

# 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 7-9, 2014**

Marriott Harbor Beach • Ft. Lauderdale, FL

# 2014



Society for Pediatric Anesthesia



education • research • patient safety

American Academy  
of Pediatrics



# WELCOME TO PEDIATRIC ANESTHESIOLOGY 2014!

This year's Society for Pediatric Anesthesia (SPA) meeting will be held in conjunction with the American Academy of Pediatrics (AAP) Section on Anesthesiology and Pain Medicine at the beautiful Marriott Harbor Beach Hotel in Ft. Lauderdale, Florida, March 7-9, 2014.

As Program Chair, I want to express my sincere gratitude to those who spent numerous hours of their own time on conference calls and emails in order to organize our program: Sam Wald (Workshop Coordinator), Rosalie Tassone (PBLD Coordinator), Shobha Malviya (Chair, SPA Education Committee), Carolyn Bannister (AAP Section Chair), and Kim Battle (SPA Association Manager).

This year, we instituted electronic PBLD submissions, and thanks to the Information Technology group at SPA headquarters, we implemented the process in time for this year's submissions. Additionally, we created a "shadow" program that offered younger SPA members on the Education Committee the opportunity to participate in the program organization. The three members who accepted the invitation—Nina Deutsch, Peggy McNaull, and Dawit Haile—proved their value by offering speaker suggestions, proposing workshop ideas, and assisting in the development of educational objectives. Nina Deutsch took on the challenge of drafting an application to the American Board of Anesthesiology (ABA) for approval of our safety-oriented lectures as Maintenance of Certification in Anesthesiology (MOCA®) educational presentations.

So, for the first time, SPA is pleased to offer several opportunities to help fulfill your ABA MOCA® Part II Patient Safety requirements at the SPA/AAP Pediatric Anesthesiology 2014 meeting! By attending the following sessions, you are eligible to receive up to 3 credits that may be applied toward Part II: Lifelong Learning and Self-Assessment- Patient Safety CME requirements for the MOCA Program of the ABA.\*

- General Session: New Anesthesia Machine Ventilators—Safer Technology
- Refresher Course: Disclosure of Adverse Events
- AAP Ask the Experts Panel: Transfer of Care and Handoffs
- Refresher Course: Transfusion Limbo—How Low Will You (Safely) Go?

The SPA/AAP meeting will offer a maximum 35 CME credits. Additional CME offerings on Thursday offer 9.5 credits for the Congenital Cardiac Anesthesia Society (CCAS), organized by Program Chair Wanda Miller-Hance, and 9.5 credits for the Society for Pediatric Pain Medicine (SPPM), organized by Program Chair Petra Meier-Haran. Please note that registration for the CCAS and SPPM meetings are separate from that for the SPA/AAP meeting.

Based on feedback from attendees at previous meetings, we have made changes to this year's program. We added a PBLD session on Saturday morning and will have fewer tables per session to reduce the noise in the PBLD area. Our sell-out workshops in ultrasound-guided regional anesthesia, advanced vascular access, echocardiography, moderating a PBLD, and difficult airway are being repeated, and we are adding an additional airway workshop because of the high demand. The financial planning workshop will be continued with a revised focus, and the faculty research workshop will be expanded to a half-day session. New workshops being added for this year are trans-thoracic echocardiography, a legal workshop with a mock trial, and a social media workshop.



Eugenie S. Heitmiller, MD, FAAP  
Program Chair

The Robert M. Smith Award has been presented at SPA since 1986 to honor an individual who has made outstanding contributions to the field of pediatric anesthesiology. I have the pleasure to announce that the AAP Robert M. Smith Awardee this year is Raafat Hannallah, MD, from Children's National Medical Center. Please join me in congratulating him and attend the award presentation at the beginning of the afternoon session on Friday.

Having the meeting in Fort Lauderdale around the time of Spring Break led us to the theme of the adolescent patient. On Friday, we will hear inspiring talks from two young ladies, Kelsey Tainsh and Kelsey Seymour, who have been challenged by illnesses that required multiple anesthetics. They will be followed by a talk on the perioperative management of patients with chronic pain and patients who are in chronic pain rehabilitation. After lunch on Friday we have the AAP Advocacy Lecture, and this year we are very fortunate to have Dr. Barbara Snyder, Chair of the AAP Section on Adolescent Health, as our AAP Advocacy

Speaker. Her talk is entitled Adolescence 101: Physical and Emotional Development. The Friday afternoon panel session that follows will address perioperative care during scoliosis surgery—a procedure commonly performed during the teenage years. The adolescent theme will continue on Saturday morning with a session on drug abuse in teens and its impact on anesthesia. We are very lucky to have two guest speakers for this topic: Dr. Wilson Compton from the National Institute on Drug Addiction, who will speak on the problem of teenage drug abuse, and Dr. David Birnbach, who will address the interactions of anesthetics and abused substances.

The general sessions also include topics important to anesthesiologists who care for pediatric patients of all ages. The opening session on Friday focuses on airway/respiratory issues, and Dr. Pamela Zeitlin, an internationally known expert on the forefront of cystic fibrosis research, will give our first talk on the advances in cystic fibrosis. She will be followed by Dr. Linda Mason, who will speak on the often-encountered problem of asthma in the perioperative period. The Saturday general session includes a timely talk by Dr. Keith Berge on the topic of chemical dependency and drug diversion by physicians.

Sunday opens with "Editors' Best Picks," where editors from *Anesthesiology*, *Anesthesia and Analgesia*, and *Pediatric Anesthesia* will review the past year's most significant articles. This will be followed by the ever-popular Pro/Con panel known as Family Feud, in which six members of our specialty are divided into two teams that each present opinions and best practices about important controversies in pediatric anesthesia. This year the teams will be private practice vs. academics, or "Town vs. Gown," moderated by Aubrey Maze (private practice) and Myron Yaster (academics).

As I complete my three-year term of involvement in the planning of this meeting, I would like to again extend a heartfelt thank you to all the members of the Program Organizing Committee and the AAP representatives, as well as the Education Committee, Nancy Glass and the SPA board members, and the wonderful staff at the SPA office. Their collective expertise and great ideas have helped to assemble what I believe will be an outstanding meeting!

\*Please consult the ABA website, [www.theABA.org](http://www.theABA.org), for a list of all MOCA requirements. Maintenance of Certification in Anesthesiology Program® and MOCA® are registered certification marks of The American Board of Anesthesiology®.

# 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 35 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 February 21, 2014 in order to receive service.

## Hotel Information

Highlighted by a pristine oceanfront location and close proximity to the airport, Marriott Harbor Beach Resort & Spa in Fort Lauderdale, Florida, embodies an upscale retreat. Secluded on 16 waterfront acres, guests enjoy an idyllic private beach setting near the area's top attractions. The resort's 22,000-sq-ft spa boasts indigenous treatments and views of sparkling Atlantic waters. Three restaurants span the resort hotel, including the upscale 3030 Ocean Restaurant with modern American seafood. An abundance of recreation, water sports, a tropical lagoon pool and children's activities make the resort's facilities one of a kind. For meetings and events, the resort on the beach offers 100,000 sq ft of combined indoor and outdoor event space. This beachfront resort is an authentic resort experience where memories are worth repeating.



The Society for Pediatric Anesthesia is pleased to offer for the first time, several opportunities to help fulfill your American Board of Anesthesiology Maintenance of Certification in Anesthesiology (MOCA)<sup>®</sup> Part II Patient Safety requirements at the SPA/AAP Pediatric Anesthesiology 2014 meeting!

By attending the following sessions, you are eligible to receive up to 3 credits that may be applied towards Part II: Lifelong Learning and Self-Assessment- Patient Safety requirements.

- Panel Presentation: New anesthesia machine ventilators – safer technology - Jeffrey M. Feldman, MD, MSE
- REFRESHER COURSE: Disclosure of Adverse Events - Herodotos Ellinas, MD
- AAP Ask the Experts Panel: Transfer of Care and Handoffs - Jamie M. Schwartz, MD; Thomas Taghan, DO
- REFRESHER COURSE: Transfusion Limbo – How low will you (safely) go? - Nina Guzzetta, MD

Please plan on attending these interesting and informative sessions!!

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](http://www.theABA.org), for a list of all MOCA requirements.

Maintenance of Certification in Anesthesiology Program<sup>®</sup> and MOCA<sup>®</sup> are registered certification marks of the ABA.



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## CONVENIENT ONLINE REGISTRATION

### ***FOR PEDIATRIC ANESTHESIOLOGY 2014!***

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, 2014. Printable forms are also available at [www.pedsanesthesia.org](http://www.pedsanesthesia.org)

#### **Hotel Accommodations**

Marriott Harbor Beach Resort

3030 Holiday Drive, Fort Lauderdale, FL 33316 • Phone: 1-888-789-3090 or 1-800-222-6543

SPA Group Rate: \$289 Single/Double

Cut-off date is Thursday, February 20, 2014.

Rooms and rates subject to availability.

Go to [www.pedsanesthesia.org](http://www.pedsanesthesia.org) for the link to make your hotel reservations online.  
Or call 888-789-3090 to make your reservations. Group Code: SPA Winter Meeting

# PROGRAM

## THURSDAY, MARCH 6, 2014

- 6:00 am – 5:00 pm**    **Registration**
- 8:00 am – 4:00 pm**    **Society for Pediatric Pain Medicine (SPPM) 1st Annual Meeting** (Separate registration required)  
**Congenital Cardiac Anesthesia Society (CCAS) 2014 Meeting** (Separate registration required)
- 4:00 pm – 7:00 pm**    **Special Workshops** (see page 11)

## FRIDAY, MARCH 7, 2014

- 6:30 am – 5:30 pm**    **Registration**
- 6:50 – 8:00 am**    **PBLDs** (see page 10)
- 7:00 – 8:00 am**    **Continental Breakfast with Exhibitors and Posters**
- 8:00 – 8:15 am**    **Welcome and Outline of Educational Program**  
*Nancy L. Glass MD, MBA, FAAP; Genie Heitmiller, MD, FAAP; Joseph D. Tobias, MD, FAAP*

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### Session I: “You Take My Breath Away”

*Moderator: Butch Uejima, MD*

- 8:15 – 8:45 am**    **Cystic Fibrosis – What’s New for the Anesthesiologist**  
*Pam Zeitlin, MD*
- 8:45 – 9:15 am**    **Advances in Managing Asthma during the Perioperative Period**  
*Linda Mason, MD*
- 9:15 – 9:45 am**    **New Ventilation Modes - The Path to Optimal and Safer Ventilation**
- 9:45 – 10:00 am**    **Discussion**
- 10:00 – 10:30 am**    **Coffee Break with Exhibitors and Posters**



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### Session II: “Strength, Courage and Wisdom”

*Moderator: Robert B. Bryskin, MD*

- 10:30 – 11:10am**    **Learning from Our Patients**  
*Katherine “Kasey” Seymour; Kelsey Tainsh*
- 11:10 – 11:35 am**    **Perioperative Management of the Pediatric Chronic Pain Patient: What Anesthesiologists Need to Know**  
*Tracy E. Harrison, MD*
- 11:35 – 11:45 am**    **Discussion**
- 11:45 am – 12:45 pm**    **Lunch with Exhibitors and Posters**

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### Session III: AAP Session

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

- 12:45 – 1:00 pm**    **AAP Robert M. Smith Presentation**  
*Constance S. Houck, MD, FAAP*  
Award Recipient: Raafat Hannallah, MD, Children’s National Medical Center
- 1:00 – 1:45 pm**    **AAP Advocacy Lecture**  
Adolescence 101: Physical and emotional development  
*Barbara K. Snyder MD, FAAP; Chair of the AAP Section on Adolescent Health*
- 1:45 – 2:00 pm**    **Discussion**

# PROGRAM

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## Session IV: “Trouble with the Curve”

Moderator: Catherine Bachman, MD

- 2:00 – 3:15 pm**    **Scoliosis Panel: Anesthetic Techniques, Blood Conservation, and Acute Pain Management for Spinal Fusion**  
*Mary Ellen McCann, MD, MPH – Neuro Protection*  
*Bishr Haydar, MD – Blood Conservation*  
*Patrick A. Ross, MD – Acute Pain Management*
- 3:15 – 4:00 pm**    **Break with Exhibitors and Posters**
- 3:30 – 6:30 pm**    **Special Workshops** (see page 11)

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## Session V: Refresher Courses

- 4:00 – 4:45 pm**    **REFRESHER COURSE: Resuscitation Science Update**  
*Jennifer Lee-Summers, MD*
- 4:45 – 5:30 pm**    **REFRESHER COURSE: Disclosure of Adverse Events**   
*Herodotos Ellinas, MD, FAAP*
- 5:30 – 7:00 pm**    **Reception with Exhibitors**

## SATURDAY, MARCH 8, 2014

- 6:30 am – 5:00 pm**    **Registration**
- 6:50 – 8:00 am**    **PBLDs** (see page 10)
- 7:00 – 8:00 am**    **Continental Breakfast with Exhibitors and Posters**

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## Session I: “A Clear and Present Danger”

Moderator: Jeffrey L. Galinkin, MD, FAAP

- 8:00 – 8:30 am**    **Drug Abuse in Adolescents**  
*Wilson Compton, MD, MPE*
- 8:30 – 9:00 am**    **Anesthetic Interactions with Abused Substances**  
*David J. Birnbach, MD, MPH*
- 9:00 – 9:30 am**    **Drug Diversion and the Anesthesiologist**  
*Keith Berge, MD*
- 9:30 – 9:45 am**    **Discussion**
- 9:45 – 10:15 am**    **Coffee Break with Exhibitors and Posters**

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## Session II: Poster Presentations and Awards

- 10:15 – 11:00 am**    **Oral Presentations and Abstract Awards**  
*Moderators: Joseph D. Tobias, MD, FAAP; Genie Heitmiller, MD FAAP*
- 11:00 am – 12:30 pm**    **Walk around Posters/Discussion Sessions**  
*Session Moderators: Shobha Malviya, MD, FAAP; Helen Lee, MD; Jennifer Lee-Summers, MD; Richard Levy, MD; Wanda Miller-Hance, MD; Philip Morgan, MD; Olubukola Nafiu, MD; Olutoyin Olutoye, MD; Senthil Sadhasivam, MD; Susan Verghese, MD; Terri Voepel-Lewis, PhD, RN; Mehernoor Watcha, MD*
- 12:30 – 1:45 pm**    **Lunch on your own**



# PROGRAM

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## Session III: AAP Ask the Experts Panel

Moderator: Carolyn Bannister, MD, FAAP

**1:45 – 2:45 pm**    **AAP Ask the Experts Panel: Transfer of Care and Handoffs**  
*Jamie M. Schwartz, MD; Thomas Taghon, DO*



**2:45 – 3:00 pm**    **Break**

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## Session IV: Refresher Courses

**3:00 – 3:45 pm**    **REFRESHER COURSE: The Single Ventricle vs. the Laparoscope**  
*Scott C. Watkins, MD*

**3:45 – 4:30 pm**    **REFRESHER COURSE: Transfusion Limbo – How low will you (safely) go?**  
*Nina A. Guzzetta, MD*



**3:00 – 6:00 pm**    **Special Workshops**

**4:30 – 5:40 pm**    **PBLDs** (see page 10)

## SUNDAY, MARCH 9, 2014

**7:00 – 8:10 am**    **PBLDs**

**7:00 – 8:15 am**    **Continental Breakfast**

**8:15 – 11:15 am**    **CRNA Symposium: Anesthetic Issues Related to the Fetus And Newborn**

**Brain Damage in the OR: Anesthesia and Neurotoxicity**

*Andreas W. Loepke, MD, PhD, FAAP*

**Before They're Born: Anesthesia for Fetal Surgery**

*Joan Beiersdorfer, CRNA*

**Born Blue: Anesthesia and CHD**

*Kristine Faust, CRNA*

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## Session I: Editors' Best Picks

Moderator: Anna Varughese, MD

**8:15 – 8:35 am**    **Anesthesiology**  
*J. Lance Lichtor, MD*

**8:35 – 8:55 am**    **Anesthesia and Analgesia**  
*Peter J. Davis, MD*

**8:55 – 9:15 am**    **Pediatric Anesthesia**  
*Charles J. Coté, MD, FAAP*

**9:15 – 9:45 am**    **Audience Discussion and Questions**

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## Session II: Family Feud

Moderators: Myron Yaster, MD and Aubrey Maze, MD

**9:45 – 11:15 am**    **Town and Gown: Private Practice vs Academia**  
Private Practice (Town): *Allison Fernandez, MD; Napoleon Burt, MD; Karen S. Bender, MD*  
Academia (Gown): *Pilar E. Castro, MD; Manon Haché MD; Stuart R. Hall, MD*

**11:15 – 11:30 am**    **Educational Summary**  
**Adjourn**

# PROBLEM-BASED LEARNING DISCUSSIONS

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

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## Friday, March 7, 2014; 6:50 am-8:00 am

- Table # 1 Cardiac Arrest during Resection of a Sacrococcygeal Teratoma in a Premature Neonate with a Large Patent Ductus Arteriosus-Neelima Myneni, MD; Mohamed A. Rehman, MD
- Table # 2 Management of Elevated Intracranial Pressure after Bidirectional Glenn-Andrew J. Matisoff, MD; Srijava K. Reddy, MD
- Table # 3 "This Kid Just Doesn't Look Right" - Gut Feelings in a World of Evidence Based Medicine-Amy E. Vinson, MD; Linda Bulich, MD
- Table # 4 Loss of End-tidal CO<sub>2</sub> during Repair of Tracheoesophageal Fistula: Things Never Happen the Same Way Twice-Pornswan Ngamprasertwong, MD; Paul J. Samuels, MD
- Table # 5 When is an Inhaled Foreign Body Not Just an Inhaled Foreign Body?-Rajvinder S. Dhamrait, MD, FRCA; Sarah A. Maclean, MBChB
- Table # 6 Kidney Transplantation in a Pediatric Patient with Fontan Physiology -Kimberly Ngo, MD; Lawrence Israel Schwartz, MD
- Table # 7 Machine Problems (Yikes!) in a Patient with a BT Shunt-Kristin L. Richards, MD; Laura A. Hastings, MD, FAAP
- Table # 8 Perioperative Management of Complex Regional Pain Syndrome in a Child with Baseline Anxiety and Attention Deficit Hyperactivity Disorder -Meredith R. Brooks, MD, MPH; Brenda Golianu, MD
- Table # 9 Post-Induction Cardiac Arrest in a Child with Diabetic Ketoacidosis Presenting for Emergency Exploratory Laparotomy-Uma R. Parekh MBBS, FRCA; Priti G. Dalal MD, FRCA
- Table # 10 Consent Without Assent: What Should the Anesthesiologist Do When the Adolescent Refuses, Mom Says 'Yes' to Emergency Surgery?-Anna Clebone, MD; Paul A. Tripi, MD
- Table # 11 From Scoliosis to Cerebral Thrombosis...How Did We Get There?-Steve Serlin, MD; Neil Raj Singhal, MD
- Table # 12 An On-Call Nightmare: Epistaxis in an Anticoagulated VAD Patient -Pablo Motta, MD; Premal Trivedi, MD
- Table # 13 We're Doing WHAT!? Patient-Oriented Care for a Sitting Followed by an Awake Craniotomy in a 12 Year Old-Jennifer L. Hernandez, MD; Justin L. Lockman, MD
- Table # 14 Tonsillectomy: 3000 Years Old and Still Evolving-Virginia Gauger, MD; Rebecca Nause-Osthoff, MD
- Table # 15 When it Rains, it Pours- Large AVM, Heart Failure, Pulmonary HTN, and Now There is V-Tach!-Christina D. Diaz, MD; Rose Campise-Luther, MD
- Table # 16 A Child with Mitochondrial Metabolic Disorder and its Anesthetic Implications-Ahmed Fikry Attaallah, MD, PhD; Pavithra Ranganathan, MD

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## Saturday, March 8, 2014; 6:50 am-8:00 am

- Table # 17 Anesthetic Implications of Duchenne Muscular Dystrophy-Monica Hoagland, MD; Thomas J. Mancuso, MD, FAAP
- Table # 18 An Unresponsive Anesthesia Resident on Call: When the Physician Becomes the Patient-Allan F. Simpaio, MD; Alan Jay Schwartz, MD, MSED
- Table # 19 Clothesline Injury to Neck with Transected Trachea and Broken Cervical Spine-Debnath Chatterjee, MD; Rita Agarwal, MD, FAAP
- Table # 20 Evolving Pneumonia in a 9 Month-Old Requiring Placement of a Chest Tube - Danger Lurks in Interventional Radiology-Diane Gordon, MD; Smokey J. Clay, MD
- Table # 21 Oh No, My Next Case is a 15 Year Old Who Needs This Operation; But, He's DNR-David G. Mann MD; Nathaniel H. Greene MD
- Table # 22 Why Are You Ruining My EP Study?-Michelle L. Schlunt, MD; Charles Lee, MD

Table # 23 Not Your Average Weekend Case: VATS for Anterior Mediastinal Mass Biopsy-Andrew J. Costandi, MD; Mohamed Mahmoud, MD

Table # 24 Liver Transplantation in a Three Week Old Neonate with Hemochromatosis -Lianne L. Stephenson, MD; Christian Seefelder, MD

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## Saturday, March 8, 2014; 4:30 pm-5:40 pm

- Table # 25 Anesthetic Considerations for a Three Year-Old Ex-Premature Male with Autism, Craniosynostosis, and an Inguinal Hernia Scheduled for Outpatient Laparoscopic Surgery-Vincent J. Kopp, MD, FAAP; Matthias W. Konig, MD, FAAP
- Table # 26 Tracheoesophageal Fistula Repair in a Premature Infant with VACTRL, Infradiaphragmatic TAPVR, and Pulmonary Hypertension-Annette Y. Schure MD, DEAA; Lauren N. Welsh, MD
- Table # 27 Anesthetic Management of the Obese Pediatric Patient: Should Our Perioperative Roles Expand?-Frank Stewart, MD; Gregory Schnepfer, MD
- Table # 28 Help! He Was Just Awake, Now He's Not! Acute Cerebral Herniation During Pre-Operative Evaluation-Leo Martinez-Rowe, MD; Lindsey Loveland Baptist, MD
- Table # 29 Infant with Pentalogy of Cantrell with Tetralogy of Fallot Requiring Omphalocele Repair-Laura Downey, MD; James Petyon, MD
- Table # 30 Perioperative Management of Stroke in an Adolescent with Moya Moya and Sick Cell Disease Presenting for Pial Synangiosis-Doreen E. Soliman, MD; Brian Blasiole, MD
- Table # 31 The "LAST" Surgery Prior to NICU Graduation with Unexpected Cardiac Arrest-Jennifer Dillow MD, FAAP; Thomas Long MD, FAAP
- Table # 32 16 Year-Old Middle Eastern Girl with Thalassemia SS and Significant Snoring, Who is Scheduled for Spinal Fusion Surgery-Tara Hata, MD; Alice Seifarth, MD

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## Sunday, March 9, 2014; 7:00-8:10 am

- Table # 33 Regional Anesthesia in Patients at Risk For Compartment Syndrome or Re-Perfusion Injury? Example of a Patient With Emery-Dreifuss Muscular Dystrophy-Kai Matthes MD, PhD; Raymond Park MD
- Table # 34 A Pediatric Patient With Benign Intracranial Hypertension and a Post Dural Puncture Headache: Should We Do an Epidural Blood Patch?-Priti G Dalal, MD; Sonia Vaida, MD
- Table # 35 Massive Hemorrhage with Nuss Bar Removal and Massive Transfusion Protocol in a Tertiary Care Center-John S. Jones, MD; Raj Singhal, MD
- Table # 36 Cervical Cord Obstruction, Bronchial Compression: Which Should be Fixed First? -Inna Maranets, MD; Shu-Ming Wang, MD
- Table # 37 A Case of a Neonate With a Congenital Laryngeal Web: Management of a Difficult Airway and Intra-Operative Complications-Marcellene Franzen, MD; Susan Staudt, MD, MSED
- Table # 38 A Patient with a Prolonged QT Interval and Timothy Syndrome-J. Nick Pratap, MB Chir, MRCPCH, FRCA; Matthew C. Mitchell, DO
- Table # 39 Low-dose Ketamine as Part of a Multi-Modal Pain Strategy for a Neonatal CDH Repair While on ECMO-F. Wickham Kraemer III, MD; Harshad G. Gurnaney, MBBS
- Table # 40 Anesthetic Issues in Children with Morquio Syndrome: No Such Thing as a Minor Anesthetic-Robert P. Brislin, DO; Mary C. Theroux, MD
- Table # 41 The Fast and the Feverish-Rahul Bajjal, MD; Chris D. Glover, MD
- Table # 42 A Fatal Medication Error: Navigating the Legal and Ethical Minefields After a Tragic Outcome-Michael J. Mulick, DO; Douglas R. Thompson, MD

# WORKSHOPS & REFRESHER COURSES

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

First fee listed is through 2/18/2014 and second is after 2/18/2014.

THURSDAY, MARCH 6, 2014		
TIME	TITLE	FEE
4:00 - 6:00 p.m.	Acupuncture Pain Management – Yuan-Chi Lin, MD, MPH; Rosalie Tassone, MD, MPH	\$70/\$90
4:00 - 7:00 p.m.	Advanced Ultrasound Guided Regional Anesthesia – Senior Faculty: Santhanam Suresh, MD; Amod Sawardekar, MD; Adrian T. Bosenberg, MB, ChB, FFA; Arjunan Ganesh, MBBS. Junior Faculty: Karen R. Boretsky, MD; Jami Eidem, MD; Alan Bielsky, MD; Benjamin J. Walker, MD	\$240/\$275
Friday, March 7, 2014		
2:30 - 6:30 p.m.	Pediatric Anesthesia Research: Raising the Bar - Jerome Parness, MD, PhD; Richard J. Levy, MD; Olutoyin Olutoye MD, FAAP	\$50
3:30 - 6:30 p.m.	Advanced Techniques for Peripheral Vascular Access – Gregory J. Schears MD; Paul J. Fronapfel, MD; Kendra Grim, MD; Dawit T. Haile, MD; Ryan Hamlin, MD; Scott D. Markowitz, MD; Shannon Peters, MD; Steven W. Samoya, MD; Jessica Lorenz, MD; Louis M. Zabala, MD	\$105/\$125
3:30 - 6:30 p.m.	Advanced Ultrasound Guided Regional Anesthesia – Senior Faculty: Santhanam Suresh, MD; Amod Sawardekar, MD; Adrian T. Bosenberg, MB, ChB, FFA; Arjunan Ganesh, MBBS. Junior Faculty: Jessica J. Buren, MD; Harshad G. Gurnaney, MBBS, MPH; Kimberly Nguyen, MD; Megha Patel, MD	\$240/\$275
3:30 - 6:30 p.m.	Transthoracic Echocardiography (TTE) – Thomas Burch, MD; James DiNardo, MD; Wanda C. Miller-Hance, MD	\$105/\$125
3:30 - 6:30 p.m.	Difficult Pediatric Airway – John Fiadjo MD; David M. Polaner MD, FAAP; Narasimhan Jagannathan, MD; Todd J. Kilbaugh, MD; Jennifer Lam, DO; John J. McCloskey, MD; Amish Patel, MD; Lisa Sohn, MD; Paul A. Stricker, MD; Judit Szolnoki, MD; Christopher G. Ward, MD; Jennifer Zeig, MD	\$105/\$125
Saturday, March 8, 2014		
3:00 - 5:00 p.m.	Financial Planning – Charles P. Boinske, CFA	\$70/\$90
3:00 - 5:00 p.m.	How to Design and Moderate an Effective PBLD – Kirk Lalwani MD, FRCA, MCR; Nancy L. Glass MD, MBA, FAAP	\$25
3:00 - 5:00 p.m.	Integrating Acupuncture in Pediatric Peri-operative Practice – Yuan-Chi Lin MD, MPH; Brenda Golianu MD; Rosalie Tassone MD, MPH; Cynthia Tung MD, MPH; Shu-MingWang MD	\$70/\$90
3:00 - 5:00 p.m.	Mock Trial – Robert Greenberg, MD; Eric Jackson, MD, MBA; Brian Wilhelmi, MD, JD	\$25
3:00 - 5:00 pm.	Social Media and Information Technology in Anesthesia *Bring your own device for demonstration/discussion-Jorge Galvez, MD; Ann Hau, MD; Allan Simpaio, MD	\$25
3:00 - 6:00 p.m.	Difficult Pediatric Airway-Sam Wald, MD; Ellen Choi, MD; Oleg Drozhinin, MD; Cheryl K. Gooden, MD; Agnes I. Hunyady, MD; Peter G. Kovatsis, MD; Justin L. Lockman, MD; Maria Matuszczak, MD; Patrick Olomu, MD; Thomas L. Shaw, MD; Peter Szmuk, MD; Bistra G. Vlassakova, MD	\$105/\$125
3:00 - 6:00 p.m.	Transesophageal Echo (TEE)-Thomas Burch, MD; James DiNardo, MD; Wanda C. Miller-Hance, MD	105/\$125

## 2014 BRINGS NEW OFFERINGS, UPDATES & GREAT SPEAKERS!

- MOCA approved sessions - The Society for Pediatric Anesthesia is pleased to offer several opportunities to help fulfill your American Board of Anesthesiology Maintenance of Certification in Anesthesiology (MOCA)® Part II Patient Safety requirements.
- Guest speakers:
  - Dr. Wilson Compton from the National Institute on Drug Addiction will speak on the problem of teenage drug abuse
  - Dr. David Birnbach will address the interactions of anesthetics and abused substances.
  - Dr. Pamela Zeitlin is an internationally known expert on the forefront of cystic fibrosis research.
  - Dr. Keith Berge will address the topic of chemical dependency and drug diversion by physicians.
  - Katherine “Kasey” Seymour - Loyola University student living with cystic fibrosis.
  - Kelsey Tainsh - Brain tumor and stroke survivor, entrepreneur, philanthropist and motivational speaker
- AAP Advocacy Lecture - Dr. Barbara Snyder, Chair of the AAP Section on Adolescent Health
- AAP Robert M. Smith Award - Raafat Hannallah, MD; Children's National Medical Center
- Revamped Ask the Experts Panel
- New Research Workshop – The SPA Research Committee has developed a new four-hour research workshop for faculty interested in academic anesthesiology.
- Mock Trial Workshop
- TWO Difficult Airway Workshops
- Morning and Afternoon PBLDs



# OBJECTIVES

## Program Objectives

FRIDAY, MARCH 7, 2014

### Session I: “You Take My Breath Away”

#### Cystic Fibrosis – What’s New for the Anesthesiologist

*Pam Zeitlin, MD*

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

- Describe the changing epidemiology for patients with cystic fibrosis.
- Review the pathophysiologic changes associated with cystic fibrosis.
- Discuss the vital components of the preoperative evaluation for patients with cystic fibrosis.

#### Advances in Managing Asthma during the Perioperative Period

*Linda Mason, MD*

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

- Describe current best practice for preoperative management of asthma in childhood and adolescence.
- Define criteria for use of pharmacotherapy in the anesthetized patient.
- Discuss best practice for the actively wheezing patient in the perioperative period.

#### New Ventilation Modes - The Path to Optimal and Safer Ventilation (MOCA)

*Jeffrey M. Feldman, MD, MSE*



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

- Describe ventilator changes that have enabled development of new ventilator modes.
- Describe ventilator modes available on newer anesthesia machines.
- Review clinical implications of selecting ventilator modes.

### Session II: “Strength, Courage and Wisdom”

#### Learning from Our Patients

*Katherine “Kasey” Seymour; Kelsey Tainsh*

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

- Describe first hand-experiences as a patient.
- Characterize conditions that could be improved (“What I liked the least”).
- Discuss interactions that provided the optimal anesthetic experience (“What I liked the most”).

#### Perioperative Management of the Pediatric Chronic Pain Patient: What Anesthesiologists Need to Know

*Tracy E. Harrison, MD*

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

- Characterize the impact of chronic pain in the perioperative period.
- Describe the strategy of chronic pain rehabilitation.
- Discuss best practices for the treatment of acute pain in the chronic pain patient.

### Session III: AAP Session

#### AAP Advocacy Lecture

##### Adolescence 101: Physical and Emotional Development

*Barbara Snyder MD, Chair of the AAP Section on Adolescent Health*

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

- Recognize the range of normal patterns of physical growth and pubertal development.
- Describe adolescent psychosocial development and how it affects health risk behaviors.
- Identify common health risk behaviors in adolescents, including substance use, unsafe sexual activity, mood disorders and violence.

### Session IV: “Trouble with the Curve”

#### Scoliosis Panel: Anesthetic Techniques, Blood Conservation, and Acute Pain Management for Spinal Fusion

*Mary Ellen McCann, MD, MPH – Neuro Protection*

*Bishr Haydar, MD – Blood Conservation*

*Patrick A. Ross, MD – Acute Pain Management*

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

- Identify methods of neuro protection during spine surgery.
- Discuss techniques for blood conservation and transfusion therapy during spine surgery.
- Describe best practices for acute pain management after spine surgery.

### Session V: Refresher Courses

#### REFRESHER COURSE: Resuscitation Science Update

*Jennifer Lee-Summers, MD*

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

- Discuss changes in the most recent updates in Pediatric Advanced Life Support (PALS) guidelines.
- Discuss the scientific rationale behind the most recent updates.
- Describe special adaptations of PALS to the perioperative setting.

#### REFRESHER COURSE: Disclosure of Adverse Events (MOCA)

*Herodotos Ellinas, MD, FAAP*



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

- Discuss current issues related to disclosure of adverse events.
- Identify barriers to disclosure.
- Characterize important communication strategies for effective disclosure.
- Summarize available resources for disclosure of adverse events.

SATURDAY, MARCH 8, 2014

### Session I: “A Clear and Present Danger”

#### Drug Abuse in Adolescents

*Wilson Compton, MD, MPE*

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

- Characterize the epidemiology of drug abuse in adolescents.
- Discuss strategies to screen and assess substance abuse in adolescents.



# OBJECTIVES

## Anesthetic Interactions with Abused Substances

David J. Birnbach, MD, MPH

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

- Describe the situations in which abused substances can impact the anesthesia plan.
- Discuss the interactions of abused substances with different anesthetic agents.
- Identify the anesthetic implications of poly-substance abuse.

## Drug Diversion and the Anesthesiologist

Keith Berge, MD

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

- Describe strategies for identifying drug diversion.
- Identify methods for preventing drug diversion.
- Discuss use of routine drug screening for anesthesiologists and other high risk professional groups.

## Session III: AAP Ask the Experts Panel

### Transfer of Care and Handoffs

Jamie M. Schwartz, MD; Thomas Taghon, DO

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

- List critical elements of different handoffs that occur in the perioperative setting.
- Describe the importance of handoff communication in continuity of care and patient safety; list frequent deficiencies.
- Discuss tools for implementing a formalized handoff process in perioperative settings.

## Session IV: Refresher Courses


### REFRESHER COURSE: The Single Ventricle vs. the Laparoscope

Scott C. Watkins, MD

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

- Review the pathophysiology of the single ventricle.
- Discuss the impact of laparoscopic surgery on single ventricle physiology.
- Describe optimal anesthetic techniques at various stages of single ventricle palliation.

### REFRESHER COURSE: Transfusion Limbo – How low will you (safely) go?

Nina A. Guzzetta, MD 

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

- Review current indications for the use of blood products in the perioperative period.
- Discuss recent scientific evidence for transfusion targets and triggers.
- Describe the risks and benefits of blood products in pediatric patients.

SUNDAY, MARCH 9, 2014

## Session I: Editors' Best Picks

J. Lance Lichtor, MD; Peter J. Davis, MD; Charles J. Coté, 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 from Anesthesiology, Anesthesia & Analgesia, and Pediatric Anesthesia.

## Session II: Family Feud

### Town and Gown: Private Practice vs Academia

Moderators: Myron Yaster, MD and Aubrey Maze, MD

Private Practice (Town): Allison Fernandez, MD; Napoleon Burt, MD; Karen Bender, MD

Academia (Gown): Pilar Castro, MD; Hanon Mache, MD; Stuart Hall, MD

Upon completion of this session, the participant will have the opportunity to review current pediatric anesthesia practice in academic and private practice settings.

## Workshop Objectives

THURSDAY, MARCH 6, 2014

### Acupuncture Pain Management

Yuan-Chi Lin, MD, MPH; Rosalie Tassone, MD, MPH

Upon completion of this workshop, participants will:

- Enhance their knowledge of acupuncture and have an opportunity to integrate acupuncture for the practice of pediatric pain medicine.
- Learn the principles of acupuncture; understand current practice of acupuncture in pediatric pain management.
- Participate in hands-on demonstration of acupuncture and related techniques.

### Advanced Ultrasound Guided Regional Anesthesia

Senior Faculty: Santhanam Suresh, MD; Amod Sawardekar, MD; Adrian T. Bosenberg, MB, ChB, FFA; Arjunan Ganesh, MBBS. Junior Faculty: Karen R. Boretsky, MD; Jami Eidem, MD; Alan Bielsky, MD; Benjamin J. Walker, MD

Upon completion of this low faculty-to-attendee ratio workshop, the participant will have an understanding of:

- Basic functions of the Ultrasound and probes.
- Differentiation machine settings for various age groups.
- Anatomy using Ultrasound guidance of all peripheral nerve blocks including upper and lower extremity, truncal, and central neuraxial blocks.
- Scanning and performing the most common peripheral nerve and central neuraxial blocks utilized in pediatric anesthesia practice.

# OBJECTIVES

## FRIDAY, MARCH 7, 2014

### **Pediatric Anesthesia Research: Raising the Bar**

*Jerome Parness, MD, PhD; Richard J. Levy, MD; Olutoyin Olutoye MD, FAAP*

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

- Choose a mentor.
- Choose a research topic – basic science vs. clinical research.
- Negotiate with funding agencies.
- Describe strategies for starting and maintaining a research career.

### **Advanced Techniques for Peripheral Vascular Access**

*Gregory J. Schears, MD; Paul J. Fronapfel, MD; Kendra Grim, MD; Dawit T. Haile, MD; Ryan Hamlin, MD; Scott D. Markowitz, MD; Shannon Peters, MD; Steven W. Samoya, MD; Jessica Lorenz, MD; Louis M. Zabala, MD*

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

- Demonstrate and practice the use of ultrasound to obtain peripheral venous access.
- Demonstrate and practice the use of intra-osseous 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**

*Senior Faculty: Santhanam Suresh, MD; Amod Sawardekar, MD; Adrian T. Bosenberg, MB, ChB, FFA; Arjunan Ganesh, MBBS. Junior Faculty: Jessica J. Buren, MD; Harshad G. Gurnaney, MBBS, MPH; Kimberly Nguyen, MD; Megha Patel, MD*

Upon completion of this low faculty-to-attendee ratio workshop, the participant will have an understanding of:

- Basic functions of the Ultrasound and probes.
- Differentiation machine settings for various age groups.
- Anatomy using Ultrasound guidance of all peripheral nerve blocks including upper and lower extremity, truncal, and central neuraxial blocks.
- Scanning and performing the most common peripheral nerve and central neuraxial blocks utilized in pediatric anesthesia practice.

### **Transthoracic Echocardiography (TTE)**

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

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

- Accurately interpret the results of a pediatric TTE as described by pediatric cardiology.
- Understand the mechanics of conducting a basic focused TTE examination
- Recognize major cardiac anatomical structures, assess ventricular systolic function, and assess volume status utilizing TTE.

### **Difficult Pediatric Airway**

*John Fiadjoe MD; David M. Polaner MD, FAAP; Narasimhan Jagannathan, MD; Todd J. Kilbaugh, MD; Jennifer Lam, DO; John J. McCloskey, MD; Amish Patel, MD; Lisa Sohn, MD; Paul A. Stricker, MD; Judit Szolnoki, MD; Christopher G. Ward, MD; Jennifer Zeig, MD*

Upon completion of this workshop, the participant will gain:

- Recognition of situations and pediatric syndromes in which alternative methods for 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.
- Hands-on experience with devices and technologies useful for securing the airway.

## SATURDAY, MARCH 8 2014

### **Financial Planning**

*Charles Boinske, CPA*

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

- Understand the key components of successful financial planning.
- Develop an action plan to address all financial planning issues, including those issues pertinent when nearing retirement.
- Avoid the five most common financial planning mistakes.
- Plan for income needs in the immediate future and for retirement.

### **How to Design and Moderate an Effective PBLD**

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

Upon completion of this 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.

### **Integrating Acupuncture in Pediatric Peri-operative Practice Workshop**

*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 an:

- Enhanced knowledge of acupuncture, including its history, theory, and the scientific evidence behind the practice of acupuncture.
- Understanding of acupuncture micro-system paradigms.
- Ability to integrate acupuncture into pediatric peri-operative practice.
- Opportunity to participate in hands-on demonstration of acupuncture and related techniques.

# OBJECTIVES

## Mock Trial

*Robert Greenberg, MD; Eric Jackson, MD; Brian Wilhelmi, MD, JD*

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

- Describe the integral concepts and legal strategies inherent to medical malpractice cases.
- Understand the benefits of disclosure and avoidance of malpractice claims.
- Describe those qualities that make an ideal witness in a medical malpractice case.
- Discuss preparation techniques for a deposition or trial testimony.

## Social Media and Information Technology in Anesthesia

*Jorge Galvez, MD; Ann Hau, MD; Allan Simpaio, MD*

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

- Describe and discuss the variety, potential uses, and potential misuses of social media.
- Employ best practices when working with protected health information in cloud-based environments.
- Appraise the functionality of applications intended to maximize the efficiency, safety, education, networking and best practices of anesthesia providers.
- Leverage the power of social networks for group projects and collaboration.

## Difficult Pediatric Airway

*Sam Wald, MD; Ellen Choi, MD; Oleg Drozhinin, MD; Cheryl K. Gooden, MD; Agnes I. Hunyady, MD; Peter G. Kovatsis, MD; Justin L. Lockman, MD; Maria Matuszczak, MD; Patrick Olomu, MD; Thomas L. Shaw, MD; Peter Szmuk, MD; Bistra G. Vlassakova, MD*

Upon completion of this workshop, the participant will gain:

- Recognition of situations and pediatric syndromes in which alternative methods for 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.
- Hands-on experience with devices and technologies useful for securing the airway.

## Transesophageal Echo (TEE)

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

Upon completion of these workshops, the participant will:

- Understand the mechanics of conducting a basic TEE exam.
- Understand the principles necessary to conduct a comprehensive exam in patients with complex congenital heart disease.

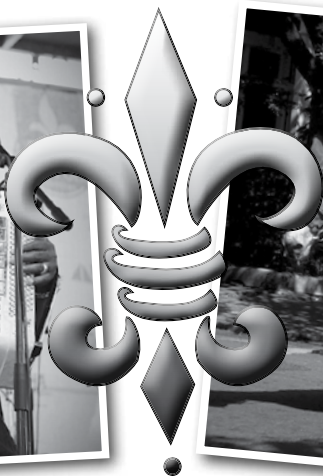
## PBLD Objectives

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.



# 28th Annual Meeting

October 10, 2014 New Orleans, Louisiana





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# 2014

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