SOAP 2021
Annual Meeting
Building Bridges & Moving Forward
A Virtual Event
May 13-16
Program Guide
Jointly provided by the American Society of Anesthesiologists and the Society for Obstetric Anesthesia and Perinatology.

#SOAPAM2021
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SOAP 53rd Virtual Annual Meeting
Building Bridges & Moving Forward

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Additional educational Session Information and Abstracts can be found in the Meeting Syllabus. Visit www.soap.org to download.
Welcome!

On behalf of the SOAP Board of Directors and the 2020-2021 Annual Meeting and Live Events Committee, we are delighted to welcome you to the 2021 SOAP 53rd Virtual Annual Meeting.

The meeting theme of “Building Bridges and Moving Forward” could not be more appropriate for the times and our profession. As we look towards the future, we strive to find use cutting edge research, guidelines and the collective expertise of our specialty to provide our patients the highest level of care.

The virtual format has provided an opportunity for learner flexibility by bringing you education on your timeline. All the lectures presented during the 2021 meeting will be available on the virtual platform for 30 days to attendees.

We start our Thursday session with the much beloved “Best Case Report Session” lead by Dr. Klaus Kjaer. Join us to discuss some of this year’s most challenging clinical cases and hear discussion by our panelists on how to approach such patients. Next we move to the “What’s New in Obstetrics?” lecture given by invited lecturer Dr. Luis Pacheco, MD, from the Society of Maternal Fetal Medicine to hear about some of new concepts in the care of high risk parturients. Following these sessions, we will begin our Clinical Track which will be featured both Thursday and Friday night during the meeting. These sessions are 45 min clinical updates on a variety of topics that are important to the anesthesiologist providing care for OB patients. Some of the important topics covered include reviews of ERAC protocols, COVID and Sepsis in the Parturient, Non-obstetric surgery and a Patient Safety MOCA session on Airway Management in Pregnancy.

Friday Night our fellows will kick off the activities presenting some of their most challenging patient scenarios in the Fellow Case report session. Wondering where you will find the research posters? Don’t worry, a breadth of scientific research will be presented in moderated breakout rooms. We are also thrilled to present a session entitled “Patient with Placenta Accreta Spectrum Disorder: Where do you Deliver and How do you Do It?” by Dr. Michaela Farber and Dr. Carolyn Weiniger. Finally, we will conclude the Friday session with the remainder of our clinical track lectures featuring important topics like obesity in the parturient, a lively panel on obstetric emergencies where we will look at real world considerations with time is of the essence, and state of the art labor analgesia practices.

Saturday and Sunday feature some our most anticipated lectures where Dr. Grace Lim will present the annual Gerard W. Ostheimer Lecture – a review of the most important literature for the obstetric anesthesiologist in 2020. Saturday will also feature the trainee Gertie Marx Research Competition and the Best Paper Competitions, where the most highly rated scientific abstracts are presented and the researchers vie for the title of Gertie Marx champion or Best Paper of the annual meeting. We are thrilled that Dr. May Pian-Smith was selected to present the Fred Hehre Lecture which recognizes outstanding members of the obstetric anesthesiology field and their reflections on practice and life.

Knowing that schedules are ever-changing, over 100 case reports will also be available in a pre-recorded on-demand format.

Just because we are virtual does not mean that we have to miss out on socializing! Be sure to join us on Saturday, May 15 for the Charcuterie Class and Reception, where you can learn how to prepare a charcuterie board for your next get-together. Link up with friends across the country and watch the event or compete with each other at home to see who can design the best plate.

If you are a Fellow, the Fellows Reception on Saturday, May 15 is where you can meet and get to know your fellow colleagues from around the world along with program directors and SOAP board of directors. Join us in this Zoom breakout room format with a favorite screen shot behind you (pets, travel pictures, hobbies, favorite entertainment). We will also close out the 2021 Annual Meeting with a Sunday, May 16 Closing Reception where we will announce the winners of the Gertie Marx Research Competition, Best Paper Competition and other awards.

Sincerely,
Heather C. Nixon, MD
Annual Meeting and Live Events Committee, Chair
On behalf of the SOAP Board of Directors and the 2021 Annual Meeting & Live Events Committee, we are delighted to welcome you to the Society for Obstetric Anesthesia and Perinatology (SOAP) virtual 53rd Annual Meeting, May 13-16, 2021.

**Educational Program**

This meeting is dedicated to Building Bridges and Moving Forward, acknowledging the challenges we have faced as a medical profession and as a global community, while continuing to provide the highest level of care for our patients.

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**Mission Statement**
The Society for Obstetric Anesthesia and Perinatology (SOAP) was founded in 1968 to provide a forum for discussion of problems unique to the peripartum period. SOAP is comprised of anesthesiologists, obstetricians, pediatricians, and basic scientists from around the world who share an interest in the care of the pregnant patient and the newborn.

The mission of our society is to advance and advocate for the health of pregnant women and their babies through research, education, and best practices in obstetric anesthesia care. Our vision is safe and equitable care for women and newborns everywhere. Our mission, vision and core values are at the forefront of everything we do as a society.

Membership in SOAP is an opportunity to meet people who share your interests and to stimulate improvements in health care for pregnant patients. If you are a member, thank you! We are pleased to have you engaged in the society. If you are not currently a member, please join SOAP to become part of our growing community.

**ACCME Accreditation and Designation Statements**
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Society of Anesthesiologists and the Society for Obstetric Anesthesia and Perinatology. The American Society of Anesthesiologists is accredited by the ACCME to provide continuing medical education for physicians.

The American Society of Anesthesiologists designates this live activity for a maximum of 28.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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This activity contributes to the patient safety CME requirement for the CME component of the American Board of Anesthesiology’s (ABA) redesigned Maintenance of Certification in AnesthesiologyTM (MOCA®) program, known as MOCA 2.0®. Please consult the ABA website, www.theABA.org, for a list of all MOCA 2.0 requirements.
About This Meeting
Despite continued advances in medical technology, maternal morbidity and mortality continues to increase in the United States. The continued opioid crisis in the United States, its impact on postpartum analgesic and surgical modalities and the ongoing global pandemic provides a level of exigency to the current maternal morbidity and mortality rates.

Lack of knowledge of these emergent risk factors and improved anesthetic techniques can contribute to lower quality of care. The goal of this year’s meeting is to congregate experts to teach evidence-based methods and techniques to actionably improve maternal outcomes.

Target Audience
This meeting is intended for Anesthesiologists, Anesthesiologists Assistants, CRNAs, Nurses, Resident/Fellows, and Medical Students interested in the recent advances in obstetric anesthesia and the application of these advances to their practice.

Mission of the SOAP Annual Meeting/Live Events Committee
The mission of the AM/LE committee is to provide anesthesiologists, obstetricians, and other physicians and members of related allied health specialties with the knowledge that will reinforce past learning as well as disseminate new concepts, practices, and skills involving anesthesia and analgesia for the pregnant woman.

Participation in the SOAP 53rd Annual Meeting
Attendance is open to all health practitioners, provided that they have registered for the meeting. CME credit will only be offered to those with an MD, DO or equivalent.

Educational Format
CME activities may include the following formats: plenary sessions, debates, lectures, poster discussions, oral abstracts, problem-based learning, and skill-set workshops.

Annual Meeting Objectives
At the completion of this conference the participants should be able to:

1. Improve the care of the parturient through better understanding of the physiology of pregnancy and the impact of maternal disease, improved knowledge of anesthetic techniques, and implementation of safe practices.
2. Utilize an evidence-based approach when caring for the pregnant patient with COVID and to plan for the anesthetic management of pregnant patients in future pandemics.
3. Implement practices in the anesthetic management of the parturient undergoing cesarean section that will enhance recovery and provide postpartum analgesia using minimal opioids.
4. Develop specific measures that increase safety in care of the obese pregnant patient, the patient with placenta accreta, and the patient requiring surgery in the postpartum period.
5. Incorporate recommendations in the management of the pregnant patient who requires analgesia/anesthesia and who has either a difficult airway or thrombocytopenia.

Special Needs Statement
The American Society of Anesthesiologists and the Society for Obstetric Anesthesia and Perinatology are committed to making its activities accessible to all individuals and fully comply with the legal requirements of the Americans with Disabilities Act and the rules and regulations thereof. If you are in need of an accommodation, please do not hesitate to submit a description of your needs in writing to membership@soap.org.
Disclosure Policy
The American Society of Anesthesiologists remains strongly committed to providing the best available evidence-based clinical information to participants of this educational activity and requires an open disclosure of any potential conflict of interest identified by our faculty members. It is not the intent of the American Society of Anesthesiologists to eliminate all situations of potential conflict of interest, but rather to enable those who are working with the American Society of Anesthesiologists to recognize situations that may be subject to question by others. All disclosed conflicts of interest are reviewed by the educational activity course director/chair to ensure that such situations are properly evaluated and, if necessary, resolved. The American Society of Anesthesiologists educational standards pertaining to conflict of interest are intended to maintain the professional autonomy of the clinical experts inherent in promoting a balanced presentation of science. Through our review process, all American Society of Anesthesiologists CME activities are ensured of independent, objective, scientifically balanced presentations of information. Disclosure of any or no relationships will be made available for all educational activities.

Instructions on How to Receive Credit
In order to receive credit, participants must sign-in to the ASA Education Center, review the meeting information and complete the evaluation. Further instructions will be emailed to each participant immediately prior to and after the activity.

Disclaimer Statement
The information provided at this accredited activity is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient's medical condition.

Anti-Harassment Policy
To abide by our new anti-harassment policy in all venues at the SOAP Annual Meeting, including ancillary events and official and unofficial social gatherings:
  • Exercise consideration and respect in your speech and actions.
  • Refrain from demeaning, discriminatory, or harassing behavior and speech.
  • Be mindful of your surroundings and of your fellow participants.

Photo and Video Disclosure
Photos and video footage are periodically taken of people participating in a SOAP meeting. Please be aware that by registering for a SOAP meeting or participating in an activity or attending an event at a SOAP meeting, you authorize SOAP and its management company to use these photos and video footage for promotional purposes in SOAP publications, advertising, marketing materials, brochures, social media (including Facebook, YouTube, Instagram, Twitter, and other social media sites used by SOAP), and the SOAP website without additional prior notice or permission and without any compensation. All photos and videos are property of SOAP.
SESSION DESCRIPTIONS

Best Case Reports – Top 10
This live presentation highlights some of the most highly graded and interesting case reports submitted to the Annual Meeting. Cases were selected to represent a wide range of topics from various institutions and are sure to foster lively discussions among the panelists. There will be author and audience participation, via virtual chat function, to encourage interactive discussion. This session will be moderated by Dr. Klaus Kjaer, featuring panelists Dr. Jaime Daly, Dr. Bob Gaiser, and Dr. Emily Sharpe.

Best Paper Session
This curated session includes presentations from the top rated and most impactful research abstracts submitted this year. Presenters compete for the title of SOAP Annual Meeting Best Paper via presentations and a question-and-answer session. This competition will be moderated by Dr. Cynthia Wong, a highly distinguished researcher in the obstetric anesthesiology field.

Fellow Case Reports
These moderated sessions are designed to highlight educationally valuable case reports submitted and presented by obstetric anesthesiology fellows across the country. There will be opportunities to participate and ask questions regarding some of the most challenging clinical scenarios.

Research Poster Sessions
These moderated sessions, scheduled for both Friday and Sunday, showcase the state-of-the-art research being performed in obstetric anesthesia.

Oral Presentation Sessions
Oral presentations of diverse, high-quality and hand-selected peer-reviewed scientific research related to obstetric anesthesia will be presented, followed by a moderated question-and-answer session.

Case Reports – Live
These concurrent moderated sessions, presented on Saturday and Sunday morning, are designed to showcase interesting cases in various topic areas such as COVID, Practice Improvement, and Post Delivery Outcomes, among others. The sessions will feature engaging question-and-answer opportunities regarding these challenging clinical scenarios.

Case Reports – Pre-Recorded On-Demand
The amount of high-quality case reports was extraordinary this year, and the on-demand option allows attendees at your convenience access to pre-recorded case reports presented by the authors.

Fred Hehre Lecture
This session offers reflections from a renowned member of the obstetric anesthesia community, which bring insights into scope of practice changes over time and homes in on what matters most to the art and science of obstetric anesthesia practice. This year’s Fred Hehre lecturer will be Dr. May Pian-Smith.

Gerard W. Osteheimer Lecture
Always a highlight and one of the most highly anticipated sessions of the meeting, the Gerard W. Ostheimer lecture is a review of important, relevant, and/or practice-changing literature related to obstetric anesthesia, obstetrics, perinatology, and allied medical disciplines that was published in the preceding calendar year (2020). This digestible synthesis of the literature analyzes the clinical impact of published works and latest evidence-based advances in the field of obstetric anesthesia. This year’s Ostheimer lecturer will be Dr. Grace Lim.
Gertie Marx Research Paper Competition

Named in memory of obstetric anesthesia pioneer Gertie Marx, this research competition highlights the best quality research performed by our trainees (medical students, residents and fellows). Six presenters will compete in this judged competition, moderated by Dr. Richard Smiley.

Panel – Why do you Need an OB Anesthesia Fellowship?

This session—moderated by Dr. Bryan Mahoney and featuring panelists Dr. Agnes Lamon, Dr. Jackie Galvan and Dr. Greg Palleschi—will discuss the importance of an obstetric anesthesia fellowship as a critical element for institutions, advancing your professional skills, and obstetric anesthesia as a specialty.

Thrombocytopenia in the Laboring Patient

Dr. Melissa Bauer and Dr. Roulhac D. Toledano will review the common types of thrombocytopenia during pregnancy and how to perform a bleeding history assessment. They will also discuss how to apply the new SOAP consensus statement to a variety of clinical scenarios.

Panel – Disparities in Maternal Care: Providers, Patients and Outcomes

Dr. Allison Lee, Dr. Cesar Padilla, and Dr. Paloma Toledo will discuss the racial and ethnic disparities in maternal morbidity and mortality as well as inequities related to obstetric anesthesia care in the United States. They will share evidence for structural racism/provider bias in healthcare outcomes and the benefits of diversification of the anesthesia workforce, as well as how to develop a strategic framework for improving equity in maternal health outcomes.

Lessons Learned in Obstetric Anesthesia

In this innovative session, Dr. Joy Hawkins and Dr. Caitlin Sutton will share their reflections on learning the art and science of obstetric anesthesia from their unique perspectives and career paths.

CLINICAL TRACK

What’s New in Obstetrics Lecture

Dr. Luis Pacheco will present Tranexamic Acid and Obstetrical Hemorrhage, from the Maternal Fetal Medicine and Surgical Critical Care perspectives.

ERAC Update

Dr. Laurent Bollag and Dr. Carlos Delgado will outline the care elements that compose an enhanced recovery after cesarean (ERAC) delivery pathway and discuss the variances between different societal ERAC guidelines. Opportunities to improve elements of existing enhanced-recovery pathways and formulate strategies to address them will also be identified.

COVID/Sepsis Update

Dr. Emily Naoum and Dr. Arvind Palanisamy will review updates for treating sepsis in the peripartum period and share insights gained from research on COVID in pregnancy. They will share strategies for how, when, and for whom to escalate care, regardless of practice setting.

Non-Obstetric Surgery in Pregnancy and the Early Post-partum Period

Dr. Hans Sviggum and Dr. Valerie Zaphiratos will discuss how the pregnant state influences perioperative care as well as the impact of anesthesia and surgery on teratogenicity and fetal neurodevelopment. Techniques to evaluate both maternal and fetal outcomes following non-obstetric surgery will be reviewed along with how to formulate an anesthetic plan for the pregnant or post-partum woman undergoing non-obstetric surgery.

Patient with Placenta Accreta Spectrum Disorder: Where do You Deliver and How do You Do It?

Dr. Carolyn Weiniger and Dr. Michaela Farber will review managing patients with morbidly adherent placentation, including what types of resources and settings are safest for these patients.
The Obese Patient for Obstetric Anesthesia: Identifying Risk Factors in the Preoperative Clinic

Dr. C. LaToya Mason-Bolden and Dr. Jennifer Dominguez will share strategies to improve care of the obese parturient through a better understanding of associated comorbidities and complications. They will also review how to develop specific measures to increase patient safety and utilize effective communication practices.

When Time is of the Essence: Common Emergencies on the Labor & Delivery Floor

Dr. Alexander Butwick, Dr. Heather Nixon and Dr. Feyce Peralta take a case-based discussion approach to tackle some of the most common obstetric emergencies and the intricacies of system preparation and goal setting. The panelists will share guidelines and personal tips and strategies for system-based improvements for clinical situations involving eclamptic seizures, cord prolapse and postpartum hemorrhage. Be prepared for a lively debate.

Labor Analgesia: State of the Art

Dr. Jeanette Bauchat and Dr. Elizabeth Lange will describe the advantages and disadvantages of non-neuraxial labor analgesia techniques as well as how to delineate evidence-based practices and SOAP Center of Excellence best practices for neuraxial labor analgesia. There will be discussion of which recent articles have been most influential and most controversial in labor analgesia management.

PATIENT SAFETY MOCA LECTURES

Airway Management During Pregnancy

In this session, Dr. Jeremy Collins and Dr. Mary Mushambi will provide an update on airway-related morbidity and mortality during rapid sequence induction (RSI) in the pregnant woman. There will also be discussions on how to improve patient safety by addressing non-technical as well as technical skills.

A Unit in Crisis – How Do I Fix It? Patient Safety on Labor and Delivery

Dr. Rachel Kacmar and Dr. Grant Lynde will present sources of patient safety related metrics and initiatives related to obstetric anesthesia, discuss how to implement quality improvement activity and how attendees can critique their medical practice as it relates to national patient safety initiatives.
SOAP 2021 Annual Meeting Agenda

*all time are listed in CST

THURSDAY, MAY 13

3:30pm  
Access to the AccelEvents platform begins

4:00-4:15pm  
Welcome Remarks
Ruth Landau, MD – SOAP President
Heather C. Nixon, MD - Annual Meeting/Live Events Chair

4:15-5:15pm  
Best Case Reports – Top 10
Moderator:  Klaus Kjaer, MD
Panelists: Jaime Daly, MD; Emily Sharpe, MD, Robert Gaiser, MD
Speakers:

1. Post-partum Veno-Venous Extracorporeal Membrane Oxygenation in a COVID-19 patient as a bridge to lung transplantation – Ioannis Angelidis, MD
2. Chloroprocaine Labor Epidural for Parturient with Local Anesthetic Resistance - Michael Brule, MD
3. Combined Craniotomy and Cesarean Section in an Acutely Neurologically Compromised Parturient - Jose Andrew Iglesias, MD
4. Anesthetic Management of a Parturient with Recurrent Pulmonary Artery Sarcoma and Severe Pulmonary Hypertension for Cesarean Section: A Case Report - Benjamin Houseman, MD
5. Management of a pregnant patient on dual anti-platelet therapy - Jiaxin Huang, MD
6. Urgent Cesarean Delivery of a COVID-19 Parturient in the Intensive Care Unit - Daniel Kim, MD
7. Diagnosis of Peripartum Cardiomyopathy Prompted by "Smart" Watch - Chawla Mason, MD
8. Acute Fatty Liver of Pregnancy Leading to a Delayed Hepatic Failure Necessitating Liver Transplantation: A Case Report - Patty Yang, MD
9. Management of the difficult airway in obstetric patients for cesarean delivery - Olivia Valencia, MD
10. Intraoperative POCUS in the management of dilated cardiomyopathy and pericardial effusion for cesarean delivery - Danielle White, MD

5:15-6:15pm  
What's New in Obstetrics Lecture
Luis Pacheco, MD
Society of Maternal-Fetal Medicine
Director, Maternal Critical Care Services
Professor, Obstetrics & Gynecology
Professor, Anesthesiology
University of Texas Medical Branch
Galveston, TX

6:15-6:30pm  
BREAK and view pre-recorded case reports

6:30-7:15pm  
ERAC Update
Laurent A. Bollag, MD
Chief, Obstetric Anesthesia
Associate Professor, Anesthesiology and Pain Medicine
University of Washington
Seattle, WA

Carlos Delgado, MD
Assistant Professor, Associate Director Obstetric Anesthesia Division
University of Washington
Seattle, WA
7:15-8:00pm  COVID/Sepsis Update
Emily Naoum, MD
Massachusetts General Hospital
Boston, MD

Arvind Palanisamy, MD
Associate Professor, Anesthesiology
Washington University Physicians
St. Louis, MO

8:00-8:45pm  Non-Obstetric Surgery in Pregnancy and the Early Post-partum Period
Hans Sviggum, MD
Medical Director of Obstetric Anesthesiology
Mayo Clinic
Rochester, MN

Valerie Zaphiratos, MD
Hôpital Maisonneuve-Rosemont, Université de Montréal
Montreal, Quebec
Canada

8:45-9:30pm  Airway Management During Pregnancy – PATIENT SAFETY
Jeremy Collins, MD
Emory University Hospital
Atlanta, GA

Mary Mushambi, MD
DAS Professor of Anaesthesia and Airway management
Leicester, Leicestershire
United Kingdom
FRIDAY, MAY 14

3:00 – 4:20pm  Fellows Case Reports – Concurrent Breakout Rooms

Moderators:  Corrine Weinstein, MD; Mark Rollins, MD, PhD; Trish Dalby, MD; Laura Sorabella, MD; Joy Schabel, MD

Room 1: Corrine Weinstein, MD

1. Hazards Associated with Epidural Placement During Labor in Uncontrolled Seizure – Mohannad Abushora, MD
2. A Stress Test on the Eye: How Labour and Delivery Can Reveal Hidden Intracranial Pathology - Yousif Ali, MD
3. Intraoperative Medication Error and Mishap Mitigation: a Tale of Two Syringes - Yousif Ali, MD
4. Sonographic resolution of B-lines after diuresis in a pregnant patient with preeclampsia associated pulmonary edema – Mohamad Ayoub, MD
5. Cesarean Hysterectomy in a Patient with Squamous Cell Carcinoma of the Cervix – Morganne Beard, MD
6. Intraoperative Medication Error and Mishap Mitigation: a Tale of Two Syringes - Yousif Ali, MD
7. Streptococcus intermedius Ventriculitis in Pregnancy - Kaitlyn Brennan, MD
8. Pregnancy Complications in Severe Ehlers Danlos Syndrome: The Issue is the Tissue – Kaitlyn Brennan, MD
9. Methamphetamine-associated cardiomyopathy with acute heart failure in the setting of pregnancy – Sabrina Burn, MD
10. Anesthetic Management of a patient with Goldenhar syndrome undergoing cesarean delivery and subsequent debridement of mandibular abscess – Meghan Cook, MD
11. Labor epidural analgesia in a patient with multifocal acquired demyelinating sensory and motor (MADSAM) neuropathy – Christopher Cosden, MD

Room 2: Mark Rollins, MD, PhD

12. Laser Division of Subglottic Stenosis in a 28-Year-Old Parturient – Paul Davis, MD
13. From Novice to Expert: Beside Echocardiography Using Artificial Intelligence Ultrasound Software for Perioperative Management of a Patient with Hypertrophic Cardiomyopathy – Angelica Delgado, MD
14. Volume Overload in a Pregnant Heart Transplant Patient – Monica DiLorenzo, MD
16. Peripartum Management of a Parturient with Ornithine Transcarbamylase Deficiency – Robert Ffrench-O’Carroll, MD
17. An Epidural Knot – Anna Gabrielian, MD
18. Puerperium Stroke and Subsequent Tissue Plasminogen Activator-Induced Hemorrhage: A Case Report – Ryan Hanson, MD
19. When Real Life Mimics Oral Boards: Massive Venous Air Embolism Detected by End-Tidal CO2 Decrease and Transthoracic Echocardiography During Cesarean Delivery in a Profoundly Thrombocytopenic Patient – Dan Hoang, MD
20. Management of Severe Maternal Cardiac Disease for Cesarean Section - Hanna Hussey, MD
21. Anesthetic management of a grand multiparous parturient with placenta percreta and severe asthma – Hebah Ismail, MD
22. Early Third Trimester Cesarean Delivery in COVID-19 Positive Patient on V-V Extracorporeal Membrane Oxygenation: Clinical and Ethical Considerations – Paige Keasler, MD

Room 3: Trish Dalby, MD

23. Electroconvulsive Therapy at Term Gestation: Successful Multidisciplinary Management with Unique Challenges – Paige Keasler, MD
24. New Diagnosis of Caval Leiomyosarcoma in the Third Trimester of Pregnancy – Samantha Lu, MD
26. Obstetric Management of a Patient with Osteogenesis Imperfecta Type III – Jessica Meister Berger, MD
27. Recurrent Dysautonomia and Pre-Eclampsia in a Grand Multipara – Vasilije Mijovic, MD
28. Headache and Facial Palsy in the Early Postpartum Period - Vasilije Mijovic, MD
29. Viridans streptococci Bacterial Meningitis Following Neuraxial Anesthesia, Labor and Cesarean Delivery – Ryan Militana, MD
30. Post Dural Puncture Headache: Four years review of a Tertiary Maternity Hospital in Qatar – Umar Mushtaq, MD
31. Anesthetic Considerations for Conjoined Twins – Separation as a Pediatric Anesthesia Fellow and Delivery as an Obstetric Anesthesia Fellow – Claire Naus, MD
32. Peripartum Diagnosis of Currarino Syndrome with Anterior Sacral Meningocele: A Case Report – Kaitlyn Neumann, MD
33. Management of pericardial effusion in a pregnant woman-A multi-disciplinary approach - Shri Vidya Niranjan Kumar, MD

Room 4: Laura Sorabella, MD
34. Spontaneous intracranial hypotension in pregnancy treated with a single epidural blood patch: A case report – Helen Parker, MD
35. Peripartum hysterectomy for placenta accreta in a patient with situs inversus and scoliosis under combined spinal-epidural anesthesia – lakshmi Ram, MD
36. Stat Breech Delivery in a Patient with Undiagnosed Cardiac Pathology – Jonathan Rogerson, MD
37. Born from a Horn: Anesthetic Management of a Primary Cesarean Delivery for Unicornuate Uterine Pregnancy – Erik Romanelli, MD
38. Paralysis after a failed spinal: epidural hematoma or conversion syndrome? – Nayema Salimi, MD
40. Using Shared Decision-Making to Navigate a Complex Obstetric Scenario in a Patient with Contraindications to Intubation and Neuraxial Anesthesia – Francis Seiler, MD
41. Mechanical Valve Thrombosis, Acute Myocardial Infarction, and Acute Heart Failure in Late Pregnancy: Pearls and Pitfalls – Marwa Sidani, MD
42. Multidisciplinary Management of a Parturient with a Hemorrhagic Renal Mass: A Rare Case of Wunderlich Syndrome in Pregnancy – Christopher Smith, MD
43. Management of a Parturient Patient for Urgent Cesarean Section with Acute Posterior Encephalopathy Syndrome – Derek Sundermann, MD
44. Cardiac sarcoid and acute worsening of heart block in the parturient, a case report – Justin Swengel, MD

Room 5: Joy Schabel, MD
45. Pharmacologic management of hemorrhage in a COVID positive parturient with HELLP syndrome and a breech twin vaginal delivery, a case report – Justin Swengel, MD
46. Grand Multiparous Mother with Phenylketonuria – Anne Wanaselja, MD
47. Chiari Conundrum: A Case Report and Literature Review – Anne Wanaselja, MD
48. Point of care ultrasound used in management on pulmonary edema in the setting of undiagnosed preeclampsia – Danielle White, MD
49. Anesthetic management of a parturient with Marfan Syndrome and scoliosis for cesarean delivery - Danielle White, MD
50. A Critical Role for Critical Care Obstetric Anesthesiologists – Michael Williams, MD
51. Emergent Cesarean Delivery Secondary to Non-conventional Presentation of Uterine Rupture in a Parturient with Systemic Lupus Erythematosus – Mike Wong, MD
52. Elective cesarean delivery in a patient with VACTERL - Mike Wong, MD
53. Labor Analgesia Management for a Patient with Gluteal Implant Migration – Stephanie Woodward, MD
54. A Case of Atrial Fibrillation Requiring Synchronized Cardioversion on Labor and Delivery - Lakshmi Nemani, MD
55. Management of Acute Type-B Aortic Dissection in a Pregnant Woman with Marfan Syndrome and Worsening Pre-eclampsia—A Case Report – Taylor Ziga, MD

4:20-4:30pm Distinguished Service Award Presentation
Introduction: Paloma Toledo, MD, MPH
Assistant Professor
Feinberg School of Medicine
Chicago, IL
Recipient: Cynthia Wong, MD
Chair and Department Executive Officer
Professor of Anesthesia - Obstetrical Anesthesia
Iowa City, IA

4:30 – 5:30pm Research Poster Session #1 – concurrent breakouts
Moderators: Gillian Abir, MD; Meredith Albrecht, MD; Katherine Arendt, MD; Emily McQuaid-Hanson, MD; Anton Chau, MD; Sharon Reale, MD; John Kowalczyk, MD; Emily Dinges, MD

Room 1 – COVID (Moderator: Meredith Albrecht, MD)
1. The unrecognized burden of “Persons under Investigation” on obstetric anesthesia services during the COVID-19 pandemic - Aidan Spring, MD
2. Obstetric Outcomes of SARS-Cov-2 Positive Parturients with Labor Analgesia - Alexandria Lehrmann, MD
3. Anaesthetic considerations and outcomes in 90 pregnant women with coronavirus disease 2019: a prospective observational study - Olivia Sherwood, MD
4. SARS-CoV-2 Infection Does not Affect the Incidence and Severity of Preeclampsia with Severe Features: A prospective observational study of 106 pregnant patients - Yunping Li, MD
5. Excess maternal deaths associated with coronavirus disease 19 (COVID-19) in Mexico during 2020 - Mario Lumbreras-Marquez, MD
6. Differences Between Neonatal Outcomes in Symptomatic and Asymptomatic COVID19 Positive Patients – Kristine Spicer Lane
7. Virtual compared to in-person obstetric anesthesiology trainee education during the COVID-19 pandemic - Kelly Fedoruk, MD

Room 2 – International (Moderator: Katherine Arendt, MD)
1. Anesthesia for cesarean delivery in Africa: a review of publications (2010-2021) – Anjan Saha, MD
2. Can epidural labor analgesia reduce the cesarean section rate? – Karunakaran Ramaswamy, MD
3. The Influence of a Kybele Teaching Program on the Use of Regional Anesthesia for Labor and Cesarean Delivery, During COVID-19 Pandemic, in Tuzla, Bosnia and Herzegovina – Ivan Velickovic, MD
4. Obstetric anesthesia practice and outcomes in low and middle-income countries: a review of publications – Anjan Saha, MD
5. A systematic review of patient-reported outcome measures used to assess global outpatient postpartum recovery using COSMIN guidelines – Perman Pandal, MD
6. A systematic review of patient-reported outcome measures used to assess sleep in postpartum women using COSMIN guidelines - Perman Pandal, MD
Room 3 – Hemaglobin, Hemorrhage and Transfusion (Moderator: Sharon Reale, MD)
1. Effect of Oral Iron Therapy on Hemoglobin Levels prior to Delivery in Pregnant Inpatients with Anemia – Claire Spradling, MD
2. Retrospective Review of Peripartum Blood Transfusion Practices – Maria Borrelli, MD
3. TOP MOM: Treatment and Optimisation of Iron Deficiency Anemia in Peripartum Women – Anne Lavoie, MD
4. Use of labor neuraxial analgesia and reduced risk of blood transfusion among women who delivered vaginally in the United States, 2017-2018 – Jean Guglielminotti, MD
6. Uterine atony during intrapartum cesarean delivery: a retrospective cohort study – Jessica Ansari, MD

Room 4 – Post Delivery Outcomes (Moderator: Emily McQuaid-Hanson, MD)
1. Proposed domains for postpartum recovery: A concept elicitation study – Perman Pandal, MD
2. Long-Term Symptoms Following inadvertent dural puncture: A Systematic Review and Meta-analysis – Sierra Mims, MD
3. A High Incidence of Inadequate Anesthesia for Postpartum Tubal Ligation – Maria Sheikh, MD
4. Prospective study to assess relationship of a postpartum recovery survey (ObsQoR-10) within 24 hours and mode of delivery – Din Ben Hayoun, MD
5. Association of 24 hour postpartum recovery with depression and quality of life measures at 6 and 12 weeks: A prospective observational study – Din Ben Hayoun, MD
6. Acute Pain and Ambulation after Vaginal Delivery With or Without Neuraxial Analgesia: A Prospective Cohort Study – Ayumi Maeda, MD
7. Racial and ethnic disparities in epidural blood patch utilization for postdural puncture headache among obstetric patients – Anne-Sophie Janvier, MD

Room 5 – Hypertensive Disorders of Pregnancy (Moderator: Gillian Abir, MD)
1. Weight-related Disparities in Acute Treatment of Severe Hypertension in the Postpartum Period – Amal Javaid, MD
2. Understanding the Effect of Different Short Acting Anti-hypertensives on the Time to Resolution of Severe Sustained Postpartum Hypertension Stratified by BMI - Amal Javaid, MD
4. Association between Intrapartum Magnesium Administration and Incidence of Maternal Fever in Preeclamptic Parturients: A Retrospective Study – Samantha Lu, MD
5. Racial Differences in Cardiovascular Complications Following Cesarean Delivery in Women with Preeclampsia in the United States – Marie Louise Meng, MD
6. Extracellular Vesicles from Women with Severe Pre-eclampsia Impair Vascular Endothelial Function – Hanna Hussey, MD
7. Extracellular vesicle Vasorin is a Vascular Protectant: Downregulation as a Mechanism for Pre-eclampsia Induced Vascular Dysfunction - Hanna Hussey, MD

Room 6 – Practice Improvement (Moderator: John Kowalczyk, MD)
1. Cesarean Section Under General Anesthesia: Why our Incidence Greater Than 5%? - Mark Wise, MD
2. Implementation of the oxytocin ‘rule of threes’ algorithm for cesarean section in a Japanese tertiary hospital: a retrospective cohort study using propensity score matching – Serabi Tanabe, MD
3. Neuraxial Ultrasound Educational Card for Preprocedural Ultrasound Use on Labor and Delivery – Ryan Militana, MD
4. Cost of Care of COVID-19 Positive Parturients Delivered with Labor Epidural Analgesia – Iakshmi Ram, MD
5. Candidate Gene Association Study of Severe Acute Pain Following Cesarean Section – Johanna Cobb, MD

7. Time of greatest decisional conflict about labor analgesia in pregnancy: a survey study – Arthur Chyan, MD

Room 7 – Placenta Accreta Spectrum (Moderator: Emily Dinges, MD)

1. Neuraxial to general anesthesia conversion has equitable intraoperative and improved postoperative outcomes compared to general anesthesia in cesarean hysterectomy for Placenta Accreta Spectrum (PAS) – Jessian Munoz, MD

2. Application of the Surgical APGAR Score (SAS) to predict intensive care unit admission and postoperative outcomes in cesarean hysterectomy for Placenta Accreta Spectrum (PAS) - Jessian Munoz, MD

3. Selection of general anesthesia negatively impacts neonatal outcomes in cesarean hysterectomies for placenta accreta spectrum - Jessian Munoz, MD

4. Carbetocin versus oxytocin following vaginal and cesarean delivery: a before-after study – Ahmad Ben Tareef, MD

5. Impact of oxytocin administration prior to cesarean hysterectomy for placenta accreta spectrum – Sarah Watson, MD

6. Comparison of Carbetocin administration as a Bolus or as an Infusion on maternal heart rate using a phenylephrine infusion for cesarean delivery under spinal anesthesia - Christian Loubert, MD

7. Cesarean Hysterectomy for Placenta Accreta Spectrum: Comparison of Two Management Strategies – Laurence Ring, MD

Room 8 – Epidural Analgesia (Moderator: Anton Chao, MD)

1. The Effects of Bolusing Fentanyl Through the Labor Epidural Upon Initiation of Labor Epidural Analgesia – Joshua Younger, MD

2. Evaluation of the Safety of Labor Analgesia Initiated with Low-Dose Local Anesthetic Injection Through Epidural Needle Prior to Epidural Catheter Placement – Justin Newman, MD

3. Labour Epidural Information cards in multiple languages – A survey for the necessity and ensuring availability – Harikumar Sivakumar, MD

4. To PIE (B) or not to PIE (B)? - A prospective audit of patient controlled epidural analgesia (PCEA) efficacy for labour at a large tertiary centre – Catherine Lloyd, MD

5. Gravity Flow Technique to Validate Proper Location of Epidural Needle Tip in High BMI Parturients – Jeffery Bernstein, MD

6. Timing of epidural catheter insertion and removal in laboring patients with thrombocytopenia – David He, MD

5:30-6:15pm Patient with Placenta Accreta Spectrum Disorder: Where do You Deliver and How do You Do It?

Michaela Farber, MD
Assistant Professor, Harvard Medical School
Fellowship Program Director and Associate Chief, Division of Obstetric Anesthesiology
Brigham & Women’s Hospital
Boston, MA

Carolyn Weiniger, MD
Director, Obstetric Anesthesia Unit
Division of Anesthesia, Critical Care and Pain
Tel Aviv Sourasky Medical Center
Safed Area, Israel
6:15-6:30pm  BREAK and view pre-recorded case reports

6:30-7:15pm  The Obese Patient for OB Anesthesia: Identifying Risk Factors in the Preoperative Clinic

C. LaToya Mason-Bolden, MD, FASA
University of Mississippi Medical Center
Jackson, MS

Jennifer E. Dominguez, MD
Associate Professor of Anesthesiology
Program Director Obstetric Anesthesiology Fellowship Program
Duke University Medical Center
Durham, NC

7:15-8:00pm  When Time is of the Essence: Common Emergencies on the Labor & Delivery Floor

Moderator: Feyce Peralta, MD

Speakers:
Alexander Butwick, MD
Professor of Anesthesiology, Perioperative and Pain Medicine (OB)
Stanford University Medical Center
Stanford, CA

Heather Nixon, MD
Associate Head of Education
University of Illinois College of Medicine
Chicago, IL

8:00-8:45pm  Labor Analgesia: State of the Art

Jeanette Bauchat, MD
Chief, Obstetric Anesthesiology
Associate Professor, Obstetric Anesthesiology
Vanderbilt University Medical Center
Nashville, TN

Elizabeth Lange, MD
Assistant Professor
Northwestern University
Chicago, IL
SATURDAY, MAY 15
8:15 – 9:00am  Case Reports Session #1 – Concurrent Breakouts

**Moderators:** David Stahl, MD; Manny Vallejo, MD; Naida Cole, MD

**Room 1: David Stahl, MD**
1. Type A Aortic Intramural Hematoma in a Parturient with Marfan Syndrome – **Willie Agee, MD**
2. Holistic care of transgender patients on the Labor and Delivery Floor: a case report – **Miriam Alghothani, MD**
3. Neuraxial Anesthesia for Cesarean Section with Unrepaired Tetralogy of Fallot - **Karishma Batra, MD**
4. Anesthetic Management of Granulomatosis with Polyangiitis in Pregnancy – **Sara Boldt, MD**
5. Allergic to the cold? Cold urticaria in a parturient and implications for anesthetic management – **Anjali Doshi, MD**
6. Maternal Death due to Multi-organ Failure secondary to COVID infection in the second trimester - **Mohit Garg, MD**
7. Multiple Epidural Attempts and Placements in a Morbidly Obese Parturient with Normal Thrombocytes Levels Resulting in Emergent Spinal Epidural Hematoma Decompression – **Liliana Goelkel Garcia, MD**

**Room 2: Manny Vallejo, MD**
8. Unexpected Thrombocytopenia in a Parturient with Evans Syndrome Complicated by COVID-19 Infection -**Shuchi Jain, MD**
9. Management of Urgent Pre-Term Cesarean Delivery in a Parturient with Prior Lung Resection, Severe Progressive Peripartum Cardiomyopathy and Pulmonary Hypertension – **Taimoor Khan, MD**
10. Inhaled Tranexamic Acid for Management of Hemoptysis in a Parturient with Severe Cystic Fibrosis - **Sung Kim, MD**
11. Two Zebras in One: Management of a Parturient with Full-Term Submassive Pulmonary Embolism and Undiagnosed Placenta Accreta Spectrum – **Joseph Klaus, MD**
12. Obstructive, Non-Toxic Goiter in Morbidly Obese Parturient with an “Impossible-to-Intubate” Airway - **Eva Martinez, MD**
13. Bilateral Paraparesis After Casarean Section Under Combined Spinal Epidural and Transversus Abdominus Plane Block – **Logan Fairchild, MD**

**Room 3: Naida Cole, MD**
15. Pregnancy-related Spontaneous Coronary Artery Dissection: A Tale of Two Outcomes – **Max Schubert, MD**
16. Shared decision-making in the management of a medically complex parturient with CML and high thrombotic risk – **Margaret Smith, MD**
17. Suspected Case of Amniotic Fluid Embolism Complicated by Undiagnosed Patent Foramen Ovale – **Yasmin Sritapan, MD**
18. Failed Uterine Artery Embolization x2 Resulting in Hysterectomy - **Arjun Varadarajan, MD**
20. Unusual leg pain in pregnancy - a case report of acute compartment syndrome – **Simon Wydall, MD**
21. Anterior Mediastinal Mass and Cardiac Tamponade in Pregnancy – **Alix Zuleta Alarcon, MD**
9:00-9:15am  **Opening Remarks**
Ted Yaghmour, MD – SOAP Vice President

9:15-10:15am  **Oral Presentations #1**
Moderator: Thomas Klumpner, MD
Speakers:
1. Post-cesarean analgesia with epidural morphine following epidural 2-chloroprocaine - *Linden Lee, MD*
2. Effect of Dexmedetomidine as an adjuvant in Quadratus Lumborum block in patients undergoing caesarean section- A randomized controlled study. – *Neha Singh, MD*
3. High flow humidified nasal oxygen versus face mask oxygen for preoxygenation of pregnant women – a prospective randomized controlled crossover study – *Patrick Tan, MD*
4. Heart rate variability (HRV) can identify parturients at risk for maternal hypotension and fetal bradycardia following combined spinal epidural analgesia (CSEA) – *Shunsuke Hygua, MD*
5. Treatment of Hypertension in Pregnancy: A Network Meta-Analysis of Randomized Control Trials – *Paige Keasler, MD*
6. Bupivacaine Pharmacokinetics After Labor Epidural Analgesia, Intrapartum Cesarean Delivery Anesthesia, and Transversus Abdominis Plane Block With Liposomal Bupivacaine – *Daniel Katz, MD*

10:15-11:45am  **Gertie Marx Research Competition**
Moderator: Richard Smiley, MD
Judges: Joanna Kountanis, MD; Ruth Landau, MD; Brendan Carvalho, MD; Phil Hess, MD; Allison Lee, MD
Speakers:
1. The Effect of High Dose versus Low Dose Epidural Fentanyl on Gastric Emptying in Non-Fasted Parturients: A Double-Blinded Randomized Controlled Trial - *Elisheva Fiszer, MD*
2. Maternal Tranexamic Acid Plasma Concentration and Coagulation Status During Cesarean Delivery – *Sara Seifert, MD*
3. Carbetocin vs Oxytocin at elective cesarean deliveries: a double-blind, randomized controlled non-inferiority trial of high and low dose regimens – *Fergal McDonagh, MD*
4. The ED90 of intrathecal chloroprocaine for cervical cerclage placement: an up-down sequential allocation dose-response study – *Riley Landreth, MD*
5. Review of post C-Section Analgesia during Covid Crisis: Bilateral TAP (Tranversus Abdominis Plane) blocks with liposomal bupivacaine and neuraxial morphine reduces use of narcotics and length of stay – *Jason Kim, MD*
6. Use of WhatsApp to improve high risk obstetric referrals in Accra, Ghana – *Hebah Ismail, MD*

11:45am-12:30pm  **Why Do You Need an OB Anesthesia Fellowship?**
Moderator: Bryan Mahoney, MD
Speakers: Agnes Lamon, MD
  Director of Obstetric Anesthesia
  Penn Medicine Princeton Health
  Princeton, NJ
  Greg T. Palleschi, MD
  North Shore University Hospital
  Dix Hills, NY
Jackie Galvan, MD
Associate Professor of Clinical Anesthesia
The University of Illinois College of Medicine

12:30-1:00pm  LUNCH and view pre-recorded case reports

1:00-2:00pm  Gerard W. Ostheimer Lecture
Introduction: Ron George, MD
Speaker: Grace Lim, MD, MD
Associate Professor
Chief, Division of Obstetric & Womens Anesthesiology
Magee-Womens Research Institute BIRCWH Scholar
Faculty, Magee-Womens Research Institute
University of Pittsburgh
Pittsburgh, PA

2:00-2:15pm  BREAK and view pre-recorded case reports

2:15 - 3:45pm  SOAP/ASRA Panel
Moderator: Ruth Landau, MD
Panelists: Lisa Leffert, MD
Samer Narouze, MD, PhD
Britany Raymond, MD
Stuart Grant, MD

3:45-4:30pm  Thrombocytopenia in the Laboring Patient
Melissa E. Bauer, DO
Associate Professor of Anesthesiology
Duke University School of Medicine

Roulhac D. Toledano, MD, Phd
Clinical Associate Professor, Department of Anesthesiology
Perioperative Care, and Pain Medicine at NYU Grossman School of Medicine
Brooklyn, NY

4:30-5:15pm  Disparities in Maternal Care: Providers, Patients and Outcomes
Allison Lee, MD
Columbia University
New York, NY

Cesar Padilla, MD
Clinical Assistant Professor
Stanford University School of Medicine
Stanford, CA

Paloma Toledo, MD
Northwestern Medicine
Chicago, Illinois

5:15-5:30pm  BREAK

5:30 -6:30pm  Social Event – Charcuterie Class & Reception

5:30 -6:30pm  Fellows Reception
SUNDAY, MAY 16

8:15 – 9:00am  Case Reports Session #2 – Concurrent Breakouts

Moderators: Erin Haggerty, MD, Amy Lee, MD, Kristen Vanderhoef, MD

Room 1: Erin Haggerty, MD

1. Case report: Hypofibrinogenemia and neuraxial for elective cesarean section – Kevin Barkley, MD
2. Anesthetic Management Of A Parturient With Charcot-Marie-Tooth Disease – Yveline Blot, MD
3. Failed intrathecal catheter in a parturient with primary pulmonary hypertension and history of spinal fusion for scoliosis – Paulina Cardenas, MD
4. Case report of a parturient with coronary artery fistula: a multidisciplinary approach – Meghan Cook, MD
5. Undiagnosed Thrombotic Thrombocytopenic Purpura In The Setting Of An Urgent Primary Cesarean Section – Paula Escobar, MD
6. To Delay or Not to Delay: Cesarean Delivery in an Extremely Dyspneic Parturient with a Massive Anterior Mediastinal Mass – David Gutman, MD
7. Venous Air Embolism Mediated Near-Cardiac Arrest During Cesarean Delivery for Placenta Accreta – David Gutman, MD

Room 2: Amy Lee, MD

8. Challenges in the management of the parturient with hyperosmolar hyperglycemic state complicated by intrauterine fetal demise, septic shock and stress-induced cardiomyopathy – Christian Hurst, MD
9. Anesthetic Management of a Parturient with Nemaline Myopathy – Allison Lee, MD
10. Successful Cesarean Delivery of a Coronavirus Positive Patient with Hypoplastic Right Ventricle and Pulmonary Atresia at 27 Weeks’ Gestation – William Trudo, MD
11. Eclamptic Seizure Prophylaxis in patients with renal failure – Rudo Makonza Goto, MD
12. Maternal exhaustion or hyponatremia: delay in diagnosis – Christine McKenzie, MD
13. Urgent Cesarean Birth for Worsening Pulmonary Hypertension Performed in Intensive Care Unit under Combined Spinal-Epidural case report – Teshi Kaushik, MD
14. Parturient with Jarcho-Levin Syndrome Managed Successfully for a Full-term Delivery with Labor Neuraxial Analgesia – Erik Romanelli, MD

Room 3: Kristen Vanderhoef, MD

15. Pre-eclampsia associated bilateral serous retinal detachments diagnosed on bedside ultrasound – Jessica Sheeran, MD
16. Persistent Vegetative State and 24 Weeks Pregnant: A Clinical and Ethical Dilemma - Kathleen Smith, MD
17. Patient-Centered Management of a COVID+ Pregnant Pediatric Patient with Fetal Congenital High Airway Obstruction Syndrome – Caitlin Sutton, MD
19. Takotsubo’s Cardiomyopathy and Spontaneous Coronary Artery Dissection in a 40-year-old Postpartum Patient with Cardiogenic Shock - Gabriel Washington, MD
20. Labor Epidural Analgesia for a Patient with Brugada Syndrome – Lawrence Weinstein, MD
9:00-9:15am **Opening Remarks**
Klaus Kjaer, MD, MBA - Legacy Director

9:15-10:15am **Oral Presentations #2**
Moderator: Philip Hess, MD
Speakers:
1. Which continuous monitor should we use for accurate detection of postoperative apnea events? – *Mohamed Elgamal, MD*
2. Comparing the use of Quantra vs. Rotational Thromboelastometry for Point of Care Viscoelastic Testing – *Nayema Salimi, MD*
3. Peripartum magnesium sulfate in preeclampsia: effect on postpartum endothelial function and blood pressure in early versus late onset preeclampsia – *Samantha Parsons, MD*
4. Association of obstructive sleep apnea with body fluid distribution in pregnant women with obesity – A prospective observational pilot study – *James Wicker, MD*
5. Anesthesia work force capacity and maternal mortality in low and middle-income countries – *Anjan Saha, MD*
6. The clinical tolerability and pharmacokinetics of intraperitoneal chloroprocaine administered to peripartum women – *Brandon Togioka, MD*

10:15-11:00am **Fred Hehre Lecture**
Introduction: Rebecca Minehart, MD, MSHPEd
Speaker: May Pian-Smith, MD, MS
Massachusetts General Hospital
Boston, MA

11:00-11:15am **BREAK and view pre-recorded case reports**

11:15-11:30am **American Society of Anesthesiologists (ASA) President-Elect Address**
Randall M. Clark, M.D., FASA
President Elect, American Society of Anesthesiologists
Professor of Anesthesiology, University of Colorado School of Medicine
Pediatric Cardiac Anesthesiologist, Children's Hospital Colorado
Aurora, Colorado

11:30am-12:15pm **A unit in crisis --how do I fix it? Patient Safety on Labor and Delivery** – *PATIENT SAFETY*
Rachel Kacmar, MD
Associate Professor, Anesthesiology
University of Colorado Anschutz Medical Campus
Denver, CO

Grant Lynde, MD
Emory University
Atlanta, GA

12:15-1:00pm **LUNCH**
1:00-1:45pm  Lessons Learned in OB Anesthesia
Joy Hawkins, MD
Professor and Director of Obstetric Anesthesiology
University of Colorado
Denver, CO
Caitlin Sutton, MD
Chief, Division of Maternal-Fetal Anesthesiology
Texas Children's Hospital, Baylor College of Medicine
Houston, TX

1:45-3:15pm  Best Paper Competition
Moderator: Cynthia Wong, MD
Judges: Arvind Palanisamy, MD; Jill Mhyre, MD; Daniel Katz, MD; Jose Carvalho, MD;
Speakers:
1. A Randomized, Double-Blind, Placebo-Controlled Trial of Outpatient Gabapentin to Reduce Persistent Pain and Opioid Use in Women Suffering from Severe Pain after Cesarean Delivery – Cedar Fowler, MD
2. Treatment of Shivering After Cesarean Delivery Under Epidural Anesthesia During Labor: Dexmedetomidine vs Meperidine – Gabriel Paquin-Lanthier, MD
3. A Randomized Controlled Trial of Dural Puncture Epidural versus Standard Labor Epidural Technique in Parturients with Obesity - Olga Diomede, MD
4. Magnesium sulfate bioavailability and clearance after intramuscular dosing in women with preeclampsia - Kathleen Brookfield, MD
5. Appetite regulation in pregnancy; peripheral and central leptin and melanocortin neuropeptides - Richard Smiley, MD
6. Association between labor neuraxial analgesia and reduced odds of severe maternal morbidity among women who delivered vaginally in New York State hospitals, 2010-2016. - Jean Guglielminotti, MD

3:15-4:15pm  Research Poster Session #2 – Concurrent Breakouts
Moderators: Ron George, MD; Barbara Scavone, MD;
Moderators: Pamela Flood, MD; Yaakov Beilin, MD; Ashraf Habib, MD; Pervez Sultan, MD; Christine Warrick, MD; David Gambling, MD; Mark Zakowski, MD
Room 1 – Practice Improvement and Pain Control (Moderator: Christine Warrick, MD)
1. The association between patient satisfaction and inadequate regional anesthesia for cesarean delivery: a prospective observational study – Michael Hofkamp, MD
2. Effect of implementation of perineal tear pain management program on pain scores – Karunakaran Ramaswamy, MD
3. Acute pain intensity and opioid dose requirement after cesarean delivery in parturients with pre-existing chronic pain – Ryu Komatsu, MD
4. Informed Consent in Obstetric Anesthesiology: Resident Practices and Education to Improve Quality of Consent – Jessica Meister Berger, MD
5. Evaluating racial/ethnic inequities in the utilization of liposomal bupivacaine truncal blocks following cesarean delivery – Christine McKenzie, MD
6. Comparative Effectiveness of First-Dose Oral Versus Intravenous Acetaminophen for Cesarean Delivery Analgesia: A Prospective Interrupted Time Series Trial – Francesa Jung, MD
Room 2 – Cesarean Delivery: Maternal & Fetal Outcome (Moderator: Mark Zakowski, MD)

1. A Retrospective study to evaluate the effect of anaesthesia technique on foeto maternal safety among women with cord prolapse undergoing category one cesarean section – Varsha Tipparaju, MD
2. Impact of Post Anesthesia Position on Post Spinal Hemodynamic Variables in Elective Cesarean Sections – Iakshmi Ram, MD
3. Validation of a Portuguese version of the Obstetric Quality of Recovery-10 (ObsQoR-10) instrument – Ricardo Vieira Carlos, MD
4. Effect of Prophylactic Phenylephrine versus Noradrenaline Infusions on Funic Gases in Healthy Women for Elective Low Risk Caesarean Delivery: A Randomized, Double-Blind Trial – Apoorva Singh, MD
5. Reducing Cesarean Section Surgical Site Infections: Multidisciplinary Implementation of a Novel Bundle within an Integrated Health Care System – Eric Hunt, MD
6. Association Between Unscheduled Procedure and Poor Postpartum Recovery in Cesarean Delivery Patients: A prospective observational cohort study – Cyrus Bhiladvala, MD
7. Quality Improvement Survey Study of Obstetric Anesthesia Personnel with STAT C-Section Kit and Its Use in Preventing Inappropriate Practices When Preparing Medications – Edward Kalaidjian, MD

Room 3 – Miscellaneous (Moderator: Ashraf Habib, MD)

1. Obstetric Anesthesia Workload and Facility Utilization of SOAP Centers of Excellence Designated Institutions - Mary Im, MD
2. Obstetric and anesthetic management of deliveries in women with a Fontan circulation: single centre experience and trends in practice over the past 21 years – Aidan Spring, MD
3. Association between Diastolic Function Parameters and Obstructive Sleep Apnea in Morbidly Obese Pregnant Women – Olga Diomede, MD
4. Association of Medicaid Expansion with the Provision of Neuraxial Labor Analgesia: A Retrospective Cross-sectional Analysis – Dylan Whitney, MD
5. Anesthetic Management of Parturients with Vascular Malformations – Stephen Ellwood, MD
6. Uterine Exteriorization Versus In Situ Repair of Hysterotomy During Cesarean Delivery: A Systematic Review, Equivalence Meta-Analysis, and Trial Sequential Analysis – Adithya Bhat, MD
7. Preventing Postpartum Hemorrhage After Cesarean Delivery: A Network Meta-Analysis of Available Pharmacologic Agents – Danish Jaffer, MD

Room 4 – Neuraxial Labor Analgesia (Moderator: Barbara Scavone, MD)

1. The rate of maternal fever does not differ between women receiving continuous spinal versus continuous epidural labor analgesia – Francis Seiler, MD
2. Racial and ethnic disparities in obstetric anesthesia: a review of the literature (2004-2021) – Chloe Kern, MD
3. Labor Epidural with Dural Puncture Reduces Catheter Replacement Rates when Compared to Epidural without Dural Puncture – Amnon Berger, MD
4. The Interaction of Programmed Intermittent Epidural Bolus Flow Rate and Time Interval on Labor Analgesia Quality: A Prospective, Randomized, Double-Blind Study of Three Pump Settings – Charlie Prior, MD
5. Anesthetic Outcomes of the Dural Puncture Epidural Technique: A Retrospective Cohort Study – Ayumi Maeda, MD
6. Labour epidural made safe – Tam Al-Ani, MD
7. Association Between Documentation Accuracy and Number of Neuraxial Placement Attempts and Redirections: A Prospective Observational Study – Yousif Ali, MD
Room 5 – Practice Improvement/Physiology (Moderator: Ron George, MD)

1. Implementation of an electronic alert notification platform for a maternal early warning system – Gillian Abir, MD
2. A cost-savings comparison between disposable and reusable pulse oximetry sensors in labor and delivery operating rooms – Emily Stockert, MD
3. Which tracks MV better, TV or RR for assessment of ventilatory function in postoperative patients? - Mohamed Elgamal, MD
4. Central cortisol regulation in pregnancy – Richard Smiley, MD
5. A Peripheral Immune Signature of Acute Labor – Kazuo Ando, MD
6. Intrathecal Bupivacaine Dosing for Transvaginal Cervical Cerclage: A Retrospective Analysis – Sierra Mims, MD
7. Intrathecal Bupivacaine versus Chloroprocaine for Transvaginal Cervical Cerclage: A Retrospective Analysis - Sierra Mims, MD

Room 6 – Practice Improvement/a-Adrenergic Agonists (Moderator: Yaakov Beilin, MD)

1. Introduction of a pre-procedural checklist to enhance compliance with anesthesia medication safety in the labor and delivery room – Johanna Cobb, MD
2. Use of Intrathecal Dexmedetomidine in Caring for Pregnant Women who have Opioid Use Disorder Undergoing for Cesarean Delivery – Yunping Li, MD
3. Effect of Neuraxial Clonidine on Post-Cesarean Opioid Consumption and Pain Scores in Parturients on Chronic Buprenorphine Therapy: a Retrospective Cohort Study – Michael Taylor, MD
4. Cognitive Aid for Maternal Cardiovascular Life Support in Corona Virus Disease-19 Infection: A Simulation-Based Development of New Clinical Pathway – Vandana Vaishnav, MD
5. Dexmedetomidine as an Adjunct to Neuraxial Anesthesia in Cesarean Delivery: A Retrospective Chart Review – Paul Davis, MD
6. Predictive performance of 3 risk-assessment tools for postpartum hemorrhage after vaginal delivery: A nested case-control study using quantitative blood loss – Arthur Chyan, MD
7. Labor & Delivery Operating Room Staffing and Operating Efficiency Using Queueing Theory – Grace Lim, MD

Room 7 – Practice Improvement and Teamwork (Moderator: David Gambling, MD)

1. Standardizing the Approach to Epidural Placement to Reduce Time to Epidural Completion: A Quality Improvement Project – Kaitlyn Brennan, MD
2. Questionnaire on Management of Unwitnessed Disconnected Labor Epidurals – Rustin Roberts, MD
3. Nutritional preferences of women during labor: a survey study – Geoffrey Liang, MD
4. High Dependency Unit on the Labor and Delivery Floor - Rustin Roberts, MD
5. Using verbal and physical cues to identify temporary co-leaders during an obstetrical critical event in the operating room – Grace Shih, MD
6. Anesthesia and Nursing Leadership During an Obstetrical Critical Event Enhances Communication, Performance, and Teamwork - Grace Shih, MD
Room 8 – Maternal-Fetal Health (Moderator: Pamela Flood, MD)
1. Mitochondrial dysfunction accompanies placental aging and promotes labor onset – Erin Ciampa, MD
2. A Cellular Model of Placental Aging – Padraich Flahardy, MD
3. Combined Spinal-Epidural and Fetal Heart Rate Monitoring: Time to Reevaluate the Use of Intrathecal Fentanyl – Javier Pilania Guetierrez, MD
4. Effect of enhanced recovery after surgery for elective cesarean deliveries on neonatal outcomes – Khadija Razzaq, MD
5. Correlating Prenatal and Delivery Platelet Count Values in Obstetric Patients: Clinical Utility of Reflexive Admission Laboratory Assessments – Michelle Yanik, MD
6. The association between umbilical cord, maternal and neonatal sodium concentration: using cord gas analysis to expedite a diagnosis of peripartum hyponatraemia – Louis Carlson-Hedges, MD

Room 9 – POCUS/Fetal Interventions (Moderator: Pervez Sultan, MD)
1. Maternal Pain Management for Fetal Myelomeningocele Repairs: From Fetal Surgery to Delivery – Claire Naus, MD
2. Review of anesthetic management of minimally invasive fetal interventions for complex monochorionic pregnancies – Meryl William, MD
3. Ultrasound-assisted versus landmark-based spinal block performance in emergency caesarean delivery in obese patients at a central hospital – a randomised controlled trial – Bojan Korda, MD
5. A multicenter interdisciplinary national survey of practices and perceptions regarding oral intake during labor – Elisheva Fiszer, MD
6. Ultrasound Image Quality Comparison between an Inexpensive Handheld Ultrasound Machine and a Large Mobile Ultrasound – Nayema Salimi, MD
7. Echocardiography During Active Labor - Initial Observations and Protocol Implementation – Pirianthini Suntharalingam, MD

4:15-5:15pm   Closing Reception & Award Ceremony
Pre-Recorded Presentations

1. Neuroaxial Block in pregnant women with Pseudotumor Cerberi - Mohannad Abushora, MD
2. LSCS after 5 weeks & 4 days of Percutaneous transluminal coronary angioplasty/ Drug eluting stent Anesthesiologist’s Dilemma - Megha Agrawal, MD
3. Anesthetic Management of a Parturient with Glanzmann’s Thrombasthenia - Saamia Alam, MD
4. Lumbar Neuraxial Ultrasound Made Easy - Tam Al-Ani, MD
5. Use of epidural catheter for emergent hystereotomy immediately after prophylactic epidural blood patch: not our usual practice! - Mariam Ashraf, MD
6. Successful External Cephalic Version and Anesthesia Management in a Patient with Repaired Tetralogy of Fallot - Mohamad Ayoub, MD
7. Anesthetic Management of a Parturient with Fontan Circulation - Mariam Batakji, MD
8. Anesthetic considerations for cesarean section in a parturient with multiple uncommon co-morbidities - Ali Bazzi, MD
9. Reduction in massive postpartum haemorrhage and red blood cell transfusion during a national quality improvement project, Obstetric Bleeding Strategy for Wales, OBS Cymru: an observational study - Sarah Bell, MD
10. Induction of Labor for a Primigravid Patient with Propirionic Acidemia - David Bennett, MD
11. Severe Right Ventricular dilatation and Pulmonary Hypertension caused by a large ASD: Obstetric Anesthesia Management - Michael Beshara, MD
12. Life Threatening Labial Hematoma - Callan Bialorucki, MD
13. Epidural Analgesia for Labor: Comparing the Effects of Continuous Epidural Infusion (CEI) and Programmed Intermittent Epidural Bolus (PIEB) on Obstetric Outcomes – Yair Binyamin, MD
14. Subdural Hematoma after Unintentional Dural Puncture- Lauren Blake, MD
15. Refractory Hypotension Secondary to Labetalol Administration in Preeclampsia and the Utility of Glucagon - Taylor Blalack, MD
16. Management of Postpartum Hemorrhage in a Parturient with Type 2M von Willebrand Disease - Kaitlyn Brennan, MD
17. Managing Critical Mitral Stenosis in Pregnancy in Kenya - Kaitlyn Brennan, MD
18. Emergent cesarean delivery in a parturient with previously undiagnosed severe mitral stenosis - Derek He, MD
19. Greater Occipital Nerve Block as an Adjunct in Postdural Puncture Headache - Seung Choi, MD
20. Abdominal Pain despite functioning epidural anesthesia: Uterine rupture - Lu Chou, MD
21. Multiple Failed Neuraxials - Dhruv Choudhry, MD
22. Obstetric Anesthesia Management Of Cesarean Delivery For A Patient With Repaired Aortic Coarctation, Total Anomalous Pulmonary Venous Return, And Thoracolumbar Scoliosis - Annie Chow, MD
23. XSupraglottic Airway for General Anesthesia in Obstetric Emergency - Praeophayom Clarke, MD
25. Development of a competency-based curriculum for obstetric anesthesia residency training using a Delphi Model - Christopher Cosden, MD
26. Cesarean in a Parturient with a Complicated Tetralogy of Fallot Repair - Candace Curtis, MD
27. Complex Regional Pain Syndrome in the Parturient Patient - Veronica D'Ambra, MD
28. Video-assisted Thoracoscopic Surgery under General Anesthesia for Directed Biopsy of a Mediastinal Mass in Pregnancy - James Damron, MD
29. Low-Dose Combined Spinal-Epidural for Cesarean Delivery in a Woman with Severe Aortic Stenosis - Camille Davis, MD
30. A case report for the management of refractory sustained, unstable supraventricular tachycardia in the peripartum period - Kathryn Davis, MD
31. Awake Dual-Lumen Endotracheal Tube Placement for Primary Mediastinal B-Cell lymphoma in a parturient - Gustavo Diaz-Mercado, MD
32. Migraine with aura presenting as a transient ischemic attack in a parturient - Gustavo Diaz-Mercado, MD
33. The Perfect Storm: Thyrotoxicosis, Full Anticoagulation, and Difficult Airway in a Parturient - Timothy Edmonds, MD
34. Subarachnoid Hemorrhage Complicating Severe Pre-eclamptic Neuropathology: A Case Report - Lindsey Efird, MD
35. Successful Neuraxial anesthesia in the parturient with history of spinal cord AVM - Kevin Elaahi, MD
36. Anesthetic Management of a Parturient with Arthrogryposis Multiplex Congenita for Cesarean Delivery - Ilhan Eli, MD
37. Anesthesia for C-section in a Patient with Brain Meningioma with mass effect and increased ICP - Sherif Elsayed Ali Ali, MD
38. Anesthetic management of a woman with mast cell activation syndrome and allergy to lidocaine undergoing cesarean delivery - Marie Eve Fiset, MD
39. Management of a Patient with Severe Mitral Regurgitation and Non-ischemic Cardiomyopathy for Cesarean Delivery in a Cardiac Operating Room - Taylor Foster, MD
40. Anesthetic Management for Cesarean Delivery in a Patient with a Difficult Airway and Risks for Postpartum Hemorrhage - Rofayda Gad, MD
41. Anesthetic Management for a Grand Multipara Patient With HELLP Syndrome and Acute Renal Failure undergoing CD - Rofayda Gad, MD
42. Detection of apical hypertrophy (Yamaguchi syndrome) and subsequent anesthetic management of cesarean delivery - Rofayda Gad, MD
43. Multimodal anesthesia for EXIT procedure - Rofayda Gad, MD
44. Prolonged sedation in a parturient with COVID-19 and fetal outcome - Rofayda Gad, MD
45. Case Report: Vaginal Delivery and A Tale of Two Ventricles (Transposition of the Great Arteries), Simply Baffling! - Ishan Garg, MD
46. Acute respiratory failure in a patient with severe preeclampsia and morbid obesity during cesarean section - Aryeh Ginsburg, MD
47. Management of Undiagnosed Pseudocholinesterase Deficiency in a Parturient Undergoing Urgent Cesarean Section Under General Anesthesia - Lana Glantz, MD
48. Emergent Cesarean Delivery Secondary to Non-conventional Presentation of Uterine Rupture in a Parturient with Systemic Lupus Erythematosus - Ashlee Gourdine, MD
49. Sphenopalatine Ganglion Block to Treat Perioperative Migraine Headache - Gilbert Grant, MD
50. Paramyotonia Congenita - Carter Guice, MD
51. The non-Subarachnoid "Worst Headache of My Life" in a T4 Paraplegic Parturient with Autonomic Dysreflexia - Katherine Herbert, MD
52. Procedure on Placental Support Under Neuraxial Anesthesia for Fetal Oropharyngeal Mass - Kathryn Hackett, MD
53. Anesthesia Management Of Emergency Cesarean Section With A Platelet Count Of 3000/µl and Idiopathic Thrombocytopenic Purpura - Achmad Hariyanto, MD
54. Factor XIII deficiency: Is it or isn't it? - Jakayla Harrell, MD
55. Delayed Interval Delivery in a Parturient with Essential Thrombocythemia and a Triamniotic-Trichorionic Triplet Pregnancy - Jakayla Harrell, MD
56. General Anesthesia for Balloon Valvuloplasty in A Pregnant Patient with Severe Mitral Stenosis and Pulmonary Hypertension: A Case Report - Pamela Huang, MD
57. Case Report: Management of a case of severe Abruption with IUFD and severe PET: Importance of ROTEM in management of such high risk cases - Sanjeev Jain, MD
58. Subdural hematoma as a complication of accidental dural puncture - Deborah Jeon, MD
59. Anesthetic Management of a Parturient with Pulmonary Hypertension On Treprostinil Treatment - Samuel Joseph, MD
60. Anesthetic management of a parturient with vascular Ehlers-Danlos Syndrome undergoing repeat cesarean delivery - Lana Joudeh, MD
61. Anesthesia for an Unscheduled Cesarean Delivery in a Woman with Stage IV Alcoholic Cirrhosis - Gus Kefalopoulos, MD
62. Supraglottic Airway for General Anesthesia in Obstetric Emergency - Kyle Kang, MD
63. Successful neuraxial anesthesia administration in a patient with hydromyelia - Alexandra Kiers, MD
64. Atypical Presentation of Iatrogenic Bladder Injury during Elective Cesarean Delivery - Jinsoo Kim, MD
65. Multiple Etiologies of Postpartum Headache Presenting in a Single Parturient - Christopher Kim, MD
66. It's Time to Wake Up: An International Quality Improvement Project that Dramatically Decreased the Rates of Cesarean under General Anesthesia - Joseph Klaus, MD
67. Demystifying the Epidural: Increasing the Use of Neuraxial for Labor Pain in Ukraine - Anna Gabrielian, MD
68. Novel Approach to Analgesia for an Intellectually Disabled Labor Patient - Anna Gabrielian, MD
69. Management of Labor With Heliox in a Patient with Subglottic Stenosis - Seth Landa, MD
70. Cerebral Venous Sinus Thrombosis Discovered After Post-dural Puncture Headache Treated with Sphenopalatine Ganglion Block and Epidural Blood Patch - Danielle Levin, MD

71. The Peripartum Management of COVID-19 in a Patient with Brugada Syndrome - Sherry Liou, MD

72. Amniotic Fluid Embolism and the Recrudescence of COVID-19 Symptoms - Nathaniel Liu, MD

73. Preterm Cesarean Delivery in a Patient with Methamphetamine-Associated Cardiomyopathy - Mingchun Liu, MD

74. Management of the Parturient with Factor VII Deficiency - Whitney Loggins, MD

75. Placement of a Labor Epidural in a Patient with a Spinal Cord Stimulator - Kody Massner, MD

76. Spinal anesthesia for caesarian in a parturient with Arnold-Chiari Type 1 Malformation and significant lumbar disc prolapse - case report. Gisha Mathew, MD

77. Neuraxial anesthesia in a parturient with cerebral palsy and prior selective dorsal rhizotomy - Christine McKenzie, MD

78. Anesthetic Management of a Morbidly Obese Parturient with Charcot Marie Tooth and HELLP with Cord Prolapse - Jessica Meister Berger, MD

79. Spontaneous Postpartum Uterine Rupture in a Primigravida Following Vaginal Delivery - Jessica Meister Berger, MD

80. Life Threatening Hemorrhage Secondary to Hidden Uterine Inversion - Vasilije Mijovic, MD

81. Management of Post-Partum Hemorrhage in a 31-year-old Patient with Severe Osteomyelitis and Placenta Accreta Spectrum Disorder - Aaron Montani, MD

82. Case Study: Management Of Peripartum Cardiomyopathy At Delivery - Suzanne Mundhenke, MD

83. Convulsion immediately after vaginal delivery - Hyo-Seok Na, MD

84. Two Surgeries in the Second Trimester: Fetal Myelomeningocele Repair Followed by Laparoscopic Cholecystectomy - Claire Naus, MD

85. Multidisciplinary management of pulmonary arterial hypertension in pregnancy: a case report - Nemade Preeti, MD

86. Resistance to local anesthetics: a case report in pregnant woman who failed to achieve skin analgesia – Thong Nguyen, MD

87. Perioperative Management of Parturient with Cystic Lung Disease - Leziga Obiyo, MD

88. Labor Analgesia Options for Parturient with an Implanted Intrathecal Baclofen Pump - Taylor O’Neal, MD

89. Central Anticholinergic Syndrome: An Unusual Awakening from General Anesthesia after Cesarean Delivery - Sophia Dunworth, MD

90. Neuraxial anesthesia for a laboring patient with hereditary spastic paraplegia: a case report - Joshua Falescky, MD

91. Cesarean delivery in Spinal Muscular Atrophy type 3 (Kugelberg- Welander Syndrome) - Case report - Borislava Pujic, MD

92. Initiation of First ERAS Protocol for Cesarean Delivery in Serbia-preliminary results – Borislava Pujic, MD

93. Lidocaine allergy? 2-Chloroprocaine, An Ester Alternative, May Be The Solution For Epidural Anesthesia When Amide Local Anesthetics Are Not An Option - Sidhant Pamnani, MD
94. Compartment Syndrome Following C-section Complicated By Persistent Postpartum Hemorrhage - Sidhant Pamnani, MD

95. Complicated analgesic management for a laboring patient on buprenorphine - Sue Panayiotou, CRNA

96. 30 Minutes Decision to Incision: A Quality Improvement Project - Javier Polania Gutierrez, MD

97. Avoiding Perioperative Sudden Cardiac Death In Williams Syndrome - Bethany Potere, MD

98. Labor epidural placement in a patient with tinea versicolor of thoraco lumbar region - lakshmi Ram, MD

99. Platelets are Overrated! Hemostatic Strategies for Cesarean Delivery with < 5k Platelets - Krishnan Ramanujan, MD

100. AFE or PE: A Case of Acute CV Collapse - Julian Rios, MD

101. A Case Report of Anesthetic Planning for a Parturient with Severe Mitral Valve Stenosis - Mary Roberts, MD

102. Prone Positioning for the Treatment of ARDS in the Post-Partum Patient - Spencer Robichaux, MD

103. Intracranial Mass in a Pregnant Patient, the management, of the patient, and course of pregnancy - Jonathan Rogerson, MD

104. Uterine Rupture and Emergent Cesarean Hysterectomy in an Unscarred Uterus - Susanne Rupert, MD

105. Use of ROTEM as an adjunct to assess coagulopathy in thrombocytopenic parturient prior to neuraxial anesthesia - Emmarie Myers, MD

106. Cesarean Delivery in a patient with COVID-19 and Holt-Oram Syndrome - Maria Sheikh, MD


108. Avoiding Amide Anaphylaxis – Unconventional Neuraxial Options for Cesarean Delivery - Claire Spradling, CRNA

109. What To Do When You Can’t Transfuse – Blood Transfusion Alternatives for Jehovah’s Witnesses - Mellany Stanislaus, MD

110. Evans Syndrome: A Qualitative or Quantitative Defect in Platelets? - Nathan Steiner, MD

111. Placental Abruption and Disseminated Intravascular Coagulation Unveiled by Epidural Catheter Site Bleeding - Nathan Steiner, MD

112. Elective cesarian hysterectomy in parturient complicated by placenta previa and placenta accreta spectrum and history thoracolumbar spinal fusion with Harrington rods - Shruti Sudhakar, MD

113. Urgent Cesarean Delivery of Dichorionic/Diamnionic Twins in a Parturient with Prior C5 Spinal Cord Injury and Resultant Incomplete Quadriplegia with a History of Autonomic Dysreflexia - Cameron Sumner, MD

114. Parturient with rare bleeding disorder requiring all facets of obstetric anesthesia care – Justin Swengel, MD

115. Pneumocephalus after Labor Epidural - Erica Tafuro, MD
117. Unilateral Lung Hypoplasia in the Morbidly Obese Obstetric Patient: A Case Report - Angeli Thawani, MD
118. Obstetric anesthesia for a patient with HELLP syndrome versus SLE flare: a diagnostic challenge - Caroline Thomas, MD
119. Ballantyne Syndrome- Julie-Ann Thompson, MD
120. Spinal cord hemangioblastoma resection and cesarean delivery in a 31-week gravid patient: a case report – Reade Tillman, MD
121. Perioperative Management of a Parturient with a Spontaneous Cerebrospinal Fluid Leak. - Joseph Tipton, MD
122. Identification of Factors that Lower the Accuracy of Quantitative Blood Loss During Cesarean Delivery: Pre-Delivery Fluid and Omission of Gravimetry – Natalie Tukan, MD
123. Management of extra cardiac Fontan patient on labor and delivery for three obstetric procedures – Nicholas Unkrich, MD
124. Neuraxial Analgesia in a Parturient with NF-1 - Yuri Volnov, MD
125. Anesthetic Management for Diabetic Autonomic Dysregulation in Pregnancy - Allen Wang, MD
126. Anesthetic Management of a Patient with Intracranial Aneurysm for Cesarean Delivery – Lawrence Weinstein, MD
127. Postpartum hemorrhage in a patient with prior uterine artery embolization - Kelly West, MD
128. Clinical improvement and tumor regression in parturient with brain tumor and intracranial bleeding after c-section with general anesthesia: a case report - Andreas Willianto, MD
129. Elective cesarean delivery in a parturient with transverse myelitis - Mike Wong, MD
130. Symptomatic Vasovagal Episodes in Synchrony with Uterine Contractions in an Expectant Multipara – Ivana Wrobleski, MD
SAVE THE DATE

54th Annual Meeting
Hilton Chicago Hotel
Chicago, Illinois
May 11-15, 2022

55th Annual Meeting
Sheraton New Orleans Hotel
New Orleans, La.
May 3-7, 2023
To advance and advocate for the health of pregnant women and their babies through research, education, and best practices in obstetric anesthesia care.

Safe and equitable care for women and newborns everywhere.

Core Values:
- Care
- Excellence
- Professionalism
- Respect
- Diversity
- Inclusivity
**Experience**

Deliver a beneficial year-round experience for members that provides a safe environment for the exchange of knowledge, best practices, successes and challenges

 Supporting Efforts
- Provide a content-rich Annual Meeting
- Ensure members receive year-round value and engagement from their memberships
- Deliver impactful educational opportunities and learning resources
- Advocate for our patients and profession; establish best practices
- Elevate the next generation of professionals

**Community**

Build a diverse, inclusive, engaged membership community that reflects the values and purposes of SOAP

 Supporting Efforts
- Ensure a welcoming and inclusive society
- Build strong, mutually beneficial strategic partnerships
- Advocate for our patients and profession; establish best practices
- Elevate the next generation of professionals

**Infrastructure**

Develop an infrastructure that provides effective operations and aligns our governance model with the changing needs of our organization and environment

 Supporting Efforts
- Provide meaningful opportunities for members to engage
- Develop a cohesive and inclusive leadership team
- Ensure financial sustainability and growth
- Operate efficiently, transparently and consistently
- Solidify SOAP's brand and focus
JOIN OUR
GLOBAL COMMUNITY

Learn new skills, techniques, and methods to improve patient care and safety

Enhance your network of regional, national and international professional colleagues

Connect with others who share similar issues in their practices for advice and counsel

Access research grants, education, and clinical practice resources

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SOAP membership will benefit you and your practice in numerous ways:

- Enhances your network of regional, national and international professional colleagues
- Provides the opportunity to learn new skills, techniques, and methods to improve the care and safety of pregnant women and their fetuses
- Offers opportunities for professional development and leadership
- Allows access to previous meeting publications, files, and supplements
- Gives a forum to evaluate and discuss the latest research, education, and clinical practices in the specialties of obstetric anesthesia, obstetrics, and perinatology
- Affords CME opportunities and reduced registration fees for SOAP Annual Meetings and virtual events
- CME credits earned are supplied to the ABA (ABA# must be provided upon registration)
- Enables access to significant research grants and research mentorship
- Connects you to other individuals that share similar issues in their practices for advice and counsel
- Provides access to American College of Obstetricians and Gynecologists documents of interest to OB anesthesia
- Provides discounted membership for the International Anesthesia Research Society, including subscription to Anesthesia & Analgesia (the official journal of SOAP) and event discounts
- Provides discounted journal subscription rates to Obstetric Anesthesia Digest and International Journal of Obstetric Anesthesia
- Provides discounted registration rates for meetings of the Obstetric Anaesthesia Association (UK)

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1995-1996 Mieczyslaw (Mike) Finster, M.D.
1994-1995 Barbara Leighton, M.D.
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1972-1973 James A. Evans, M.D.
1971-1972 Bradley E. Smith, M.D.
1970-1971 Robert F. Hustead, M.D.
1969-1970

Memoriam
In 2020, SOAP was saddened to learn of the passing of two distinguished Past Presidents.
Dr. Barbara Leighton
Dr. Charles P. Gibbs
Board of Directors

Ruth Landau, M.D.
President

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Vice President

Klaus Kjaer, M.D., M.B.A.
Legacy

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Lisa R. Leffert, M.D.
Immediate Past President & Intersociety Chair

Grace Lim, M.D., M.S.
Director from Academic Practice

Heather C. Nixon, M.D.
Annual Meeting/Live Events Chair

May C. Pian-Smith, M.D., M.S.
Education Chair
SOAP Awards

SOAP Media Award
The goal of the SOAP Media Award is to acknowledge the contribution of a member of the media in furthering public awareness of the important role obstetric anesthesiology plays in the care of the parturient. Journalists, photographers, producers, directors, and any other media professionals involved in the development and advancement of the above content will be considered. All relevant media genres including but not limited to print, radio, television, and the internet are eligible. The award is given for merit and may not be awarded every year.

SOAP Media Award Recipients

2020  Brian Scott, FOX TV Orlando: “CBD Use During Pregnancy”
2018  Renee Montagne, NPR “Maternal Mortality and Serious Morbidity Investigative Reporting”
2017  Univision, Dr. Cesar R. Padilla Interview by Salud y Mujer, “Lo que debe saber sobre la anestesia epidural”, May 16, 2016
2017  OpenAnesthesia.org, Obstetric Anesthesia Webinars by Dr. Elizabeth H. Ellinas
2014  Dana Kozlov, WBBM-TV Chicago: “Mother dies while delivering baby - and lives to tell about it,” Dec. 17, 2013
2011  Roini Caryn Rabin, “In Labor, a Snack or a Sip?,” New York Times, Jan 26, 2010
2010  Larry Hatteberg, Hatteberg’s People, for “From Goddard to Ghana: A Woman’s Journey”, KAKE ABC Channel 10
2005  Cynthia Wong, M.D. and William Camann, M.D., for Today Show appearance (with Katie Couric) regarding Dr. Wong’s study on epidurals in early labor.
1999  Rachel Ward, the Australian actress, for her piece “Maternity Ward”, describing her own childbirth experience.

Distinguished Service Award
The Board of Directors selects the recipient of the SOAP Distinguished Service Award based on the following criteria: The recipient has been a long-standing society member. The recipient made numerous contributions to the Society (i.e., served on the Board of Directors, presented at Annual Meetings, served on Society committees) and has provided exceptional service to the specialty of obstetric anesthesia. In addition the SOAP Board of Directors recognizes the recipient as one who is viewed by the community at large as an exemplary ambassador of obstetric anesthesia.

Distinguished Service Award Recipients

2019  Richard M. Smiley, M.D., Ph.D
2018  David H. Chestnut, M.D.
2017  Robert D’Angelo, M.D.
2016  Joy L. Hawkins, M.D.
2015  William R. Camann, M.D.
2014  Alan C. Santos, M.D., M.P.H.
2013  Alex F. Pue, M.D.
2012  Gerard M. Bassell, M.D.
2011  Joanne Douglas, M.D.
2010  Mark A. Rosen, M.D.
2009  Sanjay Datta, M.B.
2008  Samuel Hughes, M.D. (posthumous)
2007  Frank James, M.D.
2006  Felicity Reynolds, M.D.
2005  Frederick Zuspan, M.D.
2004  Sheila E. Cohen, M.B., Ch.B.
2003  Brett B. Gutsche, M.D.
2002  Bradley E. Smith, M.D.
2001  Robert F. Hustead, M.D.
2000  Gertie F. Marx, M.D.
**Research in Education Award**

The research in Education Award was established in 2001 by the SOAP Board of Directors and first given at the May 2002 Annual Meeting in Hilton Head, South Carolina.

The criteria are:

- Abstracts may focus on the education of medical students, residents, patients, obstetric care providers, or the community.
- All health care providers (anesthesiologists, fellows, residents, obstetricians, nurses, etc) are eligible as long as they are a member of SOAP or sponsored by a SOAP member.

**Research in Education Award Recipients**

2019  Allison Lee, M.D., M.B.B.S.
2018  Janette Brohan, M.D.
2017  Victoria Danahkl, M.D.
2016  Heather C. Nixon, M.D.
2015  Mrinalini Balki, M.B.B.S., M.D. and Katherine G. Lim, M.D. (tie)
2014  Kelly G. Elterman, M.D.
2013  Clemens M. Ortner, M.D.
2012  Raymund Glassenburg, M.D.
2011  Michelle A. Walters, M.B., B.S.

**SOAP Teacher of the Year Award**

The SOAP Teacher of the Year Award was created to recognize outstanding practitioners of obstetric anesthesiology who have demonstrated superior teaching primarily of anesthesiology residents and fellows, and secondarily of obstetricians, nurses, midwives, and the lay public. The SOAP Education Awards Subcommittee is charged with the task of evaluating candidates and would like nominators to consider the following attributes of the candidates: clinical teaching, mentoring, and the advancement of obstetric anesthesia outside of our own community.

**Teacher of the Year Award Recipients**

2020  Regina Y. Fragneto, M.D. (Over 10 Years of Experience)
2020  Bryan P. Mahoney, M.D. (Less than 10 Years of Experience)
2019  Manuel C. Vallejo Jr., M.D. D.M.D. (Over 10 Years of Experience)
2019  Daniel Katz, M.D. (Less than 10 Years of Experience)
2018  Barbara M. Scavone, M.D. (Over 10 Years of Experience)
2018  Michaela K. Farber, M.D., M.S. (Less than 10 Years of Experience)
2017  Philip E. Hess, M.D. (Over 10 Years of Experience)
2017  Heather C. Nixon, M.D. (Less than 10 Years of Experience)
2016  Joy E. Schabel, M.D. (Over 10 Years of Experience)
2016  Katherine W. Arendt, M.D. (Less than 10 Years of Experience)
2015  Jose C.A. Carvalho, M.D., Ph.D., FANZCA, FRCPC (Over 10 Years of Experience)
2015  Rebecca Minehart, M.D. (Less than 10 Years of Experience)
2014  Cynthia Wong, M.D. (Over 10 Years of Experience)
2014  Paloma Toledo, M.D., M.PH. (Less than 10 Years of Experience)
2013  Curtis L. Baysinger, M.D. (Over 10 Years of Experience)
2013  Mark D. Rollins, M.D. (Less than 10 Years of Experience)
2012  May Pian-Smith, M.D. (Over 10 Years of Experience)
2012  Brendan Carvalho, M.B.B.Ch., FRCA, M.D.Ch. (Less Than 10 Years of Experience)
2011  Lawrence C. Tsen, M.D. (Over 10 Years of Experience)
2011  Moeen Panni, M.D., Ph.D. (Less Than 10 Years of Experience)
2010  Sivam Ramanthan, M.D. (Over 10 Years of Experience Category)
2010  Sabri Barsoum, M.D. (Less than 10 Years of Experience)
2009  Medge D. Owen, M.D.
2008  William Camann, M.D.
Diversity & Inclusivity Award

On May 12, SOAP will present the first-ever SOAP Diversity & Inclusivity Award, recognizing a member actively doing the important work of promoting Diversity & Inclusivity in their communities and workplaces.

The SOAP Diversity and Inclusivity Award will recognize outstanding obstetric anesthesiologists who have acted to address racial and ethnic disparities in maternal health outcomes and made significant contributions to increasing diversity and inclusivity of the anesthesiology workforce through their scholarship, mentorship and leadership.

Frederick P. Zuspan Award

The Zuspan award started in 1997 and its purpose is to promote collaborative research and scholarship between Obstetricians and Obstetric Anesthesiologists by rewarding the top research paper co-authored by an Obstetrician interfacing with an Obstetric Anesthesiologist. Eligibility criteria for the Zuspan award is that at least one co-author of the abstract must be an Obstetrician.

Frederick P. Zuspan Award Recipients

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>2019</td>
<td>Danny Mireault, M.D.</td>
</tr>
<tr>
<td>2018</td>
<td>Shunsuke Hyuga, M.D.</td>
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<tr>
<td>2017</td>
<td>Jeremy Juang, M.D., Ph.D.</td>
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<td>2016</td>
<td>Brendan Carvalho, M.B.B.Ch., FRCA, M.D.C.H.</td>
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<tr>
<td>2015</td>
<td>Chiraag Talati, M.B.B.S., B.Sc. (Hons), FRCA</td>
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<td>2014</td>
<td>Mrinalini Balki, M.D.</td>
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<td>2013</td>
<td>Emmanuel K. Srofenyoh, M.D., FWACS</td>
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<td>2012</td>
<td>Suresh Anandakrishnan, M.D.</td>
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<tr>
<td>2011</td>
<td>Elena Reitman, M.D.</td>
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<td>2010</td>
<td>Mrinalini Balki, M.D.</td>
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<td>2009</td>
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<td>2008</td>
<td>Adrienne Stewart, M.B., B.S.</td>
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<td>2007</td>
<td>Ronald B. George, M.D.</td>
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<td>2006</td>
<td>Geraldine O’Sullivan, M.D.</td>
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<td>2005</td>
<td>Mughina Siddiqui, M.D.</td>
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<td>2004</td>
<td>Errol R. Norwitz, M.D.</td>
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<td>2003</td>
<td>Anthony G. Maratea, M.D.</td>
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<td>2002</td>
<td>Laura M. Goetzi, M.D.</td>
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<td>2001</td>
<td>Patrick S. Ramsey, M.D.</td>
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<td>2000</td>
<td>Yasser Y. El-Sayed, M.D.</td>
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<td>1999</td>
<td>Kenneth Leveno, M.D.</td>
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<tr>
<td>1998</td>
<td>A.H. Shennan, M.D.</td>
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<tr>
<td>1997</td>
<td>Yasser Y. El-Sayed, M.D.</td>
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SOAP Honorary Lectures

52nd Annual Meeting
September 17 – October 29, 2020 • Virtual Event
Fred Hehre Lecture – May C. Pian-Smith, M.D., M.S.

51st Annual Meeting
May 1-5, 2019 • Phoenix, Arizona
Fred Hehre Lecture: "Dogmas in Obstetric Anesthesia, The Balance Between Evidence, Common Sense, Habit and Fear" – Jose C.A. Carvalho, M.D., Ph.D., FANZCA, FRCPC

50th Annual Meeting
May 9-13, 2018 • Miami, Florida
Fred Hehre Lecture: Robert A. Dyer, FCA (SA), Ph.D.
Gertie Marx Education Lecture: SOAP's 50th Anniversary: Brendan Carvalho, M.B.B.Ch, F.R.C.A, M.D.C.H.; Richard B. Clark, M.D.; Bradley Smith, M.D.; Mark I. Zakowski, M.D., FASA

49th Annual Meeting
May 14-18, 2014 • Toronto, Ontario, Canada
Gertie Marx/FAER Education Lecture: Eleni Tsigas
"Preeclampsia: What Your Patients Want You to Know"
What's New in Obstetrics: John Kingdom, M.D. "Pathogenesis, Prevention & Management of Severe Preeclampsia"
What's New in Neonatology: Jeff Perlman, M.B., Ch.B.
"Avoiding Hypothermia/Hyperthermia in the Delivery Room in the Newly Born Infant has Significant Beneficial Downstream Consequences"
Fred Hehre Lecture:
David J. Wlody, M.D.
Gerard W. Ostheimer Lecture - What's New in Obstetric Anesthesia?: Lisa R. Leffert, M.D.

48th Annual Meeting
May 18-22, 2016 • Boston, MA
What's New in Obstetric Medicine:
Need T. Shah, M.D., M.P.P.
What's New in Neonatology:
Terrie E. Inder, M.D., Ph.D., M.B.Ch.B.
Fred Hehre Lecture:
Lawrence C. Tsien, M.D.
Gerard W. Ostheimer Lecture- What's New in Obstetric Anesthesia: Phillip E. Hess, M.D.

47th Annual Meeting
May 13-17, 2015 • Colorado Springs, CO
Gertie Marx/FAER Education Lecture:
Frederic W. Hafferty, Ph.D. "Professionalism and the Hidden Curriculum"
What's New in Obstetrics:
Linda A. Barbour, M.D., M.S.P.H., FACP
"What's New in Obstetric Medicine? The Intrauterine Factors Fueling Trans-generational Obesity"
What's New in Fetal Surgery:
Timothy M. Crombleholme, M.D., FACS, FAAP
Fred Hehre Lecture:
Warwick Ngan Kee, B.H.B., M.B., Ch.B., M.D., FANZCA, FHKCA, FHKAM (Anaesthesiology)
Gerard W. Ostheimer Anesthesia Lecture- What's New in Obstetric Anesthesia:
Katherine W. Arendt, M.D.

46th Annual Meeting
May 14-18, 2014 • Toronto, Ontario, Canada
Gertie Marx/FAER Education Lecture:
Ndola Prata, M.D., M.Sc.
"Maternal Mortality in Resource-Poor Settings"
What's New in Obstetrics:
Michael Greene, M.D.
"The Obstetrician's Perspective: Obstetrical Directions in the Near Future"
What's New in Obstetric Medicine:
Dennis McNamara, M.D.
“The Cardiologist’s Perspective: Peripartum Cardiomyopathy”

Special Lecture:
José Cordero, M.D.

Fred Hehre Lecture: Richard Smiley, M.D., Ph.D. “Passion”

Gerard W. Ostheimer Lecture - What’s New in Obstetric Anesthesia?:
Arvind Palanisamy, M.D., FRCA

44th Annual Meeting
May 2-5, 2012 • Monterey, CA

Gertie Marx/FAER Education Lecture: Gordon Guyatt, M.D., B.Sc., M.Sc., FRCPC
“Why Bother With Evidence-Based Anesthesia”

What’s New in Obstetrics:
Julian Parer, M.D.
“Evolving Consensus on Standardization of FHR Pattern Management”

Fred Hehre Lecture: Gordon Lyons, M.D.

Gerard W. Ostheimer Lecture - What’s New in Obstetric Anesthesia?:
Alexander Butwick, M.B.B.S., FRCA, M.S.

43rd Annual Meeting
April 29-May 3, 2009 • Washington, DC

Fred Hehre Lecture:
Joy L. Hawkins, M.D. “Anesthesiology’s Contribution to Maternal Safety”

Gerard W. Ostheimer Lecture - What’s New in Obstetric Anesthesia?:
John T. Sullivan, M.D., M.B.A.

40th Annual Meeting
April 30-May 4, 2008 • Chicago, IL

Fred Hehre Lecture:
Alan C. Santos, M.D.
“See One, Do One, Teach One: Is This What Women Really Want?”

Gerard W. Ostheimer Lecture - What’s New in Obstetric Anesthesia?:
Ruth Landau, M.D.

39th Annual Meeting
May 16-19, 2007 • Banff, Alberta, Canada

What’s New In Obstetrics:
Michael Helewa, M.D.

Obstetric Medicine Update:
Linda Barbour, M.D., M.S.P.H.

Gerard W. Ostheimer Lecture - What’s New in Obstetric Anesthesia?:
Alison Macarthur, M.D., M.Sc., F.R.C.P.C.

Fred Hehre Lecture:
David J. Birnbach, M.D., M.P.H. “Malpractice or Miscommunication? The Importance of Improved Communication between Anesthesiologists, Patients and our Colleagues”

42nd Annual Meeting
May 12-16, 2010 • San Antonio, TX

Special Research Lecture:
Steven L. Shafer, M.D.

“What's New in Obstetric Medicine:
Dennis McNamara, M.D.
“The Cardiologist’s Perspective: Peripartum Cardiomyopathy”

Special Lecture:
José Cordero, M.D.

Fred Hehre Lecture: Richard Smiley, M.D., Ph.D. “Passion”

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Gerard W. Ostheimer Lecture - What’s New in Obstetric Anesthesia?:
Alison Macarthur, M.D., M.Sc., F.R.C.P.C.

Fred Hehre Lecture:
David J. Birnbach, M.D., M.P.H. “Malpractice or Miscommunication? The Importance of Improved Communication between Anesthesiologists, Patients and our Colleagues”

42nd Annual Meeting
May 12-16, 2010 • San Antonio, TX

Special Research Lecture:
Steven L. Shafer, M.D.
38th Annual Meeting
April 26-30, 2006 • Hollywood, FL
What's New In Obstetrics:
Howard Minkoff, M.D.

Obstetric Medicine Update: Erin Joanne Keely, M.D., F.R.C.P. “Endocrine Disease in Pregnancy”

Gerard W. Ostheimer Lecture - What's New in Obstetric Anesthesia?:
Roshan Fernando, F.R.C.A.

Fred Hehre Lecture: David Chestnut, M.D.

37th Annual Meeting
May 4 - 7, 2005 • Palm Desert, CA
What's New In Obstetrics:
Errol R. Norwitz, M.D., Ph.D.

What's New In Obstetric Medicine: Raymond Powrie, M.D., F.R.C.P(C), F.A.C.P.

Gerard W. Ostheimer Lecture - What's New in Obstetric Anesthesia?:
Brenda A. Bucklin, M.D.

Fred Hehre Lecture: James C. Eisenach, M.D. “Pain and Delivery - Why, What and When”

36th Annual Meeting
May 12 - 16, 2004 • Ft. Myers, FL
What's New In Obstetrics
Gary Hankins, M.D.

What's New In Neonatology:
Ruben Quintero, M.D.

Gerard W. Ostheimer Lecture - What's New in Obstetric Anesthesia?:
Lawrence C. Tsen, M.D.

Fred Hehre Lecture: Samuel C. Hughes, M.D. “Maternal Mortality: What have we learned and how do we use it?”

35th Annual Meeting
May 14 - 17, 2003 • Phoenix, AZ
What's New In Obstetrics:
Kathryn L. Reed, M.D.

What's New in Neonatology:
Kevin Coulter, M.D.

Gerard W. Ostheimer Lecture - What's New in Obstetric Anesthesia?:
Audrey S. Alleyne, M.D.

Fred Hehre Lecture: Donald Caton, M.D.

34th Annual Meeting
May 1 - 5, 2002 • Hilton Head Island, SC
What's New in Neonatology - Vignettes in

33rd Annual Meeting
April 25 - 28, 2001 • San Diego, CA
What's New in In Vitro Fertilization:
Christo Zouves, M.D.

What's New in Obstetrics: Robert Resnik, M.D.

Fred Hehre Lecture: M. Joanne Douglas, M.D.

32nd Annual Meeting
May 31 - June 4, 2000 • Montreal, Quebec, Canada
Gerard W. Ostheimer Lecture - What's New in Obstetric Anesthesia?:
Linda S. Polley, M.D.

What's New in Obstetrics:
Frank Chervenak, M.D.

What’s New in Intrauterine Fetal Surgery and “Exit” Procedures: Timothy Crombleholme, M.D.

Fred Hehre Lecture: Michael J. Cousins, M.D. “Persistant Pain: A Disease Entity?”

31st Annual Meeting
May 19 - 22, 1999 • Denver, CO
What's New in Neonatology:
Susan F. Townsend, M.D.

“Ethical Issues at the Intersection of Neonatology and Anesthesia”

What's New in Obstetrics:
Larry C. Gilstrap, III, M.D.

Fred Hehre Lecture:
Sheila E. Cohen, M.B., Ch.B.

30th Annual Meeting
April 29 - May 2, 1998 • Vancouver, British Columbia, Canada

Neonatal Resuscitation: Robert Chantigian, M.D.

What’s New in Obstetrics:
Michael Greene, M.D.

Gerard W. Ostheimer Lecture - What's New in Obstetric Anesthesia?:
David J. Wlody, M.D.

Fred Hehre Lecture: David M. Dewan, M.D. “Obstetric Anesthesia 1977 - 2002 A Personal Perspective - from Consilience to Victory”
What's New in Neonatology: Shoo Lee, M.D.
What's New in Obstetrics: Thomas Benedetti, M.D.
Fred Hehre Lecture: Gershon Levinson, M.D.
Gerard W. Ostheimer Lecture - What's New in Obstetric Anesthesia?: David Campbell, M.D.

29th Annual Meeting
April 13 - 17, 1997 • Bermuda
Fred Hehre Lecture: M. Finster, M.D. “Abandoned Techniques and Drugs in Obstetrics and Obstetric Anesthesia”
What's New in Obstetrics: Valerie M. Parisi, M.D., M.P.H.
What's New in Obstetric Anesthesia: Richard N. Wissler, M.D., Ph.D.

28th Annual Meeting
May 1 - 4, 1996 • Tucson, AZ
What's New in Obstetrics: Maurice L. Druzin, M.D.
What's New in Neonatology: Wallace Nogami, M.D.
Fred Hehre Lecture: Charles P. Gibbs, M.D. “Obstetric Anesthesia - USA”
What's New in Obstetric Anesthesia: David J. Birnbach, M.D.

27th Annual Meeting
May 17 - 20, 1995 • Montreal, Quebec, Canada
Fred Hehre Lecture: Ronald Melzack, Ph.D. “Current Concepts of Pain”
What's New in Anesthesiology: Holly A. Muir, M.D., F.R.C.P.

26th Annual Meeting
May 11 - 14, 1994 • Philadelphia, PA
Fred Hehre Lecture: Felicity Reynolds, M.B.B.S., M.D. “In Defense of Bupivacaine”
What's New in Obstetric Anesthesia: Valerie A. Arkoosh, M.D.

25th Annual Meeting
May 5 - 8, 1993 • Indian Wells, CA
Fred Hehre Lecture: Frederick P. Zuspan, M.D. “New Thoughts on an Old Disease: Preeclampsia/Eclampsia”

What's New in Obstetric Anesthesia: Beth Glosten, M.D.
What's New in Obstetrics: Jeffery P. Phelan, M.D., J.D.
What's New in Neonatology: Stephen Baumgart, M.D.

24th Annual Meeting
May 7 - 10, 1992 • Charleston, SC
Fred Hehre Lecture: Bradley Smith, M.D. “Visionary of the Past, Example for the Future of Obstetric Anesthesia.”
What's New in Obstetrics: Roderick F. “Rick” Hume, Jr., M.D.
What's New in Neonatology: Frank Tanaka, M.D.
What's New in Obstetric Anesthesia: Andrew Malinow, M.D.

23rd Annual Meeting
May 23 - 25, 1991 • Boston, MA
What's New in Obstetrics: David B. Cotton, M.D.
What's New in Obstetric Anesthesia: Barbara L. Leighton, M.D.
What's New in Neonatology: Steven Ringer, M.D.

22nd Annual Meeting
May 23 - 26, 1990 • Madison, WI
What's New in Obstetrics: Sharon Dooley, M.D.
What's New in Obstetric Anesthesia: Susan Palmer, M.D.
What's New in Neonatology: Jane Brazy, M.D.

21st Annual Meeting
May 24 - 27, 1989 • Seattle, WA
What's New in Obstetrics: Thomas Benedetti, M.D.
What's New in Anesthesia: James Eisenach, M.D.
Fred Hehre Lecture: Francis M. James, M.D. “Lessons Learned from Obstetric Anesthesia”
What's New in Neonatology: John Scanlon, M.D.
20th Annual Meeting
April 27 - 30, 1988 • San Francisco, CA

Annual Review of Neonatology:
Roderic Phibbs, M.D.

Annual Review of Anesthesiology:
David Chestnut, M.D.

Fred Hehre Lecture: Tony Yaksh, Ph.D. “New Horizons in the Control of the Spinal Cord Level of the Sensory and Autonomic Response to Pain”

Annual Review of Obstetrics: James Green, M.D.

19th Annual Meeting
May 20 - 23, 1987 • Halifax, Nova Scotia, Canada

Annual Review of Anesthesiology:
Sally K. Weeks, M.D.

Annual Review of Obstetrics:
Tom Baskett, M.D.

Fred Hehre Lecture: John J. Bonica, M.D. “The Mechanisms and Pathways of the Pain of Childbirth”

What’s New in Neonatology - Part 1:
M.J. Vincer, M.D.

What’s New in Neonatology - Part 2:
C.G. Nwaesei, M.D.

18th Annual Meeting
May 14 - 17, 1986 • Salt Lake City, UT

Fred Hehre Lecture: Frank C. Greiss, Jr., M.D. “The Evolution of the Placental Circulation with Comments on Clinical Implications”

What’s New in Pediatrics:
John Scanlon, M.D.

Special Lecture - Obstetric Anesthesia:
A National Survey: Charles Gibbs, M.D.

What’s New in Obstetrics:
Neil K. Kochenour, M.D.

What’s New in Anesthesia:
Laurence Reisner, M.D.

17th Annual Meeting
May 9 - 12, 1985 • Washington, DC

Fred Hehre Lecture: Sol M. Shnider, M.D. “The Fellows Made Me Do It”

What New’s in Obstetrics:
M. Lynn Yonekura, M.D.

What’s New in Neonatology:
Virginia Williams, M.D.

What’s New in Anesthesia:
Samuel C. Hughes, M.D.

16th Annual Meeting
April 12 - 15, 1984 • San Antonio, TX

What’s New in Anesthesia:
Robert Middaugh, M.D.

What’s New in Obstetrics of Particular Relevance to Anesthesia:
Robert W. Huff, M.D.

Fred Hehre Lecture: Phillip R. Bromage, M.D. “Evolution and Revolution in Obstetrical Anesthesia”

15th Annual Meeting
May 25 - 28, 1983 • San Francisco, CA

Annual Review of Anesthesiology:
W.D.R. Writer, M.D.

Annual Review of Obstetrics:
Sidney Effer, M.D.

Fred Hehre Lecture: Edward Hon, M.D. “Whose Distress - Mother, Fetus, Doctor”

Annual Review of Pediatrics: A.J. MacNab, M.D.

14th Annual Meeting
June 2 - 6, 1982 • Grand Teton National Park, WY

What’s New in Neonatology:
Lawrence J. Grylack, M.D.

Fred Hehre Lecture: L. Stanley James, M.D.

What’s New in Obstetrical Anesthesia:
Kenneth Conklin, M.D.

What’s New in Obstetrics:
Thomas Benedetti, M.D.

13th Annual Meeting
April 1 - 4, 1981 • San Diego, CA

Annual Review of Neonatology: Louis Gluck, M.D.

Annual Review of Anesthesiology:
Walter L. Millar, M.D.

Fred Hehre Lecture: Gertie F. Marx, M.D. “Monitoring the Mother During Labor”

Annual Review of Obstetrics:
Larry M. Cousins, M.D.
12th Annual Meeting  
May 9 - 11, 1980 • Boston, MA  
  What's New in Obstetrics: David Acker, M.D.  
  What's New in Anesthesia:  
    Robert G. Strauss, M.D.  
  What's New in Neonatology:  
    Michael F. Epstein, M.D.  

11th Annual Meeting  
April 5 - 8, 1979 • Winston-Salem, NC  
  What's New in Obstetrics: Phillip J. Goldstein, M.D.  
  What's New in Pediatrics: Robert G. Dillard, M.D.  
  What's New in Anesthesia: Michael H. Plumer, M.D.  

10th Annual Meeting  
March 30 - April 2, 1978 • Memphis, TN  
  What's New in Anesthesia: John B. Craft, M.D.  
  What's New in Pediatrics: John W. Scanlon, M.D.  
  What's New in Obstetrics: Richard Depp, M.D.  

9th Annual Meeting  
April 14 - 17, 1977 • Seattle, WA  
  What's New in Obstetrics: Kent Ueland, M.D.  
  What's New in Anesthesia: Gershon Levinson, M.D.  
  What's New in Pediatrics: David E. Woodrum, M.D.  

8th Annual Meeting  
April 8 - 11, 1976 • Orlando, FL  
  What's New in Obstetric Anesthesia: Thomas Joyce, M.D.  
  What's New in Neonatology: George Cassady, M.D.  
  What's New in Obstetrics: Calvin Hobel, M.D.  

7th Annual Meeting  
April 4 - 6, 1975 • Philadelphia, PA  
  What's New in Obstetric Anesthesia: Robert Hook, M.D.  
  What's New in Obstetrics: John Fishburne, M.D.  
  What's New in Perinatology: Paul Branca, M.D.
The SOAP Center of Excellence (COE) designation was created to recognize institutions and programs that demonstrate excellence in obstetric anesthesia care and to set a benchmark of expected care to improve standards nationally and internationally. It is an annual program, with new designees announced each spring. Read on to learn more about the COE program, processes, benefits and fees.

**2020 Designees**

Clinica Universitaria Bolivariana – Medellin, Columbia

George Washington School of Medicine – Washington DC

Hamad Medical Corporation, Women’s Wellness & Research Centre, - Doha, Qatar

Hoag Memorial Hospital Presbyterian – Newport Beach, CA

Loma Linda University – Loma Linda, CA

Long Island Jewish Medical Center – Hyde Park, NY

Minneapolis Anesthesia Partners – Plymouth, MN

National Center for Child Health and Development – Tokyo, Japan

Ohio State University Wexner Medical Center – Columbus, OH

Sidra Medicine – Doha, Qatar

Stony Brook Medicine – Stony Brook, NY

Sutter Medical Center, Sacramento – Sacramento, CA

UC Davis Medical Center - Sacramento, CA

University of Alabama at Birmingham – Birmingham, AL

University of Chicago – Chicago, IL

Virginia Commonwealth University Health System – Richmond, VA

Yale New Haven Hospital – York Street Campus – New Haven, CT

*The COE designation was awarded March 12, 2021, to the institutions and obstetric anesthesia programs listed above and will remain valid for four years.*
2019 Designees

University of Michigan - Michigan Medicine
Kaiser Permanente - Roseville Women & Children's Hospital
University of Maryland Medical Center
Virtua Voorhees Hospital - West Jersey Anesthesia Associates
UAMS College of Medicine
Vanderbilt University
Missouri Baptist Medical Center
BC Women's Hospital
Hospital of the University of Pennsylvania
Hackensack University Medical Center
The Froedtert & the Medical College of Wisconsin
Froedtert Hospital Birth Center
Mayo Clinic
Miller Women's and Children's Hospital
University of Utah

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2018 Designees

Stanford University
Northwestern University Feinberg School of Medicine
Columbia University
University of New Mexico
Colorado Fetal Care Center, Children's Hospital Colorado
North Shore University Hospital
Johns Hopkins Hospital
Saddleback Memorial Medical Center
Albany Medical Center
University of North Carolina, Chapel Hill
New York Presbyterian - Weill Cornell
Tufts Medical Center
Icahn School of Medicine at Mount Sinai
Beth Israel Deaconess Medical Center
Overlook Medical Center
University of Minnesota
Sparrow Hospital
Ochsner Hospital
NYU Langone - Tisch Hospital
University of California San Francisco
Wake Forest University Health Sciences
Juntendo University Hospital
Massachusetts General Hospital
Mount Sinai West
Magee-Womens Hospital of UPMC
University of Washington
Sharp Mary Birch Hospital for Women and Newborns
Washington University School of Medicine
Victoria Hospital
Brigham and Women's Hospital
Zuckerberg San Francisco General Hospital and Trauma Center
Texas Children's Hospital - Pavilion for Women
Mercy Hospital St. Louis
Hospital e Maternidade Santa Joana
Regional One Health
Cedars-Sinai Medical Center
MedStar Washington Hospital Center
Penn Medicine Princeton Health
Duke University

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Thank You to Our Sponsors!

Alydia Health
Alydia Health is the proud maker of the Jada System for postpartum hemorrhage and abnormal postpartum uterine bleeding. Jada uses low-level vacuum to induce uterine contraction, offering a fast, definitive and physiologic approach. Recently cleared by the FDA, Jada is now available on a limited basis in the US.

BD- Beckton Dickinson
BD has produced regional anesthesia products for most of the more than 100 years that we have been in business. We offer a full range of anesthesia products for regional anesthesia, peripheral block and postoperative pain management. These products include needles, syringes, catheters, connectors, accessories, regional anesthesia trays and kits. We have a proven track record of innovation in needle technology and a market-driven product development process.

CAREstream
CAREstream America offers premium solutions, including the cutting-edge Pro-Nox System, a 50/50 Nitrous Oxide and Oxygen gas delivery system. This analgesia device is a safe and effective, patient-controlled tool used to help ease the “labor” and anxiety expecting mothers may be experiencing during labor. Visit our website to learn more at www.carestreamamerica.com

Pajunk USA
PAJUNK® Medical is a leading manufacturer in regional anesthesia and pain management. Pajunk was founded in 1965 by two brothers, Horst and Heinrich Pajunk, who had a vision to bring high quality German engineering to the manufacturing of medical devices. Throughout the years Pajunk became well-known for working closely with clinicians on new innovations, further strengthening the efficacy of their product portfolio. Neuraxial product innovations include the atraumatic SPROTTE® spinal needle created in partnership with Prof. Dr. Gunter Sprotte, and the EpiLong VPC epidural detection syringe created with Prof. Dr. Dietmar Enk. Today, the tradition continues as the next generation of Pajunk’s are dedicated to expanding their clinical innovations to existing and new markets.

IMD
IMD offers a wide range of spinal needles designed to reduce the occurrence of post dural puncture headache.
Indication
EXPAREL® (bupivacaine liposome injectable suspension) is indicated for single-dose infiltration in patients aged 6 years and older to produce postsurgical local analgesia and in adults as an interscalene brachial plexus nerve block to produce postsurgical regional analgesia. Safety and efficacy have not been established in other nerve blocks.

Important Safety Information
EXPAREL is contraindicated in obstetrical paracervical block anesthesia.

Adverse reactions reported in adults with an incidence greater than or equal to 10% following EXPAREL administration via infiltration were nausea, constipation, and vomiting; adverse reactions reported in adults with an incidence greater than or equal to 10% following EXPAREL administration via interscalene brachial plexus nerve block were nausea, pyrexia, and constipation.

Adverse reactions with an incidence greater than or equal to 10% following EXPAREL administration via infiltration in pediatric patients six to less than 17 years of age were nausea, vomiting, constipation, hypotension, anemia, muscle twitching, vision blurred, pruritis, and tachycardia.

If EXPAREL and other non-bupivacaine local anesthetics, including lidocaine, are administered at the same site, there may be an immediate release of bupivacaine from EXPAREL. Therefore, EXPAREL may be administered to the same site 20 minutes after injecting lidocaine.

EXPAREL is not recommended to be used in the following patient populations: patients <6 years old for infiltration, patients younger than 18 years old for interscalene brachial plexus nerve block, and/or pregnant patients.

Because amide-type local anesthetics, such as bupivacaine, are metabolized by the liver, EXPAREL should be used cautiously in patients with hepatic disease.

Warnings and Precautions Specific to EXPAREL
Avoid additional use of local anesthetics within 96 hours following administration of EXPAREL.

EXPAREL is not recommended for the following types or routes of administration: epidural, intrathecal, regional nerve blocks other than interscalene brachial plexus nerve block, or intravascular or intra-articular use.

The potential sensory and/or motor loss with EXPAREL is temporary and varies in degree and duration depending on the site of injection and dosage administered and may last for up to 5 days, as seen in clinical trials.

Warnings and Precautions for Bupivacaine-Containing Products
Central Nervous System (CNS) Reactions: There have been reports of adverse neurologic reactions with the use of local anesthetics. These include persistent anesthesia and paresthesia. CNS reactions are characterized by excitation and/or depression.

Cardiovascular System Reactions: Toxic blood concentrations depress cardiac conductivity and excitability, which may lead to dysrhythmias, sometimes leading to death.

Allergic Reactions: Allergic-type reactions (eg, anaphylaxis and angioedema) are rare and may occur as a result of hypersensitivity to the local anesthetic or to other formulation ingredients.

Chondrolysis: There have been reports of chondrolysis (mostly in the shoulder joint) following intra-articular infusion of local anesthetics, which is an unapproved use.

Methemoglobinemia: Cases of methemoglobinemia have been reported with local anesthetic use.

Please refer to brief summary of Prescribing Information on adjacent page.

For more information, please visit www.EXPAREL.com or call 1-855-793-9727.

**INDICATIONS AND USAGE**

EXPAREL is indicated for single-dose infiltration in patients aged 6 years and older to produce postoperative local analgesia and in adults as an intermittent or bolus intravenous/nasal/patellar nerve block to produce postoperative regional analgesia.

Limitation of Use: Safety and efficacy has not been established in other nerve blocks.

**CONTRAINDICATIONS**

EXPAREL is contraindicated in obstetrical paracervical block anesthesia. While EXPAREL has not been tested with this technique, the use of bupivacaine HCl with this technique has resulted in fatal bradycardia and death.

**WARNINGS AND PRECAUTIONS**

Warnings and Precautions Specific for EXPAREL

As there is a potential for severe life-threatening adverse effects associated with the administration of bupivacaine, EXPAREL should be administered in a setting where trained personnel and equipment are available to promptly treat patients who show evidence of neurological or cardiac toxicity.

Cardinal signs to be taken to avoid accidental intravascular injection of EXPAREL. Convulsions and cardiac arrest have occurred following accidental intravascular injection of bupivacaine and other amide-containing products.

Avoid additional use of local anesthetics within 96 hours following administration of EXPAREL. EXPAREL has not been evaluated for the use following and, therefore, is not recommended for these types of analgesia or routes of administration.

- **epidural**
- **intrathecal**
- **regional nerve blocks other than intercostal brachial plexus nerve block**
- **intravascular or intrarticular use**

EXPAREL has not been evaluated for use in the following patient population and, therefore, is not recommended for administration to these groups.

- **patients undergoing various surgical procedures**
- **patients younger than 18 years old for epidural**

**Adverse Reactions**

The potential sensory and/or motor loss with EXPAREL is temporary and varies in degree and duration depending on the site of injection and dosage administered, being most intense for up to 5 days as seen in clinical trials.

**ADVERSE REACTIONS**

Clinical Trial Experience

Adverse Reactions Reported in Local Infiltration Clinical Studies

The safety of EXPAREL was evaluated in 10 randomized, double-blind, local administration into the surgical site clinical studies involving 823 patients undergoing surgery. Patients were administered a dose ranging from 66 to 532 mg of EXPAREL in these studies. In these studies, the most common adverse reactions (incidence greater than or equal to 10%) included headache, hypertension, paresthesia, dizziness, motor and sensory paresthesia, tinnitus, bradycardia, headache, insomnia, anemia, postoperative, muscle spasms, hemorrhagic disorders, pruritus, nausea, vomiting, urticaria, rash, and cellulitis.

**Contraindications**

CONTRAINDICATIONS

EXPAREL should not be administered with local anesthetics such as bupivacaine. Nonbupivacaine based local anesthetics, including locoide, may cause an immediate increase in blood pressure caused by EXPAREL administered together locally. The administration of EXPAREL may follow the administration of lidocaine after a delay of 20 minutes or more. There are no data to support administration of other local anesthetics prior to administration of EXPAREL.

Other than bupivacaine as noted above, EXPAREL should not be admixed with other drugs prior to injection.

**Metabolism and Excretion**

Water and Hypotensive Agents

Do not dilute EXPAREL with water or other hypotonic agents, as it will result in dilution of the liposomal particles.

**USE IN SPECIFIC POPULATIONS**

**Pregnancy**

Risk Summary

There are no studies conducted with EXPAREL in pregnant women. In animal reproduction studies, effects were observed with subcutaneous administration of bupivacaine to rabbits during organogenesis at a dose equivalent to 1.6 times the maximum recommended human dose (MRHD) of EXPAREL, administered together locally. The administration of EXPAREL may follow the administration of lidocaine after a delay of 20 minutes or more. There are no data to support administration of other local anesthetics prior to administration of EXPAREL.

Other than bupivacaine as noted above, EXPAREL should not be admixed with other drugs prior to injection.

**Labor and Delivery**

Bupivacaine is contraindicated for obstetrical paracervical block anesthesia. While EXPAREL has not been studied with this technique, the use of bupivacaine for obstetrical paracervical block anesthesia has resulted in fetal death due to profound maternal hypotension.

Bupivacaine can rapidly cross the placenta, and when used for epidural, caudal, or pudendal block anesthesia, can cause varying degrees of maternal, fetal, and neonatal toxicity. The incidence and degree of toxicity depend upon the procedure type, the amount, and type of drug used, and the technique of drug administration. Adverse reactions in the parturient, fetus, and neonate vary depending on the site of injection and dosage administered, and the technique of drug administration. Adverse reactions in the central nervous system, peripheral vascular tone, and cardiac function.

**Data**

Bupivacaine hydrochloride was administered subcutaneously to rats and rabbits during the period of organogenesis (implantation to closure of the hard palate) at an oral dose of 2 mg/kg/day (equivalent to 0.2, 0.5, and 1.5 times the MRHD, respectively, based on the BSA comparisons and a 60 kg human weight) and rabbit doses were 1.3, 4, and 12 mg/kg/day (equivalent to 0.2, 0.6, and 2.2 mg/kg/day on the basis of a 70 kg human, respectively, based on the BSA comparisons and a 60 kg human weight), respectively, for an extended period of 360 days. Rabbits treated with subcutaneous doses of bupivacaine hydrochloride (equivalent to 0.2, 0.5 and 1.5 times the MRHD, respectively, based on the BSA comparisons and a 60 kg human weight) from implantation through weaning (during pregnancy and lactation). The high dose causing increased maternal lethality. An increase in embryo-fetal deaths was observed in rats at the high dose in the absence of maternal toxicity. Decreased pup survival was noted at 1.5 times the MRHD in a rat pre- and post-natal development study when pregnant animals were administered subcutaneous doses of bupivacaine hydrochloride (equivalent to 0.2, 0.5 and 1.5 times the MRHD, respectively, based on the BSA comparisons and a 60 kg human weight) from implantation through weaning (during pregnancy and lactation).

**Lactation**

Risk Summary

Limited published literature reports that bupivacaine and its metabolite, N-[2-(dimethylamino)ethyl]-N-(2-ethyl-3-pyridyl)acetamide, are present in human milk at low levels. There is no available information on effects of the drug in the breastfed infant or effects of the drug on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for EXPAREL, and any potential adverse effects on the breastfed infant from EXPAREL and any potential adverse effects on the breastfed infant from any other medications or treatments the mother may be taking. In the nursing mother, EXPAREL has not been evaluated for the following uses and, therefore, is not recommended for administration to these groups:

- **pregnant patients**
- **lactation patients**
- **prophylaxis**
- **avoid accidental intravascular injection of EXPAREL**

**Drug Interactions**

The toxic effects of local anesthetics are additive and their co-administration should be used with caution including monitoring for neurologic and cardiovascular effects related to local anesthetic systemic toxicity. Avoid additional use of local anesthetics within 96 hours following administration of EXPAREL.

Patients who are administered local anesthetics may be at increased risk of developing neurotoxicity when concurrently exposed to the following drugs, which could include any of these local anesthetics:

**Examples of Drugs Associated with Methemoglobinemia:**

- **Nitrates/Nitrites**
  - nitric oxide
  - nitroglycerin
  - nitroprusside
  - nitrohypertensive

- **Local anesthetics**
  - articaine, benzoic acid, bupivacaine, lidocaine, mepivacaine, propracaine, procaine, ropivacaine, bupivacaine hydrochloride, lidocaine hydrochloride, mepivacaine hydrochloride

- **Antiepileptic agents**
  - carbamazepine, clonazepam, lamotrigine, phenarylamide, tiagabine

- **Antibiotics**
  - dapsone, nitrofurantoin, para-aminosalicylic acid, sulfonamides

- **Antimigranals**
  - chlorpromazine

- **Anticonvulsants**
  - phenobarbital, phenytoin, sodium valporate

- **Other drugs**
  - acetaminophen, metoclopramide, quinine, sulfasalazine

**Bupivacaine**

Bupivacaine HCl administered together with EXPAREL may have the potential for toxic drug-drug interactions of EXPAREL, administered simultaneously, and bupivacaine HCl. The ratio of the milligram dose of bupivacaine HCl solution to EXPAREL does not exceed 1.2.

Non-bupivacaine Local Anesthetics

EXPAREL should not be admixed with local anesthetics other than bupivacaine. Nonbupivacaine based local anesthetics, including locoide, may cause an immediate increase in blood pressure caused by EXPAREL administered together locally. The administration of EXPAREL may follow the administration of lidocaine after a delay of 20 minutes or more. There are no data to support administration of other local anesthetics prior to administration of EXPAREL.

Other than bupivacaine as noted above, EXPAREL should not be admixed with other drugs prior to injection.

**Water and Hypotensive Agents**

Do not dilute EXPAREL with water or other hypotonic agents, as it will result in dilution of the liposomal particles.

Management of Local Anesthetic Overdose

At the first sign of change, oxygen should be administered. The first step in the management of convulsions, as well as ventilation and resuscitation of patients, is immediate attention to the delivery of oxygen and airway and assisted or controlled ventilation with oxygen and a delivery system capable of permitting immediate positive airway pressure by mask and endotracheal intubation if necessary. The adequacy of the circulation should be evaluated, keeping in mind that ventricular fibrillation may develop from hypoxia or any other cause. Additional measures to maintain the circulation may be necessary. In the cases of hypotension, shock, or cardiac arrest, resuscitative measures should be instituted. Standard cardiopulmonary resuscitation techniques should be used. If not treated immediately, both convulsions and cardiovascular depression result in hypoxia, respiratory depression, bradycardia, arrhythmias, and cardiac arrest. If cardiac arrest should occur, standard cardiopulmonary resuscitative measures should be instituted.

**DOSE AND ADMINISTRATION**

The recommended dose of EXPAREL for local infiltration in adults is up to a maximum dose of 286mg (20 mL), and is based on the following factors:

- **Site of the surgical site**
  - Volume required to cover the area

**Recommended Dosing**

- **Analgesic Dosing in Adults**
  - The recommended dose of EXPAREL for local infiltration in adults is up to a maximum dose of 286mg (20 mL), and is based on the following factors:
    - **Site of the surgical site**
    - **Volume required to cover the area**
  - **Individual patient factors that may impact the safety of an amide local anesthetic**

Due to the high degree of binding of EXPAREL to plasma proteins, the likelihood of drug interactions is increased. As a general guide in selecting the proper dosing, two examples of intradermal infiltration are provided:

- **patients undergoing buccal necrotomy, a total of 186 mg (6 mL) of EXPAREL was administered with 7 mL, infiltrated into the tissues surrounding the cestrode, and 1 mL infiltrated into the subcutaneous tissue.**
In patients undergoing hemorrhoidectomy, a total of 266 mg (20 mL) of EXPAREL was diluted with 10 mL of saline, for a total of 30 mL, divided into six 5 mL aliquots, injected by visualizing the anal sphincter as a clock face and slowly infiltrating one aliquot to each of the even numbers to produce a field block.

Local Analgesia via Infiltration Dosing in Pediatric Patients

The recommended dose of EXPAREL for single-dose infiltration in pediatric patients, aged 6 to less than 17 years, is 4 mg/kg (up to a maximum of 266 mg), and is based upon two studies of pediatric patients undergoing either spine surgery or cardiac surgery.

Regional Analgesia via Interscalene Brachial Plexus Nerve Block Dosing in Adults

The recommended dose of EXPAREL for interscalene brachial plexus nerve block in adults is 133 mg (10 mL), and is based upon one study of patients undergoing either total shoulder arthroplasty or rotator cuff repair.

Compatibility Considerations

Admixing EXPAREL with drugs other than bupivacaine HCl prior to administration is not recommended.

- Non-bupivacaine based local anesthetics, including lidocaine, may cause an immediate release of bupivacaine from EXPAREL if administered together locally. The administration of EXPAREL may follow the administration of lidocaine after a delay of 20 minutes or more.

- Bupivacaine HCl administered together with EXPAREL may impact the pharmacokinetic and/or physicochemical properties of EXPAREL, and this effect is concentration-dependent. Therefore, bupivacaine HCl and EXPAREL may be administered simultaneously in the same syringe, and bupivacaine HCl may be injected immediately before EXPAREL, as long as the ratio of the milligram dose of bupivacaine HCl solution to EXPAREL does not exceed 1:2.

The toxic effects of these drugs are additive and their administration should be used with caution including monitoring for neurologic and cardiovascular effects related to local anesthetic systemic toxicity.

- When a topical antiseptic such as povidone iodine (e.g., Betadine®) is applied, the site should be allowed to dry before EXPAREL is administered into the surgical site. EXPAREL should not be allowed to come into contact with antiseptics such as povidone iodine in solution.

Studies conducted with EXPAREL demonstrated that the most common implantable materials (polypropylene, PTFE, silicone, stainless steel, and titanium) are not affected by the presence of EXPAREL any more than they are by saline. None of the materials studied had an adverse effect on EXPAREL.

Non-Interchangeability with Other Formulations of Bupivacaine

Different formulations of bupivacaine are not bioequivalent even if the milligram dosage is the same. Therefore, it is not possible to convert dosing from any other formulations of bupivacaine to EXPAREL and vice versa. Liposomal encapsulation or incorporation in a lipid complex can substantially affect a drug's functional properties relative to those of the unencapsulated or nonlipid-associated drug. In addition, different liposomal or lipid-complexed products with a common active ingredient may vary from one another in the chemical composition and physical form of the lipid component. Such differences may affect functional properties of these drug products. Do not substitute.

CLINICAL PHARMACOLOGY

Pharmacokinetics

Administration of EXPAREL results in significant systemic plasma levels of bupivacaine which can persist for 96 hours after local infiltration and 120 hours after interscalene brachial plexus nerve block. In general, peripheral nerve blocks have shown systemic plasma levels of bupivacaine for extended duration when compared to local infiltration. Systemic plasma levels of bupivacaine following administration of EXPAREL are not correlated with local efficacy.

PATIENT COUNSELING

Inform patients that use of local anesthetics may cause methemoglobinemia, a serious condition that must be treated promptly. Advise patients or caregivers to seek immediate medical attention if they or someone in their care experience the following signs or symptoms: pale, gray, or blue colored skin (cyanosis); headache; rapid heart rate; shortness of breath; lightheadedness; or fatigue.