

Final Program

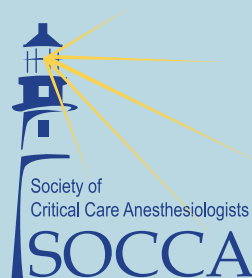


SOCCA 29th Annual Meeting and Critical Care Update

May 20, 2016

Hilton San Francisco Union Square

San Francisco, California



www.socca.org

Welcome to the SOCCA 29th Annual Meeting and Critical Care Update in San Francisco, California!

SOCCA Education Session Highlights

The Anesthesiologist-Intensivist and the Current Era of Healthcare Reform

- The Anesthesia Quality Institute and ICU Metrics
- Bundled Payments-What Does This Mean for the Intensivist?
- Critical Care Organizations in Academic Medical Centers

Big Data in Critical Care

- Big Data Defined: What Does It Really Mean for Quality Management in the ICU
- Challenges in the Use of Big Data in the ICU
- MIMIC-2 Project

Trials You Should Be Aware Of: An Update from the Critical Care Research Networks

- US Critical Illness and Injury Trials Group (USCIITG)
- The PETAL Clinical Trials Network
- Canadian Critical Care Trials Group

Update on Devices for the Failing Organ in the ICU

- Cardiac
- Assist Devices to Support the Failing Lung
- Liver Support and Liver Replacement: Ready for Prime Time?

Focus On Critical Care at the IARS 2016 Annual Meeting and International Science Symposium

The Society of Critical Care Anesthesiologists will again hold their 29th Annual Meeting and Critical Care Update in conjunction with the International Anesthesia Research Society (IARS) 2016 Annual Meeting and International Science Symposium in San Francisco, California.

Take advantage of a solid two-day education program, beginning with the SOCCA Annual Meeting on Friday, May 20 and continuing with a day of SOCCA supported sessions focused on critical care at the IARS 2016 Annual Meeting on Saturday, May 21.

Take advantage of some of the best free things to do while you are visiting San Francisco*



- Take a Free Guided Walking Tour. With over 90 tours to choose from—Murals and the Multi-Ethnic Mission, Castro: Tales of the Village, or Gold Rush City, to name a few—San Francisco City Guides is one of the best deals in town.
- Tour City Hall. Come see where, in 2004, Mayor Gavin Newsom made his bold statement to the country about the future of same-sex marriage in this beautiful Beaux Arts building. Free tours are offered to the public.
- Browse the Ferry Building Farmers' Market. Stroll booth to booth sampling organic food. Buy fresh produce alongside some of the big name chefs of the Bay Area. People watch. It is always a party and always free. Held rain or shine every Tuesday, Thursday, and Saturday, this is one of the most pleasurable ways to spend time the city.
- Visit the Wells Fargo Museum. Have a look at pistols, mining equipment, an original Wells Fargo stagecoach, old photographs, other gold rush-era relics at the bank's original location.

- Hang Out in Golden Gate Park: Stroll around Stow Lake, watch the disco roller skaters who dance around the area closed to traffic on Sundays, hang out in Shakespeare's Garden, or just find a sunny patch of grass to call your own. There's tons to do in the city's communal backyard that doesn't cost a cent.
- Take Advantage of Free Culture Days. Most every museum in San Francisco opens its doors to the public for free on certain days of the week

*As seen in Frommers <http://goo.gl/lpkpgD>

For more information on what to do in San Francisco click here: <https://goo.gl/xKFrX1>



SOSCCA Committee on Education

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Mayo Clinic
Rochester, Minnesota

ASA Alternate Delegate (Ex-Officio)

Stephen D. Surgenor, MD

Dartmouth Hitchcock Medical Center
Lebanon, New Hampshire

International Representative

Patricia M. Murphy, MD

Toronto General Hospital
Toronto, Ontario, Canada



SOCCA 2016 Annual Meeting Faculty and Moderators

Raquel R. Bartz, MD

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Medical Director, Cardiovascular Intensive
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Avery Tung, MD, FCCM

Professor of Anesthesia and Critical Care
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Peter von Homeyer, MD, FASE

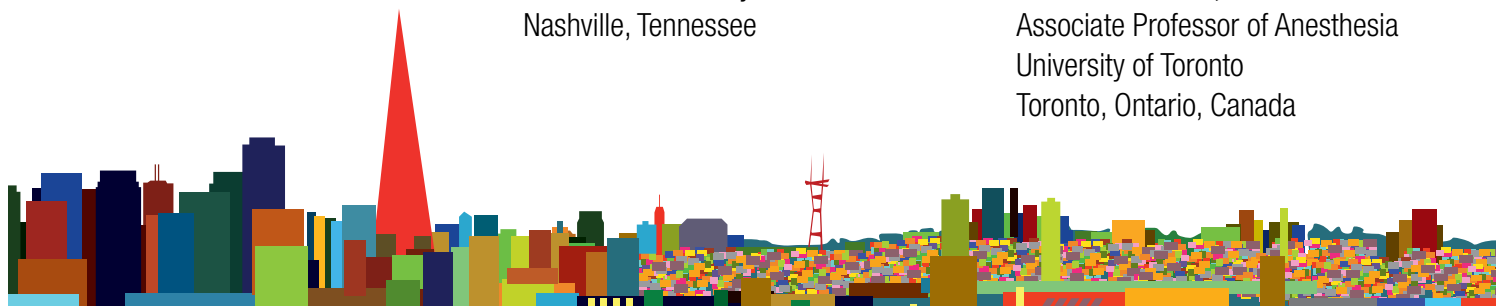
Assistant Professor of Anesthesiology and
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Associate Professor of Anesthesiology
Department of Anesthesiology
Columbia University
New York, New York

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Associate Professor of Anesthesia
University of Toronto
Toronto, Ontario, Canada



Continuing Medical Education (CME) Activity Information

Activity Overview

The Society of Critical Care Anesthesiologists (SOCCA) 29th Annual Meeting and Critical Care Update is designed to optimize outcomes for critically ill patients and their families through evidence-based and clinically-oriented physician education. The purpose of the SOCCA Annual Meeting and Critical Care Update is to advance knowledge, improve competence, and enhance performance of intensive care teams.

Target Audience

The SOCCA 29th Annual Meeting and Critical Care Update is designed for anesthesiologists in the clinical and laboratory setting.

Educational Objectives

As a result of participating in this CME activity, learners should be able to:

- Evaluate the current state of emerging knowledge and practice patterns and assess the relevance to their professional practice;
- Incorporate new knowledge from advances in anesthesiology practice into their professional practice areas; and
- Distinguish gaps in their knowledge, behavior, and patient outcomes that may result in a need for additional education and training.

Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the International Anesthesia Research Society (IARS) and the Society of Critical Care Anesthesiologists (SOCCA). The IARS is accredited by the ACCME to provide continuing medical education for physicians.

CME Credit

The International Anesthesia Research Society (IARS) designates this live activity for a maximum of 6 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Claiming CME Credit

SOCCA will provide online program evaluation and session tracking to support claiming CME credit immediately following the close of the live activity.

Disclosure

The International Anesthesia Research Society (IARS) makes every effort to develop CME activities that are independent, objective, scientifically balanced presentations of information. The IARS has implemented mechanisms requiring everyone in a position to control content to disclose all relevant financial relationships with commercial interests. Relevant financial relationships are defined as financial relationships in any amount occurring within the past 12 months, including financial relationships of the spouse or partner of the person in control of content. Disclosure of any or no relationships is made available in advance of all educational activities. The IARS evaluates, and if necessary, resolves any conflicts of interest prior to the start of the activity. Individuals who refuse or fail to provide the required disclosures are disqualified from being a planning committee member, teacher, or author of CME, and cannot have control of, or responsibility for, the development, management, presentation or evaluation of the CME activity.

It is IARS policy that an employment relationship with a commercial interest presents an inherent conflict of interest that cannot be resolved successfully with respect to CME activities. Therefore, employees of commercial interests are prohibited from serving in any position to control CME content (planner, reviewer, presenter, speaker, moderator, etc.).

Disclaimer

The information provided in this CME activity is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient's medical condition.

Commercial Support

The following commercial interest has provided support for this live activity: Mallinckrodt Pharmaceuticals (Satellite Symposium).

Program Schedule

Friday, May 20, 2016

- 7:00 am – 5:00 pm** Registration
- 7:00 am – 8:00 am** Continental Breakfast with Exhibitors
- 8:00 am – 8:30 am** Welcome Address and Introduction
Aryeh Shander, MD, FCCM, FCCP, President, SOCCA
Daryl J. Kor, MD, MSc, Chair,
Committee on Education
- 8:30 am – 10:30 am** **Education Session I**
The Anesthesiologist-Intensivist and the Current Era of Healthcare Reform
Moderator: Daryl J. Kor, MD, MSc
- **The Anesthesia Quality Institute and ICU Metrics**
Avery Tung, MD, FCCM, The University of Chicago, Chicago, Illinois
 - **Bundled Payments-What Does This Mean for the Intensivist?**
David L. Reich, MD, The Mount Sinai Hospital, New York, New York
 - **Critical Care Organizations in Academic Medical Centers**
Daniel R. Brown, MD, PhD, FCCM, Mayo Clinic, Rochester, Minnesota
- 10:30 am – 11:00 am** Break with Exhibitors
- 11:00 am – 12:00 pm** **Education Session II – Big Data in Critical Care**
Moderator: Adam S. Evans, MD, MBA
- **Big Data Defined: What Does It Really Mean for Quality Management in the ICU**
Jesse M. Ehrenfeld, MD, MPH, Vanderbilt University Medical Center, Nashville, Tennessee
 - **Challenges in the Use of Big Data in the ICU**
James M. Blum, MD, Emory University School of Medicine, Atlanta, Georgia
 - **MIMIC-2 Project**
Daniel S. Talmor, MD, Beth Israel Deaconess Medical Center, Boston, Massachusetts
- 12:00 pm – 12:30 pm** **SOCCA Lifetime Achievement Award Presentation**
Ronald G. Pearl, MD, PhD, Stanford University School of Medicine, Stanford, California
- 12:30 pm – 1:30 pm** Lunch Symposium (non CME)
- 1:45 pm – 3:00 pm** **Education Session III**
Trials You Should Be Aware Of: An Update from the Critical Care Research Networks
Moderator: Andrew C. Steel, BSc, MBBS
- **US Critical Illness and Injury Trials Group (USCIITG)**
Raquel R. Bartz, MD, Duke University School of Medicine, Durham, North Carolina
 - **The PETAL Clinical Trials Network**
Shahzad Shaefi, MD, Beth Israel Deaconess Medical Center, Boston, Massachusetts
 - **Canadian Critical Care Trials Group**
Hannah Wunsch, MD, University of Toronto, Toronto, Ontario, Canada
- 3:00 pm – 3:15 pm** **SOCCA Young Investigator Award Presentation**
A Novel Association Between High Density Lipoprotein Levels and the Risk of Acute Kidney Injury After Cardiac Surgery
Loren E. Smith, MD, PhD, Vanderbilt University Medical Center, Nashville, Tennessee
- 3:15 pm – 4:00 pm** Moderated Poster Session
- 4:00 pm – 4:15 pm** Break with Exhibitors
- 4:15 pm – 5:15 pm** **Education Session IV – Update on Devices for the Failing Organ in the ICU**
Moderator: Andrew C. Steel, BSc, MBBS
- **Cardiac**
Joseph S. Meltzer, MD, UCLA Medical Center, Los Angeles, California
 - **Assist Devices to Support the Failing Lung**
Peter von Homeyer, MD, University of Washington, Seattle, Washington
 - **Liver Support and Liver Replacement: Ready for Prime Time?**
Gebhard Wagener, MD, Columbia University, New York, New York
- 5:15 pm – 5:30 pm** Closing Remarks
- 5:30 pm – 6:15 pm** SOCCA Annual Business Meeting
- 5:30 pm – 6:30 pm** Resident/Fellow Program
- 6:15 pm – 7:30 pm** SOCCA Reception with Exhibitors

**Preliminary schedule as of press time*

Session Learner Objectives

8:30 am – 10:30 am

Education Session I

The Anesthesiologist-Intensivist and the Current Era of Healthcare Reform

After participating in this activity, the learner will be able to:

- Review current knowledge with respect to the use and effectiveness of ICU quality metrics.
- Discuss challenges in the use of outcome-based quality metrics.
- Review AQL-proposed definitions and quality metrics applicable to the ICU.
- Describe the relative portions of bundled payments that are controllable with anesthesiologist/intensivist intervention.
- Create analyses of excess days and length of stay that affected healthcare delivery.
- Identify the elements of a respiratory care pathway that facilitates more rapid recovery.
- Describe types of structure and governance of critical care organizations in North America.
- Discuss factors that impact the transition from traditional Department- or Division-based models to a critical care organization.
- Explain benefits and risks of a critical care organization in an academic medical center.

11:00 am – 12:00 pm

Education Session II

Big Data in Critical Care

After participating in this activity, the learner will be able to:

- Define the concept of big data and related concepts of data curation, visualization, and querying.
- Identify current state of healthcare analytics.
- Articulate challenges and trends in big data analytics in healthcare.
- Discuss how healthcare analytics and big data can transform the clinical care and quality management.
- Identify practical applications and best practice of healthcare analytics.
- Review types of data available in the ICU.
- Describe barriers to accessing data for clinical purposes.
- Discuss methods for using big data for clinical research.
- Recall the research opportunities in the MIMIC III database.
- Assess the eICU Research Institute and identify available resources.

(Continued on page 8)

Session Learner Objectives, Continued from Page 7

1:45 pm – 3:00 pm

Education Session III

Trials You Should Be Aware Of: An Update from the Critical Care Research Networks

After participating in this activity, the learner will be able to:

- Identify the U.S. Critical Illness and Injury Trials Group.
- Discuss the current studies being conducted under the USCIT Group umbrella.
- Describe steps for involvement with the USCIT Group.
- Review the PETAL network structure.
- Describe the current PETAL multicenter trials.
- Relate the scientific rationale behind the current trials.
- Describe the history of the Canadian Critical Care Trials Group
- Relate the current structure and mandate of the Canadian Critical Care Trials Group.
- Discuss the large randomized controlled trials currently supported by the Canadian Critical Care Trials Group.

4:15 pm – 5:15 pm

Education Session IV

Update on Devices for the Failing Organ in the ICU

After participating in this activity, the learner will be able to:

- Identify mechanical devices to support the left heart.
- Identify mechanical devices to support the right heart.
- Describe techniques for patient mobilization while on mechanical circulatory support.
- Describe differential indications for interventional lung assist.
- Discuss the function of the various assist devices.
- Discuss the outcomes of patients supported with those devices.
- Identify the side effects of those techniques.
- Define the pathophysiology of acute and acute-on chronic liver failure
- Recall the epidemiology of acute liver failure and the history of liver replacement devices.
- Recognize complexities of replacing specific functions of the liver.
- Discuss the theoretical advantages and clinical limitations of specific liver support systems such as:
 - Molecular Adsorbent Recirculating System, Single Pass Albumin
 - Dialysis and plasma filtration treatment systems
- Name conventional therapeutic interventions for acute liver failure.

SOCCA Focus on Critical Care Day

At the IARS 2016 Annual Meeting and International Science Symposium

Saturday, May 21, 2016

The Society of Critical Care Anesthesiologists (SOCCA) Focus on Critical Care Day on Saturday, May 21 will examine and challenge current practices in critical care and highlight new discoveries in research and education. This SOCCA supported, dynamic education program will include two Review Course Lectures, three Panels, and one Problem-Based Learning Discussion Session, presented by the leaders in critical care anesthesiology. SOCCA full registrants may attend the bonus Focus on Critical Care Review Course Lectures and Panels as part of their SOCCA Annual Meeting registration fee (pre-registration is required). The PBLD requires an additional fee.

Review Course Lectures

1:00 am – 1:45 pm

■ **Bad, Bad Blood**

Presenter: Stephen D. Surgenor, MD, MS, Professor of Anesthesiology, Geisel School of Medicine and of The Dartmouth Institute, Lebanon, New Hampshire

2:00 pm – 2:45 pm

■ **What's New in Perioperative Resuscitation**

Presenter: Vivek Moitra, MD, Associate Professor of Anesthesiology, Columbia University College of Physicians and Surgeons, New York, New York

Problem-Based Learning Discussion

12:00 pm – 1:00 pm

■ **Please Mend My Broken Heart**

Moderator: Miko Enomoto, MD, Clinical Associate Professor, Critical Care Medicine, Program Director, Department of Anesthesiology and Perioperative Medicine, Oregon Health and Science University, Portland, Oregon

The PBLD requires an additional fee and separate registration with the IARS.

Panels

9:30 am – 11:00 am

■ **Optimizing the Patient During the Perioperative Period**

Moderator: **Patricia Murphy, MD**, Associate Professor, Department of Anesthesiology, University of Toronto, Toronto, Ontario, Canada; International Representative, SOCCA

Panelists:

■ **Renal Protective Strategies**

Linda Liu, MD, Professor, Anesthesia and Perioperative Care, University of California, San Francisco, San Francisco, California; Director, SOCCA

■ **Delirium/Cognitive Dysfunction in the Continuum of Care**

Christopher G. Hughes, MD, Associate Professor of Anesthesiology; Program Director, Anesthesia Critical Care Medicine, Vanderbilt University Medical Center, Nashville, Tennessee

■ **Heart Failure**

Andrew Steel, MBBS, Assistant Professor, Department of Anesthesiology, University of Toronto, Toronto, Ontario, Canada

All SOCCA Focus-On Critical Care Sessions will take place on Saturday, May 21, at the Hilton San Francisco Union Square. Your SOCCA badge will admit you to these sessions.

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SOCCA Focus on Critical Care Day

At the IARS 2016 Annual Meeting and International Science Symposium

Saturday, May 21, 2016

Panels, Continued from Page 9

2:45 pm – 4:15 pm

Sepsis – Current Controversies

Moderator: Daniel R. Brown, MD, PhD, FCCM, Professor of Anesthesiology, Mayo Clinic College of Medicine, Rochester, Minnesota; Treasurer and ASA Delegate, SOCCA

Panelists:

■ **Choices for Volume Resuscitation**

Peggy White, MD, Assistant Professor of Medicine, Associate Program, Director of the Multidisciplinary Adult Critical Care Medicine Fellowship, University of Florida College of Medicine, Gainesville, Florida

■ **Monitoring Physiologic Parameters**

Miguel A. Cobas, MD, FCCM, Associate Professor of Clinical Anesthesiology, Program Director, Critical Care Medicine Fellowship, University of Miami Health System, Miami, Florida; Secretary, SOCCA

■ **Mechanical Ventilation Strategies**

Steven G. Venticinque, MD, Professor of Clinical Anesthesiology & Surgery, Program Director, Anesthesiology Critical Care Medicine Fellowship, Department of Anesthesiology, University of Texas Health Science Center at San Antonio, San Antonio, Texas

4:30 pm – 6:00 pm

Perioperative Medicine and Critical Care Anesthesiology

Moderator: Brenda G. Fahy, MD, MCCM

Panelists:

■ **Thinking Outside the Walls of the ICU**

Brenda G. Fahy, MD, MCCM, Professor of Anesthesiology, Division Chief, Critical Care Medicine Anesthesiology, University of Florida College of Medicine, Gainesville, Florida; Immediate Past President, SOCCA

■ **Care in the Continuum—Transitions of Care**

Aryeh Shander, MD, FCCM, FCCP, Chief, Department of Anesthesiology, Critical Care Medicine, Pain Management and Hyperbaric Medicine, Englewood Hospital and Medical Center, Englewood, New Jersey; Clinical Professor of Anesthesiology, Medicine and Surgery, Icahn School of Medicine at Mount Sinai, New York, New York; President, SOCCA

■ **Added Value to the Health Care System**

Ruben J. Azocar, MD, FCCM, Chairman, Anesthesiologist-in-Chief, Associate Professor, Department of Anesthesiology, Tufts University School of Medicine, Boston, Massachusetts



Floor Plans

Hilton San Francisco Union Square

Continental Ballroom Ballroom Level - Second Floor

