

# PEDIATRIC ANESTHESIOLOGY

A meeting co-sponsored by the Society for Pediatric Anesthesia and the American Academy of Pediatrics Section on Anesthesiology and Pain Medicine

**March 14 - 17, 2013**

Red Rock Casino, Resort & Spa  
Las Vegas, NV

# 2013



PLEASE VISIT [WWW.PEDSANESTHESIA.ORG](http://WWW.PEDSANESTHESIA.ORG) FOR PROGRAM UPDATES AND REGISTRATION INFORMATION!

**Society for Pediatric Anesthesia**



education • research • patient safety

American Academy  
of Pediatrics



# Welcome to Pediatric Anesthesiology 2013!

This year's Pediatric Anesthesiology meeting will be held in conjunction with the American Academy of Pediatrics Section on Anesthesiology and Pain Medicine at the Red Rock Resort in Las Vegas, Nevada, March 14th-17th, 2013.

As Program Chair, and on behalf of the Program Co-Chairs, Dr. Genie Heitmiller (Workshop Coordinator), Dr. Samuel Wald (PBLD Coordinator), and Dr. Carolyn Bannister (AAP Section Head), I would like to extend a warm welcome to you all. The meeting will provide the framework for attendees to participate in thought-provoking discussions with acclaimed experts in childhood obesity, pediatric ethics, simulation, neural monitoring, and patient safety. The program offers participants the opportunity to earn up to 17.5 CME credits for the SPA meeting. Attendees who register for special workshops, problem based learning discussions (PBLDs), and/or the Special Interest Group-Pediatric Pain Medicine meeting on Thursday (all at additional cost), can earn up to a maximum of 32 CME credits.

We have incorporated many suggestions from feedback received last year that have metamorphosed into new workshops, sessions on ethics and patient safety, and lectures with usable 'take home' messages. The scope of the meeting ensures a plethora of networking opportunities with colleagues from around the world in a beautiful desert resort setting, enhanced by the many attractions of Las Vegas.

Three SPA workshops (advanced ultrasound, junior faculty, and a new workshop for Clinical Competence Committee members) are scheduled for Thursday in addition to the SIGPPM meeting and the Congenital Cardiac Anesthesia Society (CCAS) meeting. In addition to the regular core workshops (airway, ultrasound, echocardiography), other workshop offerings include those pertaining to medical missions, investigation of adverse events, acupuncture, single-lung techniques, giving feedback, scientific writing, advanced peripheral vascular access, writing and moderating PBLDs, epidemiology, and early and late-career financial planning.

The general sessions begin on Friday after PBLDs, which have been adjusted to a more favorable jetlag-friendly time. The first session begins by exploring the anesthetic and surgical challenges of Childhood Obesity, a problem of increasing national significance. Following this, an interactive discussion on Pediatric Ethical Dilemmas led by renowned experts in the field will involve robust audience participation and lively debate. This is followed by the Robert M. Smith award presentation, and the AAP Advocacy lecture entitled Childhood Obesity, which will be given by Dr. Thomas Robinson, Endowed Professor in Child Health, and Professor of Pediatrics and Medicine, Stanford University. The afternoon session will be on Simulation for Maintenance of Certification in Anesthesiology (MOCA) that has been designed to recreate for the audience the content and scope of a typical



**Kirk Lalwani, MD, FRCA, MCR**  
*Program Chair*

MOCA simulation experience that is required of all MOCA participants. The final Friday session encompasses refresher course lectures on Cardiomyopathy, and Tips, Tricks and Adjuvants for Pediatric Patient Controlled Analgesia Management.

Saturday morning begins with a session on Frontiers in Pediatric Neuroanesthesia featuring talks on the latest developments in Intraoperative Brain Mapping, Perioperative Management of Craniostomosis, and Intraoperative Neural Monitoring. The second session is dedicated to the oral abstract presentations and awards, and the improved walk around digital poster discussions. Next, the AAP Ask the Experts Panel sponsored this year by the Children's Hospitals of Cincinnati, Arkansas, and Texas, features the anesthetic

management of children with pulmonary, hepatic and renal disease, respectively. The afternoon session focuses on The Role of Technology in Patient Safety and will be delivered by Dr. Matthew Weinger, Director of the Center for Research in Systems Safety at Vanderbilt. Finally, the Refresher Course Lectures emphasize practical 'take home messages' for an uncommon condition in The Pathophysiology and Anesthetic Implications of Mitochondrial Diseases, and for everyday anesthetic care in Evidence-based Management of Acute Intraoperative Emergencies in Children.

The general sessions are followed by the afternoon PBLDs with wine and cheese, back by popular demand from last year! The evening is highlighted by a special 'meet and greet' reception for younger faculty and fellows ('The Young Turks') with short presentations by key SPA leaders to encourage participation in SPA activities, to identify the next generation of SPA leaders. This reception is for fellows and faculty within 10 years of graduation, and requires advance free registration.

Sunday kicks off with PBLDs, followed by 'Editors' Best Picks' highlighting key research papers from Anesthesiology, Anesthesia and Analgesia, and Pediatric Anesthesia, followed by the ever popular Jeopardy, led by our inimitable host, Dr. Myron Yaster.

As I complete my service as Program Chair, I would like to extend my sincere gratitude to all those who helped assemble this program; the SPA Education Committee for suggestions and PBLD reviews, Dr. Genie Heitmiller for workshops, Dr. Sam Wald for PBLDs, Dr. Nancy Glass for her invaluable advice and leadership, Dr. Carolyn Bannister and Dr. Joe Tobias for assistance with the AAP Advocacy Lecture and Ask the Experts speakers, and the SPA Administrative staff, particularly Kim Battle and Stewart Hinckley for their tireless and expert management of the logistics of planning a meeting as big as this.

I leave you to ponder one of my favorite "Fischerisms" by Dr. Martin H. Fischer: "Knowledge is a process of piling up facts; wisdom lies in their simplification."

I hope you enjoy the meeting.

# Meeting Information

## Education Mission Statement

The annual Winter/Spring Meeting will focus on topics of interest to those who provide anesthesia, sedation, pain management, and critical care services to infants and children. The overall goals for attendees of the program are to reinforce and enhance their existing fund of knowledge, and to introduce them to new and state-of-the-art techniques and information that affect their practice and improve the perioperative/critical care of pediatric patients.

## Scope & Types of Activities

The program brings together experts from clinical and basic science disciplines related to pediatric medicine, anesthesia, and surgery. General topic areas include anatomy, pathophysiology, anesthetic pharmacology, sedation, pain management, patient safety, and child advocacy. We will also discuss practice and career management issues. The presentation format is varied, and includes lectures and refresher courses, panel discussions, hands-on workshops and problem-based learning discussions. Additionally, an important part of the program is the presentation of new clinical and basic science research in oral and moderated poster-discussion forums. Significant attendee involvement and feedback are encouraged in all aspects of the program, and will be facilitated by the use of real time computerized audience polling as well as sessions where the audience directly participates in case discussions. Program content is, in fact, the direct result of membership input and extensive audience polling at prior meetings.

## Target Audience

This program is intended for anesthesiologists and other practitioners who care for children in their practice of anesthesiology and/or critical care. It is also intended for clinical and basic science researchers whose areas of investigation relate to pediatric anesthesia.

## Accreditation & Designation

**SPA/AAP Program:** The Society for Pediatric Anesthesia is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Society for Pediatric Anesthesia designates this Live activity for a maximum of 32 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**Special Interest Group – Pediatric Pain Medicine:** The Society for Pediatric Anesthesia is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Society for Pediatric Anesthesia designates this Live activity for a maximum of 7.5 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## Americans With Disabilities Act (ADA)

The Society for Pediatric Anesthesia has fully complied with the legal requirements of the ADA and the rules and regulations thereof. If any participant in this educational activity is in need of accommodations, please contact SPA at (804) 282-9780 by March 1, 2013 in order to receive service.

## Hotel Information

Red Rock Casino, Resort & Spa represents the pinnacle in Las Vegas casino resort hotels. Red Rock offers guests an idyllic getaway at the top of one of America's most vibrant cities. Ideally situated at the entrance to Red Rock Canyon and minutes from the world-renowned Las Vegas Strip, you couldn't ask for a more exciting place to play, both indoors and out.



# Faculty

**Claude Abdallah, MD**  
Children's National Medical Center  
Washington, DC

**Farzana Afroze, MD**  
Albany Medical Center  
Albany, NY

**Rita Agarwal MD, FAAP**  
The University of Colorado  
Anschutz Medical Campus  
Aurora, CO

**Warwick A. Ames, MBBS FRCA**  
Duke University Medical Center  
Durham, NC

**Corrie T.M. Anderson, MD**  
Seattle Children's Hospital  
Seattle, WA

**Mari K Baldwin, MD FAAP**  
St. Lukes-Roosevelt Hospital  
New York, NY

**Carolyn F. Bannister, MD, FAAP**  
Emory University  
Atlanta, GA

**Kumar Belani, MD**  
University of Minnesota Amplatz Children's  
Hospital  
Minneapolis, MN

**Charles B. Berde, MD, PhD**  
Boston Children's Hospital  
Boston, MA

**Tarun Bhalla, MD**  
Nationwide Children's Hospital  
Columbus, OH

**Sally Bitzer, MD**  
Johns Hopkins Children's Center  
Baltimore, MD

**Charles P. Boinske, CFA**  
Investment Advisors, LLC  
Wayne, PA

**Harry Bonet, MD, PhD**  
Shriners Hospital for Children  
Philadelphia, PA

**Adrian Bosenberg, MB, ChB, FFA**  
Seattle Children's Hospital  
Seattle, WA

**Edwin A. Bowe, MD**  
University of Kentucky College of Medicine  
Lexington, KY

**Tiffany Brainerd, MD**  
Boston Children's Hospital  
Boston, MA

**B. Randall Brenn, MD**  
A.I. duPont Hospital for Children  
Wilmington, DE

**Thomas M. Burch, MD**  
Boston Children's Hospital  
Boston, MA

**Christie D. Burnett-Yarnell, MD**  
Arkansas Children's Hospital  
Little Rock, AR

**Gerald A Bushman, MD**  
Children's Hospital Los Angeles  
Los Angeles, CA

**Neal Campbell, MD**  
Children's Hospital of Pittsburgh  
Pittsburgh, PA

**Nicholas P. Carling, MD**  
Texas Children's Hospital  
Houston, TX

**Chandra J. Castro, MD**  
University of Minnesota Amplatz Children's  
Hospital  
Minneapolis, MN

**Dante Cerza, MD**  
Children's Hospital of Philadelphia  
Philadelphia, PA

**Vidya Chidambaran, MD**  
Cincinnati Children's Hospital  
Cincinnati, OH

**Kelly Chilson, MD**  
Texas Children's Hospital  
Houston, TX

**Jerry Chao, MD**  
Children's Hospital at Montefiore, Monte-  
fiore Medical Center  
New York, NY

**Ellen Choi, MD**  
Ronald Reagan UCLA Medical Center  
Los Angeles, CA

**Dinesh Choudhry MD, DA, FRCA**  
A.I. duPont Hospital for Children  
Wilmington, DE

**Jacob Christensen, MD**  
St. Louis Children's Hospital  
St. Louis, MO

**Hyun Kee Chung, MD**  
Boston Children's Hospital  
Boston, MA

**Franklyn P. Cladis, MD**  
Children's Hospital of Pittsburgh  
Pittsburgh, PA

**Ira Todd Cohen, MD, MEd, FAAP**  
Children's National Medical Center  
Washington, DC

**Charles J. Coté, MD, FAAP**  
Massachusetts General Hospital  
Boston, MA

**Thomas E. Cox, MD**  
St. Louis Children's Hospital  
St. Louis, MO

**Giovanni Cucchiario, MD**  
Children's Hospital Los Angeles  
Los Angeles, CA

**Priti Dalal, MD, FRCA**  
Penn State Hershey Medical Center  
Hershey, PA

**Peter J. Davis, MD**  
Children's Hospital of Pittsburgh  
of UPMC  
Pittsburgh, PA

**Divya Dixit, MD**  
Al duPont Hospital for Children  
Wilmington, DE

**Jayant K. Deshpande, MD, MPH, FAAP**  
Arkansas Children's Hospital  
Little Rock, AR

**Nina Deutsch, MD**  
Children's National Medical Center  
Washington, DC

**Christina Diaz, MD**  
Medical College of Wisconsin/  
Children's Hospital  
Milwaukee, WI

**Jennifer Dillow, MD, FAAP**  
The Children's Hospital of New Mexico  
Albuquerque, NM

**James A. DiNardo, MD**  
Boston Children's Hospital  
Boston, MA

**Andrea Dutoit, MD**  
University of Oklahoma Health  
Sciences Center  
Oklahoma City, OK

**Herodotos Ellinas, MD, FAAP**  
Children's Hospital of Wisconsin  
Milwaukee, WI

**Ruba Elmaoued, MD**  
Upstate Medical Hospital  
Syracuse, NY

**James J. Fehr, MD**  
Washington University in St. Louis  
St. Louis, MO

**Allison M. Fernandez, MD**  
Johns Hopkins Children's Center  
Baltimore, MD

**John Fiadjoe, MD**  
Children's Hospital of Philadelphia  
Philadelphia, PA

**Quentin Fisher, MD, FAAP**  
Walter Reed Army Medical Center  
Bethesda, MD

**Sean Flack, MBChB FCA DA**  
Seattle Children's Hospital  
Seattle, WA

**Alia Fox, MD**  
Duke University Medical Center  
Durham, NC

**Andrew Franklin, MD**  
Monroe Carell Jr. Children's Hospital at  
Vanderbilt  
Nashville, TN

**Paul J. Fronapfel, MD**  
Presbyterian Anesthesia Associates  
Charlotte, NC

**Jeffrey L. Galinkin, MD, FAAP**  
The University of Colorado  
Anschutz Medical Campus  
Aurora, CO

**Monica S. Ganatra, MD, MPH**  
Yale University School of Medicine  
New Haven, CT

**Arjunan Ganesh, MBBS**  
Children's Hospital of Philadelphia  
Philadelphia, PA

**Priscilla J. Garcia, MD**  
Texas Children's Hospital  
Houston, TX

**Jessica George, MD**  
Johns Hopkins Children's Center  
Baltimore, MD

**Jaclyn Giannone, sCRNA**  
Thomas Jefferson University Hospital  
Philadelphia, PA

**Nancy Glass, MD, MBA, FAAP**  
Texas Children's Hospital  
Houston, TX

**Kenneth R. Goldschneider, MD, FAAP**  
Cincinnati Children's Hospital  
Cincinnati, OH

**Brenda Golianu, MD**  
Stanford University  
Stanford, CA

**Cheryl K. Gooden, MD, FAAP**  
Mount Sinai Medical Center  
New York, NY

**Shannon Grap, MD**  
Children's National Medical Center  
Washington, DC

**George A. Gregory, MD**  
University of California San Francisco  
San Francisco, CA

**Eliot Grigg, MD**  
Seattle Children's Hospital  
Seattle, WA

**Kendra Grim, MD**  
Mayo Clinic  
Rochester, MN

**Harshad Gurnaney, MBBS, MPH**  
Children's Hospital of Philadelphia  
Philadelphia, PA

**Charles M. Haberkern, MD, MPH**  
Seattle Children's Hospital  
Seattle, WA

**Manon Haché, MD**  
Morgan Stanley Children's Hospital of New  
York Presbyterian  
New York, NY

**Nancy Hagerman, MD**  
Cincinnati Children's Hospital  
Cincinnati, OH

**Dawit T. Haile, MD**  
Mayo Clinic  
Rochester, MN

**Raafat S. Hannallah, MD**  
Children's National Medical Center  
Washington, DC

# Faculty

**Courtney Hardy, MD**

Lurie Children's Hospital of Chicago  
Chicago, IL

**Carroll Mac Harmon, MD, PhD**

Children's of Alabama  
Birmingham, AL

**Tracy E. Harrison, MD**

Mayo Clinic  
Rochester, MN

**Stephen Robert Hays, MD, FAAP**

Vanderbilt University Medical Center  
Nashville, TN

**Eugenie S. Heitmiller, MD, FAAP**

Johns Hopkins Children's Center  
Baltimore, MD

**Rebecca Hong, MD**

University of Michigan  
Ann Arbor, MI

**Anita Honkanen, MD**

Stanford University  
Stanford, CA

**Constance S. Houck, MD, FAAP**

Boston Children's Hospital  
Boston, MA

**Elisabeth M. Hughes, MD**

Monroe Carell Jr. Children's Hospital at  
Vanderbilt  
Nashville, TN

**Agnes I. Hunyady, MD**

Seattle Children's Hospital  
Seattle, WA

**Narasimhan Jagannathan, MD**

Ann & Robert H. Lurie Children's Hospital  
of Chicago  
Chicago, IL

**Nathalia Jimenez, MD**

Seattle Children's Hospital  
Seattle, WA

**Richard Kaplan, MD**

Children's National Medical Center  
Washington, DC

**Rachel Koll, MD**

Cincinnati Children's Hospital  
Cincinnati, OH

**Todd J. Kilbaugh, MD**

Children's Hospital of Philadelphia  
Philadelphia, PA

**Sabine Kost-Byerly, MD, FAAP**

Johns Hopkins Children's Center  
Baltimore, MD

**Pete G. Kovatsis, MD**

Boston Children's Hospital  
Boston, MA

**Courtney Kowalczyk, MD**

Children's Medical Center Dallas/UT  
Southwestern  
Dallas, TX

**Elliot J. Krane, MD**

Stanford University  
Stanford, CA

**Anjana Kundu, MBBS, MD**

Seattle Children's Hospital  
Seattle, WA

**Kirk Lalwani, MD, FRCA, MCR**

Oregon Health Sciences University  
Portland, OR

**Michael Lamm, DO**

University of Illinois-Chicago  
Chicago, IL

**Greg Latham, MD**

Seattle Children's Hospital  
Seattle, WA

**John Lantos, MD**

Children's Mercy Hospitals & Clinics  
Kansas City, MO

**Charles Lee, MD**

Sunset Kaiser Permanente  
Los Angeles, CA

**Jerrold Lerman, MD, FRCPC**

Women & Children's Hospital  
of Buffalo  
Buffalo, NY

**J. Lance Lichtor, MD**

Yale University School of Medicine  
New Haven, CT

**Elaina Lin, MD**

Children's Hospital of Philadelphia  
Philadelphia, PA

**Yuan-Chi Lin, MD, MPH**

Boston Children's Hospital  
Boston, MA

**Rebecca Lintner, MD**

Children's Hospital at Montefiore, Monte-  
fiore Medical Center  
New York, NY

**Thomas Long, MD**

University of New Mexico  
Albuquerque, NM

**Per-Arne Lonnqvist, MD**

KS/AL Children's Hospital  
Stockholm, Sweden

**Lindsey Loveland, MD**

Medical College of Wisconsin  
Children's Hospital  
Milwaukee, WI

**M. Faith Lukens, MD**

University of Kentucky College  
of Medicine  
Lexington, KY

**Shobha Malviya, MD, FAAP**

University of Michigan/CS Mott Children's  
Hospital  
Ann Arbor, MI

**Glenn Mann, MD**

Montefiore Medical Center  
New York, NY

**Inna Maranets, MD**

University of Connecticut  
Medical School  
New Haven, CT

**Scott Markowitz, MD, FAAP**

The University of Colorado  
Anschutz Medical Campus  
Aurora, CO

**Timothy W. Martin, MD, MBA**

Arkansas Children's Hospital  
Little Rock, AR

**Maria Matuszczak, MD**

University of Texas  
Houston Medical Center  
Houston, TX

**Lynne Gerson Maxwell, MD, FAAP**

Children's Hospital of Philadelphia  
Philadelphia, PA

**John J. McCloskey, MD**

Children's Hospital of Philadelphia  
Philadelphia, PA

**Petra Meier-Haran, MD, DEAA**

Boston Children's Hospital  
Boston, MA

**Carrie Menser, MD**

Monroe Carell Jr. Children's  
Hospital at Vanderbilt  
Nashville, TN

**Wanda C. Miller-Hance, MD**

Texas Children's Hospital  
Houston, TX

**Constance Monitto, MD**

Johns Hopkins Children's Center  
Baltimore, MD

**Jeffrey P. Morray, MD**

Valley Anesthesiology Consultants, Ltd.  
Phoenix, AZ

**Aruna T. Nathan, MBBS, FRCA**

Children's Hospital of Philadelphia  
Philadelphia, PA

**Kimberly K. Nesbitt, MD**

Monroe Carell Jr. Children's  
Hospital at Vanderbilt  
Nashville, TN

**Julie G. Nyquist, PhD**

University of Southern California/Keck  
School of Medicine  
Los Angeles, CA

**Susumu Ohkawa, MD**

Columbia University Medical Center  
New York, NY

**Patrick N. Olomu, MD, FRCA**

Children's Medical Center  
Dallas, TX

**Tonya Palermo, PhD**

Seattle Children's Hospital  
Seattle, WA

**Uma Parekh, MD, FRCA**

Penn State Hershey Medical Center  
Hershey, PA

**Jerome Parness, MD, PhD**

Children's Hospital of Pittsburgh  
Pittsburgh, PA

**Amish Patel, MD**

All Children's Hospital  
St. Petersburg, FL

**Stacy Peterson, MD**

Medical College of Wisconsin/Children's  
Hospital  
Milwaukee, WI

**Joyce Phillips, MD, FAAP**

The Children's Hospital of New Mexico  
Albuquerque, NM

**Teeda Pinyavat, MD**

Morgan Stanley Children's Hospital  
of New York Presbyterian  
New York, NY

**David M. Polaner, MD, FAAP**

The University of Colorado  
Anschutz Medical Campus  
Aurora, CO

**George D. Politis, MD, MPH**

University of Virginia Medical Center  
Charlottesville, VA

**Robert W. Power, MD**

Texas Children's Hospital  
Houston, TX

**J. Nick Pratap, MD**

Cincinnati Children's Hospital  
Cincinnati, OH

**RJ Ramamurthi, MD, FRCA**

Stanford University  
Stanford, CA

**Mohamed A. Rehman, MD**

Children's Hospital of Philadelphia  
Philadelphia, PA

**David Robinowitz, MD**

University of California San Francisco  
San Francisco, CA

**Thomas Robinson, MD**

Stanford University  
Stanford, CA

**Mark A. Rockoff, MD**

Boston Children's Hospital  
Boston, MA

**Thomas M. Romanelli, MD**

Monroe Carell, Jr. Children's  
Hospital at Vanderbilt  
Nashville, TN

**Allison Kinder Ross, MD**

Duke University Medical Center  
Durham, NC

**Valerie A. Rossetti, MD**

Hartford Hospital  
Hartford, CT

**Kasia Rubin, MD**

Rainbow Babies & Children's Hospital  
Cleveland, OH

**Senthilkumar Sadhasivam, MD, MPH**

Cincinnati Children's Hospital  
Cincinnati, OH

**Angela Saettele, MD**

St. Louis Children's Hospital  
St. Louis, MO

# Faculty

**Steven W. Samoya, MD**

Vanderbilt University Medical Center  
Nashville, TN

**Paul J. Samuels, MD**

Cincinnati Children's Hospital  
Cincinnati, OH

**Amod Sawardekar, MD**

Ann & Robert H Lurie  
Childrens Hospital  
Chicago, IL

**Gregory J. Schears, MD**

Mayo Clinic  
Rochester, MN

**Michelle Schlunt, MD**

UCLA / Sunset Kaiser Permanente  
Los Angeles, CA

**Hedwig Schroeck, MD**

University of Michigan  
Ann Arbor, MI

**Alan J. Schwartz, MD, MSED**

Children's Hospital of Philadelphia  
Philadelphia, PA

**Jamie M. Schwartz, MD**

Children's National Medical Center  
Washington, DC

**Deborah A. Schwengel, MD**

Johns Hopkins Children's Center  
Baltimore, MD

**Christian Seefelder, MD**

Boston Children's Hospital  
Boston, MA

**Navil F. Sethna, MB, ChB**

Boston Children's Hospital  
Boston, MA

**Allan F. Simpao, MD**

Children's Hospital of Philadelphia  
Philadelphia, PA

**Tod Sloan, MD, PhD, MBA**

The University of Colorado  
Anschutz Medical Campus  
Aurora, CO

**Bettina Smallman, MD**

Upstate Medical Hospital  
Syracuse, NY

**Heidi Smith, MD, MSCI**

Vanderbilt University Medical Center  
Nashville, TN

**Codruta Soneru, MD**

University of New Mexico  
Albuquerque, NM

**Susan R. Staudt, MD, MSED**

Medical College of Wisconsin/Children's  
Hospital  
Milwaukee, WI

**James M. Steven, MD**

Children's Hospital of Philadelphia  
Philadelphia, PA

**Joel Stockman, MD**

Ronald Reagan UCLA Medical Center  
Los Angeles, CA

**John Stork, MD**

Rainbow Babies & Children's Hospital  
Cleveland, OH

**Paul A. Stricker, MD**

Children's Hospital of Philadelphia  
Philadelphia, PA

**Santhanam Suresh, MD, FAAP**

Lurie Children's Hospital  
Chicago, IL

**Peter Szmuk, MD**

Children's Medical Center  
Dallas, TX

**Judit M. Szolnoki, MD**

The University of Colorado  
Anschutz Medical Campus  
Aurora, CO

**Brad M. Taicher, DO, MBA**

Duke University Medical Center  
Durham, NC

**Rosalie Tassone, MD, MPH**

University of Illinois at Chicago  
Chicago, IL

**Joseph D. Tobias, MD**

Nationwide Children's Hospital  
Columbus, OH

**Premal Trivedi, MD**

Lurie Children's Hospital of Chicago  
Chicago, IL

**Robert D. Truog, MD, MA, FCCM**

Boston Children's Hospital  
Boston, MA

**Cynthia Tung, MD, MPH**

Boston Children's Hospital  
Boston, MA

**Donald C. Tyler, MD, MBA**

Children's Hospital of Philadelphia  
Philadelphia, PA

**Tetsu Uejima, MD**

Ann & Robert H. Lurie Children's Hospital  
of Chicago  
Chicago, IL

**Songyos Valairucha, MD**

Children's National Medical Center  
Washington, DC

**Susan Verghese, MD**

Children's National Medical Center  
Washington, DC

**Thomas Vetter, MD, MPH**

University of Alabama School  
of Medicine  
Birmingham, AL

**Samuel Wald, MD**

Ronald Reagan UCLA Medical Center  
Los Angeles, CA

**Sarah Walton, MD**

University of Michigan  
Ann Arbor, MI

**Shu-Ming Wang, MD**

University of California Irvine  
Medical School  
Irvine, CA

**Scott C. Watkins, MD**

Vanderbilt University Medical Center  
Nashville, TN

**Matthew Weinger, MD**

Vanderbilt University Medical Center  
Nashville, TN

**Tim Welch, MD**

Washington University in St. Louis  
St. Louis, MO

**Marisa Wiktor, DO**

Medical College of Wisconsin  
Children's Hospital  
Milwaukee, WI

**Nicole Wilder, MD**

University of Michigan  
Ann Arbor, MI

**Robert T. Wilder, MD, PhD**

Mayo Clinic  
Rochester, MN

**Julie Williamson, DO**

Stanford University  
Stanford, CA

**Samuel David Yanofsky, MD, MSED**

Children's Hospital Los Angeles  
Los Angeles, CA

**Myron Yaster, MD**

Johns Hopkins Children's Center  
Baltimore, MD

**Luis M. Zabala, MD**

Children's Medical Center  
Dallas, TX

## CONVENIENT ONLINE REGISTRATION

### FOR PEDIATRIC ANESTHESIOLOGY 2013!

Visit [www.pedsanesthesia.org](http://www.pedsanesthesia.org) to register for the meetings and book your hotel reservations online.

Registration rates increase after February 18, 2013. Printable forms are also available at [www.pedsanesthesia.org](http://www.pedsanesthesia.org)

#### Hotel Accommodations

Red Rock Casino, Resort and Spa  
11011 West Charleston Boulevard • Las Vegas, NV 89135 • Phone: 866-767-7773 or 702-797-7777

SPA Group Rates: \$175 – Single/Double; \$200 – Triple; \$225 – Quad (plus 12% tax rate)  
Cut-off date is Monday, February 18, 2013.

Go to [www.pedsanesthesia.org](http://www.pedsanesthesia.org) for the link to make your hotel reservations online.  
Or call 866-767-7773 to make your reservations. Group Code: RCISPA

Special Interest Group  
**Pediatric Pain Medicine 2013 Program**  
*Frontiers in Pediatric Pain Medicine*  
 Thursday, March 14, 2013

7:00 am-5:00 pm    **Registration**

7:45-8:00 am    **Introduction and Welcome** – Rosalie Tassone MD, MPH

**ACUTE PAIN 1: INNOVATIONS IN REGIONAL ANESTHESIA**

*Moderator: Rosalie Tassone MD, MPH*

8:00-8:30 am    **Innovations in Long Acting Local Anesthetics** – Charles B. Berde, MD, PhD

8:30-9:00 am    **Adjuvants in Regional and Neuraxial Anesthesia: An Update** – Corrie T.M. Anderson, MD

9:00-9:15 am    Questions

**ACUTE PAIN 2: PERSONALIZING PEDIATRIC PAIN MEDICINE**

*Moderator: Anjana Kundu MBBS, MD*

9:15-9:30 am    **Utilization of -omics Technologies to Predict Drug Response for Pain Medication** – Jeffrey L. Galinkin, MD, FAAP

9:45-10:15 am    **Influence of Race and Ethnicity in Pediatric Pain** – Nathalia Jimenez, MD

10:15-10:30 am    **Questions**

10:30-10:45 am    **Break**

**PRO/CON DEBATE: ARE WE MISSING THE RAVE? USING KETAMINE ROUTINELY IN THE OPERATING ROOM**

*Moderator: Constance Monitto MD*

10:45-11:00 am    **Pro** – R. Scott Dingeman, MD

11:00-11:15 am    **Con** – Stephen Robert Hays, MD, FAAP

11:15-Noon    **Rebuttals and Discussion**

Noon-1:00 pm    **Lunch**

**1:00-2:00 PM EXPERT PANEL: PERSPECTIVES FOR TREATING PAIN IN THE CHILD WITH CANCER:  
 A CASE-BASED DISCUSSION**

*Moderator: Rita Agarwal MD, FAAP*

- **The Allopathic Pain Specialist** – Kenneth R. Goldschneider, MD, FAAP
- **The Integrative Physician** – Yuan-Chi Lin, MD, MP
- **The Psychologist** – Tonya Palermo, PhD

**CHRONIC PAIN 1: CIRCUITRY**

*Moderator: Sabine Kost-Byerly MD, FAAP*

2:00-2:30 pm    **Neuropathic Pain: A Review** – Giovanni Cucchiari, MD

2:30-3:00 pm    **Opioid Induced Hyperalgesia** – Navil F. Sethna, MB, ChB

3:00-3:15 pm    **Questions**

3:15-3:30 pm    **Break**

**CHRONIC PAIN 2: INTERFACING TECHNOLOGY AND PAIN**

*Moderator: Petra Meier-Haran MD, DEAA*

3:30-4:00 pm    **Telemedicine in Pediatric Pain** – Anjana Kundu, MBBS, MD

4:00-4:45 pm    **Using the Internet to Enhance Access to Evidence-based Pediatric Pain Interventions** – Tonya Palermo, PhD

4:45-5:00 pm    **Questions**

5:00 pm    **Concluding Remarks**

# SPA/AAP Program

## THURSDAY, MARCH 14, 2013 • SPECIAL WORKSHOPS

- 7:00 am-5:00 pm**     **Registration**
- 1:00 - 5:00 pm**     **Return to the Future: Clinical Competence Committee 2.0** – Samuel D. Yanofsky MD, MSEd; Julie J. Nyquist, PhD; Ira Todd Cohen, MD, MEd
- 4:00 - 6:00 pm**     **Junior Faculty Workshop** – Jerome Parness MD, PhD
- 4:00 - 7:00 pm**     **Advanced Ultrasound Guided Regional Anesthesia** – Santhanam Suresh MD, FAAP; Amod Sawardekar MD; Adrian Bosenberg MB, ChB, FFA; Arjunan Ganesh MBBS; Per-Arne Lonnqvist MD; Richard Elliott MD; Robert W. Power MD; Sean Flack MBChB FCA DA; Adam Weingart MD

## Friday, March 15, 2013

- 6:30 am-5:30 pm**     **Registration**
- 6:30-8:00 am**     **Continental Breakfast with Exhibitors and Posters**
- 6:50-8:00 am**     **PBLDs** (See page 11 for details)
- 8:00-8:15 am**     **Welcome and Outline of Educational Program**  
Nancy Glass, MD, MBA, FAAP; Kirk Lalwani, MD, FRCA, MCR; Carolyn F. Bannister, MD, FAAP

### SESSION I: ANESTHETIC CHALLENGES IN CHILDHOOD OBESITY

*Moderator: Franklyn P. Cladis MD*

- 8:15-8:45 am**     **Anesthetic Challenges in Pediatric Obesity Surgery**  
Paul J. Samuels, MD
- 8:45-9:15 am**     **OSAS and Obesity: Diagnosis, Treatment, and Perioperative Care**  
Deborah A. Schwengel, MD
- 9:15-9:45 am**     **Surgical vs. Medical Treatment of Childhood Obesity**  
Carroll Mac Harmon, MD, PhD
- 9:45-10:00 am**     **Discussion**
- 10:00-10:45 am**     **Coffee Break with Exhibitors and Posters**

### SESSION II: ETHICS IN PEDIATRIC ANESTHESIOLOGY

*Moderator: Nancy Glass, MD, MBA, FAAP*

- 10:45-11:45 am**     **Ethical Dilemmas in Pediatric Anesthesiology - An Interactive Discussion**  
John Lantos, MD; Robert D. Truog, MD, MA, FCCM
- 11:45 am-12:45 pm**     **Lunch with Exhibitors and Posters**

### SESSION III: ROBERT M SMITH PRESENTATION

*Moderator: Carolyn F. Bannister, MD, FAAP*

- 12:45-1:00 pm**     **AAP Robert M Smith Presentation - John Christian Abajian, MD, FAAP**  
Constance S. Houck, MD, FAAP
- 1:00-2:00 pm**     **AAP Advocacy Lecture - Childhood Obesity**  
Thomas Robinson, MD

### SESSION IV: SIMULATION IS IN YOUR FUTURE: THE MOCA EXPERIENCE

- 2:00-3:30 pm**     **Crisis Resource Management, Simulation, MOCA and the Pediatric Anesthesiologist**  
Samuel Wald, MD; Anita Honkanen, MD
- 2:00-6:30 pm**     **Special Workshops** (See page 12 for details.)
- 3:30-4:00 pm**     **Break with Exhibitors**

### SESSION V: REFRESHER COURSE UPDATES

- 4:00-4:45 pm**     **REFRESHER COURSE: Cardiomyopathy**  
Nina Deutsch, MD
- 4:45-5:30 pm**     **REFRESHER COURSE: Challenges with PCA Management in Kids: Tips, Tricks, and Adjuvants**  
Shobha Malviya, MD, FAAP
- 5:30-7:00 pm**     **Reception with Exhibitors**



# SPA/AAP Program

**Saturday, March 16, 2013**

**6:30 am-5:00 pm**     **Registration**

**7:00-8:00 am**     **Continental Breakfast with Exhibitors and Posters**

## **SESSION I: CORE LECTURES: FRONTIERS IN PEDIATRIC NEUROANESTHESIA; SEIZURES, SYNOSTOSIS AND STIMULATION**

*Moderator: Mark A. Rockoff, MD*

**8:00-8:25 am**     **Anesthetic Challenges of Intraoperative Brain Mapping in Children**  
Nicholas P. Carling, MD

**8:25-8:50 am**     **Perioperative Management of Craniosynostosis**  
Charles Haberkern, MD, MPH

**8:50-9:15 am**     **Intraoperative Neural Monitoring: SSEP/MEP/EMG**  
Tod Sloan, MD, PhD, MBA

**9:15-9:30 am**     **Discussion**

**9:30-10:00 am**     **Coffee Break with Exhibitors and Posters**

## **SESSION II: POSTER PRESENTATIONS AND AWARDS**

**10:00-10:45 am**     **Oral Presentations and Abstract Awards**  
Moderators: Kirk Lalwani, MD, FRCA, MCR; Joseph D. Tobias, MD

**10:45-11:00 am**     **Discussion**

**11:00 am-12:30 pm**     **Walk around Posters/Discussion Session**

## **SESSION III: AAP ASK THE EXPERTS PANEL**

**12:30-1:30 pm**     **AAP Ask the Experts Panel and Lunch**  
*Anesthesia for Patients with Pulmonary Disease, Hepatic Disease and Renal Disease*  
Sponsored by: Cincinnati Children's, Arkansas Children's Hospital and Texas Children's Hospital  
Moderator: Lynne Gerson Maxwell, MD

### **Panelists:**

- Nancy Hagerman, MD, Cincinnati Children's Hospital - Perioperative Implications of Pulmonary Disease
- Christie Burnett-Yarnell, MD, Arkansas Children's Hospital – Anesthetic Implications of Hepatic Disease
- Priscilla J. Garcia, MD, Texas Children's Hospital – Anesthetic Implications of Renal Disease

## **SESSION IV: TECHNOLOGY AND PATIENT SAFETY**

*Moderator: Eugenie Heitmiller, MD, FAAP*

**1:30-2:15 pm**     **Understanding the Role of Technology in Patient Safety**  
Matthew Weinger, MD

**2:15-2:30 pm**     **Break**

## **SESSION V: REFRESHER COURSE UPDATES**

**2:30-3:15 pm**     **REFRESHER COURSE: Pathophysiology and Anesthetic Implications of Mitochondrial Diseases**  
Allison Kinder Ross, MD

**3:15-4:00 pm**     **REFRESHER COURSE: Evidence-based Management of Acute Intraoperative Emergencies in Children**  
Alan Schwartz, MD, MSED

**1:30-4:30 pm**     **Special Workshops** (See page 12 for details.)

**4:00-4:30 pm**     **Break**

**4:30-5:40 pm**     **PBLDs** (See page 11 for details.)

# SPA/AAP Program

## SPECIAL RECEPTION: THE YOUNG TURKS....SPA NEEDS YOU!

**5:45-6:30 pm Leadership and Academic Growth Opportunities for Faculty and Fellows in the Society for Pediatric Anesthesia**

Moderator: Nancy Glass, MD; Myron Yaster, MD; Rosalie Tassone, MD; Sam Wald, MD

Informal wine and cheese reception with short presentations from key SPA leaders highlighting SPA opportunities for involvement and career advancement.

*Restricted to fellows and faculty within 10 years of fellowship.*

**REGISTRATION FOR THE SPECIAL RECEPTION IS CLOSED.  
WE HAVE FILLED ALL THE AVAILABLE SLOTS.**

## Sunday, March 17th, 2013

**6:45-7:55 am PBLDs** (See page 11 for details.)

**7:00-8:00 am Continental Breakfast**

### SESSION I: EDITORS' BEST PICKS

*Moderator: Jeffrey P. Morray, MD*

**8:00-8:20 am Anesthesiology**  
J. Lance Lichtor, MD

**8:20-8:40 am Anesthesia and Analgesia**  
Peter J Davis, MD

**8:40-9:00 am Pediatric Anesthesia**  
Charles J. Coté, MD, FAAP

9:00-9:30 am Audience Discussion and Questions

### SESSION II: JEOPARDY

*Moderator: Myron Yaster, MD*

**9:30-11:00 am Jeopardy Session**

**11:00-11:15 am Educational Summary  
Adjourn**

# Problem-Based Learning Discussions

## Register for PBLDs online at [www.pedsanesthesia.org](http://www.pedsanesthesia.org)

### Friday, March 15, 2013: 6:50-8:00 AM

- Table # 1 I've just had a Happy Meal (yum), I've got CHARGE syndrome & TOF and now I need surgery ASAP-Monica S. Ganatra, MD, MPH; J. Lance Lichtor, MD
- Table # 2 "What's the big hurry?" Fast Track Pediatric Cardiac Surgery: Does the risk outweigh the benefits?-Scott Watkins, MD; Heidi Smith, MD, MSCI
- Table # 3 Children Who Refuse Surgery: A Case-Based Discussion-Elisabeth M. Hughes, MD; Carrie Menser, MD
- Table # 4 Fishing for Peanuts In The Airway: a Surprise Around Every Corner-Inna Maranets, MD; Shu-Ming Wang, MD
- Table # 5 Hypothermia in a newborn in the MRI scanner: A quality of care issue-Uma Parekh, MD, FRCA; Priti Dalal, MD, FRCA
- Table # 6 An Eroding Airway: Emergency anesthetic management of a child with mediastinitis, septic shock and a necrotizing tracheal rupture-Elaina E. Lin, MD; Dante A. Cerza, MD
- Table # 7 Postoperative pain management for a patient undergoing radical excision of tibial sarcoma-Harshad Gurnaney, MBBS, MPH; Arjunan Ganesh, MBBS
- Table # 8 Anesthetic Management in Patients with Pleuropulmonary Blastoma: A report-Ruba Elmaoued, MD; Bettina Smallman, MD
- Table # 9 Fell from a tree and broke your tracheobronchial tree. Anesthetic implications, complications, and management-Warwick A. Ames, MBBS FRCA; Brad M Taicher, DO, MBA
- Table # 10 Management of Traumatic Endotracheal Intubation and Extracorporeal Membrane Oxygenation in Neonates-Allan F. Simpaio, MD; Mohamed A. Rehman, MD
- Table # 11 Recurrent Intraoperative Anaphylactic Reaction: What are we missing?-Vidya Chidambaram, MD; Senthilkumar Sadhasivam, MD., MPH
- Table # 12 My Anesthesia Machine in Your PICU: Who manages it? Who bills it?-Songyos Valairucha, MD; Susan Verghese, MD
- Table # 13 EXIT procedure: Management of a prenatally diagnosed, tracheal obstructing, cervical teratoma from birth to discharge-Glenn Mann, MD; Michael Lamm, DO
- Table # 14 Mitochondrial Disease: Have We Come To A Consensus For Anesthetic Management?-Kimberly K. Nesbitt, MD; Thomas M. Romanelli, MD
- Table # 15 Positive pregnancy test in a 15 year old presenting for surgical correction of coarctation of the aorta.-M. Faith Lukens, MD; Edwin A. Bowe, MD
- Table # 16 A Neonate with Inability to Intubate the Trachea at Delivery Request for "Stat" Transport Direct to Your OR with mask CPAP!-Susan R Staudt, MD, MSEd; Stacy Peterson, MD

### Saturday, March 16, 2013: 4:30-5:40 PM

- Table # 17 A child with Glenn cardiac physiology and prior hypoxic-ischemic brain injury presenting for major hip surgery-J. Nick Pratap, MD; Rachel Koll, MD
- Table # 18 Acute shunt thrombosis during laparoscopic Nissen/ G-tube procedure in an infant following Norwood palliation for hypoplastic left heart syndrome-Aruna T. Nathan, MBBS, FRCA; James M. Steven, MD
- Table # 19 Conflicts Among Consultants in End-of-Life Care for the Teenage Cardiac Patient-Mari K Baldwin, MD FAAP; Gerald A Bushman, MD
- Table # 20 A Palliative Tracheal Stent in a Pediatric Patient with Mediastinal Mass: First do no harm-Allison M Fernandez, MD; Jamie M Schwartz, MD
- Table # 21 Necrotizing Enterocolitis In Premature Infants-George A. Gregory, MD; David Robinowitz, MD
- Table # 22 Postnatal Diagnosis: Vein of Galen Aneurysmal Malformation with High Output Cardiac Failure-Marisa Wiktor, DO; Lindsey Loveland, MD
- Table # 23 Why isn't this patient's block catheter working? Trouble-shooting pediatric continuous peripheral nerve blocks-Tiffany Brainerd, MD; Hyun Kee Chung, MD
- Table # 24 Pneumothorax, pneumoperitoneum and associated complications as relates to one-lung ventilation-Harry Bonet, MD, PhD; Jaclyn Giannone, sCRNA
- Table # 25 Go-kart crash in a 10 year old-Manon Haché, MD; Teeda Pinyavat, MD
- Table # 26 One New Liver and Two Blue Extremities: Management of Coagulation Defects in a Child with an Inborn Error of Metabolism-Courtney Kowalczyk, MD; Mohamed Rehman, MD

- Table # 27 An Adolescent with Anorexia and Idiopathic Scoliosis for Spinal Fusion: Introducing "ProAna" (Pro-Anorexia) and the Intraoperative Complications of "Thinspiration."-Herodotos Ellinas, MD, FAAP; Alia Fox, MD
- Table # 28 Improving Safety in the Pediatric Cardiac Cath Lab-Joyce Phillips, MD, FAAP; Jennifer Dillow, MD, FAAP
- Table # 29 TandemHeart® placement as a bridge to transplant in a 6 year-old female with fulminant heart failure and heparin-induced thrombocytopenia (HIT)-Premal Trivedi, MD; Courtney Hardy, MD
- Table # 30 Chronic Regional Pain Syndrome: Need for integrative modalities to aid long term pain control-Kasia Rubin, MD; John Stork, MD
- Table # 31 Bridging to transplant with a lung assist device following an open lung biopsy complicated by a pulmonary hypertensive crisis-James J. Fehr, MD; Tim Welch, MD
- Table # 32 A 5-Year Old Boy With Williams Syndrome And Branch Pulmonary Artery Stenosis Presents For Supravalvar Aortic Stenosis Repair-Rebecca Hong, MD; Nicole Wilder, MD

### Sunday, March 17, 2013: 6:45-7:55 AM

- Table # 33 Anesthetic Management of Tracheoesophageal Fistula in a Premature Newborn with VACTERL Association and Hypoplastic Left Heart Syndrome-Greg Latham, MD; Eliot Grigg, MD
- Table # 34 An infant with Gorlin's Syndrome and an unresectable cardiac fibroma with ST segment changes on induction of anesthesia-Kelly Chilson, MD; Jacob Christensen, MD
- Table # 35 OMG! Foreign body in the trachea of a premature (850 Gm) baby! How is he breathing? How to anesthetize him?-Claude Abdallah, MD; Raafat S Hannallah, MD
- Table # 36 An 11-year-old with mediastinal masses and respiratory distress presents for diagnostic procedures - and his parents refuse anesthesia-Hedwig Schroeck, MD; Sarah Walton, MD
- Table # 37 Opening Pandora's Box: A 2 day old neonate with duodenal atresia, found to have a critical airway anomaly during induction!-Farzana Afroze, MD; Christina Diaz, MD
- Table # 38 A Case of Cerebellar Mutism after Posterior Fossa Tumor Resection-Jerry Chao, MD; Rebecca Lintner, MD
- Table # 39 Teenager with Spinal Muscular Atrophy for Open Reduction and Fixation of a Femur Fracture: General or Regional Anesthesia?-Agnes Hunyady, MD; Corrie TM Anderson, MD
- Table # 40 16 year old with Disabling Chest Wall Pain after Thoracoscopic Talc Pleurodesis for Treatment of Recurrent Spontaneous Pneumothoraces-Kendra Grim, MD; Robert T. Wilder, MD, PhD
- Table # 41 Management of a pediatric trauma patient (with a bleeding disorder) . . . when there is too little information and too little time-Thomas E. Cox, MD; Angela Saeltele, MD
- Table # 42 Cardiac arrest in an infant with epidermolysis bullosa during central line placement-Chandra Castro, MD; Kumar Belani, MD
- Table # 43 Cardiac arrest in a 10 year old following subcutaneous Epinephrine injection prior to excision of a neck mass-Codruta Soneru, MD; Thomas Long, MD
- Table # 44 Anesthetic Management of a Child with Malignant Hypertension Secondary to a Renal Paraganglioma and Concomitant Renal Artery Stenosis-Joel Stockman, MD; Ellen Choi, MD
- Table # 45 The Challenges of Undiagnosed Hypotonia-Shannon Grap, MD; Richard Kaplan, MD
- Table # 46 Perianesthetic Disasters: What Next for the Anesthesiologist?-Christie D. Yarnell, MD; Timothy W. Martin, MD, MBA
- Table # 47 EGD/Colonoscopy in a Patient with Failing Fontan Circulation: Can't You Just Do A MAC?-Michelle Schlunt, MD; Charles Lee, MD
- Table # 48 Evidence based opioid and benzodiazepine weaning following complicated Norwood palliation in an infant with hypoplastic left heart syndrome.-Carrie Menser, MD; Andrew Franklin, MD

# Workshops & Refresher Courses

Space is limited. Register online at [www.pedsanesthesia.org](http://www.pedsanesthesia.org).

First fee listed is through 2/18/2013 and second is after 2/18/2013.

THURSDAY, MARCH 14		
TIME	TITLE	FEE
1:00-5:00 pm.	Return to the Future: Clinical Competence Committee 2.0 – Samuel D. Yanofsky MD, MEd; Julie J. Nyquist, PhD; Ira Todd Cohen, MD, MEd	\$120/\$150
4:00-6:00 pm	Junior Faculty Workshop – Jerome Parness MD, PhD	No Charge
4:00-7:00 pm	Advanced Ultrasound Guided Regional Anesthesia – Moderator: Santhanam Suresh MD, FAAP; Senior faculty: Amod Sawardekar MD; Adrian Bosenberg MB, ChB, FFA; Arjunan Ganesh MBBS; Per-Arne Lonnqvist MD. Associate faculty: Robert W. Power MD; Sean Flack MBChB FCA DA; Adam Weingart MD	\$200/\$250
FRIDAY, MARCH 15		
2:00-4:00 pm	Financial Planning - Near Retirement – Charles P. Boinske, CFA	\$60/\$75
3:30-6:30 pm	Advanced Techniques for Peripheral Vascular Access – Gregory J. Schears MD; Dawit T. Haile, MD; Scott D. Markowitz, MD, FAAP; Luis M. Zabala, MD; Steven W. Samoya, MD; Paul J. Fronapfel, MD; Andrea Dutoit, MD; Kendra Grim, MD	\$90/\$120
3:30-6:30 pm	Advanced Ultrasound Guided Regional Anesthesia – Moderator: Santhanam Suresh MD, FAAP; Amod Sawardekar MD; Adrian Bosenberg MB, ChB, FFA; Arjunan Ganesh MBBS; Per-Arne Lonnqvist MD; Associate faculty: Tarun Bhalla MD; Senthilkumar Sadasivan MD, MPH; Susuma Ohkawa MD; Navil F. Sethna MB, ChB	\$200/\$250
3:30-6:30 pm	Difficult Pediatric Airway – John Fiadjoe MD; David M. Polaner MD, FAAP; Cheryl K. Gooden MD, FAAP; Narasimhan Jagannathan, MD; Todd J. Kilbaugh MD; Pete G. Kovatsis MD; John J. McCloskey MD; Patrick N. Olomu MD, FRCA; Paul A. Stricker MD; Peter Szmuk, MD; Judit M. Szolnoki, MD; Agnes I. Hunyadi, MD; Maria Matuszczak, MD; Amish Patel, MD	\$90/\$120
4:30 - 6:30 pm	Financial Planning - Early Career – Charles P. Boinske, CFA	\$60/\$75
Refresher Courses		
4:00-4:45 pm	Cardiomyopathy – Nina Deutsch MD	No Charge
4:45-5:30 pm	Challenges with PCA Management in Kids: Tips, Tricks, and Adjuvants – Shobha Malviya MD, FAAP	No Charge
SATURDAY, MARCH 16		
2:30-4:30 pm	Acupuncture – Yuan-Chi Lin MD, MPH; Brenda Golianu MD; Rosalie Tassone MD, MPH; Cynthia Tung MD, MPH; Shu-Ming Wang MD	\$60/\$75
2:30-4:30 pm	Challenging Situations During Mission Anesthesia – George D. Politis MD, MPH; Quentin Fisher MD, FAAP; Valerie A. Rossetti MD	\$60/\$75
2:30-4:30 pm	Giving Feedback – Jayant K. Deshpande MD, MPH, FAAP; Sally Bitzer, MD; Jessica George, MD	\$60/\$75
2:30-4:30 pm	How to Design and Moderate an Effective PBLD – Kirk Lalwani MD, FRCA, MCR; Nancy L. Glass MD, MBA, FAAP	No Charge
2:30-4:30 pm	Investigating Adverse Events – Matthew Weinger MD; Neal Campbell MD; Eugenie S. Heitmiiller MD, FAAP; Donald C. Tyler MD, MBA; Tetsu Uejima, MD	\$60/\$75
2:30-4:30 pm	Single Lung Workshop – Dinesh Choudhry MD, DA, FRCA; RJ Ramamurthi, MD, FRCA; Julie Williamson, DO; Christian Seefelder, MD; B. Randall Brenn, MD; Divya Dixit, MD; Harry Bonet, MD, PhD	\$60/\$75
1:30-4:30 pm	Art of Scientific Writing – Jerrold Lerman MD, FRCPC	\$90/\$120
1:30-4:30 pm	Echo: Basic and Advanced – James A. DiNardo MD; Thomas M. Burch MD; Wanda C. Miller-Hance MD	\$90/\$120
1:30-4:30 pm	Epidemiology – Thomas R. Vetter MD, MPH <i>Participants are encouraged but not required to bring their own preliminary research questions or actual collected data to the workshop.</i>	\$90/\$120
Refresher Courses		
2:30-3:15 pm	Pathophysiology and Anesthetic Implications of Mitochondrial Diseases – Allison Kinder Ross, MD	No Charge
3:15-4:00 pm	Evidence-based Management of Acute Intraoperative Emergencies in Children – Alan Schwartz, MD	No Charge

# Objectives

## Special Interest Group-Pediatric Pain Medicine Objectives

### Innovations in Long Acting Local Anesthetics

*Charles B. Berde, MD, PhD*

At the end of this presentation, the participant will be able to:

- Review recent clinical trials of novel prolonged duration local anesthetics
- Summarize some of the clinical opportunities and risk-benefit issues with novel local anesthetics
- Understand how novel local anesthetics might be studied and used in pediatric regional anesthesia

### Adjuvants in Regional and Neuraxial Anesthesia: An Update

*Corrie T.M. Anderson, MD*

At the end of this presentation, the participant will be able to:

- Specify three reasons for utilizing local anesthetic adjuvants in regional anesthesiology practice
- Understand the basic pharmacology of two commonly used local anesthetic adjuvants
- Recognize the potential risks of employing local anesthetic adjuvants in their practice of regional anesthesiology

### Utilization of -omics technologies to predict drug response for pain medication

*Jeffrey L. Galinkin MD, FAAP*

At the end of this presentation, the participant will be able to:

- Describe why looking simply at blood levels of drugs is not enough
- Examine -omic approaches to therapeutic monitoring of drugs
- Understand the utilization of existing -omic technologies to monitor therapeutic efficacy of pain therapies

### Influence of Race and Ethnicity in Pediatric Pain

*Nathalia Jimenez, MD*

At the end of this presentation, the participant will be able to:

- Understand the racial and ethnic differences in the assessment and treatment of pain in children
- Recognize the role of cultural factors in pediatric pain management
- Understand racial and ethnic variability in genetic factors associated with pain sensitivity and opioid treatment

### Pro/Con Debate: Are We Missing the Rave? Using Ketamine Routinely in the Operating Room

*Pro - R. Scott Dingeman, MD*

At the end of this presentation, the participant will be able to:

- Recognize the mechanism of action of ketamine as well as the common indications and uses in pediatric anesthesia
- Understand new evidence that suggests ketamine may reduce or even prevent primary and secondary hyperalgesia associated with postoperative pain
- Review recent evidence that ketamine has anti-inflammatory effects which may reduce the postoperative inflammatory reaction

*Con - Stephen Robert Hays, MD, FAAP*

At the end of this presentation, the participant will be able to:

- Review data suggesting potential risks and benefits of ketamine administration in the perioperative setting, particularly in children
- Discuss potential mechanisms of ketamine effects in the pediatric perioperative setting
- Reach informed individual conclusions regarding the role of routine perioperative ketamine administration in children

### Expert Panel: Perspectives for Treating Pain in the Child with Cancer, A Case Based Discussion

*The Allopathic Pain Specialist - Kenneth R. Goldschneider, MD, FAAP*

*The Integrative Physician - Yuan-Chi Lin, MD, MPH*

*The Psychologist - Tonya Palermo, PhD*

At the end of this presentation, the participant will be able to:

- Understand the strengths and limits of pharmacologic treatment of pain in cancer
- Appreciate the unique role of local anesthetics and interventional management

- Evaluate the common complementary medical therapies
- Understand how to integrate allopathic and complementary medicine in pediatric cancer care

### Neuropathic Pain: A Review

*Giovanni Cucchiari, MD*

At the end of this presentation, the participant will be able to:

- Describe the definition and characteristics of neuropathic pain and how to clinically distinguish neuropathic pain from somatic pain
- Describe current thinking regarding the mechanisms of neuropathic pain, and what biological processes are thought to be involved in its maintenance
- Understand which drugs generally work and which do not work for neuropathic pain, know their NNTs, and learn what medications are in the pipeline for future treatment

### Opioid Induced Hyperalgesia

*Navil F. Sethna, MB, ChB*

At the end of this presentation, the participant will be able to:

- Understand OIH, when does it occur (intra- or post-operatively) & what are the possible mechanisms (peripheral, central or both)
- Assess the contribution of surgical trauma in facilitation of OIH
- Examine the relationship of opioid-induced analgesic tolerance, OIH and neurotoxicity

### Telemedicine in Pediatric Pain

*Anjana Kundu, MBBS, MD*

At the end of this presentation, the participant will be able to:

- Understand the structural components of telemedicine
- Understand role of telemedicine in pain management

### Using the Internet to Enhance Access to Evidence-based Pediatric Pain Interventions

*Tonya Palermo, PhD*

At the end of this presentation, the participant will be able to:

- Identify evidence-based interventions for pediatric chronic pain management
- Assess the advantages of mobile technologies for improving access and delivery of evidence-based pain assessments and interventions
- Identify implementation and translation-into-practice challenges specific to eHealth pain intervention implementation

## SPA/AAP Objectives

**Friday, March 15, 2013:**

### SESSION I: ANESTHETIC CHALLENGES IN CHILDHOOD OBESITY Anesthetic Challenges in Pediatric Obesity Surgery

*Paul J. Samuels, MD*

Upon completion of this session, the participant will be able to:

- Review the epidemiology of pediatric obesity
- Describe co-morbidities associated with pediatric obesity
- Discuss peri-operative anesthesia implications of childhood obesity

### OSAS and Obesity: Diagnosis, Treatment, and Perioperative Care

*Deborah A. Schwengel, MD*

Upon completion of this session, the participant will be able to:

- Name the prevalence of both obesity and OSAS in the pediatric population and the risks of perioperative morbidity related to these disorders
- Relate the interactions between obesity and OSAS to cardiovascular disease and metabolic syndrome
- Discuss the implications of obesity and OSAS for perioperative care

# Objectives

## **Surgical vs. Medical Treatment of Childhood Obesity**

*Carroll Mac Harmon, MD, PhD*

Upon completion of this session, the participant will be able to:

- Understand the magnitude of the problem of pediatric obesity in the US
- Review the current status of behavior modification and medical management of pediatric obesity
- Review the current status and results of weight loss surgery in children and adolescents.

## **SESSION II: ETHICS IN PEDIATRIC ANESTHESIOLOGY**

### **Ethical Dilemmas in Pediatric Anesthesiology - An Interactive Discussion**

*John Lantos, MD; Robert D. Truog, MD, MA, FCCM*

Upon completion of this session, the participant will be able to:

- Identify unique ethical issues that arise in pediatric anesthesiology and critical care
- Develop a conceptual moral framework for analyzing ethical dilemmas
- Demonstrate the use of case discussions as a teaching tool

## **SESSION III: ROBERT M SMITH PRESENTATION**

### **AAP Advocacy Lecture- Childhood Obesity**

*Thomas Robinson, MD*

Upon completion of this session, the participant will be able to:

- Recognize the basic epidemiology, causes and consequences of obesity in children and adolescents
- Understand key behavioral, social and policy strategies and opportunities to prevent and control childhood obesity

## **SESSION IV: SIMULATION IS IN YOUR FUTURE: THE MOCA EXPERIENCE**

### **Crisis Resource Management, Simulation, MOCA and the Pediatric Anesthesiologist**

*Samuel Wald, MD; Anita Honkanen, MD*

Upon completion of this session, the participant will be able to:

- Describe the important elements in crisis resource management
- Understand the rationale and role of simulation related to the American Board of Anesthesiology Maintenance of Certification in Anesthesiology
- Explain the components of teamwork and leadership related to time-sensitive patient care.

## **SESSION V: REFRESHER COURSE UPDATES**

### **REFRESHER COURSE: Cardiomyopathy**

*Nina Deutsch, MD*

Upon completion of this session, the participant will be able to:

- Examine the pathophysiology and treatment of the various pediatric cardiomyopathies
- Understand the increased risk that these patients present in the perioperative period
- Describe the anesthetic management of pediatric patients with cardiomyopathy

### **REFRESHER COURSE: Challenges with PCA Management in Kids: Tips, Tricks, and Adjuvants**

*Shobha Malviya, MD, FAAP*

Upon completion of this session, the participant will be able to:

- Discuss the use of patient-, parent- and nurse-controlled analgesia in children
- Review opioid and non-opioid agents used via PCA
- Identify pitfalls associated with PCA use and strategies to mitigate risks from PCA

## **Saturday, March 16, 2013**

### **SESSION I: CORE LECTURES - FRONTIERS IN PEDIATRIC NEUROANESTHESIA: SEIZURES, SYNOSTOSIS, AND STIMULATION**

#### **Anesthetic Challenges of Intraoperative Brain Mapping in Children**

*Nicholas P. Carling, MD*

Upon completion of this session, the participant will be able to:

- Identify the anesthetic challenges during procedures that require intraoperative brain mapping in the pediatric patient
- Name the anesthetic issues related to Deep Brain Stimulator (DBS) procedures in the pediatric patient
- Formulate anesthetic plans for both DBS and intraoperative brain mapping procedures

#### **Perioperative Management of Craniosynostosis**

*Charles M. Haberker, MD, MPH*

Upon completion of this session, the participant will be able to:

- Recognize different types and etiologies of craniosynostosis
- Understand surgical approaches to repair of craniosynostosis
- Understand anesthetic considerations/concerns associated with repair of craniosynostosis

#### **Intraoperative Neural Monitoring: SSEP/MEP/EMG**

*Tod Sloan, MD, PhD, MBA*

Upon completion of this session, the participant will be able to:

- Understand the neural anatomy involved in the SSEP and MEP
- Understand the applications of SSEP, MEP, and EMG monitoring in spine surgery in children
- Recognize the basic differences in the SSEP and MEP monitoring between children and adults

### **SESSION III: AAP ASK THE EXPERTS PANEL**

#### **AAP Ask the Experts Panel and Lunch**

#### **Anesthesia for Patients with Pulmonary Disease, Hepatic Disease and Renal Disease**

Panelists:

“Perioperative Implications of Pulmonary Disease” - Nancy Hagerman MD, Cincinnati Children's Hospital

Upon completion of this session, the participant will be able to:

- Describe the impact that pulmonary anatomic and structural abnormalities have on anesthetic management
- Determine the anesthetic implications that chronic lung disease has on the pediatric patient.
- Recognize the significance of varying acute infectious pulmonary processes on perioperative care

“Anesthetic Implications of Hepatic Disease” - Christie Burnett-Yarnell MD, Arkansas Children's Hospital

Upon completion of this session, the participant will be able to:

- List at least five pediatric diseases with liver pathology
- Describe the complications of advanced cirrhosis
- Discuss keys to evaluating patients with hepatic disease

“Anesthetic Implications of Renal Disease” - Priscilla J. Garcia MD, Texas Children's Hospital

Upon completion of this session, the participant will be able to:

- Develop an effective preoperative evaluation process for the pediatric patient with renal insufficiency
- Recognize the intraoperative management options for the pediatric patient with renal insufficiency
- Identify the relevant postoperative conditions for the pediatric patient with renal insufficiency

# Objectives

## SESSION IV: TECHNOLOGY AND PATIENT SAFETY

### Understanding the Role of Technology in Patient Safety

Matthew Weinger, MD

Upon completion of this session, the participant will be able to:

- Describe the role of human-technology interaction in the safe delivery of anesthesia
- Describe how human factors engineering contributes to the design of safer medical devices
- Explain how anesthesiologists can contribute to patient safety through wiser selection and use of medical devices

## SESSION V: REFRESHER COURSE UPDATES

### REFRESHER COURSE: Pathophysiology and Anesthetic Implications of Mitochondrial Diseases

Allison Kinder Ross, MD

Upon completion of this session, the participant will be able to:

- Recognize the different types of mitochondrial diseases and their various presentations and pathologies.
- Identify preoperative preparation guidelines for patients with mitochondrial disorders.
- Understand the history of and changes in anesthetic intraoperative management in patients with mitochondrial disease.

### REFRESHER COURSE: Evidence-based Management of Acute Intraoperative Emergencies in Children

Alan J. Schwartz, MD, MSED

Upon completion of this session, the participant will be able to:

- Identify the clinical presentation of acute anaphylaxis, pulmonary aspiration, reversal of fetal circulation and local anesthetic toxicity in pediatric patients undergoing anesthesia
- Develop a clinical management plan for these Acute Intraoperative Emergencies in Children

**Sunday, March 17th, 2013**

## SESSION I: EDITORS BEST PICKS

### Anesthesiology

J. Lance Lichtor, MD

### Anesthesia and Analgesia

Peter J Davis, MD

### Pediatric Anesthesia

Charles J. Cote, MD, FAAP

Upon completion of this session, the participant will have the opportunity to critically review a few outstanding pediatric anesthesia papers published in the last year, Anesthesiology, Anesthesia and Analgesia, and Pediatric Anesthesia.

## SESSION II: JEOPARDY

Moderator: Myron Yaster, MD

Upon completion of this session, the participant will have the opportunity to review current pediatric anesthesia practice in a game-show format.

## Workshop Objectives

### Return to the Future: Clinical Competence Committee 2.0

Samuel D. Yanofsky, MD, MSED; Julie J. Nyquist, PhD;

Ira Todd Cohen, MD, MEd

By completion of the workshop the participants will be able to:

- Describe the role of the Clinical Competence Committee in learner evaluation
- List the factors that impact the reliability and validity of ratings and the performance review process
- Utilize psychometric inventories such as the Myers Briggs Type Indicator, the Thomas Kilmann Inventory on Conflict Management and an Emotional Intelligence Inventory in enhancing committee performance

### Junior Faculty Workshop

Jerome Parness, MD, PhD

This workshop is designed for junior and mid-level faculty who are beginning an academic career or who simply wish to advance their knowledge of research methodology. Topics include, but are not limited to: research design, statistical methods, and grant writing.

### Advanced Ultrasound Guided Regional Anesthesia

Santhanam Suresh, MD, FAAP; Amod Sawardekar, MD; Adrian Bosenberg, MB, ChB, FFA; Arjunan Ganesh, MBBS; Per-Arne Lonnqvist, MD; Richard Elliott, MD; Robert W. Power, MD; Sean Flack, MBChB FCA DA; Adam Weingart, MD

Upon completion of this workshop, the participant will have an understanding of:

- Basic functions of the US machine with particular attention to the US probes
- Machine settings for various age groups
- Anatomy using US guidance of all peripheral nerve blocks including upper and lower extremity, truncal and central neuraxial blocks, and
- Provide an instructional hands-on course with low faculty to attendee ratio to provide an understanding of how to scan and block most common peripheral/central neuraxial nerve blocks in children.

### Financial Planning - Near Retirement

Charles P. Boinske, CFA

Upon completion of this workshop, the participant will be able to:

- Understand the key components of successful financial planning
- Plan for income needs in retirement
- Develop an action plan to address the planning issues that are important as you near retirement

### Advanced Techniques for Peripheral Vascular Access

Gregory J. Schears, MD; Dawit T. Haile, MD; Scott D. Markowitz, MD, FAAP; Luis M. Zabala, MD; Steven W. Samoya, MD; Paul J. Fronapfel, MD; Andrea Dutoit, MD; Kendra Grim, MD

Upon completion of this workshop, the participant will be able to:

- Demonstrate and practice use of ultrasound to obtain peripheral venous access
- Demonstrate and practice the use of two types of intraosseous catheters to obtain emergent vascular access
- Identify the potential advantages of near infra-red technology to optimize peripheral venous access.

### Advanced Ultrasound Guided Regional Anesthesia

Santhanam Suresh, MD, FAAP; Amod Sawardekar, MD; Adrian Bosenberg, MB, ChB, FFA; Arjunan Ganesh, MBBS; Per-Arne Lonnqvist, MD; Tarun Bhalla, MD; Senthilkumar Sadasivan, MD, MPH; Susuma Ohkawa, MD; Navil F. Sethna, MB, ChB

Upon completion of this workshop, the participant will have an understanding of:

- Basic functions of the US machine with particular attention to the US probes
- Machine settings for various age groups
- Anatomy using US guidance of all peripheral nerve blocks including upper and lower extremity, truncal and central neuraxial blocks, and
- Provide an instructional hands-on course with low faculty to attendee ratio to provide an understanding of how to scan and block most common peripheral/central neuraxial nerve blocks in children.

### Difficult Pediatric Airway

John Fiadjoe, MD; David M. Polaner, MD, FAAP; Cheryl K. Gooden, MD, FAAP; Narasimhan Jagannathan, MD; Todd J. Kilbaugh, MD; Pete G. Kovatsis, MD; John J. McCloskey, MD; Patrick N. Olomu, MD, FRCA; Paul A. Stricker, MD; Peter Szmuk, MD; Judit Szolnoki, MD; Amish Patel, MD; Agnes I Hunyadi, MD; Maria Matuszczak, MD

Upon completion of this workshop, the participant will gain:

- An understanding of situations in which alternative methods of securing the airway may be necessary
- An understanding of the development of a systematic anatomic and physiologic approach to the assessment of the difficult airway and to planning airway management
- An understanding of the availability of new devices and technologies for securing the airway and what their indications and limitations are, and
- Hands on experience with these devices.

# Objectives

## Financial Planning - Early Career

*Charles P. Boinske, CFA*

Upon completion of this workshop, the participant will be able to:

- Understand the key components of successful financial planning
- Avoid the five most common financial planning mistakes
- Develop an action plan to make sure all financial planning issues are addressed

## Acupuncture

*Yuan-Chi Lin, MD, MPH; Brenda Golianu, MD; Rosalie Tassone, MD, MPH; Cynthia Tung, MD, MPH; Shu-Ming Wang, MD*

Upon completion of this workshop, participants will have:

- Enhanced knowledge of acupuncture
- Opportunity to integrate acupuncture for the practice of pediatric anesthesia and pain medicine
- Learned the history and theory of acupuncture
- Understand scientific evidence of acupuncture practice
- Evaluate acupuncture micro-system paradigms; incorporate acupuncture in peri-operative, pediatric anesthesia, and pain practice
- Participate in hands-on demonstration of acupuncture and related techniques.

## Challenging Situations During Mission Anesthesia

*George D. Politis, MD, MPH; Quentin A. Fisher, MD, FAAP*

Upon completion of this workshop, the participant will be able to:

- Understand how to manage difficult situation that arise in the course of performing anesthesia in the "mission" environment
- Discuss patient and surgical criteria that may lead to difficult situations during short-term surgical projects.
- Understand differences between conducting anesthesia during disaster relief versus during scheduled short-term surgical projects.

## Giving Feedback

*Jayant K. Deshpande MD, MPH, FAAP; Sally Bitzer MD; Jessica George MD*

Upon completion of this workshop, the participant will be able to:

- Identify the elements of effective feedback (for trainees, for colleagues)
- Understand the optimum settings to provide feedback
- Practice giving feedback using case-based scenarios

## How to Design and Moderate an Effective PBLD

*Kirk Lalwani, MD, FRCA, MCR; Nancy L. Glass, MD, MBA, FAAP*

At the end of this two-hour workshop, participants will be able to:

- State the rationale for case-based group learning
- Recognize the characteristics of a case suitable for discussion
- Be able to differentiate between a case appropriate for a Medically Challenging Case and a PBLD
- Take a brief stem and develop a PBLD suitable for the designated audience
- Compile a set of Best Practices for leading an inclusive, robust discussion

## Investigating Adverse Events

*Matthew Weinger, MD; Neal Campbell, MD; Eugenie S. Heitmiller, MD, FAAP; Donald C. Tyler, MD, MBA; Tetsu Uejima, MD*

Upon completion of this workshop, learners will be able to:

- Explain the systems view of adverse event etiology.
- Describe the basic methods and rationale for performing a post-event analysis.
- Conduct an effective event analysis on a simulated case.
- Describe the relative strengths and weaknesses of different types of event mitigation interventions

## Single Lung Workshop

*Gregory B. Hammer, MD; Dinesh Choudhry, MD, DA, FRCA; RJ Ramamurthi, MD, FRCA; Julie Williamson, DO; Christian Seefelder, MD; B. Randall Brenn, MD; Divya Dixit, MD; Harry Bonet, MD*

Upon completion of this workshop, the participant will:

- Understand the risks of SLV
- Be familiar with the benefits of SLV
- Know the advantages and disadvantages of the 3 general methods of SLV

## Art of Scientific Writing

*Jerrold Lerman MD, FRCPC*

Upon completion of this workshop, the participant will:

- Understand the building blocks that make clear and concise writing.
- Understand the elements that create readable, understandable and unambiguous manuscripts.
- Appreciate what editors look for in a manuscript to view the submission favorably; to recognize the utility of plagiarism software

## Echo: Basic and Advanced

*James A. DiNardo, MD; Thomas M. Burch, MD; Wanda C. Miller-Hance, MD*

Upon completion of these workshops, the participant will understand the mechanics of conducting a basic TEE exam, and will have learned the principles necessary to conduct a comprehensive exam in patients with complex congenital heart disease.

## Epidemiology

*Thomas R. Vetter, MD, MPH*

Upon completion of this workshop, the participant will understand:

- The practical basics of biostatistics, including sample size, power analysis, effect size, and confidence intervals,
- The practical basics of clinical epidemiology,
- The sources of bias in study design,
- The concept of confounding in study design,
- The various methods used to identify and control bias and confounding, including regression modeling and propensity scores
- The readily available, user-friendly biostatistics and epidemiology software options for the clinical researcher

## PBLD Objectives

Problem-based learning discussions will offer the opportunity for group discussion with faculty and other attendees of common clinical problems. The format will highlight aspects of clinical decision-making including preoperative evaluation and preparation, anesthetic induction and intra-operative management and possible intra- and postoperative pain and other management dilemmas.





## INTENSIVE REVIEW OF **PEDIATRIC ANESTHESIA**

May 17-19, 2013 Westin DFW • Dallas, TX

OR August 23-25, 2013 Embassy Suites O' Hare • Rosemont, IL

A three-day course designed for the anesthesiologist seeking a comprehensive review of Pediatric Anesthesiology!

For more details and registration information please visit

[www.pedsanesthesia.org](http://www.pedsanesthesia.org)

**INFORMATION @ [WWW.PEDSANESTHESIA.ORG](http://WWW.PEDSANESTHESIA.ORG)!**

Society for Pediatric Anesthesia  
2013 • San Francisco

For program and registration information, please visit [www.pedsanesthesia.org](http://www.pedsanesthesia.org)

**27<sup>th</sup> Annual Meeting**

October 11, 2013  
San Francisco, CA

Society for Pediatric Anesthesia  
education • research • patient safety

Society for Pediatric Anesthesia



education • research • patient safety

2209 Dickens Road  
Richmond, VA 23230-2005

Non-Profit Org.  
U.S. Postage  
PAID  
Permit No. 1225  
Richmond, VA

# PEDIATRIC ANESTHESIOLOGY

A meeting co-sponsored by the Society for Pediatric Anesthesia and the American Academy of Pediatrics Section on Anesthesiology and Pain Medicine

**March 14 - 17, 2013**

Red Rock Casino, Resort & Spa Las Vegas, NV

# 2013

Society for Pediatric Anesthesia



education • research • patient safety

American Academy  
of Pediatrics

