



California Society of
ANESTHESIOLOGISTS
Physicians for Vital Times

*Learn about innovations in the field of
anesthesia, perioperative care,
and patient safety from expert
physician anesthesiologists.*



2015

Winter Anesthesia Conference

January 12 - 16, 2015 🌺 The Fairmont Kea Lani, Maui, Hawaii

www.csahq.org

Welcome

to the CSA 2015 Winter Anesthesia Conference

The annual CSA 2015 Winter Anesthesia Conference is a comprehensive program designed to enhance the continuing medical education experience of physician anesthesiologists, fellows, residents and other healthcare providers. Under the leadership of Ronald G. Pearl, MD, CSA Program Chair, an in-depth, anesthesia-based program has been developed.

Topics provide updates on the latest clinical information in anesthesiology and its subspecialties, including, but not limited to, pain medicine, regional anesthesia, perioperative care, obstetric anesthesia, pediatric anesthesia and critical care.

Mission Statement of the CSA Education Committee

The mission of the Education Committee is to provide high-quality opportunities, enabling physicians and other allied healthcare professionals to maintain, develop, and increase knowledge, skills, performance, and relationships necessary for continuing to improve patient safety and medical care. Providing continuing medical education (CME) is one of the major ways in which the CSA is committed to promoting the highest standards of the profession of anesthesiology.

"Continuing medical education for the needs of an evolving specialty" is the mission statement that guides the Winter Conference Program Committee.

Target Audience

This program is designed to enhance and maintain the knowledge of practicing physician anesthesiologists, anesthesiologist assistants, nurse anesthetists, physician assistants, anesthesiology residents and students, and other healthcare professionals in the practice of anesthesiology.

Types of Activities

Educational activities feature multiple teaching methods, including lectures, case presentations/studies, and panel discussions.

Statement of Educational Need

Anesthesiology is a dynamic specialty with significant changes expected on a number of fronts in the years to come, including new clinical technologies and practices, regulatory changes, business process changes, and overall changes in the healthcare environment. In addition to covering the latest clinical information, this program seeks to prepare participants for emerging and anticipated changes in the practice of anesthesiology.

Commercial Support Acknowledgement

This CME activity may be supported by educational grants. A complete list of supporters will be available online in the course syllabus.

Resolution of Conflicts of Interests

In accordance with the ACCME Standards for Commercial Support, the CSA adheres to strict guidelines and processes to identify and resolve conflicts of interest for all individuals in a position to control content of this CME activity.



Accreditation and Credit Designation

The California Society of Anesthesiologists is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Credit Designation

The California Society of Anesthesiologists designates this educational activity for a maximum of 25 *AMA PRA Category 1 Credits™*. Physicians should only claim credits commensurate with the extent of their participation in the activity. Certificates for CME credits will be issued at the conclusion of the meeting, based upon attendance records.



Maintenance of Certification in Anesthesiology

The California Society of Anesthesiologists is pleased to announce that the CSA 2015 Winter Anesthesia Conference has been approved by the American Board of Anesthesiology to fulfill 16 hours of the Patient Safety requirement for Part II of the ABA's Maintenance of Certification in Anesthesiology Program® (MOCA®). The MOCA logo will appear alongside lecture titles, where applicable, in the schedule.

Maintenance of Certification in Anesthesiology Program® and MOCA® are registered certification marks of The American Board of Anesthesiology®. This patient safety activity helps fulfill the patient safety CME requirement for Part II of the Maintenance of Certification in Anesthesiology Program (MOCA) of The American Board of Anesthesiology (ABA). Please consult the ABA website, www.theABA.org, for a list of all MOCA requirements.

Faculty Disclosures

The California Society of Anesthesiologists adheres to the ACCME Standards for Commercial Support regarding industry support of continuing medical education. All faculty participating in continuing medical education activities sponsored by the California Society of Anesthesiologists are required to disclose any relevant financial interest or other relationship with the manufacturer(s) of any commercial product(s) discussed in a continuing medical education presentation(s).

Ronald G. Pearl, MD, PhD

Stanford University, School of Medicine
Dr. Pearl has no relevant financial relationship with any commercial interest.

John C. Drummond, MD, FRCPC

University of California, San Diego
VA Medical Center, San Diego
Dr. Drummond has no relevant financial relationship with any commercial interest.

James R. Hebl, MD

Mayo Clinic
Dr. Hebl has no relevant financial relationship with any commercial interest.

Linda J. Mason, MD

Loma Linda University Medical Center
Dr. Mason has no relevant financial relationship with any commercial interest.

Warren S. Sandberg, MD, PhD

Vanderbilt University
Dr. Sandberg has no relevant financial relationship with any commercial interest.

Educational Learning Objectives

Upon completion of this seminar, participants will be able to:

- Construct clinical pathways for patients undergoing joint replacement
- Describe the complications associated with regional anesthesia
- Formulate an approach to the patient with a difficult airway
- Discuss applications of new information regarding cerebral blood flow autoregulation
- Understand the basics of quality improvement and how to develop quality improvement projects
- Construct a prioritized plan for management of a patient with shock
- Discuss challenges in pediatric ambulatory anesthesia
- Construct a plan for perioperative management of the patient with pulmonary hypertension
- Discuss the value of depth of anesthesia monitoring in preventing postoperative morbidity
- Effectively manage postoperative problems in pediatric patients
- Formulate management plans for the trauma patient with head injury
- Understand the value of ultrasound-guided regional anesthesia
- Formulate an approach to the management of patients with acute respiratory distress syndrome
- Discuss the risks of anesthesia neurotoxicity in pediatric patients
- Understand the concept of the perioperative surgical home in an anesthesia practice

Letter from the Educational Programs Division

Dear Colleagues,

On behalf of the California Society of Anesthesiologists (CSA) Educational Programs Division, I am excited to invite you to the lovely island of Maui for the CSA 2015 Winter Anesthesia Conference to be held January 12-16, 2015.

"Continuing medical education for the needs of an evolving specialty" is the mission statement that guided this meeting's program development. The program will cover multiple subspecialty areas, including pediatric anesthesia, neuroanesthesia, regional anesthesia, pain management, and critical care, with outstanding nationally renowned speakers from throughout California and across the nation. There will also be topics of general interest, including airway management, trauma anesthesia, blood transfusion, and depth of anesthesia monitoring. A panel discussion based on audience questions is provided at the end of each morning session. As an added bonus, we have included an interactive problem-based learning discussion during breakfast led by one of the speakers each day.

In addition to the wide variety of clinical topics, special topics focused on the evolution of our field include development of clinical pathways, quality improvement, the perioperative surgical home, and the future of anesthesiology. Many of the presentations will be applicable for credit towards Maintenance of Certification in Anesthesiology.

The meeting will be held among the gentle island breezes at the beautiful Fairmont Kea Lani Hotel. Please join us for what promises to be an important meeting.

I look forward to seeing you in January.

Aloha!

Ronald G. Pearl, MD, PhD
Program Chairman



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Program Schedule

Sunday | January 11

2:00 pm – 3:00 pm **Exhibitor Set-Up**

3:00 pm – 6:00 pm **Registration**

Exhibits open during registration

Monday | January 12

7:00 am – 12:30 pm **Registration**

7:00 am – 8:00 am **Case-Based Discussion: Management of Acute Respiratory Distress Syndrome**

Ronald G. Pearl, MD, Stanford University, School of Medicine

- Discuss mechanisms of ventilator-associated lung injury and how appropriate ventilator management of the patient with ARDS can prevent such injury
- Discuss fluid management of the patient with ARDS in the context of issues of systemic perfusion
- Recognize complications associated with the use of high tidal volume, low PEEP ventilation in the operating room and the ICU

8:00 am – 9:00 am **Clinical Pathways for Total Joint Arthroplasty: Essential Components for Success**

James R. Hebl, MD – Mayo Clinic



- Understand the physiology and clinical implications of acute postoperative pain
- Describe the essential components of an effective clinical pathway
- Discuss the clinical and economic benefits of clinical pathways for patients undergoing total arthroplasty

9:00 am – 10:00 am **Challenges in Pediatric Ambulatory Anesthesia**

Linda J. Mason, MD, Loma Linda University Medical Center



- Develop management strategies for the pediatric outpatient
- Manage the child with URI
- Manage the child with sleep apnea with criteria for outpatient tonsillectomy
- Know what is the youngest age acceptable for outpatient surgery

10:00 am – 10:30 am **Exhibitor Break**

10:30 am – 11:30 am **Transfusion and Blood Component Therapy – When, What, and Who?**

Ronald G. Pearl, MD – Stanford University, School of Medicine



- Discuss the risks and benefits of transfusion of red blood cells and the appropriate trigger for transfusion
- Discuss the available alternatives to blood transfusion
- Discuss the importance of teamwork in developing a bloodless surgery strategy

11:30 am – 12:30 pm **Thinking Clearly About CBF Autoregulation (So that Patients Will Think Clearly Postoperatively)**

John C. Drummond, MD, FRCPC, University of California, San Diego



- Discuss the contemporary standard of care with respect to the intraoperative management of blood pressure in the adult patient
- Understand the concept of the lower limit of cerebral blood flow auto regulation and of the probable average numeric value of the LLA
- Understand the concept of a cerebral vascular blood flow reserve and the physiologic phenomena that attenuate that reserve
- Discuss BP management practices that will reduce the likelihood of intraoperative CNS ischemic injury

Program Schedule

Tuesday | January 13

7:00 am – 12:30 pm **Registration**

7:00 am – 7:45 am **Breakfast**

7:00 am – 8:00 am **Case-Based Discussion: Regional Anesthesia Conundrums**

James R. Hebl, MD, Mayo Clinic

- Describe the clinical advantages and disadvantages of both femoral nerve and adductor canal blockade
- Understand the potential risks and benefits of performing spinal anesthesia in patients with preexisting spinal canal pathology
- Understand the potential risks and benefits of dexamethasone use during peripheral nerve blockade

8:00 am – 9:00 am



Common Postop Problems in Pediatric Patients

Linda J. Mason, MD, Loma Linda University Medical Center

- Recognize and treat postoperative airway and respiratory complications
- Understand the risk factors and treat pulmonary aspiration
- Manage post operative nausea and vomiting

9:00 am – 10:00 am



Common Misunderstandings and Misadventures in Neuroanesthesia

John C. Drummond, MD, FRCPC, University of California, San Diego

- Describe elements of physiology and pharmacology relevant to neuroanesthesia that are commonly misunderstood and that have the potential to have adverse effects on patients undergoing neurosurgery
- Develop the necessary knowledge to avoid those situations
- Understand the physics and mechanics of stridor and obstruction caused by periglottic swelling and mass lesion expansion
- Describe the variable, pathology-dependent, effect of volatiles agents on CBF
- Describe the effect of alpha1 agonists on human CBF

10:00 am – 10:30 am **Exhibitor Break**

10:30 am – 11:30 am **Perioperative Management of Pulmonary Hypertension**

Ronald G. Pearl, MD, Stanford University, School of Medicine

- Describe the steps required to develop an anesthetic plan for patients with pulmonary hypertension
- Discuss the treatment of the perioperative complications which may occur in patients with pulmonary hypertension
- Discuss the importance of teamwork in developing a multidisciplinary approach to the perioperative management of the patient with pulmonary hypertension

11:30 am – 12:30 pm



Neurologic Complications Associated with Regional Anesthesia: Balancing Risk with Reward

James R. Hebl, MD, Mayo Clinic

- Discuss the incidence of neurologic complications associated with regional anesthesia
- Understand the risk factors associated with perioperative nerve injury
- Describe the diagnostic evaluation and management of postoperative neurologic deficits

Program Schedule

Wednesday | January 14

7:00 am – 12:30 pm **Registration**

7:00 am – 7:45 am **Breakfast**

7:00 am – 8:00 am **Case-Based Discussion: 12 Year-Old with Muscular Dystrophy for Emergency Appendectomy**

Linda J. Mason, MD, Loma Linda University Medical Center

- Define the challenges faced in providing anesthesia care to patients with muscular dystrophy
- Learn the anesthetic implications in patients with muscular dystrophy including a review of the underlying pathophysiology
- Review which drugs are safe in patients with muscular dystrophy

8:00 am – 9:00 am **Advances in the Management of Shock: Fluid Resuscitation and Hypovolemic Shock**



Ronald G. Pearl, MD, Stanford University, School of Medicine

- Discuss the risks and benefits of different solutions (crystalloids, colloids, and blood) for fluid resuscitation
- Discuss an evidence-based approach to guide the intensity of volume administration in surgical and critically ill patients
- Recognize common complications associated with inadequate and excessive fluid administration

9:00 am – 10:00 am **The Changing Scope of Difficult Airway Management**



Warren S. Sandberg, MD, PhD, Vanderbilt University

- Review airway management related morbidity and mortality over time and relate this to changes in airway management technology and cognitive tools
- Review controversies in airway management approaches
- Review inventory currently available and emerging cognitive aids related to difficult airway assessment and management

10:00 am – 10:30 am **Exhibitor Break**

10:30 am – 11:30 am **Is Surgery Safe for My Baby? – Anesthesia and Neurotoxicity on the Developing Brain – An Update**

Linda J. Mason, MD, Loma Linda University Medical Center

- Discuss the animal data demonstrating negative effects of anesthetics on the developing brain
- Discuss the current knowledge regarding the possible negative effect of anesthetics on the developing brain in humans
- Discuss the areas of research to elucidate the effect of anesthetics on the developing brain
- Discuss the ethical issues of not providing anesthetic care to infants
- Understand and be able to advise parents about their child's impending surgery and anesthetic when asked about the effects of anesthesia on their child

11:30 am – 12:30 pm **Can Depth of Anesthesia Monitoring Alter the Incidence of Mortality, POCD or Delirium?**



John C. Drummond, MD, FRCPC, University of California, San Diego

- Discuss of the data supporting the notion that excessively deep anesthesia, independent of adverse hemodynamic effect, is a cause of post-operative morbidity and mortality
- Discuss of the data supporting the notion that excessively deep anesthesia is a cause of Postoperative Cognitive Dysfunction (POCD)
- Discuss the relationship between depth of anesthesia and postoperative delirium
- Apply depth of anesthesia monitoring selectively with the possibility of reducing post operative delirium

Program Schedule

Thursday | January 15

7:00 am – 12:30 pm **Registration**

7:00 am – 7:45 am **Breakfast**

7:00 am – 8:00 am **Case-Based Discussion: The Trauma Patient with Head Injury**

John C. Drummond, MD, FRCPC, University of California, San Diego

- Describe the variables that determine the selection of airway management techniques in head-injured patients
- Understand the principles that determine the contemporary use of hyperventilation in the setting of neuroanesthesia
- Understand the principles that determine what constitutes an appropriate cerebral perfusion pressure
- Describe anesthetic techniques that avoid aggravation of the injury already caused by the TBI event, i.e., "Second insult"

8:00 am – 9:00 am **Ultrasound-Guided Regional Anesthesia: Let Vision Guide You**

James R. Hebl, MD, Mayo Clinic



- Describe the physics of ultrasound and its application relative to ultrasound-guided regional anesthesia
- Understand the sonoanatomy associated with upper and lower extremity ultrasound-guided peripheral nerve blocks
- Understand the clinical benefits of ultrasound-guided regional anesthesia

9:00 am – 10:00 am **Basics of Quality Improvement: How & What to Measure and Common Pitfalls**

Warren S. Sandberg, MD, PhD, Vanderbilt University



- Select or define meaningful measurements that map to quality improvement objectives anesthesiologists and their patients should care about
- Understand and be able to employ simple time-series analyses of before & after quality improvement designs
- Have the conceptual tools to monitor important process and outcomes quality endpoints (For example: post-operative normothermia, pre-operative antibiotic administration success and wound infection rates) in their practices

10:00 am – 10:30 am **Exhibitor Break**

10:30 am – 11:30 am **Moving the Conversation: Improvement Projects Your Hospital Cares About and the Ones They Should Care About**

Warren S. Sandberg, MD, PhD, Vanderbilt University



- Distinguish between low-value and high-value quality improvement projects from patient- and health-system perspectives
- Articulate the economic value of meaningful patient care quality improvement exercises driven by anesthesiologists
- Develop and implement quality monitoring and outcomes improvement projects aimed at reducing major morbidity from high complexity surgery

11:30 am – 12:30 pm **Statin Physiology for Patients and Providers**

John C. Drummond, MD, FRCPC, University of California, San Diego

- Understand the physiologic basis of both the cholesterol related and "pleiotropic" effects of statins
- Understand the body of data arguing for a benefit of statin administration initiated in the preoperative period
- Understand the physiologic basis of and the evidence for the occurrence of a statin withdrawal syndrome, and the importance of avoid statin withdrawal
- Understand the strengths and weaknesses of the literature suggesting that statins may have a primary prevention effect relevant to even individuals without significant risk factors for vascular disease
- Understand the known and suspected adverse effects of statins
- Discuss the potential relevance of lipophilicity vs. hydrophilicity on the adverse effect profile of statins

Program Schedule

Friday | January 16

7:00 am – 12:30 pm **Registration**

7:00 am – 7:45 am **Breakfast**

7:00 am – 8:00 am **Case-Based Discussion: The Perioperative Surgical Home: Is It Different from a Well-Run Anesthesiology Practice?**

Warren S. Sandberg, MD, PhD, Vanderbilt University

- Articulate the financial imperatives to facilitate timely, safe, satisfied and durable discharge for all surgical inpatients
- Evaluate learning-group generated proposals to speed patient progress through the perioperative and postoperative care environments
- Recognize and manage common safety pitfalls in high-throughput perioperative environments

8:00 am – 9:00 am **The Future of Anesthesia - What We All Need to Be Worrying About**

Warren S. Sandberg, MD, PhD, Vanderbilt University



- Describe the relationship between healthcare cost vs. GDP per capita over time
- Interpret the concept of disruptive innovation as it applies to healthcare generally and anesthesiology specifically
- Evaluate future potentially disruptive forces acting on anesthesiology
- Formulate a personal plan for responding to market force pressures and innovation that creates anesthesiologist value by leading and contributing to perioperative patient safety initiatives

9:00 am – 10:00 am **Pitfalls & Problems in Pediatric Anesthesia (How to Stay Out of Trouble)**

Linda J. Mason, MD, Loma Linda University Medical Center



- Discuss the avoidance of the most common major causes of morbidity and mortality in pediatric anesthesia
- Discuss current etiologies of anesthesia-related cardiac arrest in pediatric patients
- Describe prevention strategies for anesthesia-related cardiac arrest

10:00 am – 10:15 am **Exhibitor Break**

10:15 am – 11:15 am **Low-Dose Ketamine and Perioperative Analgesia: Is it the Answer?**

James R. Hebl, MD, Mayo Clinic

- Understand the analgesic mechanism of ketamine in the treatment of postoperative pain
- Discuss potential treatment strategies and the clinical benefits of low-dose ketamine
- Describe the use of low-dose ketamine as a rescue adjuvant in the postanesthesia care unit (PACU)

11:15 am – 12:15 pm **Advances in the Management of Shock: Cardiogenic Shock and Septic Shock**

Ronald G. Pearl, MD, Stanford University School of Medicine



- Discuss the current approach to management of the patient with cardiogenic shock
- Discuss the current approach to management of the patient with septic shock
- Recognize common complications associated with inappropriate management of cardiogenic and septic shock

General Information

Hotel Accommodations

The CSA Winter Anesthesia Conference will be held at:
The Fairmont Kea Lani, Maui, Hawaii
4100 Wailea Alanui Drive
Maui, Hawaii, United States 96753

For reservations, please click the link below:

<https://resweb.passkey.com/go/anesthesiologists2014>

Ground Transportation – Rental Car

CSA is pleased to offer you a corporate rate with Avis Rent a Car. Please refer to AWD number D010017 when making your reservation. Call 800-331-1600 or go online to avis.com.

How To Register

Register by either of the following methods:

- Online – Visit www.csahq.org/cme
- By Phone – Call us at 650-345-3020



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