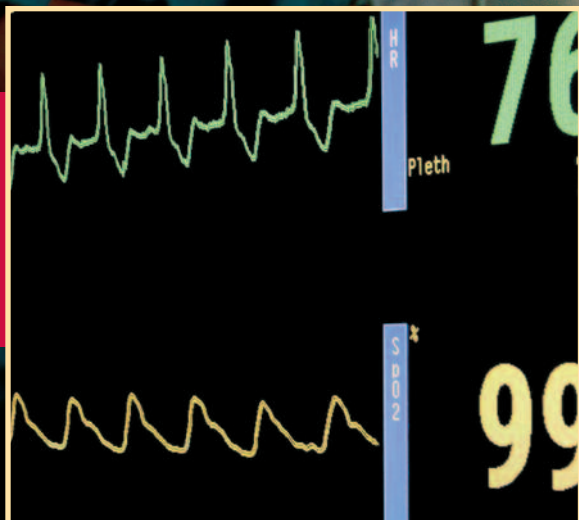


# Stanford 23<sup>rd</sup> Annual Anesthesia Update

February 14-19, 2010

Big Sky Resort  
Big Sky, Montana



*A Continuing Medical Education Conference  
Presented by the Department of Anesthesia at  
Stanford University School of Medicine  
and Stanford Hospital & Clinics*

*Sponsored by the Stanford University School of Medicine*



**STANFORD**  
SCHOOL OF MEDICINE

*Stanford University Medical Center*

# Program (subject to change)

## Saturday, February 13, 2010

5:00 p.m.-7:00 p.m. **Registration**

## Sunday, February 14, 2010

- 6:55 a.m. **Welcome**  
Mackey and Patterson
- 7:00 a.m. **Clinical Forum (Case Presentations)**  
Rosenthal (Panel: Culley, Patterson, Pearl)
- 7:50 a.m. **Airway Management in the Morbidly Obese Patient**  
Collins
- 8:40 a.m. **Update on Mechanical Ventilation in the Operating Room and in the ICU**  
Pearl
- 9:25 a.m. **Adjourn**
- 3:30 p.m. **Afternoon Refreshments**
- 4:00 p.m. **Managing Common (and Uncommon) Anesthesia Events**  
Weinger
- 4:50 p.m. **Pharmacogenetics in Anesthesia**  
Kharasch
- 5:40 p.m. **The Perioperative Patient on Chronic Opioids**  
Mackey
- 6:30 p.m. **Adjourn**
- 7:00 p.m. **Welcome Reception**

## Monday, February 15, 2010

- 7:00 a.m. **The Challenges of Complex Regional Pain Syndrome**  
Mackey
- 7:50 a.m. **Post-operative Delirium**  
Culley
- 8:40 a.m. **Medical Technology: Help or Hindrance?**  
Weinger
- 9:25 a.m. **Adjourn**
- 3:30 p.m. **Afternoon Refreshments**
- 4:00 p.m. **Regional Anesthesia and the Progress of Labor**  
Collins
- 4:50 p.m. **New Drugs in Anesthesia**  
Kharasch
- 5:40 p.m. **Clinical Forum (Case Presentations)**  
Rosenthal (Panel: Kharasch, Patterson, Pearl)
- 6:30 p.m. **Adjourn**

## Tuesday, February 16, 2010

- 7:00 a.m. **Cervical Spine Injury**  
Culley
- 7:50 a.m. **Evaluating Hemodynamic Status Using Echocardiography**  
Patterson
- 8:40 a.m. **Advanced Airway Management Techniques**  
Collins
- 9:25 a.m. **Adjourn**
- 3:30 p.m. **Afternoon Refreshments**
- 4:00 p.m. **The Risks of Post-operative Parenteral Opioids**  
Weinger

- 4:50 p.m. **Mixing Pharmacology and Obstructive Sleep Apnea**  
Kharasch
- 5:40 p.m. **Ultrasound-guided Regional Anesthesia in Children: Seeing is Believing!**  
Suresh
- 6:30 p.m. **Adjourn**

## Wednesday, February 17, 2010

- 7:00 a.m. **Pre-operative Preparation of the Pediatric Patient**  
Suresh
- 7:50 a.m. **Anesthesia Patient Safety**  
Weinger
- 8:40 a.m. **Clinical Forum (Case Presentations)**  
Rosenthal (Panel: Collins, Mackey, Weinger)
- 9:25 a.m. **Adjourn**

## Thursday, February 18, 2010

- 7:00 a.m. **Trauma in Children**  
Suresh
- 7:50 a.m. **Regional Anesthesia for Obstetrics: Strategies for Success in Technically Difficult Circumstances**  
Collins
- 8:40 a.m. **Anesthesia-induced Neurotoxicity and Post-operative Cognitive Dysfunction**  
Culley
- 9:25 a.m. **Adjourn**
- 3:30 p.m. **Afternoon Refreshments**
- 4:20 p.m. **Anesthesia in the Wild Kingdom: How to Anesthetize a 400 lb. Gorilla and Live to Talk about It**  
Mihm
- 5:30 p.m. **Cardiac Risk of Non-cardiac Surgery: The Latest**  
Eagle
- 6:30 p.m. **Adjourn**

## Friday, February 19, 2010

- 7:00 a.m. **Sedation in Children: Can This be Delivered Safely?**  
Suresh
- 8:00 a.m. **Clinical Forum (Case Presentations)**  
Rosenthal (Panel: Collins, Mihm, Suresh)
- 9:00 a.m. **Break**
- 9:15 a.m. **Clinical Forum (Case Presentations)**  
Mackey (Panel: Collins, Culley, Patterson)
- 11:00 a.m. **Adjourn**

**Opportunities for Q&A will be provided at the conclusion of each presentation.**

# Faculty

## Symposium Co-Chairs:

**Sean Mackey, MD, PhD**  
Associate Professor, Department of Anesthesia Chief, Division of Pain Management  
Stanford University School of Medicine

**Andrew J. Patterson, MD, PhD**  
Associate Professor, Department of Anesthesia  
Stanford University School of Medicine

## Faculty:

**Jeremy Collins, MD**  
Clinical Assistant Professor, Department of Anesthesia  
Stanford University School of Medicine

**Deborah J. Culley, MD**  
Assistant Professor, Anesthesiology, Perioperative and Pain Medicine  
Harvard Medical School

**Kim A. Eagle, MD, MACC**  
Albion Walter Hewlett Professor of Internal Medicine  
Chief of Clinical Cardiology  
Director of the Cardiovascular Center  
University of Michigan Health System

**Evan D. Kharasch, MD, PhD**  
Russell D. and Mary B. Sheldon Professor of Anesthesiology  
Director, Division of Clinical and Translational Research  
Department of Anesthesiology  
Professor of Biochemistry and Molecular Biophysics  
Washington University in St. Louis

**Frederick G. Mihm, MD**  
Professor, Department of Anesthesia  
Stanford University School of Medicine

**Ronald G. Pearl, MD, PhD**  
Richard K. and Erika N. Richards Professor  
Chair, Department of Anesthesia  
Stanford University School of Medicine

**Myer Rosenthal, MD**  
Emeritus Professor, Departments of Anesthesia, Medicine, and Surgery  
Stanford University School of Medicine

**Santhanam Suresh, MD, FAAP**  
Professor, Departments of Anesthesiology and Pediatrics, Northwestern University  
Director, Pain Management Services  
Director of Research  
Children's Memorial Hospital

**Matthew B. Weinger, MD, MS**  
Professor of Anesthesiology, Biomedical Informatics, and Medical Education  
Vanderbilt University School of Medicine  
Senior Staff Physician, Geriatric Research Education and Clinical Center (GRECC)  
VA Tennessee Valley Healthcare System

**Faculty Disclosure:** The Stanford University School of Medicine and Stanford Hospital & Clinics adhere to ACCME Essential Areas, Standards, and Policies regarding industry support of continuing medical education. Disclosure of faculty and commercial relationships will be made prior to the activity. Speakers are required to openly disclose any limitations of data and/or any discussion of any off-label, experimental, or investigational uses of drugs or devices in their presentations.



# Conference Overview

## Statement of Need

Anesthesiology is a medical specialty which requires that physicians maintain license certification. ACGME Maintenance of Certification core competencies for quality patient care include:

- Patient Care
- Medical Knowledge
- Interpersonal and Communication Skills
- Professionalism
- Systems-based Practice
- Practice-based Learning and Improvement.

Anesthesiologists are required to complete 250 hours of AMA PRA Category 1 accredited education towards maintenance of certification. This conference contributes to this requirement.

Consistent with the national focus on healthcare quality, Anesthesiologists and Nurse Anesthetists are tasked with implementing the most comprehensive, up-to-date, evidence-based information on the administration of anesthesia to patients undergoing a variety of procedures. These clinical updates will be provided to the *23rd Annual Anesthesia Update* participants.

## Target Audience

This course is designed to meet the educational needs of an international audience of anesthesiologists and nurse anesthetists.

## Learning Objectives

At the conclusion of this educational activity, participants should be able to:

- Assess volume status and cardiac function using echocardiography and metabolic analysis for optimal management of patients undergoing anesthesia.

- Evaluate patients at risk for difficult intubation or ventilation and utilize fiber optic bronchoscopes and videolaryngoscopes for shortened duration of endotracheal intubation.
- Utilize lower tidal volumes and both pressure and volume modes of ventilation intraoperatively to avoid aggravating lung injury in patients with sepsis and acute lung injury undergoing anesthesia.
- Assess the risk associated with common and uncommon anesthesia events in the non-OR setting.
- Evaluate patients at high risk for adverse events due to anesthetic agents and select best pharmacologic therapies based on genetic predisposition and risk factors including obstructive sleep apnea.
- Employ a multimodal pain management strategy for patients chronically using opioids.
- Apply a multidisciplinary approach to patients with complex regional pain syndromes, including the use of new pharmaceutical agents.
- Apply techniques for prevention of post-operative neurotoxicity and cognitive dysfunction and management of post-operative dementia.
- Employ technology shown to improve safety and enhance the anesthesiologist's ability to provide quality medical care.
- Utilize adequate analgesia throughout labor using appropriate concentrations of epidurally administered local anesthetic and adjunctive agents.
- Evaluate pediatric patients based on identified risk factors, and utilize appropriate technologies to provide optimal care.
- Apply current ACC/AHA guidelines for cardiovascular risk stratification for patients undergoing non-cardiac surgery.

## Accreditation

The Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

## Credit Designation

Stanford University School of Medicine designates this educational activity for a maximum of 24.50 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## California Board of Registered Nursing

Lucile Packard Children's Health Services at Stanford Hospital and Clinics is approved by the California Board of Registered Nursing (Provider Number CEP 12570) to provide continuing education for Nurses. This course is approved for 29.00 contact hours.

## American Association of Nurse Anesthetists

This program is approved by the American Association of Nurse Anesthetists for 25 CE credits; Code 32208, Expiration date 2/19/10

## Conference Location

**Big Sky Resort**, P.O. Box 160001, 1 Lone Mountain Trail Big Sky, Montana 59716  
(800) 548-4486 [www.bigskyresort.com](http://www.bigskyresort.com)

## Commercial Support Acknowledgement

This CME activity is not supported by educational grants.

# Enrollment Application

## Stanford 23rd Annual Anesthesia Update February 14-19, 2010

Please register early – hotel and conference space are limited. Registration fee includes welcome reception, Continental breakfasts with course faculty, refreshment breaks, course materials, and certificate of attendance. Tuition may be paid by check, Visa, AmEx or MasterCard.

**Cancellation Policy:** Refunds must be requested in writing by **January 15, 2010**, and will be subject to a \$75 administrative fee. No refunds will be made on cancellations received after that date. Program materials cannot be guaranteed unless enrollment is received by **January 15, 2010**. Stanford University School of Medicine reserves the right to cancel this program; in the event of cancellation, course fees will be fully refunded.

Please type or print:

NAME/DEGREE \_\_\_\_\_

SPECIALTY \_\_\_\_\_

MEDICAL LICENSE NUMBER (REQUIRED FOR CME CREDIT) \_\_\_\_\_

AFFILIATION \_\_\_\_\_


STREET ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

DAYTIME PHONE \_\_\_\_\_ EVENING PHONE \_\_\_\_\_

EMAIL ADDRESS \_\_\_\_\_ FAX \_\_\_\_\_

EMERGENCY CONTACT NAME \_\_\_\_\_ PHONE \_\_\_\_\_

 Stanford Hospital & Clinics is fully ADA compliant. If you have needs that require special accommodations, including dietary concerns, please contact [bpannoni@stanfordmed.org](mailto:bpannoni@stanfordmed.org) or (650) 724-7166, before January 15, 2010.

## Registration Fees

Early registration must be postmarked or faxed by January 15, 2010

	Early Bird Discount	After January 15, 2010	At Door
Physician/Nurse Anesthetist	<input type="checkbox"/> \$745	<input type="checkbox"/> \$845	<input type="checkbox"/> \$895
Resident, Student or Fellow	<input type="checkbox"/> \$490	<input type="checkbox"/> \$590	<input type="checkbox"/> \$640

**Family Registration** – includes daily breakfast, afternoon refreshments and reception: \$150

## Family Members:

Name \_\_\_\_\_ Child Age \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

CARD NUMBER \_\_\_\_\_ EXPIRATION DATE \_\_\_\_\_

PRINTED NAME (AS IT APPEARS ON CARD) \_\_\_\_\_ 3 DIGIT SECURITY CODE \_\_\_\_\_

CARDHOLDER'S SIGNATURE \_\_\_\_\_

## Mail application and payment to:

### Stanford Center for Continuing Medical Education

Attn: Lindsay Hovakimian

701 A Welch Road, Suite 2207, Palo Alto, CA 94304

Phone: (650) 497-8554 • FAX: (650) 497-8585 • Email: [lindsay\\_hovakimian@stanford.edu](mailto:lindsay_hovakimian@stanford.edu)

**Tell a friend...for an online brochure, go to [www.cme.stanfordhospital.com](http://www.cme.stanfordhospital.com)**

# Stanford 23<sup>rd</sup> Annual Anesthesia Update

February 14-19, 2010  
Big Sky Resort  
Big Sky, Montana

Sponsored by



Stanford University Medical Center

## Stanford Center for Continuing Medical Education

701 A Welch Road, Suite 2207, MC 5753  
Palo Alto, CA 94304

Phone: (650) 497-8554  
Fax: (650) 497-8585  
www.cme.stanfordhospital.com

NON-PROFIT  
ORGANIZATION  
U.S. POSTAGE PAID  
PALO ALTO, CA  
PERMIT NO. 188

## Hotel Information & Faculty

### Big Sky Resort

Big Sky Resort is located in Southwestern Montana, just north of Yellowstone and Grand Teton National Parks. Situated 50 miles from Bozeman's Gallatin Field Airport (BZN).

### Ground Transportation

Karst Stage and 4x4 Stage are the only ground transportation providers in the Bozeman Airport. Visit [www.karststage.com](http://www.karststage.com) or phone (800) 287-4759.

For driving directions from Gallatin Field, visit: [www.bigskysort.com/Vacation-Planner/Driving-Directions.asp](http://www.bigskysort.com/Vacation-Planner/Driving-Directions.asp)

### Accommodations

A block of rooms is being held for conference participants. A variety of lodging options are available at Big Sky Resort. Huntley Lodge and Shoshone Condominium Hotel both adjoin the Yellowstone Conference Center where the meeting will be held. The following table gives sample conference rates. *Rooms at these special rates have been reserved for attendees on a first-come, first-served basis and may sell out before the cut-off date.* By staying at the host hotel, you assist Stanford University School of Medicine in meeting its contractual obligation with the hotel and in keeping future registration rates reasonable. Please contact the hotel directly at **(800) 548-4486** to make reservations. To receive the group rate, indicate that you are attending the Stanford University School of Medicine 23<sup>rd</sup> Annual Anesthesia Update. Big Sky Resort reserves the right to close the room block 30 days before the conference. Group rates

apply to any pre- or post-conference nights booked by our attendees. For detailed hotel information visit: [www.bigskysort.com](http://www.bigskysort.com)

Rooms	Occupancy	Group Rate/night
Huntley Lodge First Class	1-4	\$203-278
Huntley Lodge Loft	1-6	\$265-415
Shoshone 1 BR Suites	4	\$354
Shoshone 1 BR Lofts	6	\$454
Village Center Studio	1-2	\$223-248
Summit Hotel (studio or room)	1-4	\$234-349
Summit Hotel/Condo 1 BR	2-6	\$492
Summit Hotel/Condo 2 BR	4-8	\$633
Summit Hotel/Condo 3 BR	6-10	\$886
Bighorn Condo 3 BR	6-8	\$463

Group rates do not include tax and service fees.

### Other Activities

For information on local activities, please visit [www.bigskysort.com](http://www.bigskysort.com) or phone the hotel concierge at (406) 995-5806.

For questions about the symposium, please contact Barbara Pannoni, CME Coordinator, Stanford Center for Continuing Medical Education at (650) 724-7166 or email [bpannoni@stanfordmed.org](mailto:bpannoni@stanfordmed.org).

Symposium website: [www.anesupdate.org](http://www.anesupdate.org)

### Some comments from our past attendees:

*"Wonderful conference. Very educational and pertinent to improving my practice. I plan on returning for future conferences!"*

*"Well balanced, quality presentations, enjoyable atmosphere. By far the best meeting I've attended."*

*"I found the course stimulating, informative and relevant. Excellent caliber of speakers and subjects."*

