



Friday, March 18, 2022

Plenary: Perioperative Mental Health: From Neural circuits to Implementation

**10:00 am – 11:00 am HST**

Moderator: *Ben Palanca, MD, PhD, Washington University in St. Louis, St. Louis, MO*

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| 10:00 am – 10:15 am | Neural Circuits and Systems Implicated in the Antidepressant Effects of Ketamine<br><i>Boris Heifets, MD, PhD</i><br><i>Stanford University School of Medicine, Palo Alto, CA</i>     |
| 10:15 am – 10:30 am | Seizure, Sedation, and Sleep: Novel Antidepressant Markers and Pharmacologic Interventions<br><i>Ben Palanca, MD, PhD</i><br><i>Washington University in St. Louis, St. Louis, MO</i> |
| 10:30 am- 10:45 am  | The Role of Targeted Mental Health Interventions to Improve Perioperative Outcomes<br><i>Renee El-Gabalawy, MA, PhD</i><br><i>University of Manitoba, Winnipeg, Canada</i>            |
| 10:45 am – 11:00 am | Moderated Discussion and Q&A  |

Ticketed Workshop: (Slightly) Advanced Statistics: Propensity Score Matching and Time-to-Event Analyses

**11:00 am – 2:00 pm HST**

Moderator: *Lisa Lee, MD, MS*

Speaker: *Thomas Austin, MD, MS Stat*

Plenary: MAC, Models, Mitochondria & Metabolism

**11:15 am – 12:15 pm HST**

Moderator: *Philip Morgan, MD, University of Washington, Seattle, WA*

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| 11:15 am – 11:30 am | Volatile Anesthetics in Fly Models of Mitochondrial Disease<br><i>Misha Perouansky, MD</i><br><i>University of Wisconsin- Madison, Madison, WI</i> |
| 11:30 am – 11:45 am | Anesthetic Sensitivity in Patients with Mitochondrial Abnormalities<br><i>Vince Hsieh, MD</i><br><i>Seattle Children's Hospital, Seattle, WA</i>   |



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Preliminary Program

11:45 am- 12:00 pm      A Metabolic Mechanism of Action for Volatile Anesthetics: A Failure of Presynaptic Endocytosis  
*Margaret Sedensky, MD*  
*University of Washington, Seattle, WA*

12:00 pm – 12:15 pm      Moderated Discussion and Q&A

Problem-Based Learning Discussion: Can there be “Against Medical Advice” Discharge to Home from the PACU?

**11:15 am – 12:15 pm HST**

*Karl Poterack, MD, Mayo Clinic College of Medicine and Science, Phoenix, AZ*

Break

**12:15 pm – 1:15 pm HST**

Plenary: Moving Past Burnout, Let's Talk Engagement! Exploring Antecedents of Engagement to Improve Morale, Wellness and Performance

**1:30 pm – 2:30 pm HST**

Moderator: *Elizabeth W Duggan, MD, MA I&O Psychology, University of Alabama Birmingham, Birmingham, AL*

*Speaker information coming soon.*

Problem-Based Learning Discussion: Pudendal Neuralgia: More Common Than You Think

**1:30 pm – 2:30 pm HST**

*Meera Kirpekar, MD, NYU Langone, New York, NY*

Break

**2:30 pm – 2:45 pm HST**

Plenary Session: Applying Molecular and Systems Neuroscience to Develop Reversal Agents for General Anesthesia (Co-Sponsored by the Society for Neuroscience in Anesthesiology and Critical Care)

**2:45 pm - 3:45 pm HST**

Moderator: *Ken Solt, MD, Harvard Medical School; Massachusetts General Hospital, Boston, MA*

2:45 pm – 3:00 pm      A New Strategy to Reverse General Anesthesia with Caffeine



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING • 2022

IARS

## IARS 2022 Annual Meeting Preliminary Program

*Zheng Xie, MD, PhD*  
*University of Alabama at Birmingham, Birmingham, AL*

3:00 pm – 3:15 pm      Inducing Emergence from General Anesthesia with Flumazenil and Atipamezole  
*Paul S Garcia, MD, PhD*  
*University of Chicago, Chicago, IL*

3:15 pm – 3:30 pm      Activating Dopaminergic Neurotransmission to Reverse General Anesthesia  
*Ken Solt, MD*  
*Harvard Medical School; Massachusetts General Hospital, Boston, MA*

3:30 pm – 3:45 pm      Moderated Discussion and Q&A

### eSAS Session: Making Mentorship Work

**4:00 pm - 5:00 pm HST**

Moderator: *Kristopher M Schroeder, MD, FASA, University of Wisconsin, Madison, WI*

4:00 pm – 4:15 pm      Mentorship Benefits to Mentees  
*Shalini Shah, MD*  
*University of California - Irvine, Orange, CA*

4:15 pm – 4:30 pm      Qualities of Effective Mentors and Mentees  
*Ashley M Shilling, MD*  
*University of Virginia, Charlottesville, VA*

4:30 pm – 4:45 pm      Mentorship Benefits to Mentors  
*Edward R Mariano, MD, MAS, FASA*  
*Stanford University School of Medicine, Stanford, CA*

4:45 pm – 5:00 pm      Moderated Discussion and Q&A

### Scholars' Program Mentoring and Networking Reception

**5:00 pm – 6:00 pm HST**

### Aligned Session with IARS, AUA and SOCCA: *Anesthesia & Analgesia* Sponsored Journal Symposium

**5:45 pm – 7:00 pm HST**

Moderator: *Thomas Vetter, MD, MPH, Deputy Editor-in-Chief, Anesthesia & Analgesia Dell Medical School at the University of Texas at Austin, Austin, TX*

5:45 pm – 6:00 pm      Authorship: What Counts, Who Counts, Who Cares?



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*Evan Kharasch, MD, PhD, Editor-in-Chief, Anesthesiology  
Duke University School of Medicine, Durham, NC*

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| 6:00 pm- 6:15 pm  | Peer Review: Strengths, Weaknesses, Opportunities and Threats<br><i>Hugh Hemmings, MD, PhD, Editor-in-Chief, British Journal of Anesthesia<br/>Weill Cornell Medical College, New York, NY</i> |
| 6:15 pm- 6:30 pm  | Show Me the Data: Fabrication and Misconduct<br><i>Jean-Francois Pittet, MD, DEAA, Editor-in-Chief, Anesthesia &amp; Analgesia<br/>The University of Alabama at Birmingham, Birmingham, AL</i> |
| 6:30 pm – 6:45 pm | Clinical Anesthesiology Faculty: Pressure to Publish for Promotion<br><i>Cynthia Wong, MD, Professor and Chair, Department of Anesthesia<br/>University of Iowa, Iowa City, IA</i>             |
| 6:45 pm – 7:00 pm | Moderated Discussion and Q&A   |



IARS 2022 Annual Meeting  
Preliminary Program

Saturday, March 19, 2022 - IARS, AUA and SOCCA Aligned Meeting Day  
and Critical Care Day

Problem-Based Learning Discussion: The Nut and Bolts of TEVAR

**6:45 am – 7:45 am**

*Sreekanth Cheruku, MD, MPH., UT Southwestern Medical Center, University Park, TX*

Opening Session and T.H. Seldon Memorial Lecture

**7:45 am - 9:30 am HST**

7:45 am – 7:50 am

Welcome Comments

Christian Werner, MD, Medical Center of Johannes Gutenberg-  
Universität, Mainz, Germany

7:50 am – 8:00 am

IARS 100<sup>th</sup> Year Anniversary Video

T.H. Seldon Memorial Lecture - Harder, Better, Faster, Stronger: The Beneficial Legacy of COVID-19 for  
Perioperative Healthcare

*S. Ramani Moonesinghe, MD, FRCP, FRCA, FFICM  
University College London, London, United Kingdom*

Moderated Poster Session #1

**9:30 am – 10:30 am HST**

Ticketed Workshop: Enhanced Recovery with Regional Anesthesia: Ultrasound-  
Guided Intercostal Plane Blocks Workshop

**9:30 am – 12:00 pm HST**

*Moderator: Sakura Kinjo, MD, University of California, San Francisco School of Medicine, San Francisco,  
CA*

*Speakers: Matthias Braehler, MD, Kerstin Kolodzie, MD, PhD, Jean-Louis Horn, MD, Monica Harbell, MD,  
and Ban Tsui, MD*

IARS, AUA, SOCCA and eSAS Scholars' Program Sessions

**10:30 am – 5:00 pm HST**



## Concurrent Sessions

**10:30 am – 11:30 am HST**

- 1. SOCCA Session: RCL: Systemic Anticoagulation and ECMO: Conventional versus Contemporary Approach**  
*Troy Seelhammer, MD, Mayo Clinic, Rochester, MN and Mohammed Hamzah, MD Mayo Clinic, Rochester, MN*
- 2. AUA Session: Does Risk Prediction Improve Patient Outcomes**  
Moderators: *Joshua Bloomstone, MD, MSc, FASA, Envision Healthcare, Nashville, TN*
  - 10:30 am – 10:45 am      Preoperative Risk Assessment: Available Tools  
*S. Ramani Moonesinghe, MD, FRCP, FRCA, FFICM  
University College London, London, United Kingdom*
  - 10:45 am – 11:00 am      Does it matter? Use of Individualized vs Population-Based Risk Assessment Tools  
*S. Ramani Moonesinghe, MD, FRCP, FRCA, FFICM  
University College London, London, United Kingdom*
  - 11:00 am – 11:15 am      SURPAS: Does Surgical Risk Assessment Alter Surgical Decision Making  
*Michael Bronsert, Phd  
University of Colorado Anschutz Medical Campus, Aurora, CO*
  - 11:15 am – 11:30am      Moderated Discussion and Q&A
- 3. Joint IARS and WFSA Session: Modern Perioperative Concepts in Patients with Cardiovascular Risk**  
Moderators: *Adrian Gelb, MD, University of California, San Francisco, San Francisco, CA and Christian Werner, MD, Medical Center of Johannes Gutenberg-Universität, Mainz, Germany*
  - 10:30 am – 10:45 am      Preoperative Cardiovascular Assessment  
TBD
  - 10:45 am – 11:00 am      Prehabilitation in Patients at Risk for Perioperative Cardiovascular Events  
TBD
  - 11:00 am – 11:15 am      Anesthetic Considerations in Patients Undergoing Transcatheter Valve Replacements  
*Dorothee Bremerich, MD, Medical Center of Johannes Gutenberg-Universität, Mainz, Germany*
  - 11:15 am – 11:30 am      Moderated Discussion and Q&A



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**4. Debate: Opioid Free Anesthesia for Spine Surgery: Harmful Hoax or Imperative Innovation?**

Moderator: *Letha Mathews, MD, Vanderbilt University Medical Center, Nashville, TN*

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| 10:30 am – 10:45 am | Rebecca Rigel Donald, MD<br><i>Vanderbilt University Medical Center, Nashville, TN</i> |
| 10:45 am – 11:00 am | Shobana Rajan, MD<br><i>Allegheny Health Network, Pittsburgh, PA</i>                   |
| 11:00 am – 11:15 am | Rebuttals  |
| 11:15 am – 11:30 am | Q&A  |

**Problem-Based Learning Discussion: “Why Is the Arm Still Numb?” What I Should Know and Do About Peripheral Nerve Injury (PNI) After Regional Anesthesia**

**10:30 am – 11:30 am**

*Matthias Behrends, MD, University of California San Francisco, San Francisco, CA and Claas Siegmüller, MD, PhD, MBA, University of California San Francisco, San Francisco, CA*

**Break**

**11:30 am – 12:30 pm HST**

**Women in Anesthesia Meet Up**

**11:30 am – 12:30 pm HST**

**Concurrent Sessions**

**12:30 pm – 1:30 pm HST**

**1. AUA Session: Intraoperative Oxygen Administration, Mechanisms, and Outcomes - The Perioperative Sweet Spot?**

Moderator: *Dr. Ines Koerner, MD, PhD, Oregon Health & Science University, Portland, OR*

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| 12:30 pm – 12:45 pm | Practice Patterns of Intraoperative Oxygen Administration<br><i>Dr. Frederic (Josh) Billings, MD, MSc<br/>Vanderbilt University Medical Center, Nashville, TN</i> |
| 12:45 pm – 1:00 pm  | Role of Hypoxia-Inducible Transcription Factors During Hepatic Injury<br><i>Cynthia Ju, PhD<br/>University of Texas at Houston, Houston, TX</i>                   |



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Preliminary Program

- 1:00 pm – 1:15 pm      Friend or Foe: The Clinical Evidence for Oxygen  
*Shahzad Shaefi, MD, MPH*  
*Beth Israel Deaconess Medical Center, Boston, MA*
- 1:15 pm – 1:30 pm      Moderated Discussion and Q&A
2. **SOCCA Session: Panel: Evidence-Based Emergency Airway Management: Past the Tipping Point?**  
*Moderator: Craig Jabaley, MD*
- 12:30 pm – 12:45 pm      Emergency Airway Management: Why Aren't Outcomes Improving?  
*Mary Jarzebowski, MD*  
*VA Ann Arbor Healthcare System, Ann Arbor, MI*
- 12:45 pm – 1:00 pm      Beating the Clock: How to Extend Apnea Time in Critically Ill Patients  
*Rachel Kadar, MD*  
*McGaw Medical Center of Northwestern University, Chicago, IL*
- 1:00 pm – 1:15 pm      Resuscitation Before Intubation: Getting Ahead of the Curve  
*Ravindra Gupta, MD*  
*Northwestern University, McGaw Medical Center, Chicago, IL*
- 1:15 pm – 1:30 pm      Moderated Discussion and Q&A
3. **Campfire Session: Medication Errors: Learn from the Experts and Learn from Each Other. Together We Can Solve This Problem**  
*Moderator: Jake Abernathy, MD, Johns Hopkins Hospital, Baltimore, MD*
- Ken Catchpole, PhD*  
*Medical University of South Carolina, Charleston, SC*
- Karen Nanji, MD, MPH*  
*Harvard Medical School, Massachusetts General Hospital, Boston, MA*
- Joyce Wahr, MD, FAHA*  
*University of Minnesota Medical School, Minneapolis, MN*
4. **Novel Approaches to Elucidate the Pathophysiology of Perioperative Neurocognitive Disorders**  
*Moderator: Miles Berger, MD, PhD, Duke University Medical Center, Durham, NC*
- 12:30 pm- 12:45 pm      Molecular Mechanisms of Circadian Rhythm Disruptions in Delirium  
*S Kendall Smith, MD, PhD*  
*Washington University School of Medicine in St. Louis, St. Louis, MS*





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| 12:45 pm – 1:00 pm | Over-caffeinated: The role of caffeine in boosting Neural Criticality to Reduce Delirium Risk<br><i>Phillip Vlisides, MD</i><br><i>University of Michigan Medicine, Ann Arbor, MI</i>     |
| 1:00 pm – 1:15 pm  | A Show about Nothing: The role of altered Default Mode Network Activity and Connectivity in Delirium<br><i>Miles Berger, MD, PhD</i><br><i>Duke University Medical Center, Durham, NC</i> |
| 1:15 pm – 1:30 pm  | Moderated Discussion and Q&A  |

Problem-Based Learning Discussion: Peripartum Cardiomyopathy- Management in Critical Care and Perioperative Setting

**12:30 pm – 1:30 pm HST**

*Ioannis (Yanni) Angelidis, MD, MSPH, University of Chicago, Prizker School of Medicine, Chicago, IL*

Ticketed Workshop: Clinical Use of Transgastric Abdominal Ultrasound (TGAUS)

**1:00 pm – 4:00 pm**

*Moderator: John Klick, MD, FCCP, FASE, FCCM*

*Speakers: Andre Denault, MD, PhD, Michael Roberts, DO, FASE, Theodore Cios, MD, FASE, Anita Malhotra, MD, Georges Desjardins, MD*

Moderated Poster Session #2 – 100 posters total

**1:30 pm – 2:30 pm HST**

International Science Symposium: Space Medicine

**2:30 pm – 4:00 pm HST**

Problem-Based Learning Discussion: How to Start and Conduct a Research Project in an Academic Anesthesia Program

**2:30 pm – 3:30 pm HST**

*Galina Leyvi, MD, Albert Einstein College of Medicine, Bronx, NY and Sergey Pisklakov, MD, University of Rochester-Strong Memorial Hospital, Rochester, NY*

Concurrent Sessions

**4:00 – 5:00 pm HST**



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**1. Dying in Childbirth: Improving Maternal Health and Safety by Advancing Peripartum**

Moderator: *Lisa M Leffert, MD, Yale University, New Haven, CT*

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| 4:00 pm – 4:15 pm | Maternal Mortality: Modern Trends and Opportunities<br><i>Lisa M Leffert, MD</i><br><i>Yale University, New Haven, CT</i>   |
| 4:00 pm – 4:15 pm | Advances in Postpartum Hemorrhage: Prevention and Treatment<br><i>Alexander J Butwick, MBBS, FRCA, MS</i><br><i>Stanford University School of Medicine, Stanford, CA</i>        |
| 4:15 pm – 4:30 pm | Innovations in Maternal Mental Health and Pain Management in Special Populations<br><i>Grace Lim, MD, MSc</i><br><i>Univeristy of Pittsburgh Medical Center, Pittsburgh, PA</i> |
| 4:30 pm- 4:45pm   | Improving Cardiac Outcomes in Pregnancy by Optimizing Anesthesia and Perioperative Care<br><i>Marie-Louise Meng, M.D.</i><br><i>Duke University, Raleigh, NC</i>                |
| 4:45 pm – 5:00 pm | Moderated Discussion and Q&A  |

**2. The Importance of Cultural Competency in Critical Care**

Moderator: *Babar Fiza, MD, Emory University, Atlanta, GA*

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| 4:00 pm – 4:15 pm | How Cultural Competency Improves Critical Care<br><i>Vivek Moitra, MD</i><br><i>Columbia University Medical Center, New York, NY</i>   |
| 4:14 pm – 4:30 pm | Specific Situations in which Cultural Competency can Prevent Conflict in the ICU<br><i>Linda Liu, MD</i><br><i>University of California, San Francisco School of Medicine, San Francisco, CA</i> |
| 4:30 pm – 4:45 pm | Teaching Cultural Competency to Critical Care and Anesthesiology Residents, Fellows, and Attendings<br><i>Ebony Hilton, MD</i><br><i>University of Virginia, Charlottesville, VA</i>             |
| 4:45 pm – 5:00 pm | Moderated Discussion and Q&A   |



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**3. Patient and Family Centered Care to Achieve Equitable Outcomes in Pediatric Anesthesia. Society for Pediatric Anesthesia-sponsored session**

Moderator: *Nathalia Jimenez, MD, MPH, Seattle Children's Hospital, Seattle, WA*

4:00 pm – 4:15 pm      Addressing Disparities in Pediatric Perioperative Care Through Patient and Family Centered Care.

*Nathalia Jimenez, MD, MPH  
Seattle Children's Hospital, Seattle, WA*

4:15 pm – 4:30 pm      Racial and Ethnic Disparity in Pediatric Surgical Outcome: Desperate Urgency for Action.

*Olubukola Nafiu, M.D., FRCA, M.S.  
Nationwide Children's Hospital, Columbus, OH*

4:30 pm – 4:45 pm      Perioperative Gender-Affirming Care for Transgender and Gender-Diverse Youth.

*Travis L Reece-Nguyen, MD, MPH, FAAP  
Stanford, Palo Alto, CA*

4:45 pm – 5:00 pm      Moderated Discussion and Q&A

**4. Climbing the Leadership Ladder: How to Navigate Generational Divide and Build Lasting Teams!**

Moderator: *Jeffrey Berger, MD, MBA, The George Washington University School of Medicine and Health Sciences, Washington, DC*

*Speaker information coming soon.*

**5. Preventing Chronic Postsurgical Pain and Opioid Use: From Mechanistic Basis Under the Biopsychosocial Model to Practical Preoperative Assessment, Phenotyping, and Intervention**

Moderator: *Kristin L Schreiber, MD, PhD, Brigham and Women's Hospital; Harvard Medical School, Boston, MA*

4:00 pm – 4:12 pm      Biopsychosocial Model of Pain and Phenotypic Assessment

*Kristin L Schreiber, MD, PhD  
Brigham and Women's Hospital; Harvard Medical School, Boston, MA*

4:12 pm – 4:24 pm      Mechanisms of Centralized Postsurgical Pain

*Andrea Nicol, MD, MSc, FASA  
University of Kansas Medical Center, Kansas City, KS*

4:24 pm – 4:36 pm      Pragmatic Preoperative Assessment

*Jeanna D Blitz, MD  
Duke University School of Medicine, Durham, NC*

4:36 pm – 4:48 pm      Assessment and Prevention of Persistent Opioid Use after Surgery



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*Jennifer Hah, MD, MS*  
*Stanford University, Stanford, CA*

4:48 pm – 5:00 pm      Moderated Discussion and Q&A

Problem-Based Learning Discussion: Anesthetic Considerations in HELLP Syndrome  
Complicated with Subcapsular Liver Hematoma

**4:00 pm – 5:00 pm HST**

*Heidi Saxton, MD, University of Minnesota, Minneapolis, MN and Monica Lupei, MD, University of Minnesota,  
Minneapolis, MN*

IARS 100th Anniversary Gala

**7:00 pm - 9:00 pm HST**



Sunday, March 20, 2022

Concurrent Sessions

**7:30 am – 8:30 am HST**

**1. Exploring Clinical Dogma with the “Depth of Anesthesia” Podcast Team**

7:30 am – 7:50 am *David Hao, MD, Massachusetts General Hospital, Boston, MA*

7:50 am – 8:10 am *Daniel Saddawi-Konefka, MD, MBA, Massachusetts General Hospital, Boston, MA*

8:10 am – 8:30 am Moderated Discussion and Q&A

**2. Campfire Session: The Intersectionality of Underrepresented Minority (URM) Chairwomen in Medicine- Debunking the Myths and Stating the Facts Co-sponsored by the ASA Committee on Professional Diversity**

Moderator: *Tracey Straker, MD, MS, MPH, CBA, FASA, Montefiore Medical Center, Bronx, NY*

*Karen E. Gibbs, MD  
Bridgeport Hospital at Yale, Bridgeport, CT*

*Alice Coombs, MD  
Virginia Commonwealth University, Richmond, VA*

Moderated Discussion and Q&A

**3. Innovative Session: Point of Care Ultrasound - Sharing Ideas on How to Overcome Implementation Barriers**

Moderator: *Tim Tran, MD, University of Colorado, Denver, CO*

*Sara Nikravan, M.D.  
Virginia Mason Medical Center, Seattle, WA*

*Nibras Bughrara, MD  
Albany Medical College, Albany, NY*

*Christine Vo, MD  
University of Oklahoma, Oklahoma, OK*

*Jay Shen, MD  
UC Irvine Health, Irvine, CA*



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4. **Current Trends and Controversies in Pediatric Anesthesiology** *(Co-Sponsored by the European Society for Paediatric Anaesthesiology)*  
*Moderator: Laszlo Vutskits, MD, PhD, University Hospitals of Geneva, Geneva, Switzerland*

*Speaker information coming soon.*

5. **What's New in Airway Management**  
*Moderator: Narasimhan Jagannathan, MD, Children's Hospital of Chicago, Chicago, IL*

*Speaker information coming soon.*

**Ticketed Workshop: Airway and Gastric Point-of-Care Ultrasound (POCUS) in Anesthesia**

**7:30 am – 9:30 am HST**

*Moderator: Kong Eric You-Ten, PhD, MD, FRCPC*

*Speakers: Fabricio Zasso, MD, Naveed Siddiqui, Cristian Arzola, MD, MSc*

**Problem-Based Learning Discussion: Liver Resection in the Morbidly Obesity Patient with Nonalcoholic Steatohepatitis**

**7:30 am – 8:30 am HST**

*Gebhard Wagener, MD, Columbia University Medical Center, New York, NY*

**Break**

**8:30 am – 8:45 am HST**

**Kosaka Best Abstracts Awards Session**

**8:45 am - 10:45 am HST**

**Moderated Poster Session #3**

**10:45 am – 11:45 am HST**

**Problem-Based Learning Discussion: Hypertrophic Cardiomyopathy- Common Disease, New Guidelines**

**11:00 am – 12:00 pm HST**

*Mary Beth Brady, MD, FASE, Johns Hopkins School of Medicine, Baltimore, MD*



## Concurrent Sessions

11:45 am – 12:45 pm HST

### 1. SmartTots: New Directions in Pediatric Anesthetic Neurotoxicity Research

Moderator: Dean Andropoulos, MD

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| 11:45 am – 11:57 am | Novel Neurosteroids<br><i>Vesna Jevtovic-Todorovic, MD, PhD</i><br><i>University of Colorado, Aurora, CO</i>  |
| 11:57 am – 12:09 pm | Imaging Biomarkers of Anesthetic Exposure in Neonates and Infants<br><i>Ashok Panigrahy</i>   |
| 12:09 pm – 12:21 pm | Behavioral Phenotype After Anesthetic Exposure in Non-Human Primates<br><i>Viola Neudecker, MD</i><br><i>Columbia University Medical Center, New York, NY</i>                   |
| 12:21 pm – 12:33 pm | Behavioral Phenotype In Clinical Studies of Anesthetic Neurotoxicity<br><i>Caleb Ing, MD, MS</i><br><i>Columbia University College of Physicians and Surgeons, New York, NY</i> |
| 12:33 pm – 12:45 pm | Moderated Discussion and Q&A  |

### 2. Leading Multi-site Perioperative Clinical Trials: What I Know Now but Wish I Had Known Then

*Rebecca Aslakson, MD, PhD, FAAHPM, FCCM*  
*Stanford University School of Medicine, Stanford, CA*

*Michael Avidan, MBBCh*  
*Washington University in St. Louis, St. Louis, MO*

### 3. Ted Talk: Capacity Building versus Short Term Medical Mission Trips

*Janey Phelps, MD*  
*UNC Children's Hospital, Chapel Hill, NC*

### 4. Development, Implementation, and Maintenance of Machine Learning Models in Anesthesiology

Moderator: *Michael L Burns, MD, PhD, University of Michigan, Ann Arbor, MI*

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| 11:45 am – 12:00 pm | Getting Started in Machine Learning: Tools of the Trade |
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*Hannah Lonsdale, MBChB*  
*Johns Hopkins University, St Petersburg, FL*

12:00 pm- 12:15 pm      Understanding Artificial Intelligence: Building Interpretable Models  
*Parisa Rashidi, PhD*  
*University of Florida College of Medicine, Gainesville, FL*

12:15 pm- 12:30 pm      Putting Models in Motion: The Good, The Bad and the Ugly of Artificial  
Intelligence Clinical  
*Jonathan Wanderer, MD*  
*Vanderbilt University School of Medicine, Nashville, TN*

12:30 pm – 12:45 pm      Moderated Discussion and Q&A

5. Buprenorphine in the Perioperative Period: Recommendations from the Multi-society Working Group

Moderator: *Eugene Viscusi, MD, Jefferson University Hospitals, Philadelphia, PA*

11:45 am – 12:00 pm      *Eugene Viscusi, MD*  
*Jefferson University Hospitals, Philadelphia, PA*

12:00 pm – 12:15 pm      *Antje Barreveld, MD*  
*Tufts University School of Medicine, Boston, MA*

12:15 pm- 12:30 pm      *Sudheer Potru, DO*  
*Emory University School of Medicine, Atlanta, GA*

12:30 pm – 12:45 pm      Moderated Discussion and Q&A

Break

**12:45 pm – 1:45 pm HST**

Moderated Poster Session #4

**1:45 pm – 2:45 pm HST**

Problem-Based Learning Discussion: A Sudden Drop in End- Tital CO<sub>2</sub> During a  
Prove Craniotomy

**1:45 pm – 2:45 pm HST**

*Michael Chyfetz, MD, MSc, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY*





## Ticketed Workshop: Immersive Technologies for Anxiety and Pain Management

**1:45 pm – 3:15 pm**

*Moderator: Thomas Caruso, MD, MEd*

*Speakers: Clyde Matava, MBChB, DA, MMed; Vanessa Olbrecht, MD, MBA; Sam Rodriguez, MD; Ellen Wang, MD, James Thomas, MD; Romy Yun, MD; Jina Sinskey, MD; Kathleen Chen, MD, MS; Kim-Phuong Nguyen, MD; Rahul G. Bajjal, MD; Katrin A. Campbell, MD and Elizabeth Rossmann Beel, MD, MPH*

## Concurrent Sessions

**3:00 pm – 4:00 pm HST**

### 1. RADAR Session

- 3:00 pm – 3:45 pm Part 1: Health Disparities Research--Who, What, Where, When, and Why  
*Matthew Wixson, MD, University of Michigan, Ann Arbor, MI and Scott Markowitz MD, Washington University in St. Louis, St. Louis, MI*
- 3:45 pm – 4:30 pm Part 2: Microaggression and Unconscious Bias--How to Change Culture  
*Matthew Wixson, MD, University of Michigan, Ann Arbor, MI and Scott Markowitz MD, Washington University in St. Louis, St. Louis, MI*

### 2. Campfire Session: Transverse Orientation: Reframing Burnout in Terms of Identity

*Moderator: Anahat Dhillon, MD, Los Angeles, CA*

*Johanna Schwarzenberger, MD  
UCLA, Los Angeles, CA*

*Cynthia Wang, MD  
Greater Los Angeles VA Healthcare System, Los Angeles, CA*

### 3. Panel: Resuscitation in Sepsis and Septic Shock

*Moderator: Ronald Pearl, MD, PhD, Stanford University School of Medicine, Stanford, CA*

*Speaker information coming soon.*

### 4. Updating the Confusion: Emerging Physiologic Markers of Postoperative Brain Dysfunction

*(Co-Sponsored by the Society for Neuroscience in Anesthesiology and Critical Care and the Society for Advancement of Geriatric Anesthesia)*

*Moderator: Christopher Hughes, MD, MS, FCCM, Vanderbilt University Medical Center, Nashville, TN*



IARS 2022 Annual Meeting  
Preliminary Program

- 3:00 pm – 3:15 pm EEG Changes as an Indicator of Neurocognitive Resilience  
*Odmara Barreto Chang, MD, PhD*  
*University of California San Francisco, San Francisco, CA*
- 3:15 pm – 3:30 pm Vascular and Endothelial Contributions to Postoperative Brain Dysfunction  
*Marcos Lopez, MD, MS*  
*Johns Hopkins University School of Medicine, Baltimore, MD*
- 3:30 pm – 3:45 pm Cerebral Autoregulation Monitoring to Identify Patients at Risk for Delirium  
*Charles Brown, MD*  
*Johns Hopkins University School of Medicine, Baltimore, MD*
- 3:45 pm – 4:00 pm Moderated Discussion and Q&A

5. Panel: Moving Past the Single Center Trial: Opportunities and Challenges in Multi-Center Data Collaborations

Moderator: *Richard H Epstein, MD, Anesthesia Information Systems, Miami, FL*

- 3:00 pm- 3:15 pm External Validation - Applying Results from Other Centers To Your Practice  
*Robert Freundlich, MD MS MSCI*  
*Vanderbilt University Medical Center, Nashville, TN*
- 3:15 pm – 3:30 pm Federated Learning - Multi-Center Results Without Sharing Data  
*Ira Hofer, MD*  
*University of California, Los Angeles David Geffen School of Medicine, Los Angeles, CA*
- 3:30 pm – 3:45 pm Multi-Center Quality Improvement - Using Different Kinds of Data to Get a Better Picture  
*Amy Shanks, PhD*  
*Blue Cross/Blue Shield of Michigan, Detroit, MI*
- 3:45 pm – 4:00 pm Moderated Discussion and Q&A

Problem-Based Learning Discussion: Fine Tuning the Duration of your Regional Anesthetic: How to Provide Reliable Anesthesia and Superior Analgesia in a Fast-moving Surgical Environment

**3:00 pm – 4:00 pm HST**

*Matthias Behrends, MD, University of California San Francisco, San Francisco, CA and Claas Siegmüller, MD, PhD, MBA, University of California San Francisco, San Francisco, CA*