
> Break

10:30 A.M. - 11:15 A.M.
> Challenges with Drug Therapy During Therapeutic Hypothermia  
  Diana Esaian

11:15 A.M. - 12:00 P.M.
> Strategies for Drug Therapy During Extracorporeal Membrane Oxygenation  
  Amy L. Dzierba

12:00 P.M. - 1:00 P.M.
> Lunch — Exhibit Hall 1

1:00 P.M. - 1:45 P.M.
> How I Manage Excessive Anticoagulation  
  William E. Dager

1:45 P.M. - 2:15 P.M.
> Managing Medication Therapy When the Liver Is Failing  
  Tyree H. Kiser

2:30 P.M. - 3:15 P.M.
> Protecting the Tenuous Kidney  
  Michael L. Bentley

3:15 P.M. - 3:30 P.M.
> Break

3:30 P.M. - 4:15 P.M.
> The Future of Antimicrobial Therapy in the Critically Ill  
  Jeffrey Barletta

4:15 P.M. - 5:00 P.M.
> The Use of Biomarkers in the Care of Critically Ill Patients  
  Steven E. Pass
### Current Concepts in Adult Critical Care: Day 2
(see page 58 for Day 1)

**Moderators: Steven Greenberg, Edward Bittner**

**LEARNING OBJECTIVES**
- Discuss updates on diagnostic and treatment options in critical illness
- Debate controversial topics
- Examine patient safety and quality improvement initiatives in the ICU

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speakers</th>
</tr>
</thead>
</table>
| 8:00 A.M. - 8:45 A.M. | Early Mobility  
John P. Kress, Bhakti K. Patel |                                               |
| 8:45 A.M. - 9:30 A.M. | An Intensivist as a Patient in the ICU  
Steven Q. Simpson |                                               |
| 9:30 A.M. - 10:15 A.M. | Ventilator Modes for Hypoxic Respiratory Failure  
Dean R. Hess |                                               |
| 10:15 A.M. - 10:30 A.M. | Break |                                               |
| 10:30 A.M. - 11:15 A.M. | Advanced Trauma Life Support Update  
Marc de Moya |                                               |
| 11:15 A.M. - 12:00 PM | How to Start an Extracorporeal Membrane Oxygenation Program  
Gregory J. Schears |                                               |
| 12:00 P.M. - 1:00 P.M. | Lunch — Exhibit Hall 1 |                                               |
| 1:00 P.M. - 1:45 P.M. | Ask the Experts Panel  
Jerrold H. Levy, Steven Q. Simpson, Dean R. Hess, Marc de Moya, Gregory J. Schears |                                               |
| 1:45 P.M. - 2:30 P.M. | Acute Kidney Injury  
Robert N. Sladen |                                               |
| 2:30 P.M. - 3:15 P.M. | Which Type of Crystalloid for Resuscitation?  
John A. Kellum |                                               |
| 3:15 P.M. - 3:30 P.M. | Break |                                               |
| 3:30 P.M. - 4:15 P.M. | Massive Hemorrhage: Achieving Hemostasis  
Hasan B. Alam |                                               |
| 4:15 P.M. - 5:00 P.M. | Case Presentations  
David C. Kaufman, Jorge L. Hidalgo, Ahmed Zaky |                                               |

### Current Concepts in Pediatric Critical Care: Day 2
(see page 59 for Day 1)

**Moderators: Ana Lia Graciano, David Turner**

**LEARNING OBJECTIVES**
- Discuss updates on diagnostic and treatment options in pediatric critical illness
- Debate controversial topics in pediatric critical care
- Examine patient safety and quality improvement and outcome in the pediatric ICU

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speakers</th>
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</thead>
</table>
| 8:00 A.M. - 8:45 A.M. | ICU Acquired Weakness and Early Mobilization  
Ana Lia Graciano |                                               |
| 8:45 A.M. - 9:30 A.M. | Hot Topics in Patient Safety  
Kyle Rehder |                                               |
| 9:30 A.M. - 10:15 A.M. | Diabetic Ketoacidosis and Cerebral Edema  
Desmond J. Bohn |                                               |
| 10:15 A.M. - 10:30 A.M. | Break |                                               |
| 10:30 A.M. - 11:15 A.M. | Perioperative Management of the Single Ventricle Patient  
Ronald A. Bronicki |                                               |
| 11:15 A.M. - 12:00 P.M. | Pediatric Sepsis Beyond the Guidelines: Adjunctive and Unconventional Therapies  
Joseph A. Carcillo |                                               |
| 12:00 P.M. - 1:00 P.M. | Lunch — Exhibit Hall 1 |                                               |
| 1:00 P.M. - 1:45 P.M. | Emergency Preparedness: Are We Ready?  
Steven E. Krug |                                               |
| 1:45 P.M. - 2:30 P.M. | Managing Comfort in the Critically Ill Pediatric Patient  
Martha A.Q. Curley |                                               |
| 2:30 P.M. - 3:15 P.M. | Transfusion Therapies in the Pediatric ICU  
TBD |                                               |
| 3:15 P.M. - 3:30 P.M. | Break |                                               |
| 3:30 P.M. - 4:15 P.M. | Is High-Frequency Oscillatory Ventilation Better Than Continuous Mandatory Ventilation in Patients with Acute Respiratory Distress Syndrome? Pro/Con Debate  
Mark R. Rigby, Robert F. Tamburro |                                               |
| 4:15 P.M. - 5:00 P.M. | Electronic Health Record and Patient Safety  
Brian R. Jacobs |                                               |
**LEARNING OBJECTIVES**
- Identify the different components of the extracorporeal membrane oxygenation (ECMO) circuit and diagnose equipment malfunction
- Determine the optimal ECMO settings in diseases commonly treated by ECMO
- Recognize and manage the most common ECMO emergencies

**8:00 A.M. - 8:30 A.M.**
> Welcome and Introduction
  Heidi J. Dalton

**8:30 A.M. - 9:15 A.M.**
> Anticoagulation
  Laurance L. Lequier

**9:15 A.M. - 10:00 A.M.**
> Simulation IV: Ventricular Fibrillation Arrest
  Mark T. Ogino, Steven A. Conrad, Christopher D. Beaty, Bhavesh Patel, Heidi J. Dalton, Jennifer Wheeler, Alicia Schmidt, Cory Alwardt, David Michael McMullan

**10:00 A.M. - 10:30 A.M.**
> Break

**10:30 A.M. - 11:15 A.M.**
> Patient Management Pearls
  Daniel Brodie

**11:15 A.M. - 12:00 P.M.**
> Simulation IV: Hemolysis
  Heidi J. Dalton, Bhavesh Patel, David Michael McMullan, Laurance L. Lequier, Christopher D. Beaty, Steven A. Conrad, Mark T. Ogino, Jennifer Wheeler, Alicia Schmidt, Cory Alwardt

**12:00 P.M. - 1:00 P.M.**
> Lunch — Cafeteria

**1:00 P.M. - 1:45 P.M.**
> Evaluation and Management Billing
  Riad Cachecho

**1:45 P.M. - 2:30 P.M.**
> Critical Care Codes
  George A. Sample

**2:30 P.M. - 3:15 P.M.**
> Procedures and Modifiers
  Christine C. Toevs

**3:15 P.M. - 3:30 P.M.**
> Break

**3:30 P.M. - 4:15 P.M.**
> Documentation (E&M, Critical Care, ICD-10)
  Frances Britton

**4:15 P.M. - 5:00 P.M.**
> Special Coding Situations
  David L. Carpenter

**5:00 P.M. - 5:30 P.M.**
> Questions and Answers
  Riad Cachecho, George A. Sample, Christine C. Toevs, Frances Britton, David L. Carpenter
SUNDAY, JANUARY 18, 2015

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8:00 A.M. - 9:30 A.M. NORTH BALLROOM

● OPENING SESSION
Welcome from the Congress Co-Chairs

Lifetime Achievement Award Winner

2015 Presidential Address
Craig M. Coopersmith, MD, FCCM
Professor of Surgery
Director, Surgical Intensive Care Unit
Associate Director, Emory Center for Critical Care
Emory University School of Medicine
Atlanta, Georgia, USA

9:00 A.M. - 3:45 P.M. EXHIBIT HALL

Exhibit Hall/Posters Open

9:30 A.M. - 10:30 A.M. EXHIBIT HALL

Break

10:30 A.M. - 11:30 A.M. NORTH BALLROOM

● MAINTENANCE OF CERTIFICATION
Fluids Make the Difference in Organ Function and Survival with Sepsis
Supported, in part, by an educational grant from Baxter Healthcare Corporation

Moderator: John A. Kellum

LEARNING OBJECTIVES
• Relate and summarize the current evidence for fluid therapy in sepsis
• Differentiate intravenous fluid based on composition and safety profile
• Apply individual fluid therapy for critically ill patients with sepsis

> Optimizing the Volume of Fluid Resuscitation
  Keith R. Walley
> Impacting Organ Dysfunction by Fluid Volume and Type
  John A. Kellum
> Fluids as Part of Early Goal-Directed Therapy in Sepsis
  Derek C. Angus

10:30 A.M. - 12:30 P.M. ROOM 301BC

Evidence-Based Mechanical Ventilation in the ICU

Moderator: Richard D. Branson

LEARNING OBJECTIVES
• Recognize the latest evidence for mechanical ventilation
• Apply optimal evidence-based strategies for mechanical ventilation
• Determine which new evidence applies to your patient

> Face the Evidence: Prone or Supine
  Luciano Gattinoni
> Evidence-Based Approaches to Mechanical Ventilation in Acute Respiratory Distress Syndrome
  Gordon Rubenfeld
> Preventing Lung Injury and Multiple Organ Dysfunction Syndrome from the Operating Room
  Dean R. Hess
> Oscillating Up to the Evidence
  Niall Douglas Ferguson
  John P. Kress
> Individualizing Mechanical Ventilation
  Richard D. Branson
> Prevention of Acute Respiratory Distress Syndrome
  Ognjen Gajic
### 10:30 A.M. - 12:30 P.M.  ROOM 102

**MAINTENANCE OF CERTIFICATION**

**Extracorporeal Membrane Oxygenation Support in the ICU: What’s New for 2015?**

**Moderator:** Pauline K. Park

**LEARNING OBJECTIVES**
- Discuss current practice of extracorporeal support in the pediatric/neonatal setting
- Review extracorporeal membrane oxygenation (ECMO) program management quality improvement/simulation training
- Identify evolving indications and practice for ECMO in adult respiratory failure
- Review the current evidence and outcomes of extracorporeal support
- Consider the role of extracorporeal support in chronic obstructive pulmonary disease (COPD) management
- Examine impact of pre-transplant ECMO support on lung transplantation

- Pediatric/Neonatal ECMO: What Is New for 2015?  
  Heidi J. Dalton
- ECMO Program Management  
  David Michael McMullan
- Adult Respiratory Failure: Evolving Indications and Practice  
  Steven A. Conrad
- Adult Respiratory ECMO: What Do We Know About Outcomes?  
  Pauline K. Park
- COPD: What Is the Role of Extracorporeal Support?  
  Daniel Brodie
- ECMO as a Bridge to Lung Transplant: Current Status  
  Luciano Gattinoni

### 10:30 A.M. - 12:30 P.M.  ROOM 103

**MAINTENANCE OF CERTIFICATION**

**Noninvasive Cardiovascular Monitoring Strategies: The Swan Has Flown!**

**Moderator:** Michael H. Wall

**LEARNING OBJECTIVES**
- Identify available cardiovascular monitoring technologies
- Outline the benefits and liabilities of monitoring technologies
- Evaluate available monitoring strategies
  - Minimally Invasive Cardiac Output Monitors  
    Hernando Gomez
  - Monitoring the Microcirculation  
    Stephen Trzeciak
  - Biomarkers in Circulatory Assessment  
    Rajesh K. Aneja
  - Echocardiography as a Cardiovascular Monitor  
    Michael H. Wall
  - Ultrasound as a Monitor: Beyond Echocardiography  
    Steven G. Venticinque

### 10:30 A.M. - 12:30 P.M.  ROOM 105

**New Antimicrobial Utilization Strategies in the ICU**

**Moderator:** John Papadopoulos

**LEARNING OBJECTIVES**
- Compare monotherapy versus combination empiric therapy strategies targeting Gram-negative pathogens
- Discuss strategies and supportive evidence for using the inhaled method of antimicrobial delivery
- Critique antimicrobial rotation strategies for the bedside clinician
- Describe stewardship strategies that minimize antimicrobial-induced collateral damage

- One Is Good, But Is Two Better?  
  Douglas N. Fish
- Inhaled Antimicrobials  
  G. Christopher Wood
- Antimicrobial Rotation  
  Jeffrey L. Blumer
- Antimicrobial Stewardship in the ICU  
  Elizabeth A. Coyle
- Use of Biomarkers to Make Bedside Clinical Decisions  
  Lewis J. Kaplan

### 10:30 A.M. - 12:30 P.M.  ROOM 301D

**Organizational Approaches to Tele-ICU**

**Moderator:** Jeremy M. Kahn

**LEARNING OBJECTIVES**
- Review the current literature on tele-ICU
- Evaluate organizational models of delivery
- Discuss organizational facilitators and barriers

- ICU Telemedicine: State of the Evidence on Resource Utilization and Costs  
  Fiona A. Winterbottom
- ICU Telemedicine: State of the Evidence on Quality and Outcomes  
  Herb J. Rogove
- Models of ICU Telemedicine: Definitions Relative Benefits  
  Craig M. Lilly
- Facilitators and Barriers to Telemedicine Success  
  Jeremy M. Kahn

### 10:30 A.M. - 12:30 P.M.  ROOM 301A

**Redesigning ICU Care to Eliminate Preventable Harms**

**Moderator:** Robert Hyzy

**LEARNING OBJECTIVES**
- Recognize how different industries and disciplines can work together to improve care delivery
- Discuss care innovations designed and tested by four academic medical centers to eliminate harms
- Describe the important role patients and families have in eliminating preventable harms

- Libretto ICU Consortium Panel Discussion  
  Adam Sapirstein, David Bates, Daniel S. Talmor, Loren Pogir, Hildy Marie Schell-Chaple
10:30 A.M. - 12:30 P.M.    ROOM 221

**Systems Biology in Critical Illness and Injury: From Mechanistic Insights to Drug Discovery**

**Moderator:** Timothy Buchman

**LEARNING OBJECTIVES**
- Discuss systems biologic approaches as a paradigm to model host responses
- Evaluate genomic, metabolomic, proteomic and lipidomic approaches in biomarker discovery and validation
- Describe biomarkers in diagnostic evaluation, prognostication, and drug discovery

- Host Responses in Acute Respiratory Distress Syndrome Identified with Gene and Protein Expression Profiling
  - Michael W. Quasney
- Gene Expression Signatures in Pediatric Septic Shock
  - Hector R. Wong
- Proteomics for Prioritization of Therapeutic Targets in Neuronal Injury
  - Robert S.B. Clark
- Clinical-Metabolomic Predictive Modeling in Critical Illness
  - J. Perren Cobb
- Quantitative Lipidomics in Aneurysmal Subarachnoid Hemorrhage
  - Samuel M. Poloyac

10:30 A.M. - 12:30 P.M.    ROOM 106

**What If: Pediatric ICU Controversies**

**Moderator:** Timothy S. Yeh

**LEARNING OBJECTIVES**
- Identify ongoing controversies associated with caring for the pediatric ICU patient
- Examine whether certain policies are beneficial or destructive to the pediatric ICU staff

- What If There Were No Research Dollars?
  - Martha A.Q. Curley
- What If Pediatric ICUs No Longer Accepted Specific-Age Patients?
  - George E. Hardart
- What If There Were No Specialty Critical Care Units?
  - Edward E. Conway Jr.
- What If We No Longer Used Restraints?
  - Maureen A. Madden
- What If All Children Were Only Admitted to Children’s Hospitals?
  - Timothy S. Yeh
- What If We Could Not Use Off-Label Drugs in Children?
  - Madelyn D. Kahana

11:00 A.M. - 12:00 P.M.    ROOM 231

**NON-CE SESSION**

**Become a Fellow of the American College of Critical Care Medicine**

**Moderator:** Marie Baldisseri

**LEARNING OBJECTIVE**
- Define the eligibility criteria for fellowship in the American College of Critical Care Medicine

(see page 18 for all ACCM activities)

11:30 A.M. - 12:30 P.M.    NORTH BALLROOM

**MAINTENANCE OF CERTIFICATION**

**Metabolic Recovery and Multiple Organ Failure**

**Moderator:** Richard S. Hotchkiss

**LEARNING OBJECTIVES**
- Discuss the role of mitochondrial dysfunction in the development of multiple organ failure
- Review the molecular mechanisms of disposal of dysfunctional mitochondria by autophagy
- List the potential approaches to aid recovery by mitochondrial biogenesis

- Impaired Oxygen Utilization
  - Mervyn Singer
- Altered Metabolic Profile in Experimental Sepsis
  - Elliott D. Crouser
- Disposal of Dysfunctional Mitochondria in Multiple Organ Failure
  - Richard S. Hotchkiss

**ePosters**

Want to view various posters and enhanced listing information in one place? Go to our ePosters section in the Poster Hall to view information that authors have added to their original abstract.

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### 12:45 P.M. - 1:45 P.M. POSTER HALL

#### Professor Walk Rounds

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- Ethics/End of Life/Palliative Care 2: 399 - 409
- GI/Hepatic 1: 410 - 419
- GI/Hepatic 2: 420 - 430
- Hematology 1: 431 - 439
- Hematology 2: 440 - 448
- Hematology 3: 449 - 457

### 2:00 P.M. - 2:45 P.M. NORTH BALLROOM

- **PLENARY SESSION**
  - LIFETIME ACHIEVEMENT AWARD WINNER

#### The Practice of Critical Care Medicine: Ten Things We Can (and Must) Do Better

**R. Phillip Dellinger, MD, MSc, MCCM**

Professor and Chair, Department of Medicine  
Cooper Medical School of Rowan University  
Chief Medicine Service and Medical Director  
Adult Health Care Institute  
Senior Critical Care Attending  
Cooper University Health Care  
Camden, New Jersey, USA

**Moderator:** Greg S. Martin

**LEARNING OBJECTIVES**

- Review 30 years of critical care medicine practice as well as recent changes in healthcare delivery and technology to arrive at things we can and must do better
- Discuss things that we must do better with literature support and real-life examples
- Contemplate your own critical care medicine practice and what to try to do better

### 2:45 P.M. - 3:45 P.M. EXHIBIT HALL

**Break**

### 3:45 P.M. - 5:45 P.M. ROOM 222

- **MAINTENANCE OF CERTIFICATION**

#### Applying the GRADE Approach to the Grading of Evidence

**Moderator:** Mark Edwin Nunnally

**LEARNING OBJECTIVES**

- Apply the Grades of Recommendation Assessment, Development, and Evaluation (GRADE) approach to write a recommendation using high-quality evidence as defined by the methodology
- Apply the GRADE approach to write a recommendation using low-quality evidence as defined by the methodology
- List situations where a recommendation need not be issued

- Quality of Evidence: Assessment and Implications
  - Mark Edwin Nunnally

- Practical Aspects of Guideline Development: Managing Conflicts of Interest and Settling Disagreements
  - Roman Jaeschke

- GRADE and Beyond: Tools and Applications for the Guidelines Development Process
  - Bram Rochwerg

- Application of GRADE: Case Reports
  - Waleed Alhazzani
3:45 P.M. - 5:45 P.M.  ROOM 231

NON-CE SESSION
In-Training Section Session—Transition from Training to First Job: My First Week of ICU Service as an Attending
Moderator: Utpal S. Bhalala, Elizabeth A. Hunt

LEARNING OBJECTIVES
• Review how to recognize and manage conflicts
• Discuss being the new person at work: know when and who to call for help
• Examine professionalism and teamwork

Panel Discussion
Cheryl N. Bartke, Denise M. Goodman, Vinay M. Nadkarni, Samuel A. Tisherman

3:45 P.M. - 5:45 P.M.

Oral Abstracts
These sessions are based on the abstracts scoring in the top 10% and highlight the best research in a variety of categories. Each abstract will be presented for approximately 15 minutes and will be moderated to facilitate discussions. The abstract numbers listed below correspond with the abstract listing in the December Critical Care Medicine abstract supplement.

LEARNING OBJECTIVE
• Examine the top 10% evidence-based research findings in basic science and clinical medicine Discuss the research data with principal investigators

3:45 P.M. - 5:45 P.M.  ROOM 102

Oral Abstracts: CPR/Resuscitation
Moderators: Basilia Zingarelli, Judith Hellman

9 ADAMTS13 Is Associated with Neurological Outcome in Patients with Out-of-Hospital Cardiac Arrest
10 CPR in Adult Patients Undergoing Major Surgical Procedures in USA: Profile and Predictors
11 Lower Oxygen Concentration Reduced Systemic Inflammatory Response and Improved the Outcome of CPR
12 Pro-inflammatory Cytokines Are Elevated in the Rat Hippocampus During Cardiopulmonary Resuscitation
13 Teaching Situation Awareness During Cardiac Arrests and Rapid Responses – A Simulation Study
14 Video Laryngoscopy Improves Odds of First Attempt Success at Intubation in the Intensive Care Unit
15 Zoniporide Combined with α-MNE Optimizes the Hemodynamic Efficacy of Chest Compression
16 Central Venous Pressure: Is It an Accurate Reflection of Intravascular Volume Status?

3:45 P.M. - 5:45 P.M.  ROOM 101

Oral Abstracts: Acute Care Surgery
Moderators: Wendy Greene, Ahmed E. Badr

1 Correlation of CHADS2 with New Onset Atrial Fibrillation in Thoracic and Vascular Surgical Patients
2 Fluid Overload Costs in Cardiovascular Patients: Are Small Volume Infusions a Proactive Solution?
3 Mortality Risk Factors with Carbapenem-Resistant Bacteremia: Impact of Combination Therapy
4 RCT of Chlorhexidine vs. Soap and Water Bathing for Prevention of Hospital-Acquired Infections in SICU
5 Immunomodulating Diet Containing Whey Protein and EPA Suppressed Reactive Oxygen Species Production
6 Melatonin Inhibits Hemorrhagic Shock-Induced Fluid Leak and Microvascular Endothelial Derangements
7 Physical Therapy Consultation and Its Effect on Surgical Trauma ICU Length of Stay
8 Simple, Reliable Sepsis Screening Tool Improves Mortality in Trauma Patients

3:45 P.M. - 5:45 P.M.  ROOM 105

Oral Abstracts: Epidemiology
Moderators: Diane Byrum, Pauline K. Park

17 Epidemiology and Outcomes of In-Hospital Cardiac Arrest Across Hospitals of Varied Center Volume
18 ADR Surveillance Using a Multicenter Clinical Database: Propofol-Related Infusion Syndrome Incidence
19 Epidemiology of Acute Kidney Injury and Fluid Overload in Critically Ill Children
20 Heterogeneous Treatment Effect of Red Blood Cell Transfusion (RBCT) in Critically Ill Patients
21 Hospitalizations and Outcomes Attributed to Epidermal Necrolysis in USA: Predictors of Mortality
22 Predictors of Home Discharge Among Survivors of Necrotizing Fasciitis: A Population-Based Study
23 The Obesity Paradox Is Not Observed in Critically Ill Patients on Early Enteral Nutrition
24 Epidemiologic Features and Outcome of Sepsis in Neurologic Intensive Care Unit Patients
### Oral Abstracts: Neuroscienece

**Moderators: Cherylee W. Chang, Paul M. Vespa**

- 25 Differences in End-of-Life Care for Intensive Care Unit (ICU) Patients With vs. Without Cancer
- 26 Effect of Steroids Administration on Brain Dead Organ Donors and Recipients: A Systematic Review
- 27 Benefits of Levetiracetam After Controlled Cortical Impact in Rats: Studies from the OBTT Consortium
- 28 Platelet Dysfunction on Thromboelastogram Is Associated with Increased Mortality in Head Trauma
- 29 Seizures and Status Epilepticus Exacerbate Ventricular Instability in Children with Epilepsy
- 30 The Effect of Aneurysmal Subarachnoid Hemorrhage on Work Productivity
- 31 Traumatic Brain Injury Leads to Altered Brain Drug Transporter Expression
- 32 Giving Your Patients M.O.R.E.: Implementation of a Non-Pharmacologic Protocol to Prevent ICU Delirium

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### Oral Abstracts: Pediatrics

**Moderators: Maureen A. Madden, Timothy S. Yeh**

- 33 Accurately Identifying Degree of Lung Injury in Pediatric Acute Respiratory Distress Syndrome
- 34 Alveolar Dead Space Fraction Discriminates Survival in Pediatric Acute Respiratory Distress Syndrome
- 35 Differential Regulation of Inflammatory Biomarkers by Methylprednisolone in Early Pediatric ARDS
- 36 Impact of Ketamine Coadministration During Dexmedetomidine Sedation for Pediatric MRI
- 37 Performance of Interleukin 27 as a Sepsis Diagnostic Biomarker in Critically Ill Children
- 38 Physiological Variables of Burn Injury in Infants: An Overview
- 39 Red Blood Cell Distribution Width Is Associated with Increased Mortality in Critically Ill Children
- 40 Richmond Agitation Sedation Scale Inter-Rater Reliability in Critically Ill Pediatric Patients

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### Oral Abstracts: Pulmonary and Monitoring, Continued

**Moderators: Richard D. Branson, Rahul Nanchal**

- 41 Forecasting Cardio-Respiratory Instability in Monitored Patients: A Machine Learning Approach
- 42 Random Forest Models Separate Vital Sign Events as Real or Artifact in Continuous Monitoring Data
- 43 Volumetric Capnography in the Assessment of Hemodynamic Status in Infants with Cardiac Disease
- 44 Nutrition Status and Outcomes in Noncardiogenic Acute Respiratory Failure: A Cohort Study
- 45 Acute Respiratory Distress Syndrome Following Hematopoietic Stem Cell Transplantation

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### Oral Abstracts: Quality, Safety and Outcomes

**Moderators: William E. Dager, Mark E. Mikkelsen**

- 49 ICU Outcomes of Physician Assistants and Acute Care Nurse Practitioners Compared to Resident Teams
- 50 A PICU Sedation Protocol for Mechanically Ventilated Patients Needs Sustenance Beyond Implementation
- 51 Archetyping Artifacts in Monitored Noninvasive Vital Signs Data
- 52 Associations Between Sedatives, Ventilator-Associated Events, Length of Stay, and Mortality
- 53 Big Data, Open Source Tools, and Clinical Decision Support in a Pediatric ICU
- 54 Cost Savings from Real Time Pressure Mapping on Hospital-Acquired Pressure Ulcers in a Medical ICU
- 55 Efficacy of Simple Scavenging System Applied for Volatile-Based, Long-Term ICU Sedation
- 56 Predicting PICU Admission and Team Composition from Transport Risk Assessment in Pediatrics Score

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### Oral Abstracts: Sepsis

**Moderators: Michael H. Wall, Jorge L. Hidalgo**

- 57 Impact of Oral Health on Infectious Complications in Adults Hospitalized Due to Leukemias in the USA
- 58 EBI3 Genetic Deficiency Increases Lung and Systemic Inflammation in Mice Subjected to Sepsis
- 59 Effect of Cholecalciferol Supplementation on Vitamin D Status and Cathelicidin in Sepsis
- 60 Persistently High Albumin Leak Is Associated with Mortality
- 61 Pre-Admission Oral Steroids Are Associated with a Decreased Risk of ARDS in ICU Patients with Sepsis
- 62 Recombinant Human Thrombomodulin Inhibits Neutrophil Extracellular Traps Formation in Vitro
- 63 REWS: Real-time Early Warning Score for Septic Shock
- 64 Shock Index to Assess Outcomes on Pediatric Interfacility Transport
MONDAY, JANUARY 19, 2015

Continental Breakfast
6:00 A.M. – 6:30 A.M. OUTSIDE ROOMS 101 AND 102

6:30 A.M. - 8:00 A.M. ROOM 101
• BREAKFAST SYMPOSIUM
Diagnosis and Application of Current and Emerging Therapeutic Interventions for Hyponatremia in the Critical Care Patient
Supported by an education grant from Otsuka America Pharmaceutical, Inc.

Moderator: David L. Carpenter

LEARNING OBJECTIVES
• Discuss the diagnosis, presentation, and impact on patient outcomes of mild, moderate, and severe hyponatremia in critical care patients
• Review the safety and efficacy of current and emerging therapies for the management of hyponatremia in critical care patients
• Individualize treatment approaches to patients with hyponatremia based on their clinical presentation, underlying etiology, and severity of symptoms

> Current Clinical Practice: Differential Diagnosis of Hyponatremia, Diagnosis of Hyponatremia by Exclusion, and the Initiation of Treatment
  Stephan A. Mayer
> Understanding the Treatment Options and Optimizing Therapy
  Gretchen M. Brophy
> Individualized Treatment Approaches to Patients with Hyponatremia
  David L. Carpenter

8:15 A.M. - 9:00 A.M. NORTH BALLROOM
• PLENARY SESSION
• WILLIAM SHOEMAKER HONORARY LECTURE
Creating a Healthy Work Environment Through Compassionate Care

Moderator: Sophia Rodgers

LEARNING OBJECTIVES
• Describe how an unhealthy work environment contributes to errors, conflict and stress
• Examine healthy work environment standards

9:00 A.M. - 10:00 A.M. EXHIBIT HALL
Break

9:00 A.M. - 3:15 P.M. EXHIBIT HALL
Exhibit Hall/Posters Open

10:00 A.M. - 11:00 A.M. ROOM 106
The Use of Cardiac Assist Devices in the Failing Pediatric Heart
Moderator: Timothy Yeh

LEARNING OBJECTIVES
• Identify the role of ventricular assist devices (VAD) in the pediatric ICU
• Define non-transplant options for chronic heart failure in the pediatric patient
• Discuss nursing management of this population

> The Expanding Role of VAD for the Acute Heart Failure Patient in the Pediatric ICU
  David P. Nelson
> VAD in the Non-Transplant Cardiac Patient
  Paul A. Checchia
> Nursing Management of the Child with an Assist Device: Getting to the Heart of the Matter
  Lisa Kohr
**10:00 A.M. - 12:00 P.M. ROOM 221**

**JOINT CCSC SESSION**

**Burnout in ICU Healthcare Professionals: Addressing a Real Phenomenon**

**Moderator: J. Christopher Farmer**

**LEARNING OBJECTIVES**
- Review the phenomenon of ICU burnout
- Discuss strategies for recognizing and managing ICU burnout
- Highlight implications for ICU healthcare professionals in promoting a healthy work environment

- Defining Terms: Stress, Burnout, Moral Distress, Post-Traumatic Stress Disorder (PTSD)
  - Marc Moss
- Epidemiology of Burnout, Moral Distress and PTSD in the ICU
  - Curtis N. Sessler
- Organizationally Focused Interventions to Address Burnout in the ICU
  - Vicki S. Good
- Individual Provider-Focused Interventions to Address Burnout and Moral Distress in the ICU
  - Ruth M. Kleinpell

**10:00 A.M. - 12:00 P.M. NORTH BALLROOM**

**MAINTENANCE OF CERTIFICATION**

**Crystalloid Versus Colloid: The Debate Rages On!**

Supported, in part, by educational grants from Baxter Healthcare Corporation and Grifols

**Moderator: John A. Kellum**

**LEARNING OBJECTIVES**
- Recognize the controversies in fluid resuscitation
- Contrast the data from recent fluid trials
- Generalize new data to current resuscitation practice
- Interpret the science behind fluid choice

- What's Normal About Saline?
  - John A. Kellum
- The Basics of Comparative Fluids
  - Todd W. Rice
- The Albumin for Volume Replacement in Severe Sepsis (ALBIOS) Trial
  - Luciano Gattinoni
- Therapy in the Colloids Versus Crystalloids for the Resuscitation of the Critically Ill (CRISTAL) Trial
  - Djillali Annane
- From SAFE to CHEST: Is There Any Role for Colloids?
  - Lauralyn A. McIntyre

**10:00 A.M. - 12:00 P.M. ROOM 301D**

**End of Life in the ICU: Costs and Logistics**

**Moderator: Dan R. Thompson**

**LEARNING OBJECTIVES**
- Discuss informed consent at the end of life
- Recognize the best decision makers for the critically ill patient
- Explain the costs of taking care of the critically ill at the end of life
- Specify costs of transferring patients to other care settings
- Assess options for the frequent ICU patient

- Informed Consent at the End of Life: Procedures, Goals, Prolonging Life
  - Joseph L. Nates
- Substituted Judgment: Who Speaks for This Patient?
  - Dan R. Thompson
- Costs of End-of-Life Care in the ICU
  - Anne C. Mosenthal
- Impact of Transferring to Other Settings: Long-Term Acute Care, Skilled Nursing Facility, Hospice
  - Shannon S. Carson
- The Frequent Flyer in the ICU: When Is Enough Enough?
  - Christine C. Toevs

**10:00 A.M. - 12:00 P.M. ROOM 105**

**MAINTENANCE OF CERTIFICATION**

**Enhancing the Quality and Safety of Care for Older Adults with Critical Illness**

**Moderator: Nathan E. Brummel**

**LEARNING OBJECTIVES**
- Review aging-related changes in pharmacokinetics and drug metabolism
- Describe delirium as an indicator of quality of care
- Discuss how aging and critical illness can result in cognitive decline and physical disability
- Explore interventions to make the ICU a safer place for older adults

- Reducing Adverse Drug Events in Critically Ill Older Adults
  - John W. Devlin
- Delirium as a Quality Indicator: How Healthy Is Your ICU?
  - Timothy D. Girard
- Creating the “Geriatric Friendly” ICU
  - Michele C. Balas
- Improving Palliative Care for Older Adults in the ICU
  - Kathleen A. Puntillo
- Successful ICU Survivorship for Older Adults
  - Nathan E. Brummel
10:00 A.M. - 12:00 P.M.  ROOM 301A

Outcomes Important to Critically Ill Patients

Moderator: Jonathan Sevransky

LEARNING OBJECTIVES
- Examine the frequency and causes of post-intensive care syndrome (PICS)
- Evaluate optimal patient-centered outcomes for trial design
- Describe opportunities and challenges to measuring long-term outcomes
- Discuss patient-centered outcomes from the patient perspective
  > PICS: What Is It and Who Is At Risk?
    Mark E. Mikkelsen
  > Mortality Is the Best Outcome for Clinical Trials
    Derek C. Angus
  > Measuring Long-Term Outcomes in Critically Ill Patients
    Ramona O. Hopkins
  > What Patients and Their Families Say About Clinical Outcomes
    Jonathan E. Sevransky
  > The Patient’s Perspective
    Alison Clay

10:00 A.M. - 12:00 P.M.  ROOM 301BC

Soup-to-Nuts Renal Failure: Caring for the Patient with Kidney Injury

Moderator: William E. Dager

LEARNING OBJECTIVES
- Integrate basic science to clinical realities in caring for renal injury patients
- Differentiate the forms of renal injury
- Discuss the application of new approaches in the care of patients with renal injury
  > Pharmacotherapy in Acute Kidney Injury
    William E. Dager
  > Nursing the Patient with Acute Kidney Injury
    Karen Sands
  > Clinical Scenarios: Hepatorenal Syndrome
    Ram Subramanian
  > Clinical Scenarios: Cardiorenal Syndrome
    Peter McCullough
  > Clinical Scenarios: Kidney Injury from Sepsis
    Raghavan Murugan

10:00 A.M. - 12:00 P.M.  ROOM 101

Thinking About ICUs: Beds, Costs, Occupancy Rates, Post-ICU Care and Governance

Moderator: Neil A. Halpern

LEARNING OBJECTIVES
- Understand the framework of ICUs and ICU costs in the United States
- Learn how to measure and maximize the use of ICU beds
- Understand models of ICU governance
  > ICU Beds and Cost: Do We Really Know Where They Are and What They Cost?
    Neil A. Halpern
  > ICU Occupancy Rates and Beds per 100,000: Are These Relevant Parameters?
    Hannah Wunsch
  > More ICU Beds, Fewer ICU Beds or Better Use of Existing ICU Beds?
    Jeremy M. Kahn
  > Post-ICU Care: Can It and Should It Be Factored into the ICU Cost Calculus?
    Peter E. Morris
  > Governing the ICUs: Time for Intensivists to “Own” Their Units
    Stephen M. Pastores

10:00 A.M. - 12:00 P.M.  ROOM 102

What Just Got Off the Airplane?

Moderator: Jorge L. Hidalgo

LEARNING OBJECTIVES
- Identify the latest infectious threats to international travelers
- Describe the challenges of managing patients with severe novel clinical syndromes
- Summarize formal and systematic clinical investigation of emerging infectious disease
- Discuss global applications of clinical experience
  > Global Warming and Emerging Tropical Disease
    Jorge L. Hidalgo
  > Dengue and Chikungunya Virus
    Juan I. Silesky Jimenez
  > Emerging Resistant Malaria
    Pravin R. Amin
  > Respiratory Syndrome
    Jorge E. Sinclair Avila
  > Tuberculosis
    Mervyn Mer
11:00 A.M. - 12:00 P.M.  ROOM 106

**Pro/Con Debate: Does Continuous Renal Replacement Therapy Have a Clinical Role in Sepsis Management?**

**Moderator: Daniel Brown**

**LEARNING OBJECTIVES**
- Discuss the value of continuous renal replacement therapy (CRRT) in sepsis
- Analyze whether CRRT should be front-line therapy in sepsis

> CRRT Should Be Used in the Septic Pediatric Patient  
James D. Fortenberry
> CRRT Offers No Benefit in the Treatment of Septic Shock  
Joseph A. Carcillo
> Rebuttal and Questions  
James D. Fortenberry, Joseph A. Carcillo

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**ePosters**

Want to view various posters and enhanced listing information in one place? Go to our ePosters section in the Poster Hall to view information that authors have added to their original abstract.

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12:15 P.M. - 1:15 P.M.  ROOM 131

**Professor Walk Rounds..., Continued**

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12:15 P.M. - 1:30 P.M.  ROOM 131

**The New Quality and Safety Pathways: How Fellowship Program Directors Can Develop Systems to Educate Trainees and Meet Requirements**

**Moderator: Marc J. Popovich**

**LEARNING OBJECTIVES**
- Review the systematic quality program development for fellows survey results
- Demonstrate the history and process leading up to the ACGME requisite for trainee quality and safety projects
- Identify metrics to establish and meet quality and safety requirements
- Discuss a “how-to” of multidisciplinary examples for program implementation and development

> Welcome and Review of Program Directors’ Survey  
Marc J. Popovich
> The Importance of Integrating Trainees into Institutional Quality and Safety Initiatives  
Richard E. Hawkins
> Use of Metrics in Designing Quality and Safety Education Programs for Fellows  
Gary E. Loyd
> Simple Strategies to Better Systems for Program Directors: How You Can Meet Training Requirements AND Make Your Hospital Safer  
Susan Moffatt-Bruce
> Open Discussion
1:30 P.M. - 2:15 P.M. NORTH BALLROOM

• PLENARY SESSION

The Emerging Prominence of Latin and Central America in Critical Care

Jorge L. Hidalgo, MD, MACP, FCCP, FCCM
Professor of Critical Care
Chief, Division of Critical Care
Karl Heusner Memorial Hospital
Member, Board of the Under the Water Science and Scientific Diving
University of Belize
Belize City, Belize

Moderator: Gloria Rodriguez-Vega

LEARNING OBJECTIVES
• Define the historical landscape of critical care medicine in Latin America
• Describe challenges in critical care medicine in Latin America
• Summarize the epidemiology of critical care medicine in Latin America

2:15 P.M. - 3:15 P.M. EXHIBIT HALL

Break

3:15 P.M. - 4:15 P.M. ROOM 101

Glucose Control in the Critically Ill: Still Relevant After All These Years?

Moderator: James S. Krinsley

LEARNING OBJECTIVES
• Discuss strategies for managing hypoglycemia
• Develop strategies for undiagnosed diabetes
• Review management strategies of hyperglycemia
> Dietary Manipulation in the Face of Hyperglycemia
  Paul Wischmeyer
> Glycemia in the ICU: What’s New Since NICE-SUGAR?
  James S. Krinsley
> How Are Diabetic Patients Different?
  David L. Carpenter
> Hyperglycemia: Stress and Iatrogenesis; What Do I Do?
  Prasad E. Abraham

3:15 P.M. - 4:15 P.M. NORTH BALLROOM

International Perspectives on Sepsis

Moderator: Jorge L. Hidalgo

LEARNING OBJECTIVES
• Discuss the challenges of sepsis management in different environments
• Review the international epidemiology of sepsis
> North American Perspective
  R. Phillip Dellinger
> Latin American Perspective
  Sebastian Ugarte
> African Perspective
  Mervyn Mer
> Asian Perspective
  Pravin R. Amin

3:15 P.M. - 4:15 P.M. ROOM 106

Nutrition Issues in Pediatric Critical Care

Supported, in part, by an education grant from Mead Johnson Nutrition

Moderator: Ann-Marie Brown

LEARNING OBJECTIVES
• Describe challenges associated with measuring resting energy expenditure
• Discuss preferential feeding therapies
• Identify outcomes related to nutrition
> Challenges to Measuring Resting Energy Expenditure in Pediatric Critical Care
  Sharon Y. Irving
> Feeding Critically Ill Children: Does It Impact Their Outcomes?
  Ann-Marie Brown
> Enteral or Parenteral Nutrition: Does It Matter?
  Susan M. Hamilton
3:15 P.M. - 4:15 P.M.  ROOM 105

* SCCM/ESICM JOINT SESSION

**Sepsis Redefined**

**Moderators:** J. Christopher Farmer, Daniel De Backer

**LEARNING OBJECTIVES**
- Discuss the rationale for updating the definition of sepsis
- Review the outcomes of the 2014 Sepsis Definition Discussion
- Outline strategies for sepsis management in resource-limited countries
  - Why Do We Need a New Sepsis Definition?
    - Clifford S. Deutschman
  - The San Francisco Definition
    - Mervyn Singer
  - IMPRESS Study: What Did We Learn?
    - Mitchell M. Levy
  - Fighting Sepsis in Resource-Limited Countries: The Surviving Sepsis Campaign Initiative
    - J. Christopher Farmer

3:15 P.M. - 4:15 P.M.  ROOM 301BC

**The Future of Hospitalists in the ICU**

**Moderator:** Nicholas S. Ward

**LEARNING OBJECTIVES**
- Clarify the extent to which there is an ICU physician shortage in the United States
- Review existing and proposed strategies for integrating hospitalists into ICU care
- Discuss potential benefits and detriments of integrating hospitalists into ICU care
  - Workforce Shortages in Critical Care
    - Nicholas S. Ward
  - Existing and Proposed Strategies for Integrating Hospitalists into Critical Care
    - Stephen M. Pastores
  - Is There a Role for Hospitalists in the ICU?
    - Steven Q. Simpson

3:15 P.M. - 4:15 P.M.  ROOM 301D

**Year in Review: Research**

**Moderator:** Robert D. Stevens

**LEARNING OBJECTIVES**
- Review game-changing new biomedical research in the basic, translational and clinical realm
- Discuss the relevance of such findings to critical care medicine
- Outline an agenda for research in the next five years
  - Basic Science
    - Basilia Zingarelli
  - Translational Science
    - Robert D. Stevens
  - Clinical Science
    - Alejandro A. Rabinstein

3:15 P.M. - 4:15 P.M.  ROOM 301D

**Year in Review: Surgery**

**Moderator:** Wendy Ricketts Greene

**LEARNING OBJECTIVES**
- Discuss important trauma critical care topics that can shape your practice
- Describe the importance of surgical critical care articles in your practice
- List the important acute care surgical topics that can shape your practice
  - Trauma Critical Care
    - Douglas F. Naylor Jr.
  - Surgical Critical Care
    - Jose L. Pascual
  - Acute Care Surgery
    - Wendy Ricketts Greene

4:30 P.M. - 5:30 P.M.  ROOM 106

**Bench-to-Bedside Research and Back: Finding the Bridge**

**Moderator:** Rajesh Aneja

**LEARNING OBJECTIVES**
- Review novel clinical and laboratory biomarkers of brain injury and sepsis
- Define the phases of the research processes to investigate the clinical relevance of basic science findings
- Demonstrate how basic science can contribute to the definition of pathophysiologic mechanisms of emerging laboratory biomarkers
  - Biological Markers in Pediatric Traumatic Brain Injury
    - Karin E. Reuter-Rice
  - From the Bench to the Bedside: PPAR-γ Ligands in Pediatric Sepsis
    - Jennifer Melissa Kaplan
  - Back to the Bench: Evaluation of the Biological Role of Key Biomarkers in Pediatric Sepsis
    - Hector R. Wong
4:30 P.M. - 5:30 P.M.  ROOM 101

- MAINTENANCE OF CERTIFICATION

**Hormone Resuscitation**

**Moderator:** Daniel R. Brown

**LEARNING OBJECTIVES**
- Describe adrenal function and malfunction during acute illness
- Discuss thyroid support during critical illness and brain death
- Explore pituitary failure in critical illness
  > Adrenal Failure and Euadrenal Sick Syndrome
  > Hormone Resuscitation and Brain Death
  > Pituitary Failure in Acute Illness

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4:30 P.M. - 5:30 P.M.  ROOM 105

- A.S. LAERDAL MEMORIAL AWARD LECTURE

**Mitochondrial Medicine at the Core of Critical Illness**

**Moderator:** Lauren R. Sorce

**LEARNING OBJECTIVES**
- Review the vital role of mitochondria
- Discuss the vital role of mitochondria as the driving force behind cell death and death cascades
- Examine the causes of central mitochondrial biology and dysfunction
  > Mitochondrial Medicine at the Core of Critical Illness

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4:30 P.M. - 5:30 P.M.  NORTH BALLROOM

- MAINTENANCE OF CERTIFICATION

**Pro/Con Debate: Is a Short Duration of Antimicrobial Therapy Appropriate for Ventilator-Associated Pneumonia?**

**Moderator:** Elizabeth Coyle

**LEARNING OBJECTIVES**
- Discuss the evidence supporting short durations of antimicrobial therapy
- List the risks with the use of short durations of antimicrobial therapy
  > A Short Duration of Therapy Is Appropriate
  > A Short Duration of Therapy Is Not Appropriate
  > Rebuttal and Questions

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4:30 P.M. - 5:30 P.M.  ROOM 301BC

**Project Dispatch: Patient- and Family-Centered Care Making a Difference**

**Moderators:** Judith Tate, Nneka Mokwunye

**LEARNING OBJECTIVES**
- Discuss issues related to integrating patient-centered outcomes research
- Share examples of patient-centered outcomes research and initiatives
- Describe strategies for integrating patient-centered outcomes research
  > Acknowledging the Expert in the Room: Implementing a Family Involvement Menu
  > “Tree of Life” Memorial Event: The Challenges to Acknowledging the Donor and Family
  > Taking a Comprehensive Approach to Patient-Centered Care in the Surgical ICU

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4:30 P.M. - 5:30 P.M.  ROOM 301A

**To Do or Not to Do: Endovascular Procedures for the Brain**

**Moderator:** Paul Vespa

**LEARNING OBJECTIVES**
- Evaluate indications for neurointerventional treatment
- Review alternative treatments, risks, and benefits
  > The Neurologist/Neurointerventionalist Perspective
  > The Neurosurgeon/Neurointerventionalist Perspective

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4:30 P.M. - 5:30 P.M.  ROOM 301D

**Year in Review: Anesthesiology**

**Moderator:** Aryeh Shander

**LEARNING OBJECTIVES**
- Discuss the impact of early mobility in critically ill patients
- Review recommendations for adopting palliative care in the critical care setting
  > Early Mobility and Impact on Long-Term Outcomes
  > Role of the Critical Care Anesthesiologist in Palliative Care
### Year in Review: Clinical Pharmacology and Pharmacy

**Moderator: Karen McAllen**

**LEARNING OBJECTIVES**
- Examine updates in the acute management of severe burn injury
- Assess relevant studies surrounding fluid resuscitation of shock syndromes
- Review infectious disease in the ICU

### Your Patient Is Positive for Clostridium difficile: “Oh Feces!”

Supported, in part, by an educational grant from Cubist Pharmaceuticals, Inc.

**Moderator: Jeffrey Barletta**

**LEARNING OBJECTIVES**
- Identify the role of probiotics in the setting of C. difficile
- Develop a treatment algorithm for C. difficile
- Summarize the role of fecal transplantation for C. difficile

### ACCM Convocation and SCCM Awards Ceremony

(see page 18 for all ACCM activities)
TUESDAY, JANUARY 20, 2015

8:15 A.M. - 9:00 A.M. NORTH BALLROOM

• PLENARY SESSION
• PETER SAFAR MEMORIAL LECTURE

Drug Shortages: Economic Explanation of Manufacturing Failure and Buying Monopolies
Margaret Dempsey Clapp, RPH, MS, MDiv
Signature-Healthcare
Brockton, Massachusetts, USA

Moderator: Michael Rie

LEARNING OBJECTIVES
• Describe hospital pharmacy purchasing methods before the Medicare/Medicaid laws of 1965
• Discuss how federal regulations prohibit hospitals from buying directly in the marketplace
• Review the rise of distributors as industrial supply chain methods arrive in the 1970s

9:00 A.M. - 10:00 A.M. EXHIBIT HALL

Break

9:00 A.M. - 2:00 P.M. EXHIBIT HALL

Exhibit Hall/Posters Open

10:00 A.M. - 11:00 A.M. ROOM 106

Surfactant Therapy in Acute Lung Injury: A Role Revisited
Moderator: Brian R. Jacobs

LEARNING OBJECTIVES
• Summarize the role of surfactant in acute lung injury (ALI)
• Identify the limitations of surfactant therapy in pediatric ALI

> The Role of Surfactant in ALI
Douglas F. Wilson
> Surfactant Use Is Limited in Pediatric ALI
Brian R. Jacobs

10:00 A.M. - 12:00 P.M. ROOM 101

BREAKFAST SESSION

10:00 A.M. - 12:00 P.M. ROOM 301BC

How to Create a High-Functioning ICU
Moderators: Ruth M. Kleinpell, Jonathan E. Sevransky

LEARNING OBJECTIVES
• Describe effective strategies for care coordination between the emergency room and ICU
• Understand the impact of different staffing models on patient outcomes
• Describe ways to translate effective treatments into routine practice

> Emergency Room to ICU Integration
Stephen Trzeciak
> ICU Volume Is the Key
Jeremy M. Kahn
> Effect of Advanced Practice Providers
Ruth M. Kleinpell
> Nurse-to-Patient Ratios Are Essential
Daleen Aragon Penoyer
> We Know What to Do, We Just Don’t Do It: A Role for Implementation Science
David J. Murphy
> We Know Little About How to Create a High-Functioning ICU
Jonathan E. Sevransky
10:00 A.M. - 12:00 P.M. 
ROOM 221

ICU Research Success Road Map
Moderator: Jose Pascual

LEARNING OBJECTIVES
• Provide junior investigators with insight into the components necessary to build and sustain a program of research
• Identify mechanisms to approach and sustain funding
• Outline the process of receiving and giving research mentorship
  > Developing a Research Question
    Leif Saager
  > Writing a Compelling Proposal That Sells
    Robert D. Stevens
  > Finding a Funding Source
    Marilyn Hravnak
  > Building and Sustaining a Research Team
    J. Perren Cobb
  > Seeking and Providing Research Mentorship
    Clifford S. Deutschman

10:00 A.M. - 12:00 P.M. 
ROOM 102

* MAINTENANCE OF CERTIFICATION

Newer Modes of Mechanical Ventilation = Better Outcomes?
Moderator: Richard D. Branson

LEARNING OBJECTIVES
• Discuss newer modes of mechanical ventilation
• Apply modes to specific patient circumstances
• Describe the advantages and disadvantages of each mode
• Review the evidence for each mode
• Recognize and interpret common ventilator waveforms
  > Dual Modes of Mechanical Ventilation: What’s in a Name?
    Rahul Nanchal
  > Proportional Assist Ventilation
    Dean R. Hess
  > Closed Loop Control for Mechanical Ventilation
    Richard D. Branson
  > Neurally Adjusted Ventilatory Assist: Let the Brain Drive Ventilation
    Richard D. Branson

10:00 A.M. - 12:00 P.M. 
NORTH BALLROOM

Resilience, Frailty and Recovery from Critical Illness
Moderator: Mark E. Mikkelsen

LEARNING OBJECTIVES
• Identify paradigms of reserve, resilience and frailty as they apply to critically ill patients
• Discuss recovery trajectories following sepsis, acute respiratory distress syndrome (ARDS), and traumatic brain injury
• Review therapeutic strategies to decrease long-term morbidity and mortality following critical illness
  > The Cognitive and Functional Burden of Sepsis in an Aging Population
    Hallie Prescott

Resilience, Frailty and Recovery..., Continued

> Quantitative Markers of Frailty in Elderly ICU Survivors
  Matthew R. Baldwin
> Multimodal Rehabilitation in Elderly Critical Illness Survivors
  Heidi J. Engel
> Recovery of Physical Function in Survivors of ARDS
  Peter E. Morris
> Cognitive and Behavioral Outcomes Following Traumatic Brain Injury
  Paul M. Vespa

10:00 A.M. - 12:00 P.M. 
ROOM 105

Short or Tall, Broad or Narrow?
Balancing Appropriate Sepsis Coverage with Immunologic Function
Moderator: Basilia Zingarelli

LEARNING OBJECTIVES
• Recognize the risks of wanton antibiotic therapy
• Develop a new model of immunocompetence
• Reconcile patient immune function with antimicrobial therapy
  > Antibiotics in Sepsis: The Good, The Bad, and What Might Be Really Bad
    Tyree H. Kiser
  > Are You Immunocompetent? Assessing Your Patient’s Immune System
    Steven M. Opal
  > Reconciling Immune Status and Antibiotics: Making Practical Choices in the Critically Ill
    Keith M. Olsen
  > Dysregulation of the Immune System in Sepsis
    Lyle Moldawer

10:00 A.M. - 12:00 P.M. 
ROOM 301A

* MAINTENANCE OF CERTIFICATION

The Brain During Sepsis
Moderator: Robert D. Stevens

LEARNING OBJECTIVES
• Discuss epidemiology and outcomes of brain dysfunction
• Review biologic mechanisms and physiologic correlates of cerebral dysfunction
• Identify preventive and therapeutic strategies to mitigate brain dysfunction
  > Epidemiology of Septic Encephalopathy
    Mark Wainwright
  > Systemic Triggers of Immunologic Signaling in the Brain
    Djillali Annane
  > Bioenergetics, Mitochondrial Dysfunction and Oxidative Stress in Septic Encephalopathy
    Elliott D. Crouser
  > Seizures, Stroke, White Matter Dysfunction During Sepsis: Acute and Long-Term Effects on Cognition
    Fred Rincon
  > Septic Encephalopathy: Preventive and Therapeutic Interventions
    Robert D. Stevens

Continued ➔
**The Weaponization of Medical Infrastructure: Hidden Agendas in Performance Improvement**

**Moderator: Mark Nunnally**

**LEARNING OBJECTIVES**
- Explain the meaning and consequences of social constructions in complex systems
- Discuss how social constructions change and control medical care
- Review the social potential of several common practice improvement processes

> The Root Cause Analysis: Truth-Seeking or Just Rooting Out?
  Michael D. Howell

> Overview: The Social Construction of Medical Care
  Michael F. O’Connor

> Protocols: To Guide or To Blame?
  Brian P. Kavanagh

> Metrics: Measuring Success or Exerting Control?
  Avery Tung

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**SCCM Business Meeting**

11:00-11:30:
- SCCM Business Meeting

11:30-12:00:
- Open Forum for Q&A with the President and Council.

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**ACCM Business Meeting**

11:00 A.M. - 12:00 P.M. ROOM 106

- MAINTENANCE OF CERTIFICATION

**The Expanding Role of Quality Care in the Pediatric ICU**

**Moderator: Richard J. Brilli**

**LEARNING OBJECTIVES**
- Define the role of quality improvement within the pediatric ICU
- Review the proper metrics to utilize within a pediatric ICU
- Describe how nursing care directly affects quality improvement

> What Should Be Measured?
  Richard J. Brilli

> How Do You Drive Change to Achieve the Outcomes?
  Jana A. Stockwell

> The Nursing Role in Quality Improvement
  Mary Jo C. Grant

> Form and Function of Pediatric ICU Morbidity and Mortality
  Jayant K. Deshpande

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**ePosters**

Want to view various posters and enhanced listing information in one place? Go to our ePosters section in the Poster Hall to view information that authors have added to their original abstract.

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**Did you know?**

Using your smartphone and the Congress app, you can view the poster and any enhanced information on that research. Scan the QR code at the top of each poster board and find out more information on that poster. Download the Congress app at www.sccm.org/ccc44app.

**Professor Walk Rounds**

12:15 P.M. - 1:15 P.M. POSTER HALL

**Professor Walk Rounds**

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- Quality and Safety 5
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- Surgery/Bums/Trauma 8
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**Poster Board Retrieval**

Posters must be taken down between 1:15 P.M. and 2:00 P.M. Any posters not removed by 2:00 P.M. will be discarded. Any materials left behind will not be the responsibility of the Society of Critical Care Medicine, or GES decorating company.
Tuesday, January 20

1:30 P.M. - 2:00 P.M. ROOM 222

Abstract-Based Awards Ceremony

2:00 P.M. - 2:45 P.M. NORTH BALLROOM

• PLENARY SESSION
• AKE GRENVIK HONORARY LECTURE

Disruptive Innovation: Transforming a Team of Champions into a Championship Team... Are We Ready for Football?

Vinay M. Nadkarni, MD, FCCM
Medical Director
Center for Simulation, Advanced Education and Innovation
Children’s Hospital of Philadelphia
Philadelphia, Pennsylvania, USA

Moderator: Lauren R. Sorce

LEARNING OBJECTIVES
• Identify the characteristics of championship sports teams and how they relate to training and motivating ICU providers
• Understand how Super Bowl teams use sports science and streaming analytics to enhance team performance
• Discuss translation of effective disruptive innovations in sports training, and how this will impact healthcare in the future

2:45 P.M. - 3:15 P.M. NORTH BALLROOM FOYER

Break

3:00 P.M. - 4:30 P.M. ROOM 132

• ACCM TOWN HALL

Pro/Con Debate: Do the Benefits of a Low Hemoglobin Threshold Outweigh the Side Effects?

Moderators: Michael Murray

LEARNING OBJECTIVES
• Review the current transfusion guideline
• Discuss risk assessment for blood transfusion
• Understand the limitations in the literature relative to transfusion thresholds

> Do the Benefits of a Low Hemoglobin Threshold Outweigh the Side Effects? Pro
  Aryeh Shander

> Do the Benefits of a Low Hemoglobin Threshold Outweigh the Side Effects? Con
  Shelly D. Timmons

3:15 P.M. - 4:15 P.M. ROOM 301BC

Administrative Aspects of ICU Leadership

Moderator: Wendy Ricketts Greene

LEARNING OBJECTIVES
• Identify the major administrative challenges in the ICU: burnout, alarm fatigue, reporting overload
• Recognize the barriers and opportunities in the implementation of new guidelines at your institution
• Review the best approach toward promoting a culture of safety and an environment where never events are able to be shared

> What to Do When Your Staff Is Ready to Revolt: Another Useless Report!
  Michele C. Balas

> How to Get the Team to Implement a New Guideline: All Aboard
  Gloria M. Rodriguez-Vega

> How to Address the Loop Closure and Promote a Culture of Safety: Horton Do You Hear the Who?
  Wendy Ricketts Greene

3:15 P.M. - 4:15 P.M. ROOM 102

• MAINTENANCE OF CERTIFICATION

Drug Dosing in Challenging ICU Populations

Moderator: Michael L. Bentley

LEARNING OBJECTIVES
• Develop a strategy for addressing medication doses for the geriatric patient
• Formulate a dosing strategy for the patient with morbid obesity
• Propose a dosing strategy for the patient with acute kidney injury on continuous renal replacement therapy (CRRT) or sustained low-efficiency dialysis (SLED)

> The Geriatric Patient
  Brad E. Cooper

> The Morbidly Obese Patient
  Jeffrey Barletta

> Acute Kidney Injury, CRRT and SLED
  Michael L. Bentley

TUESDAY, JANUARY 20
3:15 P.M. - 4:15 P.M.  ROOM 101

**Drug-Induced Gastrointestinal Disease**

**Moderator: John Papadopoulos**

**LEARNING OBJECTIVES**
- Review the pharmacologic agents that can cause diarrhea
- Describe the pharmacologic agents that can induce constipation and decreased gastrointestinal motility
- Outline the common etiologies and mechanisms of drug-induced hepatotoxicity
  
- **Drug-Induced Diarrhea**
  - Diana Esaian
- **Drug-Induced Constipation**
  - Pamela L. Smithburger
- **Drug-Induced Hepatotoxicity**
  - Ram Subramanian

3:15 P.M. - 4:15 P.M.  ROOM 301A

**Spin Doctors, Who to Believe: Dissecting the Decision to Initiate Dialysis in the ICU**

**Moderator: John A. Kellum**

**LEARNING OBJECTIVES**
- Update the risks and benefits of early implementation of hemodialysis
- Interpret available data about delaying hemodialysis
- Integrate current knowledge into care plans for patients with renal failure

  
- **Wait and See**
  - Raghavan Murugan
- **Spin Them Now, Before It’s Too Late**
  - Noel Gibney
- **Case Study and Panel Discussion**
  - John A. Kellum

3:15 P.M. - 4:15 P.M.  ROOM 105

**Hot Topics and Late-Breaking Science I - Journal Article Review**

**Moderator: TBD**

**LEARNING OBJECTIVE**
- Discuss the latest journal article findings

3:15 P.M. - 4:15 P.M.  NORTH BALLROOM

**Moving from Gridiron to Gurney... Are We Ready for Football?**

**Moderator: Vinay M. Nadkarni**

**LEARNING OBJECTIVES**
- Provide examples of sports team-building techniques that relate to ICU provider teams
- Review the impact of data analysis and data display on team training and performance
- Describe how NFL coaches use instant replay and focused video review to enhance individual and team performance

  
- Panel Discussion

3:15 P.M. - 4:15 P.M.  ROOM 221

**Pro/Con Debate: Family Participation in the ICU**

**Moderator: Dan Thompson**

**LEARNING OBJECTIVES**
- Discuss the advantages and disadvantages of unlimited family presence
- Explore whether family participation should be totally or partially restricted
- Review the impact of unrestricted visitation

  
- **Family Participation: Pro**
  - Kelly N. Michelson
- **Family Participation: Con**
  - J. Randall Curtis
- **Rebuttal and Questions**
  - Kelly N. Michelson, J. Randall Curtis

3:15 P.M. - 4:15 P.M.  ROOM 301D

**Year in Review: Internal Medicine**

**Moderator: Laura Evans**

**LEARNING OBJECTIVES**
- Review the past year's internal medicine studies relevant to critical care
- Apply information gained from this review to practice
- Evaluate the internal medicine literature using an evidence-based approach

  
- **Literature Review**
  - Jonathan E. Sevransky
- **Literature Review**
  - Melissa A. Miller

3:15 P.M. - 4:15 P.M.  ROOM 106

**Year in Review: Pediatrics**

**Moderator: Derek Wheeler**

**LEARNING OBJECTIVES**
- Discuss published studies in basic science
- Review published studies in clinical and translational science
- Evaluate published studies in quality improvement, patient safety and education

  
- **Basic Science and Translational Research Updates**
  - Timothy Cornell
- **Clinical Research Updates**
  - Michael S.D. Agus
- **Quality Improvement and Patient Safety Updates**
  - Daniela H. Davis
4:30 P.M. - 5:30 P.M.  ROOM 105

**Hot Topics and Late-Breaking Science II: Ebola: Patient, Family and Healthcare Provider Perspectives**

*J. Christopher Farmer, Craig M. Coopersmith*

**LEARNING OBJECTIVES**
- Discuss the impact of isolation on the patient and family experience
- Evaluate strategies for healthcare providers
- Apply the lessons learned to practice

> Panel Discussion
  Mitchell M. Levy, TBD, Jonathan E. Sevransky, Laura E. Evans

4:30 P.M. - 5:30 P.M.  ROOM 101

**Hot Topics in Nutrition**
Supported, in part, by an educational grant from Abbott Nutrition, Inc.

* Moderator: Dan Thompson*

**LEARNING OBJECTIVES**
- Identify malnutrition in the critical care patient
- Describe a nutritional assessment approach in the maintenance of the critical care patient
- Discuss the importance of optimizing the patient’s nutritional needs

> Is Timing Essential for Nutrition Initiation in the ICU?
  Todd Rice

> Is a Hypocaloric Feeding Strategy Adequate for a Critically Ill Patient?
  Jill R. Cherry-Bukowiec

> What Is the Value of Using “Trophic Feeds” in a Critically Ill Patient?
  John Papadopoulos

4:30 P.M. - 5:30 P.M.  ROOM 102

**How to Mend a Broken Heart: Bringing the Heart Failure Patient Through the ICU Experience**

* Moderator: Barbara McLean*

**LEARNING OBJECTIVES**
- Outline the changing goals over time for patients in heart failure
- Formulate strategies for transition of heart failure patients through the ICU experience

> Heartbreak: Managing Acute Decompensated Heart Failure
  Srinivas Murali

> Sickness and Heart Failure: The Interaction of Heart Failure with Acute Illness
  Peter McCullough

> Patient and Family Resiliency in Heart Failure
  Barbara McLean
### 4:30 P.M. - 5:30 P.M.  |  ROOM 301BC
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**Medication Management in the Neuroscience ICU**  
**Moderator:** Gloria M. Rodriguez-Vega

**LEARNING OBJECTIVES**
- Review the protocols and guidelines for reversal of antithrombotics
- Discuss indications and optimum time to restart anticoagulation in neurological patients
- Evaluate seizure prophylaxis
  > Seizure Prophylaxis: Still Necessary?  
    Amber Castle
  > Coagulation Reversal in Neurological Patients  
    John J. Lewin III
  > Optimum Time to Restart Anticoagulation in Neurological Patients  
    Gloria M. Rodriguez-Vega

### 4:30 P.M. - 5:30 P.M.  |  ROOM 301D
---
**Year in Review: Neuroscience**  
**Moderator:** Paul Alan Nyquist

**LEARNING OBJECTIVES**
- List conclusions of key clinically relevant scientific articles in neurocritical care
- Recall recent changes to key neuroscience guidelines for the ICU
- Identify conclusions from selected scientific articles within neurocritical care
  > Clinical Updates  
    Joao A. Gomes
  > Updates in Guidelines and Key Scientific Articles  
    Paul Alan Nyquist

### 4:30 P.M. - 5:30 P.M.  |  ROOM 106
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**Working with the Institutional Review Board: Controversies in Pediatric Clinical Research**  
**Moderator:** Douglas Willson

**LEARNING OBJECTIVES**
- Explore issues particular to the conduct of clinical research with pediatric subjects
- Discuss commonly encountered difficulties with institutional review boards (IRB)
- Identify ideal approaches to the regulation of research in children
  > IRB Controversies  
    Richard J. Brilli
  > Responsibilities of Investigators  
    Martha A.Q. Curley
  > Consent and Assent Issues  
    George E. Hardart

### 4:30 P.M. - 5:30 P.M.  |  ROOM 221
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**Year in Review: Nursing**  
**Moderator:** Lisa Kohr

**LEARNING OBJECTIVES**
- Review the year’s critical care studies relevant to both adult and pediatric nursing
- Evaluate the literature using an evidence-based approach
- Utilize information gained from this session to guide clinical nursing practice
  > Adult Critical Care Nursing  
    Mary E. Lough
  > Pediatric Critical Care Nursing  
    Lisa Kohr

### 5:30 P.M. - 7:00 P.M.  |  SHERATON PHOENIX HOTEL: PHOENIX BALLROOM
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**Critical Care Ultrasound Open House**
**Critical Care Ultrasound - Pediatric - Day 1**
(see page 93 for Day 2)

**LEARNING OBJECTIVES**
- Demonstrate a foundation of ultrasound knowledge
- Practice acquisition of high-quality images via hands-on exercises
- Demonstrate image interpretation and utilization of ultrasound as a diagnostic tool

**LECTURES**

- Knobology, Physics and Artifacts
- The Cardiac Exam
- Volume Assessment
- Vascular Access: Pearls and Pitfalls
- The Thoracic Exam
- The Abdominal Exam

**SKILL STATIONS**

- Pediatric Knobology
- Vascular Anatomy/Procedures
- Subcostal Views
- Apical Views
- Parasternal Views
- Volume Assessment

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**Critical Care Ultrasound - Day 1**
(see page 93 for Day 2)

**LEARNING OBJECTIVES**
- Demonstrate a foundation of ultrasound knowledge
- Practice acquisition of high-quality images via hands-on exercises
- Demonstrate image interpretation and utilization of ultrasound as a diagnostic tool

**LECTURES**

- Basic Physics and Knobology
- Basic Windows and Views
- Basic Evaluation of Left Ventricular (LV) Function and Cardiac Output
- Evaluation of Pneumothorax, Pleural Effusions and Thoracentesis
- Vascular Ultrasound

**SKILL STATIONS**

- Apical Views
- Parasternal Views
- Subcostal Views
- Lung: Pleural Effusions; Thoracentesis
- Vascular Ultrasound
- LV Function

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**The Transplant Experience: From the Professional and Personal Perspective**

**David A. Laskow, MD, FACS**
Associate Professor of Surgery
Robert Wood Johnson Medical Center
New Brunswick, New Jersey, USA

**Moderator: Maureen Madden**

**LEARNING OBJECTIVE**
- Explore personal perspective and experience of an individual who was the chief of transplant services, was a recipient of a cardiac transplant, and then resumed the leadership of the transplant service

**Break**

**Autoimmune Diseases in the Pediatric ICU**

**Moderator: Maureen Madden**

**LEARNING OBJECTIVES**
- Examine the pathophysiology of autoimmune diseases
- Outline the concept of metabolic encephalitis
- Review current treatment strategies

- Autoimmune Vasculitis
  - Andrew W. Kiragu

- Metabolic Encephalitis
  - Mark Wainwright

- Anti-NMDA Receptor Antibody Encephalitis
  - Rick E. Harrison
From Sea to Space: Pulmonary Physiology Adaptation
Moderator: Jorge L. Hidalgo

LEARNING OBJECTIVES
- Review the adaptation of the lungs in different environments
- Discuss clinical scenarios
  > Physiology of Diving
    Jorge L. Hidalgo
  > Physiology of Altitude Medicine
    Erik R. Swenson
  > Physiology of Space Medicine
    George Beck

Is Repair After Acute Kidney Injury Linked to Long-Term Outcomes?
Supported, in part, by an educational grant from Astute Medical, Inc.
Moderator: Azra Bihorac

LEARNING OBJECTIVES
- Review epidemiology, risk for chronic kidney disease and adverse long-term outcomes
- Discuss mechanisms of organ interaction and repair in acute kidney injury (AKI)
- Outline new biomarkers in assessment of injury, recovery and treatment response
  > New Urinary Biomarkers: Outline Trajectories of AKI
    John A. Kellum
  > Kidney Alters Angiogenic Balance and Organ Repair in Sepsis and Critical Illness
    Azra Bihorac
  > Crosstalk Between the Kidney and Distant Organs
    Kai Singbartl
  > Do We Need a New Approach to Stratify Risk and Treat Patients with AKI?
    Raghavan Murugan
  > Long-Term Outcomes and Risk for Chronic Kidney Disease After AKI
    Kianoush Banaei-Kashani

Geriatrics in the ICU: Old, New, Black and Blue
Moderator: Christine C. Toevs

LEARNING OBJECTIVES
- Explore current issues and management strategies for the elderly
- Discuss the impact of polypharmacy in the elderly
- Review strategies for incorporating palliative care
  > The Injured Elder
    Gary T. Marshall
  > Polypharmacy in the Geriatric ICU Patient
    Pamela L. Smithburger
  > Surgery in the Elderly: Not for the Faint of Heart
    Lewis J. Kaplan
  > Palliative Care: At the Far Edge of Life
    Christine C. Toevs

Risk Stratification in Septic Shock
Moderator: Derek Wheeler

LEARNING OBJECTIVES
- Discuss the evolving role of genetics in septic shock outcomes
- Examine immunoparalysis and its impact on the clinical course of sepsis
- Review how various biomarkers have impacted sepsis
- Describe how future clinical trials in sepsis should involve risk stratification
  > The Genomics of Septic Shock
    Keith R. Walley
  > Immune Dysfunction in Septic Shock as a Marker of Outcome
    Mark W. Hall
  > Biomarkers in Septic Shock
    Rajesh K. Anajj
  > Stratification with Clinical Markers
    Rahul Nanchal
  > Clinical Risk Stratification from a Trial Design Perspective
    Christa A. Schorr
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<td><strong>9:30 A.M. - 11:30 A.M.</strong></td>
<td><strong>ROOM 221</strong></td>
<td><strong>Running the Perfect Code: The Rashomon Effect</strong></td>
<td>Cherylee Chang</td>
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<td><strong>LEARNING OBJECTIVES</strong></td>
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<td>• Examine barriers to effective communication in stressful situations</td>
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<td>• Identify personal challenges to productive and skillful communication</td>
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<td>• Describe strategies to facilitate collaborative and constructive communication</td>
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<td>&gt; What Did You Hear? That's Not What I Said</td>
<td>Art Haines</td>
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<td>&gt; Critical Communication: High Stress, High Stakes</td>
<td>Patricia J. Posa</td>
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<td>&gt; Case Scenarios: How It Was Done and How It Could Be Done Better</td>
<td>Vinay M. Nadkarni</td>
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<td><strong>9:30 A.M. - 11:30 A.M.</strong></td>
<td><strong>NORTH BALLROOM</strong></td>
<td><strong>The Ethics Committee and the Palliative Care Team: Not the Same</strong></td>
<td>J. Randall Curtis</td>
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<td><strong>LEARNING OBJECTIVES</strong></td>
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<td>• Review how to create a palliative care team</td>
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<td>• Evaluate metrics used to enhance end-of-life care</td>
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<td>• Discuss lower costs by improving the quality of end-of-life care</td>
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<td>&gt; Creating a Palliative Care Team and Approach</td>
<td>Judith E. Nelson</td>
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<td>&gt; Lowering Costs by Improving End-of-Life Care</td>
<td>David M. Steinhorn</td>
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<td>&gt; Quality Metrics in End-of-Life Care</td>
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<td>&gt; The ICU Nurse as Intermediary Between Primary and Consultative Palliative Care</td>
<td>Kathleen A. Puntillo</td>
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<td>&gt; Triggers for Mandatory Palliative Consultation</td>
<td>Connie A. Jastremski</td>
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<td><strong>9:30 A.M. - 11:30 A.M.</strong></td>
<td><strong>ROOM 101</strong></td>
<td><strong>Why Is My Platelet Count Dropping? Evaluation of the Patient with Thrombocytopenia</strong></td>
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<td><strong>LEARNING OBJECTIVES</strong></td>
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<td>• Describe the relationship between common assays for heparin-induced thrombocytopenia (HIT) and the clinical syndrome</td>
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<td>• Critique strategies for managing HIT</td>
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<td>• Examine the role of heparin avoidance in curtailing the incidence of HIT</td>
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<td>&gt; Thrombocytopenia: An Overview</td>
<td>TBD</td>
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<td>&gt; HIT in the Grey Zone: How to Manage the Patient with an Uncertain Diagnosis</td>
<td>William E. Dager</td>
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<td>&gt; Should We Ditch the Heparin? Decreasing Risk with Exposure</td>
<td>TBD</td>
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<td><strong>10:30 A.M. - 11:30 A.M.</strong></td>
<td><strong>ROOM 106</strong></td>
<td><strong>Infections in the ICU: What Is Old Is New Again</strong></td>
<td>Mark E. Rowin</td>
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<td><strong>LEARNING OBJECTIVES</strong></td>
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<td>• Review the increasing role of pertussis in the ICU</td>
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<td>• Describe the role of varicella in the critical care patient</td>
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<td>• Evaluate rhinovirus respiratory illness</td>
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<td>&gt; Pertussis</td>
<td>Rick E. Harrison</td>
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<td>&gt; Enterovirus D68</td>
<td>Mark E. Rowin</td>
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<td>&gt; Rhinovirus</td>
<td>Karen E. Reuter-Rice</td>
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<td><strong>10:30 A.M. - 11:30 A.M.</strong></td>
<td><strong>ROOM 105</strong></td>
<td><strong>Mobilization in the ICU: Practice Makes Perfect</strong></td>
<td>Chris Winkelman</td>
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<td><strong>LEARNING OBJECTIVES</strong></td>
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<td>• Describe how to build capacity for early and progressive mobility</td>
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<td>• Review strategies that sustain best practices in mobility therapy</td>
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<td>• Define team members’ roles in implementation and outcomes</td>
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<td>• Discuss financial implications of a mobility program</td>
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<td>&gt; How to Build Capacity and Sustain Mobility Goals</td>
<td>Chris Winkelman</td>
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<td>&gt; Make It Perfect</td>
<td>Heidi J. Engel</td>
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<td>&gt; Using Costs and Revenue to Convince Your Administrator</td>
<td>Peter E. Morris</td>
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### Thursday, January 22, 2015

#### 7:00 A.M. - 5:00 P.M.  
**Sheraton Phoenix Hotel: Phoenix Ballroom AB**  

**Post-Convention Educational Session**  
**Critical Care Ultrasound - Pediatric - Day 2**  
(see page 90 for Day 1)

**Learning Objectives**
- Demonstrate a foundation of ultrasound knowledge
- Practice acquisition of high-quality images via hands-on exercises
- Demonstrate image interpretation and utilization of ultrasound as a diagnostic tool

**Lectures**
- Left Ventricular Function
- Right Ventricular Function
- Approach to Shock and Tamponade
- Bedside Ultrasound: Moving Forward
- Implementing Bedside Ultrasound in Practice

**Skill Stations**
- Lung
- Abdomen
- Ask an Expert
- Putting it Together: Shock
- Putting it Together: Abdomen and Thorax
- Ask an Expert

---

#### 7:30 A.M. - 5:30 P.M.  
**Sheraton Phoenix Hotel: Phoenix Ballroom C**  

**Post-Convention Educational Session**  
**Critical Care Ultrasound - Day 2**  
(see page 90 for Day 1)

**Learning Objectives**
- Demonstrate a foundation of ultrasound knowledge
- Practice acquisition of high-quality images via hands-on exercises
- Demonstrate image interpretation and utilization of ultrasound as a diagnostic tool

**Lectures**
- Focused Assessment with Sonography in Trauma (FAST) Exam
- Basic Evaluation of Right Ventricular Function
- Pulmonary Embolism: Diagnosis and Physiology
- Intravascular Volume Assessment
- Tamponade: Diagnosis and Physiology
- Echocardiographic Approach to Shock

**Skill Stations**
- FAST Exam
- Cardiac Output
- Volume Assessment
- Tamponade Evaluation
- Focused Assessed Transthoracic Echocardiography (FATE) Exam
- Ask the Expert
Looking for Self-Directed Training?
Use these self-directed courses to prepare for the live course, reinforce learning initiatives or if you are unable to leave your workplace for training. Nurses and physicians can earn 8.5 CME/CE credits. These courses are not pediatric-specific.

**Self-Directed Critical Care Ultrasound**
Experience the same didactic sessions from the live version of the Critical Care Ultrasound course at your own pace and assess your knowledge through the use of pre- and post-tests. Four modules with synchronized speaker audio are included.

**Self-Directed Critical Care Ultrasound with Simulation**
Benefit from all of the features provided with the Self-Directed Critical Care Ultrasound course, plus enhance your experience with a hand-held simulation sensor. Case-based simulations allow you to practice the techniques presented in the didactic lectures.

---

**Attend the Live Course**
August 16–17, 2015
Fairmont Chicago, Millennium Park
Chicago, Illinois, USA

Gain the training needed to perform and interpret ultrasound imaging at the Society of Critical Care Medicine’s (SCCM) two-day comprehensive Critical Care Ultrasound - Pediatric course.

Space for this course is limited. Register today at www.sccm.org/ultrasound to guarantee your seat!

**Improve Patient Outcomes with the Power of Visual Medicine**

Benefit from didactic presentations and lectures covering topics such as:
- Vascular Procedures and Vascular Anatomy
- Pediatric Shock
- Pediatric Knobology, Physics and Artifacts
- Transthoracic Views and Pediatric Rapid Response
- Evaluation of Pneumothorax, Pleural Effusions and the Diaphragm
- Intravascular Volume Assessment
- Pediatric Echocardiographic Approach to Shock and Tamponade Physiology
- Evaluation of RV Failure
- Unexpected Congenital Heart Disease

Visit www.sccm.org/ultrasound for more information.
SCCM Honors the 2015 Award and Grant Recipients

The Society of Critical Care Medicine’s (SCCM) Award and Grant Program was established in 1983 to promote excellence in critical care teaching and research for the improved care of the critically ill and injured. This year, approximately $90,000 will be awarded to critical care and healthcare professionals who have demonstrated dedication and innovation in the field of critical care.

All awards will be presented in conjunction with SCCM’s 44th Critical Care Congress in Phoenix, Arizona, USA. The 2015 non-abstract-based awards will be presented during the American College of Critical Care Medicine (ACCM) Convocation/SCCM Awards Ceremony on Monday, January 19, 2015, from 6:00 p.m. to 8:00 p.m. in Phoenix Ballroom C of the Sheraton Phoenix Downtown Hotel. The abstract-based awards will be presented on Tuesday, January 20, 2015, from 1:30 p.m. to 2:00 p.m. in Room 222 of the Phoenix Convention Center.

Award and grant recipients receive financial rewards, prestige and recognition within the field of critical care. Congratulations to the following award and grant recipients!

<table>
<thead>
<tr>
<th>Award Recipients</th>
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<tr>
<td><strong>ASMUND S. LAERDAL MEMORIAL LECTURE AWARD</strong></td>
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| Sponsor: The Laerdal Foundation for Acute Medicine  
Lance B. Becker, MD |
| **BARRY A. SHAPIRO MEMORIAL AWARD FOR EXCELLENCE IN CRITICAL CARE MANAGEMENT** |
| Sponsor: Generous Donors to the Barry A. Shapiro Memorial Award Fund  
Richard J. Brilli, MD, FAAP, FCCM |
| **CHAPTERS ALLIANCE EXCELLENCE AWARD** |
| Sponsor: The Chapters Alliance  
The Texas Chapter |
| **DHARMAPURI VIDYASAGAR AWARD FOR EXCELLENCE IN PEDIATRIC CRITICAL CARE MEDICINE** |
| Sponsor: Dharmapuri Vidyasagar, MD, Nagamani Beligere  
Dharmapuri, MD, and the Society of Critical Care Medicine  
Patrick M. Kochanek, MD, MCCM |
| **DISTINGUISHED INVESTIGATOR AWARD** |
| Sponsor: American College of Critical Care Medicine  
Frederick A. Moore, MD, MCCM |
| **DISTINGUISHED SERVICE AWARDS** |
| Sponsor: Society of Critical Care Medicine  
Sandralee A. Blosser, MD, FCCM  
George A. Sample, MD  
Carol L. Thompson, PhD, CCRN, ACNP, FCCM |
| **DR. JOSEPH AND RAE BROWN AWARD** |
| Sponsor: The Pennsylvania Chapter of the Society of Critical Care Medicine  
Janice L. Zimmerman, MD, FCCM |
| **FAMILY-CENTERED CARE INNOVATION AWARD** |
| Sponsor: Society of Critical Care Medicine  
University of Washington Medical Center  
Critical Care Units  
Seattle, Washington, USA |
| **GRENVIK FAMILY AWARD FOR ETHICS** |
| Sponsor: Grenvik Family Memorial Fund  
Jeffrey P. Burns, MD, MPH |
| **ICU DESIGN CITATION** |
| Sponsors: Society of Critical Care Medicine, American Association of Critical-Care Nurses, American Institute of Architects Academy on Architecture for Health  
Our Lady of the Lake Regional Medical Center  
Heart and Vascular Institute  
Baton Rouge, Louisiana, USA |
| **ICU HEROES AWARD** |
| Sponsor: Society of Critical Care Medicine  
Dayton Children’s Hospital  
The Wallace Critical Care Complex  
Dayton, Ohio, USA |
| **LIFETIME ACHIEVEMENT AWARD** |
| Sponsor: Society of Critical Care Medicine  
R. Phillip Dellinger, MD, MSc, MCCM |
| **NORMA J. SHOEMAKER AWARD FOR CRITICAL CARE NURSING EXCELLENCE** |
| Sponsor: Society of Critical Care Medicine  
Judy E. Davidson, DNP, RN, FCCM |
| **SHUBIN-WEIL MASTER CLINICIANS/TEACHER: EXCELLENCE IN BEDSIDE TEACHING AWARD** |
| Sponsor: The Weil Family Foundation  
David G. Nichols, MD, FCCM |
2015 Presidential Citation Award Recipients

Sponsor: Society of Critical Care Medicine

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Nancy Albert, PhD, CCRN, MSN, FCCM
Earnest Alexander, PharmD, FCCM
Sheila A. Alexander, PhD, RN, BSN
Abbas Ali, MD
John M. Allen, PharmD, BCPS
E. Amundson, DO, FCCM
Diana C. Anderson, MD
Rajesh Aneja, MD
Richard B. Arbour, RN
Grace M. Arteaga, MD
Laura Akyrold, PharmD, BCPS
Jeffrey Barletta, PharmD, FCCM
Seth R. Bauer, PharmD
Utpal S. Bhalaia, MD
Katherine V. Biagas, MD, FCCM
Edward A. Bittner, MD, PhD, FCCM
Kent D. Blad, DNP, ACNP-BC, FCCM
Scott Boletta, PharmD, BCPS, FCCM
Meredith F. Bone, MD
Benjamin Brainard, VMD
Richard D. Branson, MS, RRT, FCCM
Gretchen M. Brophy, PharmD, BCPS, FCCM
Daniel R. Brown, MD, PhD, FCCM
William T. Browne, MD, Fccm
Dennis T. Crowe, DVM, DACVS, FCCM
Gail Cresci, PhD, RD, LD
Dennis T. Crowe, DVM, DACVS, FCCM
Mitch J. Daley, PharmD
Heidi F. DeBlock, MD, FCCM
Mari Sol De Leon, BSN
John W. Devlin, PharmD, FCCM
Jose J. Diaz, MD, FCCM
Deepali Dixit, PharmD
David J. Dries, MD, MSc, FCCM
Michael A. Dubick, PhD
Amy L. Dzierba, PharmD, BCPS, FCCM
Brian L. Erstad, PharmD, BCPS, MCCM
Laura E. Evans, MD, MS
Clarence G. Finch, MBA, RRT, FCCM
Mitchell P. Fink, MD, MCCM
Geoffrey M. Fleming, MD
Jorie Frasiolas, PharmD, BCPS
Erin N. Frazee, PharmD, RPh
Jeremy S. Garrett, MD
James A. Geiling, MD, FCCM
Gail Gesin, PharmD
Joao A. Gomes, MD
Jeffrey P. Gonzales, PharmD, BCPS
Denise M. Goodman, MD, MS, FCCM
W. Robert Grabenort, PA, MMS, FCCM
Anthony W. Gray Jr., MD
Wendy R. Greene, MD, FCCM
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Colin K. Grissom, MD, FCCM
Jorge A. Guzman, MD, FCCM
Neil A. Halpern, MCCM
Lisa M. Harinstein, PharmD, BCPS
Judith Hellman, MD
Jorge L. Hidalgo, MACP, FCCP, FCCM
Tudy M. Hodgman, PharmD, BCPS, FCCM
Marilyn Hrvanak, RN, ACNP, PhD, FCCM
Lynn Hydo, MBA, RN, FCCM
Robert C. Huyz, MD, FCCM
Judith Jacobi, PharmD, BCPS, FCCM
Edgar Jimez, MD, FCCM
Che J. Jordan, PharmD, BCPS, BCNSP
Gregory E. Kerr, MD, MBA, FCCM
Tyree H. Kiser, PharmD, BCPS, FCCM
Niranjan Kissoon, MD, FCCM
John C. Klick, MD
Alexander A. Kon, MD, FCCM
Deborah A. Kuhl, MD, FCCM
Simon W. Lam, PharmD, BCPS
Ishaq Lat, PharmD, FCCM
John J. Lewin, MBA, PharmD, FCCM
Kristine A.K. Lombardozzi, MD, FCCM
Maureen A. Madden, MSN, CCRN, FCCM
Addison K. May, MD, FCCM
Julie Mayglothling, MD, FCCM
Kevin W. McConnell, MD
William T. McGee, MD
Claire McManus, PharmD, BSc
Sangeeta Mehta, MD, FRCP
Romero Mejia, MD, FCCM
Mark E. Mikkelsen, MD, MSCE
Kathryn M. Moore, DNP, CCRN, FCCM
Diana Wells Mulherin, PharmD, BCPS
Raghavan Murugan, MD, MS, FRCP
Mohan R. Mysore, MD, FCCM
Thomas A. Nakagawa, MD, FCCM
Steven H. Nakajima, PharmD
Rahul Nanchal, MD
Joseph L. Nates, MD, MBA-HCA, FCCM
Trung C. Nguyen, MD
Sean A. Nix, DO
Mark Edwin Nunally, MD, FCCM
Terrence O'Keefe, MB, ChB, BSc, FRCS(Ed)
Lance Oyen, PharmD, BCPS, FCCM
John Papadopoulos, PharmD, FCCM
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Kristine Parbuoni, PharmD, BCPS
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Parthak Prothman, MD
Jose Javier Provencio, MD, FCCM
April Miller Quidley, PharmD, BCPS, FCCM
Mary J. Reed, MD, FCCM
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Carley Riley, MD, MPP
Fred Rincon, MD, MS, FCCM
Terese A. Rincon, BSN, CCRN-E
Russ J. Roberts, PharmD
Sophia C. Rodgers, ACNP, FCCM
Gloria M. Rodriguez-Vega, MD, FCCM
Tuhin K. Roy, MD, PhD
Karen Sands, MSN, APRN-BC
Babak Sarani, MD, FCCM
Richard H. Savel, MD, FCCM
Jonathan E. Sevansky, MD, FCCM
Aryeh Shander, MD, FCCM
Corinna Sicoutris, ACNP, FCCM
Eric Siegal, MD
Elizabeth A. Sinclair, PharmD, BCPS
Lauren R. Sorce, ACNP, CCRN, FCCM
Antoinette Spevetz, MD, FCCM
Arthur C. St. Andre, MD, FCCM
John K. Stine, MD, FCCM
Jana A. Stockwell, MD, FCCM
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Said Sultan, PharmD, BCPS
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Janice L. Zimmerman, MD, FCCM
Basilia Zingarelli, MD, PhD
Marc T. Zubrow, RN, MSN, CCRN
Grant Recipient

SCCM VISION GRANT
Sponsor: Society of Critical Care Medicine
Faheem W. Guirgis, MD
The Role of Dysfunctional High Density Lipoprotein in Severe Sepsis

ANESTHESIOLOGY SECTION TRAVEL GRANT
Sponsor: Anesthesiology Section of the Society of Critical Care Medicine
Roshni Sreedharan, MD
#918 Effect of Intraoperative Albumin vs HES on Renal Function After Orthotopic Liver Transplantation
Massimiliano Pirrone, MD
#679 Tailored Ventilation in Morbid Obese Patients

CLINICAL PHARMACY AND PHARMACOLOGY SECTION MEDICATION SAFETY AWARD
Sponsor: Clinical Pharmacy and Pharmacology Section of the Society of Critical Care Medicine
Pamela L. Smithburger, PharmD, MS, BCPS
#646 A Multicenter Evaluation of Off-Label Medication Use and Associated Adverse Drug Reactions in Adult Medical Intensive Care Units

CLINICAL PHARMACY AND PHARMACOLOGY SECTION TECHNOLOGY AWARD
Sponsor: Clinical Pharmacy and Pharmacology Section of the Society of Critical Care Medicine
Mitchell S. Buckley, PharmD, BCPS, FASHP, FCCM
An Evaluation of Response Rates to a Trigger Tool to Prevent Adverse Drug Events in the Intensive Care Unit and General Wards

CLINICAL PHARMACY AND PHARMACOLOGY SECTION TRAVEL GRANT
Sponsor: Clinical Pharmacy and Pharmacology Section of the Society of Critical Care Medicine
Kimberley A. Harris, PharmD, BCPS
#23 The Obesity Paradox is Not Observed in Critically Ill Patients on Early Enteral Nutrition

EMERGENCY MEDICINE SECTION TRAVEL GRANT
Sponsor: Emergency Medicine Section of the Society of Critical Care Medicine
Leon Edelman, MD
#905 Sedation and/or Analgesia Following Emergency Department Endotracheal Intubation

INTERNAL MEDICINE SECTION TRAVEL GRANT
Sponsor: Internal Medicine Section of the Society of Critical Care Medicine
Nathan E. Brummel, MD, MSCI
#358 Overlap of Cognitive, Physical and Mental Health Impairments in the Post-Intensive Care Syndrome

IN-TRAINING SECTION TRAVEL GRANT
Sponsor: In-Training Section of the Society of Critical Care Medicine
Ahmed S. Said, MD, PhD
#39 Red Blood Cell Distribution Width is Associated with Increased Mortality in Critically Ill Children

NEUROSCIENCE SECTION TRAVEL GRANT
Sponsor: Neuroscience Section of the Society of Critical Care Medicine
Emil Zeynalov, MD
#526 IV Treatment with Arginine-Vasopressin Receptor Blocker Vaprisol Reduces Ischemia-Evoked Brain Edema

NURSING SECTION TRAVEL GRANT
Sponsor: Nursing Section of the Society of Critical Care Medicine
Shalan M. Stroud, CNS
#672 Implementation of an ICU Early Mobility Program Using the CUSP Model: A Multi-Disciplinary Approach
Patricia J. Posa, BSN, MSA
#776 Compliance with Spontaneous Breathing Trial Protocol Associated with Lower VAE Rates

PEDIATRIC SECTION TRAVEL GRANT
Sponsor: Pediatric Section of the Society of Critical Care Medicine
Ahmed S. Said, MD, PhD
#39 Red Blood Cell Distribution Width is Associated with Increased Mortality in Critically Ill Children

PHYSICIAN ASSISTANTS SECTION TRAVEL GRANT
Sponsor: Physician Assistants Section of the Society of Critical Care Medicine
Joseph W. Keller, PA-C
#49 ICU Outcomes of Physician Assistants and Acute Care Nurse Practitioners Compared to Resident Teams

RESEARCH SECTION TRAVEL GRANT
Sponsor: Research Section of the Society of Critical Care Medicine
Akiva Andrew Dym, BS
#13 Teaching Situation Awareness During Cardiac Arrests and Rapid Responses - A Simulation Study

RESPIRATORY CARE SECTION TRAVEL GRANT
Sponsor: Respiratory Care Section of the Society of Critical Care Medicine
Dereddi Raja Reddy, MD
#523 Brain Death Confirmation on Extracorporeal Membrane Oxygenation (ECMO): A Novel Technique

SURGERY SECTION TRAVEL GRANTS
Sponsor: Surgery Section of the Society of Critical Care Medicine
Joshua T. Swan, PharmD, BCPS
#4 RCT of Chlorhexidine vs. Soap & Water Bathing for Prevention of Hospital-Acquired Infections in SICU
Lynn D. Munoz, MD, MS
#1028 Disparity in Trauma and Critical Care for Traumatic Brain Injury in Arizona

UNIFORMED SERVICES SECTION TRAVEL GRANT
Sponsor: Uniformed Services Section of the Society of Critical Care Medicine
Matthew Aboudara, MD
#1055 Impact of Primary Blast Lung Injury During Combat Operations in Afghanistan

INTENSIVE AND CRITICAL CARE NURSING (ICCN) AWARD
Sponsor: Intensive and Critical Care Nursing and the SCCM Nursing Section
Teresa Rincon, BSN, CCRN-E, FCCM
#970 Association of Sepsis Bundle Compliance with In-Hospital Death Controlling for Severity of Illness
2015 Abstract-Based Awards

IN-TRAINING AWARD
6 Melatonin Inhibits Hemorrhagic Shock Induced Fluid Leak and Microvascular Endothelial Derangements
   Katie Wiggins-Dohlvik MD

YOUNG INVESTIGATOR AWARD
3 Mortality Risk Factors with Carbapenem-Resistant Bacteremia: Impact of Combination Therapy
   Stephanie Bass, PharmD, BCP-S

ANNUAL SCIENTIFIC AWARDS
19 Epidemiology of Acute Kidney Injury and Fluid Overload in Critically Ill Children
   Phiyank Vignik, Vinal Modern
20 Heterogeneous Treatment Effect of Red Blood Cell Transfusion (RBCT) in the Critically Ill Patients
   Xingyang Liu, Omar Badawi, Christine Franey, Ilene Zuckermand, Craig Lilly
27 Benefits of Levetiracetam At Treatment Controlled Cortical Impact in Rats: Studies from the OBTT Consortium
   Megan Brownling, Samuel Poloyac, Edward Dixon, Phillip Empey, Travis Jackson, Jeremy Hencir, Patrick Kochanek
42 Random Forest Models Separate Vital Sign Events as Real or Artifact in Continuous Monitoring Data
   Marilyn Hravnak, Luie Chen, Artur Dubrawski, Donghan Wang, Eleizer Bose, Gilles Clermont, Michael Pinsky
48 Osteopontin Induces Neutrophil Migration in Sepsis-Induced Acute Lung Injury via ERK Activation
   Yohi Hirano, Monowar Aziz, Weng-Liang Yang, Zimin Wang, Mian Zhou, Mathendar Ochani, Adam Dongaren, Ping Wang
52 Atrial Natriuretic Peptide: An Indicator of Acute Ischemic Heart Disease
   Shalini Y. Jagtap, Craig Daniels
56 Evaluation of the Impact of Intravenous Fluids on Cardiac Index in Severe Acute Respiratory Failure
   nose to face

SPECIALTY AWARDS
ADMINISTRATION
1007 Development of Tele-IICU Multidimensional Severity Adjusted PIRO Sepsis Model
   Donna Armaignac, Carlos Valles, Julie Lamoureux, Louis Gidel, Xiaorong Mei, Emir Veledar

CARDIOVASCULAR
1 Correlation of CHADS2 with New Onset Atrial Fibrillation in Thoracic and Vascular Surgical Patients
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FCCMs are invited to nominate other FCCMs for the honor of Master of Critical Care Medicine (MCCM). MCCMs have been a Fellow for at least five years and have distinguished themselves by achieving national and international professional prominence due to personal character, leadership, eminence in clinical practice, outstanding contributions to research and education in critical care medicine, or years of exemplary service to SCCM, ACCCM, and the field of critical care at its broadest sense.

<table>
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<tr>
<td>Prasad Abraham, PharmD, BCPS, FCCM</td>
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<td>Michael S.D. Agus, MD, FCCM</td>
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<td>Alice D. Ackerman, MD, MBA, MCCM</td>
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<td>Philip S. Barie, MD, MBA, MCCM</td>
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<td>Terence O’Keeffe, MB, ChB, FRCS (Ed), MSPH, FACS, FCCM</td>
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<td>Richard S. Prager, MD, FCCP, FCCM</td>
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<td>Parthak Pradhan, MD, FCCM</td>
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<td>Jahan Porhomayan, MD, FCCM</td>
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<td>H. Neal Reynolds, MD, FCCM</td>
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<td>Kathryn E. Roberts, CCRN, CNS, MSN, FCCM</td>
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<td>Leif Saager, MD, FCCP, FCCM</td>
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<td>Maureen A. Seckel, RN, APN, MSN, ACNS-BC, CCNS, CCRN, FCCM</td>
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<td>Kai Singbartl, MD, MPH, FCCM</td>
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<td>Ruby A. Skinner, MD, FACS, FCCM</td>
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<td>David A. Turner, MD, FCCM</td>
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<td>Niranjan Kissoon, MD, MCCM</td>
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<td>Jeffery S. Vender, MD, MBA, MCCM</td>
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<td>Timothy S. Yeh, MD, MCCM</td>
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### MEETING DATE

#### THURSDAY, JANUARY 15, 2015

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<td>Executive Committee Meeting</td>
<td>12:00 PM</td>
<td>5:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
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<td>Council Meeting</td>
<td>7:30 AM</td>
<td>5:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
<td>Valley of the Sun Ballroom AB</td>
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<td>Board of Regents Meeting</td>
<td>7:00 AM</td>
<td>5:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
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<tr>
<td>Clinical Pharmacy and Pharmacology Section Strategic Planning Committee Meeting</td>
<td>8:00 AM</td>
<td>1:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
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<tr>
<td>BPS Critical Care Item Writing Workshop</td>
<td>8:00 AM</td>
<td>5:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
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<td>Council Member Orientation</td>
<td>1:00 PM</td>
<td>2:30 PM</td>
<td>Phoenix Convention Center</td>
<td>121C</td>
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<tr>
<td>Clinical Pharmacy and Pharmacology Section Pre-Congress Symposium: Phoenix Rising -- Transforming Your Practice at Any Stage</td>
<td>2:00 PM</td>
<td>4:00 PM</td>
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<tr>
<td>SOCCA Anesthesia Critical Care Medicine Fellowship Program Directors' Committee Meeting</td>
<td>2:00 PM</td>
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<td>Finance and Investment Committee</td>
<td>2:30 PM</td>
<td>3:30 PM</td>
<td>Phoenix Convention Center</td>
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<tr>
<td>SSC Guidelines Task Force Meeting</td>
<td>3:00 PM</td>
<td>5:00 PM</td>
<td>Phoenix Convention Center</td>
<td>127B</td>
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<tr>
<td>Clinical Pharmacy and Pharmacology Section New Members and First Congress Attendees Orientation</td>
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<td>Critical Care Pharmacotherapy Trials Network Meeting</td>
<td>5:00 PM</td>
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<td>Congress Program Committee Meeting</td>
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<td>Clinical Pharmacy and Pharmacology Section Reception</td>
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<tr>
<td>New Member-First Time Attendee Networking Reception</td>
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<td>ACCM Credentials Committee Meeting</td>
<td>9:30 AM</td>
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<td>Internal Medicine Section Steering Committee Meeting</td>
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<td>In-Training Section Steering Committee Meeting</td>
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<td>Texas Chapter Business Meeting</td>
<td>9:30 AM</td>
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<td>Chapters Alliance Executive Committee Business Meeting</td>
<td>9:30 AM</td>
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<td>Sepsis in Resource Limited Nations Meeting</td>
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<td>SSC Collaborative Leaders Planning Meeting</td>
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<td>Clinical Pharmacy and Pharmacology Section Recruitment Exchange Meeting</td>
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<td>ICU Liberation Conference Task Force Meeting</td>
<td>10:00 AM</td>
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<td>Osteopathic Medicine Section Business Meeting</td>
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## Business and Ancillary Meetings

### As of January 1, 2014

### Sunday, January 18, 2015, Continued

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<td>Getting Involved: Building Your CV with the Creative Community</td>
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### Monday, January 19, 2015

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<td>CCM and PCCM Combined Editorial Board Meeting</td>
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### Monday, January 19, 2015, Continued

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<td>Phoenix Convention Center</td>
<td>104A</td>
</tr>
<tr>
<td>Project Dispatch Task Force Meeting</td>
<td>2:30 PM</td>
<td>4:00 PM</td>
<td>Phoenix Convention Center</td>
<td>226C</td>
</tr>
<tr>
<td>ACCM Ethics Committee</td>
<td>3:00 PM</td>
<td>4:00 PM</td>
<td>Phoenix Convention Center</td>
<td>227B</td>
</tr>
<tr>
<td>North Central Chapter Business Meeting</td>
<td>3:00 PM</td>
<td>4:00 PM</td>
<td>Phoenix Convention Center</td>
<td>226B</td>
</tr>
<tr>
<td>SCCM/Panamerican and Iberic Federation Meeting</td>
<td>3:00 PM</td>
<td>4:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
<td>Ahwatukee A</td>
</tr>
<tr>
<td>Pediatric Board Review Item Writing Committee</td>
<td>3:30 PM</td>
<td>4:30 PM</td>
<td>Phoenix Convention Center</td>
<td>226A</td>
</tr>
<tr>
<td>Undergraduate Education Committee</td>
<td>3:30 PM</td>
<td>4:30 PM</td>
<td>Phoenix Convention Center</td>
<td>104A</td>
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<tr>
<td>Shared Decision Making/ICU Writing Group</td>
<td>4:00 PM</td>
<td>5:00 PM</td>
<td>Phoenix Convention Center</td>
<td>226B</td>
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<tr>
<td>ACCM Convocation Robing Room</td>
<td>4:00 PM</td>
<td>9:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
<td>Phoenix Ballroom DE</td>
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<td>Guideline Management Committee Meeting</td>
<td>4:30 PM</td>
<td>5:30 PM</td>
<td>Phoenix Convention Center</td>
<td>227C</td>
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<tr>
<td>Models in Critical Care Guideline Task Force Meeting</td>
<td>5:00 PM</td>
<td>6:00 PM</td>
<td>Phoenix Convention Center</td>
<td>227B</td>
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<tr>
<td>Inappropriate Interventions Writing Group</td>
<td>5:00 PM</td>
<td>6:00 PM</td>
<td>Phoenix Convention Center</td>
<td>226B</td>
</tr>
<tr>
<td>ACCM Convocation/SCCM Awards Ceremony</td>
<td>6:00 PM</td>
<td>8:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
<td>Phoenix Ballroom C</td>
</tr>
<tr>
<td>Emory Reception</td>
<td>7:45 PM</td>
<td>10:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
<td>Encanto B</td>
</tr>
<tr>
<td>Mayo Clinic Alumni SCCM Awards Ceremony</td>
<td>8:00 PM</td>
<td>10:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
<td>Deer Valley</td>
</tr>
<tr>
<td>Surgery Section Reception</td>
<td>9:00 PM</td>
<td>11:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
<td>Encanto A</td>
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### Tuesday, January 20, 2015

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<thead>
<tr>
<th>MEETING</th>
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<tr>
<td>Board of Regents Meeting</td>
<td>7:00 AM</td>
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<td>127B</td>
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<td>Sepas Conference Task Force Meeting</td>
<td>9:00 AM</td>
<td>10:00 AM</td>
<td>Phoenix Convention Center</td>
<td>127C</td>
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<td>ICU Design Award Committee Meeting</td>
<td>9:00 AM</td>
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<td>Phoenix Convention Center</td>
<td>227A</td>
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<tr>
<td>SCCM/ESICM Leadership Committee</td>
<td>9:00 AM</td>
<td>11:30 AM</td>
<td>Phoenix Convention Center</td>
<td>121C</td>
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<tr>
<td>Quality and Safety Committee Business Meeting</td>
<td>9:30 AM</td>
<td>11:30 AM</td>
<td>Phoenix Convention Center</td>
<td>223</td>
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<tr>
<td>SCCM Business Meeting</td>
<td>11:00 AM</td>
<td>12:00 PM</td>
<td>Phoenix Convention Center</td>
<td>132</td>
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<td>Critical Care Practitioners as Educators Task Force Meeting</td>
<td>11:30 AM</td>
<td>12:30 PM</td>
<td>Phoenix Convention Center</td>
<td>227A</td>
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<tr>
<td>ACCM Business Meeting</td>
<td>12:00 PM</td>
<td>12:30 PM</td>
<td>Phoenix Convention Center</td>
<td>132</td>
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<tr>
<td>Section Chairs Meeting</td>
<td>1:00 PM</td>
<td>2:00 PM</td>
<td>Phoenix Convention Center</td>
<td>128</td>
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<td>Latin American Leaders Meeting</td>
<td>2:00 PM</td>
<td>3:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
<td>Ahwatukee A</td>
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<tr>
<td>Central American and Caribbean Intensive Therapy Consortium (COCECATI) Meeting</td>
<td>3:00 PM</td>
<td>4:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
<td>Ahwatukee B</td>
</tr>
<tr>
<td>Joint Undergraduate Education Committee, Graduate and Resident Education Committee and Post-Graduate Education Committee Business Meeting</td>
<td>3:00 PM</td>
<td>4:00 PM</td>
<td>Phoenix Convention Center</td>
<td>104A</td>
</tr>
<tr>
<td>Scientific Review Committee Business Meeting</td>
<td>4:00 PM</td>
<td>5:00 PM</td>
<td>Phoenix Convention Center</td>
<td>104A</td>
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<td>Ultrasound Committee Meeting</td>
<td>4:00 PM</td>
<td>5:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
<td>Desert Sky</td>
</tr>
<tr>
<td>Ultrasound Pediatric Committee Meeting</td>
<td>5:00 PM</td>
<td>6:00 PM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
<td>Desert Sky</td>
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### Wednesday, January 21, 2015

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<tr>
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<th>FACILITY</th>
<th>ROOM</th>
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<tbody>
<tr>
<td>Council Meeting</td>
<td>7:30 AM</td>
<td>11:00 AM</td>
<td>Sheraton Phoenix Downtown Hotel</td>
<td>Valley of the Sun Ballroom AB</td>
</tr>
</tbody>
</table>
Emergency Neurological Life Support (ENLS): What to Do in the First Critical Hour of a Neurological Emergency

Saturday, January 17, 2015 • 8:00 am – 3:00 pm
Sheraton Phoenix Downtown Hotel, Phoenix, Arizona

Program Directors
Wade Smith, MD, PhD
University of California- San Francisco
Cherylee Chang, MD
The Queen’s Medical Center

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 credit and two-year ENLS Certification.

ENLS Offers:
• Advanced knowledge
• Ability to be current on advancements in treatment
• Topics that are directly relevant to neurocritical care
• Improved patient care

The Goals of ENLS Include:
• Improving the care of patients with neurological emergencies
• Providing protocols that list important steps in managing a patient with a potential neurological emergency
• Attempting to standardize emergency neurological care by consensus of healthcare providers
• Providing education to anyone dealing with neurological emergencies
• Identifying areas where research is needed to improve the care of our patients

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

Sub-Topics
Elevated ICP and Herniation
Glasgow Coma Scale (GCS)
Hunt Hess Classification of SAH
World Federation Neurological Scale

For More Information, Visit: www.neurocriticalcare.org

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

*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.*
Each year, more than 10,000 clinicians on five continents receive **Fundamental Critical Care Support (FCCS)** training, which prepares non-intensivists to manage critically ill patients for the first 24 hours until transfer or appropriate critical care consultation can be arranged.

The fifth edition curriculum emphasizes care-based education, with scenarios that mirror clinical reality.

**Pediatric Fundamental Critical Care Support (PFCCS)** focuses exclusively on essential concepts for professional providers who may be involved in the initial management and transfer of critically ill or injured pediatric patients.

Now in its newly released second edition, this course reflects the latest research and the most effective training approaches in pediatric critical care.

**Fundamental Disaster Management (FDM)** prepares healthcare professionals to treat victims of natural or man-made mass casualty events. It arms critical care professionals with the expertise to manage the initial response to large-scale disasters.

In the third edition, special emphasis is given to critical care handling of an inpatient surge in a disaster’s aftermath.

---

**The Fundamental courses are available in three different formats:**

<table>
<thead>
<tr>
<th>Traditional Licensed Course</th>
<th>Online Licensed Course</th>
<th>Self-Directed Course</th>
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</thead>
<tbody>
<tr>
<td>A live, instructor-led course</td>
<td>An online, instructor-led course</td>
<td>An online, self-study course</td>
</tr>
</tbody>
</table>

For details and requirements on sponsoring an FCCS, PFCCS or FDM course, visit [www.sccm.org/Fundamentals](http://www.sccm.org/Fundamentals) or contact the Hospital Relations Manager at +1 847 493-6401.
Exhibit Hall Information and Events

**Hours**

The Exhibit Hall at the Phoenix Convention Center is open during the following hours:

- **Sunday, January 18**
  9:00 A.M. – 3:45 P.M.
- **Monday, January 19**
  9:00 A.M. – 3:15 P.M.
- **Tuesday, January 20**
  9:00 A.M. – 2:00 P.M.

**FUTURE CONGRESSES AND GIVEAWAY (Booth # 131)**

Stop by to learn about the exciting locales to host the 2016, 2017 and 2018 Congresses. Mark your calendars and start planning for these premier critical care events. Also, pick up your gift for attending the 44th Critical Care Congress.

**INTERNET ACCESS/COMPUTER STATIONS (CRITICAL CONNECTIONS CAFE)**

Catch up on work or keep in touch while you’re at Congress by checking your e-mail on site at the SCCM Critical Connections Cafe. Use a provided PC or bring your laptop to connect to the wireless Internet access available. These services are free of charge.

**REFRESHMENT BREAKS (EXHIBIT HALL)**

Complimentary refreshments will be available in the Exhibit Hall during the morning and afternoon breaks on Sunday, January 18, Monday, January 19, and Tuesday, January 20 (no afternoon break in the hall). These breaks offer an excellent opportunity to visit the exhibitors while enjoying complimentary refreshments.

**Exhibitor-Sponsored Industry Education Workshops**

**SUNDAY, JANUARY 18, 12:45 P.M. - 1:45 P.M.**

**Securement of IV Lines: Important Considerations for Doctors and Nurses**

Sponsored by 3M Critical Care & Chronic Care Solutions

**Presenter: Kendra Gregerson, BSN, RN**

Catheter securement is a critical component of patient care, and successful securement is achieved both at insertion and during line maintenance. Come learn an ICU nurse’s perspective on the important elements needed to achieve quality securement throughout treatment, and the factors that influence a consistently secure central line.
Acute cardiac conditions are becoming increasingly prevalent in critical care units. *Acute Cardiac Care: Selected Proceedings from the 10th Summer Conference in Intensive Care Medicine* focuses on acute cardiac care and how to effectively diagnose, manage, and treat cardiac complications in critically ill and injured patients. Based on presentations by experts in the field, this publication is a valuable resource for clinicians who must possess the knowledge required to provide high-quality care to patients with life-threatening cardiac conditions.

**$45 member / $57 nonmember**  
Product Code: CARDIACMONO

**Acute Cardiac Care On Demand**  
$175 member / $225 nonmember  
Product Code: CARDIACOD

**Save 10% when you purchase both the On Demand course and its companion book:**

**Acute Cardiac Care Bundle**  
$205 member / $260 nonmember  
Product Code: CARDIACBUND

To order these SCCM products, visit www.sccm.org/store, or contact SCCM Customer Service at +1 847 827-6888.
NEW EXHIBITOR

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3M Health Care offers solutions in the medical, oral care, drug delivery, food safety and health information markets. We have an unparalleled ability to connect people, insights, science and technology to think beyond today, solve problems, and make better health possible. Our culture of collaboration empowers us to discover and deliver practical, proven solutions that enable our customers to protect and improve the health of people around the world.

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Abbott Nutrition is one of the world’s leading authorities in science-based nutrition for all stages of life. As your nutrition partner, we invite you to explore our portfolio of products, including Ensure®, the world’s first complete ready-to-use nutritional supplement for adults. Ensure® nutrifies patients, supporting weight gain, and improving patient outcomes.

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United States
+1 314 514-6073
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Advanced ICU Care® is a well-established, innovative practice looking for committed intensivists. We are a recognized leader in critical care medicine and the largest provider of tele-ICU programs in the United States. Join the team that utilizes tele-ICU technology to help improve ICU patient care at hospitals across the country.

American Association of Critical-Care Nurses
Booth #212
101 Columbia
Aliso Viejo, CA 92656
United States
+1 949 268-7553
www.aacn.org

The American Association of Critical-Care Nurses (AACN) joins together the interests of more than 500,000 acute and critical care nurses and has more than 235 chapters. The organization’s vision is to create a healthcare system driven by the needs of patients and their families in which acute and critical care nurses make their optimal contribution. Please visit AACN at booth #212.

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United States
+1 212 315-8600
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With a mission of improving respiratory health worldwide, the American Thoracic Society is focused in the areas of pulmonary, critical care, and sleep medicine, providing CME educational programs to medical professionals as well as high-impact journals, clinical guidelines and statements, research support, advocacy programs and patient education.

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Applied Medical Technology, Inc. (AMT) was present at the birth and development of the percutaneous endoscopic gastrostomy (PEG) movement. Our founder co-invented the first low-profile feeding device, which AMT manufactured for distribution by C.R. Bard, Inc. AMT continues to create and manufacture innovative medical devices, such as the AMT Bridle™ Nasal Tube Retaining System, the AMT MiniONE® low profile buttons and the new AMT G-JET® low profile gastrojejunal enteral tube.

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United States
+1 801 448-3715
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C. R. Bard, Inc. is a leading multinational developer, manufacturer, and marketer of life-enhancing medical technologies in the product fields of: vascular access, urology, oncology and surgical specialty. For more than 100 years, C. R. Bard, Inc. has been developing innovative medical devices that meet the needs of healthcare professionals and patients. From a one man shop to a global leader in the medical device industry, we are committed to enhancing the lives of people around the world.

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+1 770 784-6100
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+1 847 473-1100
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Beutlich Pharmaceuticals has been offering healthcare professionals unique solutions for pain management and preventative care since 1954. We are a family-owned business whose integrity our customers can count on. Stop by booth #318 to learn about all the great products that we have to offer.

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Booth #530
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United States
+1 303 422-4181
www.bio2medical.com

BiO2 Medical is a medical device manufacturer founded to design, develop and subsequently manufacture a range of medical products in response to unmet clinical needs. Currently, BiO2 is focused on initiating an FDA Pivotal IDE Study in the US and commercializing the Angel® Catheter under CE Mark approval in key geographies. The innovative design of this device provides prophylactic pulmonary embolism protection bedside in the ICU and consists of an IVC filter, permanently attached to a CVC.

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StatSeal is the easy way to seal an access site and avoid unnecessary dressing changes. This intuitive topical disc is made of potassium ferrate and a hydrophilic polymer. StatSeal Disc minimizes dressing disruptions, a major risk factor for CRBSIs. StatSeal Disc seals sites from insertion to 7 days, virtually eliminating 24 or 48-hour dressing changes and minimizes unplanned dressing changes due to bleeding and oozing. StatSeal Disc helps follow CDC guidelines by keeping sites dry and intact.

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+1 202 429-7542
The Board of Pharmacy Specialties (BPS) is an autonomous division of American Pharmacists Association (APHA), founded in 1976 to certify pharmacists in specialized areas of pharmacy practice. Six specialties are currently recognized by BPS, including: 1) nuclear pharmacy; 2) nutrition support pharmacy; 3) pharmacotherapy; 4) psychiatric pharmacy; 5) oncology pharmacy; and 6) ambulatory care pharmacy.

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+1 203 301-6239
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www.cardiotoric.net

Cardiotoric – Osypka Medical, Inc. specializes in completely noninvasive hemodynamic monitoring for adults, pediatricians and neonates. These Electrical Cardiometry (EC) Monitors provide continuous estimations of flow, contractility, resistance and fluid as well as other hemodynamic parameters through the use of only four skin sensors. It has been shown that use of the EC Monitors results in economical and operational benefits including reduction in costs, procedural risks and medical staff time.

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United States
517-546-5400
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Centurion develops unique products and custom procedure trays with critical input from end users, including SorbaView® SHIELD catheter securement system, patented SnapFree® Instruments, Eme-Bag®, and biodegradable ECO-Eme-Bag®. Featuring the CVC Zone Bundle – a central line bundle with everything you need — in the desired sequence — to prevent CLABSIs and improve outcomes.

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BiO2 Medical is a medical device manufacturer founded to design, develop and subsequently manufacture a range of medical products in response to unmet clinical needs. Currently, BiO2 is focused on initiating an FDA Pivotal IDE Study in the US and commercializing the Angel® Catheter under CE Mark approval in key geographies. The innovative design of this device provides prophylactic pulmonary embolism protection bedside in the ICU and consists of an IVC filter, permanently attached to a CVC.
As of December 1, 2014

Cincinnati Sub-Zero
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Cincinnati Sub-Zero has been delivering patient temperature management systems to healthcare professionals since 1963; we design with the patient in mind. Our complete line of products includes therapeutic heating and cooling therapy units along with a complete line of warming and cooling blankets for body temperature regulation and hyper-hypothermia treatment.

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+1 503 261-8000
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United States
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CSL Behring is a leader in the plasma protein therapeutics industry. The company manufactures and markets plasma-derived and recombinant therapies worldwide. CSL Behring therapies are used around the world to treat coagulation disorders, primary immune deficiencies, hereditary angioedema and inherited respiratory disease, and neurological disorders in certain markets.

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Booth #632
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United States
+1 732 329-8885
www.cytoripsorbsents.com

CytoSorbents Corporation (OTCBB: CTSO) is a critical care focused immunotherapy company using blood purification to treat life-threatening illnesses. Its flagship product CytoSorb® is E.U. approved with sales as a first-in-class extracorporeal cytokine filter, designed to reduce uncontrolled inflammation and prevent or treat organ failure in sepsis, ARDS, trauma, burn injury, pancreatitis, and many others. HemoDefend is under advanced development to improve the quality of transfused blood.

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Building on a tradition of editorial excellence, The JAMA Network brings JAMA together with nine specialty journals to offer enhanced access to the research, viewpoints, and medical news shaping medicine today and into the future. JAMA is one of the most widely circulated, peer-reviewed, general medical journals in the world.

The Intensivist Company
Booth #614
820 Evergreen Avenue
Pittsburgh, PA 15209
United States
+1 412 680-6204
www.theintensivistcompany.com

The Intensivist Company is an ICU-centric services company offering expertise in critical care consulting, billing, and recruitment. Intensivist Billing provides billing services for hospital-based specialties, including customized reports and full electronic integration. Intensivist Consulting offers financial modeling, development, and implementation of Intensivist programs. Intensivist Jobs recruits physicians for hospitals, private physician groups, and institutions nationwide.

Restorative Therapies, Inc.
Booth #515
2032 Route 213
Rifton, NY 12471
United States
+1 845 658-7700
www.restorative-therapies.com

Restorative Therapies is the leading supplier of Functional Electrical Stimulation (FES) powered systems in neuro rehabilitation. Combat ICU acquired weakness with RT300 supine cycle for legs and arms with optional FES. Unique, portable design facilitates cycling while supine, seated or standing to promote early mobilization. Suitable for adults and pediatrics.

Rifton Equipment
Booth #515
2032 Route 213
Rifton, NY 12471
United States
+1 845 658-7700
www.rifton.com

Partnering with therapists around the world, Rifton has designed and manufactured rehab equipment for people with disabilities for almost four decades. The company is known throughout the industry for offering the most durable and the most adjustable equipment available. Intelligently engineered to provide quick, safe, dignified transfers and mobility, the Rifton TRAM features three functions in one device: seated transfers, sit-to-stand transfers, and supported ambulation.

SonoSim
Booth #810
1738 Berkeley Street
Santa Monica, CA 90404
United States
+1 310 315-2828
www.sonosim.com

SonoSim develops and markets state-of-the-art ultrasound training for physicians, nurses, students and care providers of all backgrounds who need to continually expand and improve their ultrasound skills. The company has a foundation of intellectual property that has enabled creation of an easy-to-use, affordable, and portable ultrasound education and training solution. The company’s products allow learners to take control of how, when, and where they learn ultrasound.
ICU Liberation and Animation: Implementing the Pain, Agitation and Delirium Guidelines

September 10-11, 2015 | Vanderbilt University Medical Center | Nashville, Tennessee, USA

Improve patient care in the intensive care unit (ICU) by implementing the pain, agitation and delirium (PAD) guidelines.

The Society of Critical Care Medicine (SCCM) is partnering with Vanderbilt University Medical Center to offer a 2-day didactic and simulation conference that will review implementation strategies and discuss approaches to enable a more effective and lasting application of the PAD guidelines by utilizing the multiprofessional team.

Internationally recognized faculty will present lectures on patient management strategies and engage participants in clinical scenarios through small-group simulation labs. Hospitals are encouraged to send a team of two or more participants who will then be able to implement these strategies within their hospital’s ICU after the conference.

Registration opens Spring 2015 at www.sccm.org/ICULiberation.

Co-Chairs
Michele Balas, PhD, RN, APRN-NP, CCRN
Associate Professor
Ohio State University
Columbus, Ohio, USA

E. Wesley Ely, MD, MPH
Professor of Medicine and Critical Care
Associate Director of Aging Research,
Tennessee Valley VA-GRECC
Vanderbilt University School of Medicine
Nashville, Tennessee, USA

Held in Partnership with
Thermo Scientific
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Middletown, VA 22645
United States
+1 540 869-8600
www.thermoscientific.com/aboutsepsis

The Thermo Scientific brand is leading the way in development and manufacture of diagnostic reagents, assays, supplies, and instruments to determine disease markers or analytes of diagnostics interest. The BRAHMS line of immunoassays facilitate earlier diagnosis of diseases and better control of therapy, thus enabling doctors to improve patient outcomes. Facebook: www.facebook.com/AboutSepsis. Twitter: www.twitter.com/AboutSepsis.

Vapotherm
Booth #823
22 Industrial Drive
Exeter, NH 03833
United States
+1 603 655-0477
www.vtherm.com

Vapotherm High Flow Therapy provides ventilation support to treat patients with symptoms including dyspnea, hypercapnia and hypoxia. Precision Flow is an easy-to-use integrated system that delivers ideally conditioned gas through a nasal cannula at flow rates that wash out expiratory gas from the respiratory dead space to reduce breathing effort. Vapotherm HFT helps many patients in respiratory distress avoid mechanical ventilation and/or pressure-based ventilation support.

Vision-Sciences, Inc.
Booth #419
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Orangeburg, NY 10962
United States
+1 845 365-0600
www.visionsciences.com

Vision-Sciences provides advanced video and fiber-optic endoscopy systems with EndoSheath® Technology. The only sterile, disposable option for flexible endoscopy. With EndoSheath® Bronchoscopy, the endoscope never comes in contact with the patient, providing an “always ready” bronchoscope. The sheath acts as a protective barrier between the scope and patient and is provided sterile, which assures a contaminant-free procedure, eliminating the need for expensive, time-consuming reprocessing.

WFSICCM 2015
Booth #106
9th Fl., Samick Lavied’or Building
234, Teheran-ro, Gangnam-gu
Seoul, 135-920
South Korea
+82 234 527 291
www.wfsiccm2015.com

The World Federation of Societies of Intensive and Critical Care Medicine (WFSICCM), established in 1977, is an organization comprised of societies of intensive and critical care medicine from around the globe. The world congress organized by the WFSICCM was held every 4 years until 2013, but now it is held biennially and in 2015, the 12th congress will take place in Seoul, Korea. This Congress is held in collaboration with the WFCCN and WFRICCS, which makes it all the more fruitul.

ZOLL Medical Corporation
Booth #307
269 Mill Road
Chelmsford, MA 01824
United States
+1 978 421-9655
www.zoll.com

ZOLL Medical Corporation, a leader in medical devices and software solutions, helps hospital professionals manage, treat and save lives while also increasing operational efficiency. ZOLL offers innovative, hospital-specific products for defibrillation, circulation, pacing, temperature management, fluid resuscitation and information management that strengthen the Chain of Survival and improve outcomes.
Each year, the Society of Critical Care Medicine’s (SCCM) popular Congress pre-course, Current Concepts in Adult Critical Care, delivers the latest clinical information on the management of adult patients in the intensive care unit.

The 2015 course featured the following topics:

- Management of the “Almost Never Events”
- Early Mobility
- Antithrombolytics and Antiplatelet Therapy in the ICU
- How to Start an Extracorporeal Membrane Oxygenation Program

**Current Concepts in Adult Critical Care Companion Textbook**

Updated annually to complement the content presented at the live course, this textbook also includes learning objectives, key terms and a list of current references in bibliographic form.

$75 member/$95 nonmember  
Product Code: CCACC-2015

**Current Concepts in Adult Critical Care On Demand**

View the educational sessions of the live course on your own time and at your own pace. Videos containing both slides and lectures from every session are available in a searchable format, making it the next best thing to attending the live event.

$195 member/$225 nonmember  
Product Code: CCACC2015OD

Save over 10% when you purchase both the On Demand course and its companion textbook.

$240 member/$310 nonmember  
Product Code: CCACC15BUND

To order these SCCM products, visit www.sccm.org/store, or contact SCCM Customer Service at +1 847 827-6888.
Each year, the Society of Critical Care Medicine’s (SCCM) popular Congress pre-course, Current Concepts in Pediatric Critical Care, delivers the latest clinical information pertaining to pediatric patients in the intensive care unit.

The 2015 course featured the following topics:

- Diabetic Ketoacidosis and Cerebral Edema
- Extracorporeal Membrane Oxygenation in High-Risk Populations
- Managing Comfort in the Critically Ill Pediatric Patient
- Donation After Cardiac Death

Current Concepts in Pediatric Critical Care Companion Textbook

Updated annually to complement the content presented at the live course, this textbook also includes learning objectives, key terms and a list of current references in bibliographic form.

$75 member/$95 nonmember
Product Code: CCPCC-2015

Current Concepts in Pediatric Critical Care On Demand

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Sepsis-related respiratory failure is a major healthcare problem affecting millions of people around the world each year, often resulting in adverse outcomes. Compiled as an overview of the Society of Critical Care Medicine’s Clinical Focus Conference, *Sepsis-Related Respiratory Failure* presents the latest research and information about this condition and effective strategies for managing it. Topics include sepsis and pulmonary disease, risk factors for lung injury, highlights of the 2012 Surviving Sepsis Campaign guidelines, and strategies for maximizing oxygen delivery.

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2. Share examples of patient-centered outcomes research and initiatives
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  Implementing a Family Involvement Menu
  Rhonda Wyskiel

◆ “Tree of Life” Memorial Event:
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◆ Taking a Comprehensive Approach to Patient-Centered Care in the ICU
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