



FIRST ANNUAL MEETING

Thursday, March 6, 2014

Marriott Harbor Beach • Ft. Lauderdale, FL

Welcome to the 1st Annual Society for Pediatric Pain Medicine (SPPM) Meeting!



Petra M. Meier, MD, DEAA

We are excited to welcome you to the 2014 Annual Meeting at the Marriott Harbor Beach Resort and Spa in sunny Ft. Lauderdale on Thursday, March 6, 2014. This wonderful location provides the setting for the advancement of education in the developmental aspects of pain in infancy and childhood, current controversies surrounding prescription drug abuse and diversion, and innovations in regional anesthesia, while interacting and networking with colleagues. You can extend your days in the sun by also registering for the SPA/AAP Pediatric Anesthesiology Meeting that will follow on March 7-9, 2014 at the same venue.

The SPA special interest group (SIG) on Pediatric Pain Medicine has grown up! While we have been able to offer you several well - received educational programs in recent years, this will be our 1st Annual Meeting as the Society for Pediatric Pain Medicine (SPPM). We have incorporated many suggestions from the feedback of attendees at our previous SIG meetings that have metamorphosed into a program of lectures, panel discussions, problem-based learning discussions and workshops with usable take home messages and ample time for interaction with the faculty. We are honored to have as our keynote speaker Professor Maria Fitzgerald from University College London who is an international expert in pediatric neurobiological processes that underlie the development of pain pathways.

This year's program offers something of interest to all who care for children in pain, whether you are an anesthesiologist in the operating room, a regional anesthesia enthusiast, a practitioner taking care of children in the perioperative period or in the pain clinic, a researcher interested in the effects of pain and analgesia on the developing brain or are concerned about the potential of opioid abuse in patients or staff.

We have assembled renowned faculty from across the country along with outstanding guest speakers to offer a unique educational experience. The first session focuses on a comprehensive update on the science and art of pain and analgesia in infants and young children, followed by a practical session on best practice for regional anesthesia from the operating room to home. At noon we offer the choice of a leisurely lunch with exhibitors and friends, a round table research discussion with our international keynote speaker, or problem-based learning discussions with our expert faculty. After lunch, we will address the ever-increasing problem of prescription drug abuse and diversion in children and adolescents and how you as the prescribing physician can decrease the odds for such outcome. Mid-afternoon we will approach a serious subject in regional anesthesia with a more light-hearted pro-con debate. The program concludes with a workshop on the nuts and bolts of establishing a pediatric pain program.

As I complete my service as Program Chair, I would like to extend my sincere gratitude and heartfelt thanks to Bob Wilder, my vice chair to whom I am passing the baton for next year's meeting, Sabine Kost-Byerly, our president whose tireless advocacy has made SPPM possible, Connie Houck, who encouraged and supported me as program chair, and the Educational Committee for their expertise and invaluable suggestions. I'd also like to extend my appreciation to the wonderful staff at the SPA office for their tireless assistance during this process. A huge "Thank You" goes to Boston Children's Hospital who helped us financially to realize our lofty goal of sharing with you the international expertise of our keynote speaker. Everyone's collective experience and great ideas made this outstanding program possible!

Enjoy your meeting and "Spring Break" in Ft. Lauderdale! I look forward to seeing you in Florida.

Petra M. Meier, MD, DEAA
SPPM, 1st Annual Meeting Program Chair

Faculty

Rita Agarwal, MD, FAAP

Children's Hospital Colorado
Denver, CO

Keith Berge, MD

Mayo Clinic
Rochester, MN

Joseph P. Cravero, MD, FAAP

Boston Children's Hospital
Boston, MA

Giovanni Cucchiario, MD, MPP

Children's Hospital Los Angeles
Los Angeles, CA

**Maria Fitzgerald, BA, PhD,
FMedSci**

University College
London, UK

Jeffrey L. Galinkin, MD, FAAP

Children's Hospital Colorado
Denver, CO

Arjunan Ganesh, MBBS

The Children's Hospital of Philadelphia
Philadelphia, PA

Katherine R. Gentry, MD

Seattle Children's Hospital
Seattle, WA

Harshad Gurnaney, MBBS, MPH

The Children's Hospital of Philadelphia
Philadelphia, A

Stephen Robert Hays, MD, FAAP

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

Constance S. Houck, MD

Boston Children's Hospital
Boston, MA

Sabine Kost-Byerly, MD

Johns Hopkins Charlotte R. Bloomberg
Children's Center
Baltimore, MD

Anne M. Lynn, MD

Seattle Children's Hospital
Seattle, WA

Petra M. Meier, MD, DEAA

Boston Children's Hospital
Boston, MA

Constance L. Monitto, MD

Johns Hopkins Charlotte R. Bloomberg
Children's Center
Baltimore, MD

David M. Polaner, MD, FAAP

Children's Hospital Colorado
Denver, CO

Meeting Information

Education Mission Statement

The SPPM meeting will focus on topics of interest to those involved in the prevention, assessment, and management of pain in infants, children, and adolescents. The overall goals for attendees of the program are to 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 care for children in pain.

Scope and Type of Activities

The program brings together experts from clinical and basic science disciplines related to pediatric medicine, anesthesiology, pain medicine, palliative care, bioethics and neurobiology. General topic areas include neurobiology, pathophysiology, pharmacology, regional anesthesia, anesthesia, surgery, patient safety, database resources, and risk assessment for abuse and addiction prevention. We will discuss practice and career management issues.

The presentation format is varied, and includes lectures, reviews, panel discussions, problem-based learning discussions, and workshops. Sessions provide a wealth of information and advances in the field of pain medicine which will improve future decisions in clinical practice. Significant attendee involvement and feedback are encouraged in all aspects of the program. 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 physicians including anesthesiologists, pediatricians, neurologists, surgeons and neonatologists as well as physicians in training but also other practitioners such as psychologists, advanced practice nurses, and social workers who care for children in pain in their practice in the operating room, critical care unit, procedural areas, pain clinics or are affiliated with multi-disciplinary treatment centers.

It is also intended for clinical and basic science researchers who are interested in clinical aspects of pain medicine and whose areas of investigation relate to pediatric pain medicine.

Accreditation and Designation

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 9 *AMA PRA Category 1 Credit(s)*[™]. 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 28, 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.

John B. Rose, MD

Cincinnati Children's Hospital
Medical Center
Cincinnati, OH

Leal Segura, MD

Mayo Clinic
Rochester, MN

Robin Slover, MD

Children's Hospital Colorado
Denver, CO

Alexandra Szabova, MD

Cincinnati Children's Hospital
Medical Center
Cincinnati, OH

Rosalie Tassone, MD, MPH

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Chicago, IL

Sathya Vadivelu, DO

Johns Hopkins Charlotte R. Bloomberg
Children's Center
Baltimore, MD

Tracy E. Wester, MD

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

Robert T. Wilder, MD, PhD

Mayo Clinic
Rochester, MN

CONVENIENT ONLINE REGISTRATION!

Visit 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

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 Rates: \$289
Cut-off date is Thursday, February 20, 2014.

Go to 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

Scientific Program

Program changes / substitutions may be made without notice.

- 6:00 am – 5:00 pm **Registration**
- 7:00 am – 8:00 am **Breakfast with Exhibitors**
- 8:00 am – 8:15 am **Welcome and Outline of Educational Program**
Petra Meier, MD, DEAA; Sabine Kost-Byerly, MD, FAAP

Session 1: Developmental Aspects of Pain

Moderator: Sabine Kost-Byerly, MD, FAAP

- 8:15 am – 9:05 am **Pain in Infancy & Childhood: A short and long term view**
Maria Fitzgerald, BA PhD FMedSci
- 9:05 am – 9:45 am **Developmental Pharmacokinetics/ Pharmacodynamics of Parenteral Opiates and NSAIDS in Infants: What are the problems?**
Anne M. Lynn, MD
- 9:45 am – 10:00 am **Panel Discussion**
- 10:00 am – 10:15 am **Coffee Break with Exhibitors**

Session 2: What's New in Regional Anesthesia?

Moderator: Robert T. Wilder, MD, PhD

- 10:15 am – 10:45 am **Children at Home with Regional Catheters**
Arjunan Ganesh, MBBS
- 10:45 am – 11:15 am **Avoiding Adverse Events in Regional Anesthesia – Best Practice**
David M. Polaner, MD, FAAP
- 11:15 am – 11:45 am **Pain Management for Minimal Invasive Procedures**
Constance S. Houck, MD
- 11:45 am – Noon **Discussion**
- Noon – 1:15 pm **Lunch with Exhibitors**
- Noon – 1:15 pm **Lunch with PBLDs** (additional registration fee required. See page 5 for a list of available PBLDs.)
- Noon – 1:15 pm **Lunch Roundtable Discussion** (Separate registration required. Limited to 20 registrants)
What has recent research told us about the measurement and treatment of infant pain?
Maria Fitzgerald, BA, PhD, FMedSci

Session 3: Pain Management is about Risk Management

Moderator: Rosalie Tassone, MD, MPH

- 1:15 pm – 1:45 pm **Prescription Drug Abuse in Teenagers and Risk Assessment: Current controversies**
Jeffrey L. Galinkin, MD, FAAP
- 1:45 pm – 2:15 pm **Drug Diversion by Your patient: REMS and YOU - the Opioid Prescribing Physician**
Keith Berge, MD
- 2:15 pm – 2:30 pm **Discussion**

Session 4: PRO and CON Debate

Moderator: Rita Agarwal, MD, FAAP

- 2:30 pm – 3:00 pm **Peripheral Nerve Blocks vs. Central Blocks**
Peripheral Nerve Block - Stephen R. Hays, MD, FAAP
Central Nerve Block - Constance L. Monitto, MD
- 3:00 pm – 3:15 pm **Rebuttal**
- 3:15 pm – 3:30 pm **Discussion - Who won the debate?**
- 3:30 pm – 3:40 pm **Concluding Remarks**
- 3:40 pm – 4:00 pm **Coffee Break with Exhibitors**

WORKSHOPS (Separate registration required)

- 4:00 pm – 6:00 pm **Developing a Pediatric Pain Program Workshop** (additional registration fee required)
Sabine Kost-Byerly, MD, FAAP; Giovanni Cucchiario, MD MPP; Alexandra Szabova, MD

SPA Workshops (Separate registration required)

- 4:00 pm – 6:00 pm **Acupuncture Pain Management Workshop (SPA)**
Yuan-Chi Lin, MD, MPH; Rosalie Tassone, MD, MPH
- 4:00 pm – 7:00 pm **Advanced Ultrasound Guided Regional Anesthesia (SPA)**
Senior Faculty: Santhanam Suresh, MD; Amod Sawardear, 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

Problem Based Learning Discussions (PBLDs)

Lunch Break-out Sessions

Registration is limited.

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|---|---|
| 1 | Does morphine infusion preclude regional anesthesia use in premature infants? An intersection of pharmacological, neurotoxicity and parental concerns - <i>Anne M. Lynn, MD and Katherine R. Gentry, MD</i> |
| 2 | Trials and Tribulations: Peripheral Nerve Catheters for Recurrent Complex Regional Pain Syndrome - <i>Stephen R. Hayes, MD, FAAP and Tracy E. Wester, MD</i> |
| 3 | Teenager with SMA, chronic pain, addiction issues wheelchair bound presents for G-tube revision - <i>Rita Agarwal, MD, FAAP and Robin Slover, MD</i> |
| 4 | "Are you aware that the plaintiff has designated you as an expert witness?" – The case of a child with CRPS and a personal injury litigation. - <i>Sabine Kost-Byerly, MD, FAAP and Sathya Vadivelu, DO</i> |
| 5 | Cardiac arrest after bolus of epidural catheter in a 9 year old boy - <i>Giovanni Cucchiaro, MD, MPP</i> |
| 6 | Post-operative pain management in a 6 year old undergoing a distal humerus sarcoma resection with endoprosthesis placement - <i>Arjunan Ganesh, MBBS and Harshad Gurnaney, MBBS, MPH</i> |
| 7 | You suspect a nurse of diverting their patients' pain medications. How do you proceed? - <i>Keith Berge, MD and Leal Segura, MD</i> |
| 8 | A 14 year old female with Ehlers-Danlos Syndrome with multiple hypermobile joints, recurrent right shoulder dislocation and chronic shoulder pain, chronic diffuse musculoskeletal pain, insomnia, chronic fatigue, and generalized anxiety disorder, presents for shoulder reconstruction - <i>Alexandra Szabova, MD; John B. Rose, MD</i> |
| 9 | 18 year old male with Pectus Excavatum scheduled for Nuss procedure. What are the current "best options" for perioperative pain management? - <i>Joseph P. Cravero, MD and Constance S. Houck, MD</i> |

Learning Objectives

Pain in Infancy & Childhood: A short and long term view

Maria Fitzgerald, BA PhD FMedSci

At the end of this session, the participant will:

- Understand that pain in infants and children differs from that in adults.
- Pain pathways in the spinal cord and brain undergo a series of developmental changes over infancy & childhood that impact upon pain measurement, pain sensitivity and pain treatment.
- Nerve injury and tissue inflammation in early life can have long term consequences upon pain processing in later life.

Developmental Pharmacokinetics / Pharmacodynamics of Parenteral Opiates and NSAIDs in Infants: What are the problems?

Anne M. Lynn, MD

During this session, the participant will:

- Review pharmacokinetics of commonly used opiates (especially morphine and fentanyl) in infants.
- Review pharmacokinetics of ketorolac in infants.
- Present possible explanations hampering use of analgesics in infants.

Children at Home with Regional Catheters

Arjunan Ganesh, MBBS

At the end of this session, the participant will:

- Be familiar with the indications for ambulatory continuous perineural infusions (CPNI).
- Understand the steps involved in development and monitoring of an ambulatory CPNI program.
- Learn the common problems encountered with ambulatory CPNI and the management of the same.

Avoiding Adverse Events in Regional Anesthesia – Best Practice

David M. Polaner, MD, FAAP

At the end of this session, the participant will:

- Appreciate what the most common adverse events are in pediatric regional anesthesia.
- Discern why particular blocks and practices might be associated with more or fewer complications. or adverse events.
- Devise strategies for measuring and mitigating adverse events and improving quality and outcomes.

Pain Management for Minimal Invasive Procedures

Constance S. Houck, MD

During this session, the participant will:

- Review the recent literature elucidating the amount and sources of pain with minimally invasive surgery.
- Outline recent studies on techniques to reduce shoulder pain and diffuse abdominal pain after laparoscopic surgery.
- List techniques that have been found to be effective in reducing pain after laparoscopic and thoracoscopic surgery and facilitating earlier hospital discharge.

Roundtable Discussion with Lunch (Limited to 20 people) What Has Recent Research Told Us About the Measurement and Treatment of Infant Pain?

Maria Fitzgerald, BA, PhD, FMedSci

At the end of this session, the participant will understand:

- Current measures of infant pain and analgesia rely on composite scores made up of behavioral observations and physiological measures.
- Recent research has focused upon direct measures of brain activity following painful procedures.
- These new methodologies provide new insights into pain activity in the human infant cortex and are likely to provide better measures of analgesic efficacy.

Prescription Drug Abuse in Teenagers and Risk Assessment: Current controversies

Jeffrey L. Galinkin, MD, FAAP

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

- Describe current abuse patterns for prescription drugs in adolescents.
- Describe current modifications to prescription drugs to prevent abuse.
- Understand the pros and cons of toxicology testing to prevent diversion and abuse and check compliance in adolescent patients.

Drug Diversion by Your Patient: REMS and YOU: The Opioid Prescribing Physician

Keith Berge, MD

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

- Describe the nature of the evolving epidemic of addiction created by the diversion of prescription opioid medications in the US.
- Understand how this negatively affects patients, addicted healthcare workers, co-workers, employers, and society at large.
- Understand workable systems to more effectively prevent and identify the diversion of drugs from the healthcare workplace, and know what resources are available to create such systems.

Peripheral Nerve Blocks vs. Central Blocks

Stephen R. Hays, MD vs. Constance L. Monitto, MD

Peripheral Nerve Block - Stephen R. Hays, MD, FAAP

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

- Review historical development of and current indications for peripheral nerve catheters in children.
- Discuss contraindications to and potential complications of peripheral nerve catheters in patients of any age.
- Reach informed conclusions regarding the appropriate role of peripheral nerve catheters in pediatric perioperative pain management.

Central Nerve Block - Constance L. Monitto, MD

- Review history of neuraxial catheter use in pediatric perioperative pain management.
- Review current indications and appropriate role of neuraxial catheters in children.
- Discuss contraindications to and potential complications of neuraxial catheters in children.

WORKSHOPS

Developing a Pediatric Pain Program Workshop (SPPM)

Sabine Kost-Byerly, MD, FAAP; Giovanni Cucchiaro, MD, MPP; Alexandra Szabova, MD

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

- Describe institutional needs and potential stakeholders.
- Present appropriate staffing and clinical care solutions.
- Identify components of a successful QA/QI program.

Acupuncture Pain Management Workshop (SPA)

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

Upon completion of this workshop, participants will have an enhanced knowledge of acupuncture and have an opportunity to integrate acupuncture for the practice of pediatric pain medicine. Participants will be able to learn the principles of acupuncture; understand current practice of acupuncture in pediatric pain management. Attendees will participate in hands-on demonstration of acupuncture and related techniques.

Advanced Ultrasound Guided Regional Anesthesia (SPA)

Senior Faculty: Santhanam Suresh, MD; Amod Sawardear, 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.

PROBLEM BASED LEARNING DISCUSSIONS (PBLDS)

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 decision-making in acute and chronic pediatric pain medicine, including potential dilemmas in patient evaluation, interdisciplinary management, research, ethics, and regulatory environments.