






IARS 2022 Annual Meeting
Honolulu, Hawaii
March 18-21, 2022
Program Outline

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Friday, March 18, 2022

Plenary: Perioperative Mental Health: From Neural circuits to Implementation 

10:00 am – 11:00 am EST

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

- | | |
|---------------------|---|
| 10:00 am – 10:15 am | Neural Circuits and Systems Implicated in the Antidepressant Effects of Ketamine
<i>Boris Heifets, MD, PhD</i>
<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
<i>Ben Palanca, MD, PhD</i>
<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
<i>Renee El-Gabalawy, MA, PhD</i>
<i>University of Manitoba, Winnipeg, Canada</i> |
| 10:45 am – 11:00 am | Moderated Discussion and Q&A |

Break

11:00 – 11:15 am

Plenary: MAC, Models, Mitochondria & Metabolism

11:15 am – 12:15 pm EST

Moderator: *Margaret Sedensky, MD, University of Washington, Seattle, WA*

- | | |
|---------------------|--|
| 11:15 am – 11:30 am | Anesthetic Sensitivity in Patients with Mitochondrial Abnormalities
<i>Vince Hsieh, MD</i>
<i>Seattle Children's Hospital, Seattle, WA</i> |
| 11:30 am – 11:45 am | Volatile Anesthetics in Fly Models of Mitochondrial Disease
<i>Misha Perouansky, MD</i>
<i>University of Wisconsin- Madison, Madison, WI</i> |
| 11:45 am- 12:00 pm | A Metabolic Mechanism of Action for Volatile Anesthetics: A Failure of Presynaptic Endocytosis
<i>Philip Morgan, MD</i>
<i>University of Washington, Seattle, WA</i> |



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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 EST

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

Break

12:15 – 12:30 am

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

12:30 pm – 1:30 pm EST

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

12:30 pm – 12:35 pm Introduction: The importance of an engaged faculty, particularly in times of uncertainty

Dan Berkowitz, MBBCh

University of Alabama at Birmingham, Birmingham, AL

12:35 pm – 12:45 pm The Relationship Between Burnout and Engagement

Elizabeth Duggan, MD, MA I&O Psychology

University of Alabama Birmingham, Birmingham, AL

12:45 pm- 12:55 pm Building a Culture of Psychological Safety; Engagement Starts at the Top

Jeff Berger, MD, MBA

The George Washington University School of Medicine and Health Sciences, Washington, DC

12:55 pm – 1:05 pm The Role of Social Support in Building Engaged Individuals and Teams

Jina Sinskey, MD

UCSF, San Francisco, CA

1:05 am – 1:15 pm Job Crafting and Professional Development; Finding Career Meaning

Alison Brainard, MD

University of Colorado, Aurora, CO

1:15 pm – 1:30 pm Moderated Discussion and Q&A

Break

1:30 – 1:45 pm



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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)

1:45 pm - 2:45 pm EST

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

- | | |
|-------------------|---|
| 1:45 pm – 2:00 pm | Activating Dopaminergic Neurotransmission to Reverse General Anesthesia
<i>Ken Solt, MD</i>
<i>Harvard Medical School; Massachusetts General Hospital, Boston, MA</i> |
| 2:00 pm – 2:15 pm | A New Strategy to Reverse General Anesthesia with Caffeine
<i>Zheng Xie, MD, PhD</i>
<i>University of Chicago, Chicago, IL</i> |
| 2:15 pm – 2:30 pm | Inducing Emergence from General Anesthesia with Flumazenil and Atipamezole
<i>Paul S Garcia, MD, PhD</i>
<i>Columbia University, New York, NY</i> |
| 2:30 pm – 2:45 pm | Moderated Discussion and Q&A |

Break

2:45 pm – 3:00 pm

eSAS Session: Making Mentorship Work

3:00 pm - 4:00 pm EST

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

- | | |
|-------------------|---|
| 3:00 pm – 3:15 pm | Mentorship Benefits to Mentees
<i>Shalini Shah, MD</i>
<i>University of California - Irvine, Orange, CA</i> |
| 3:15 pm – 3:30 pm | Qualities of Effective Mentors and Mentees
<i>Ashley M Shilling, MD</i>
<i>University of Virginia, Charlottesville, VA</i> |
| 3:30 pm – 3:45 pm | Mentorship Benefits to Mentors
<i>Edward R Mariano, MD, MAS, FASA</i>
<i>Stanford University School of Medicine, Stanford, CA</i> |
| 3:45 pm – 4:00 pm | Moderated Discussion and Q&A |

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

3:00 pm – 4:00 pm EST

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



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Break

4:00 – 4:15 pm

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

4:15 pm – 5:30 pm EST

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

- | | |
|-------------------|--|
| 4:15 pm – 4:30 pm | Authorship: What Counts, Who Counts, Who Cares?
<i>Evan Kharasch, MD, PhD, Editor-in-Chief, Anesthesiology
Duke University School of Medicine, Durham, NC</i> |
| 4:30 pm- 4:45 pm | Peer Review: Strengths, Weaknesses, Opportunities and Threats
<i>Hugh Hemmings, MD, PhD, Editor-in-Chief, British Journal of Anesthesia
Weill Cornell Medical College, New York, NY</i> |
| 4:45 pm- 5:00 pm | Show Me the Data: Fabrication and Misconduct
<i>Jean-Francois Pittet, MD, DEAA, Editor-in-Chief, Anesthesia & Analgesia
The University of Alabama at Birmingham, Birmingham, AL</i> |
| 5:00 pm – 5:15 pm | Clinical Anesthesiology Faculty: Pressure to Publish for Promotion
<i>Cynthia Wong, MD, Professor and Chair, Department of Anesthesia
University of Iowa, Iowa City, IA</i> |
| 5:15 pm – 5:30 pm | Moderated Discussion and Q&A |

Saturday, March 19, 2022

IARS, AUA and SOCCA Aligned Meeting Day and Critical Care Day

Opening Session and T.H. Seldon Memorial Lecture

10:00 am – 11:30 am EST

- | | |
|---------------------|---|
| 10:00 am – 10:05 am | Welcome Comments
<i>Christian Werner, MD, Medical Center of Johannes Gutenberg-
Universität, Mainz, Germany</i> |
| 10:05am – 11:30 am | T.H. Seldon Memorial Lecture - Harder, Better, Faster, Stronger: The
Beneficial Legacy of COVID-19 for Perioperative Healthcare
<i>S. Ramani Moonesinghe, MD, FRCP, FRCA, FFICM
University College London, London, United Kingdom</i> |



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Break

11:30 am – 11:45 am EST


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

11:45 am – 1:15 pm

Moderator: Sakura Kinjo, MD, University of California, San Francisco School of Medicine, San Francisco, CA
Speakers: Kerstin Kolodzie, MD, PhD, Jean-Louis Horn, MD, Monica Harbell, MD, and Ban Tsui, MD

Concurrent Sessions

11:45 pm – 12:45 pm EST

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

11:45 am – 12:00 pm

Preoperative Risk Assessment: Available Tools
S. Ramani Moonesinghe, MD, FRCP, FRCA, FFICM
University College London, London, United Kingdom

12:00 pm – 12:15 pm


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

12:15 pm – 12:30 pm

SURPAS: Does Surgical Risk Assessment Alter Surgical Decision Making
Kamal Maheshwari, MD, MPH
Cleveland Clinic Foundation, Cleveland, OH

12:30 pm – 12:45 pm

Moderated Discussion and Q&A

3. Joint IARS and WFSA Session: Modern Perioperative Concepts in Patients with Cardiovascular Risk 

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

11:45 am – 12:00 pm

Right heart failure – What to do when right is wrong?
Muralidhar Kanchi, MBBS, MD, MBA, Narayana Institute of Cardiac Sciences,
NH health city, Bangalore, India



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- 12:00 pm – 12:15pm The challenges of cardiac anesthesia in a low-resource country – a Ugandan experience
Cornelius Sedagire, MBChB, M.Med, FCA (ECSA), Kampala, Uganda
- 12:15 pm – 12:30 pm Anesthetic considerations in patients undergoing transcatheter valve replacements
Vera von Dossow, MD, University Bochum, Bad Oeynhausen, Germany
- 12:30 pm – 12:45 pm Moderated Discussion and Q&A

4. Debate: Opioid Free Anesthesia for Spine Surgery: Harmful Hoax or Imperative Innovation? 
Moderator: *Letha Mathews, MD, Vanderbilt University Medical Center, Nashville, TN*

- 11:45 am – 12:00 pm Rebecca Rigel Donald, MD
Vanderbilt University Medical Center, Nashville, TN
- 12:00 pm – 12:15pm Shobana Rajan, MD
University of Texas Health Science Center at Houston, Houston, TX
- 12:15 pm – 12:30 pm Rebuttals
- 12:30 pm – 12:45 pm Q&A

[Open Poster Viewing](#)

12:45 pm – 2:00 pm EST

[Problem-Based Learning Discussions](#)

1:00 pm – 2:00 pm


- 1. The Nut and Bolts of TEVAR**
Hooman Heravi, M.D., UT Southwestern Medical Center, University Park, TX
- 2. “Why Is the Arm Still Numb?” What I Should Know and Do About Peripheral Nerve Injury (PNI) After Regional Anesthesia**
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
- 3. How to Start and Conduct a Research Project in an Academic Anesthesia Program**
Galina Leyvi, MD, Albert Einstein College of Medicine, Bronx, NY

[Concurrent Sessions](#)

2:00 pm – 3:00 pm EST



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

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

- | | |
|-------------------|---|
| 2:00 pm – 2:15 pm | Practice Patterns of Intraoperative Oxygen Administration
<i>Frederic (Josh) Billings, MD, MSc</i>
<i>Vanderbilt University Medical Center, Nashville, TN</i> |
| 2:15 pm – 2:30 pm | Role of Hypoxia-Inducible Transcription Factors During Hepatic Injury
<i>Cynthia Ju, PhD</i>
<i>University of Texas at Houston, Houston, TX</i> |
| 2:30 pm – 2:45 pm | Friend or Foe: The Clinical Evidence for Oxygen
<i>Shahzad Shaefi, MD, MPH</i>
<i>Beth Israel Deaconess Medical Center, Boston, MA</i> |
| 2:45pm – 3:00 pm | Moderated Discussion and Q&A |

2. **SOCCA Session: Panel: Evidence-Based Emergency Airway Management: Past the Tipping Point?** 

Moderator: *Craig Jabaley, MD, Emory University, Atlanta, GA*

- | | |
|-------------------|--|
| 2:00 pm – 2:15 pm | Emergency Airway Management: Why Aren't Outcomes Improving?
<i>Mary Jarzebowski, MD</i>
<i>VA Ann Arbor Healthcare System, Ann Arbor, MI</i> |
| 2:15 pm – 2:30 pm | Beating the Clock: How to Extend Apnea Time in Critically Ill Patients
<i>Rachel Kadar, MD</i>
<i>McGaw Medical Center of Northwestern University, Chicago, IL</i> |
| 2:30 pm – 2:45 pm | Resuscitation Before Intubation: Getting Ahead of the Curve
<i>Ravindra Gupta, MD</i>
<i>Northwestern University, McGaw Medical Center, Chicago, IL</i> |
| 2:45pm – 3:00 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, PhD



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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*

- | | |
|-------------------|---|
| 2:00 pm – 2:15 pm | Molecular Mechanisms of Circadian Rhythm Disruptions in Delirium
<i>S Kendall Smith, MD, PhD
Washington University School of Medicine in St. Louis, St. Louis, MS</i> |
| 2:15 pm – 2:30 pm | Over-caffeinated: The role of caffeine in boosting Neural Criticality to Reduce Delirium Risk
<i>Phillip Vlisides, MD
University of Michigan Medicine, Ann Arbor, MI</i> |
| 2:30 pm – 2:45 pm | A Show about Nothing: The role of altered Default Mode Network Activity and Connectivity in Delirium
<i>Miles Berger, MD, PhD
Duke University Medical Center, Durham, NC</i> |
| 2:45pm – 3:00 pm | Moderated Discussion and Q&A |

Break

3:00 pm – 3:15 pm EST

International Science Symposium: Space Medicine 

3:15 pm – 4:45 pm EST

Moderators: *Beverley A. Orser MD, PhD, FRCPC, FCAHS, FRSC, University of Toronto, Toronto, Canada and Michael Avidan, MBBCh, Washington University in St. Louis, St. Louis, MO*

- | | |
|-------------------|---|
| 3:15 pm – 4:00 pm | Summary |
| 3:15 pm – 3:30 pm | <i>James P. Bagian, MD, PE, FAsMA
Professor, Anesthesiology, Industrial and Operations Engineering, Aerospace Engineering, University of Michigan</i> |
| 3:30 pm – 3:45 pm | <i>JD Polk, DO, MS, MMM, CPE, FACOEP, FAsMA
Chief Health and Medical Officer, National Aeronautics and Space Administration (NASA)</i> |
| 3:45 pm – 4:00 pm | <i>Joan Saary, MD, PhD, FRCPC, FACOEM, FAsMA</i> |



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*Director, Division of Occupational Medicine and Associate Professor,
Department of Medicine, University of Toronto, Consultant to Royal Canadian
Air Force/Canadian Forces Environmental Medicine Establishment and
the Canadian Space Agency*

4:00 pm – 4:45 pm Panel Discussion and Q&A

Open Poster Viewing
4:45 pm – 5:45 pm EST

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

4:45 pm – 6:45 pm

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

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


Problem-Based Learning Discussions

4:45 pm – 5:45 pm

- 1. Peripartum Cardiomyopathy- Management in Critical Care and Perioperative Setting**
Ioannis (Yanni) Angelidis, MD, MSPH, University of Chicago, Prizker School of Medicine, Chicago, IL
- 2. Problem-Based Learning Discussion: Anesthetic Considerations in HELLP Syndrome Complicated with Subcapsular Liver Hematoma**
Heidi Saxton, MD, University of Minnesota, Minneapolis, MN and Monica Lupei, MD, University of Minnesota, Minneapolis, MN

Concurrent Sessions

5:45 pm – 6:45 pm EST

- 1. Dying in Childbirth: Improving Maternal Health and Safety by Advancing Peripartum** 
Moderator: Lisa M Leffert, MD, Yale University, New Haven, CT

5:45 pm – 5:55 pm Maternal Mortality: Modern Trends and Opportunities
*Lisa M Leffert, MD
Yale University, New Haven, CT*

5:55 pm – 6:05 pm Advances in Postpartum Hemorrhage: Prevention and Treatment
*Alexander J Butwick, MBBS, FRCA, MS
Stanford University School of Medicine, Stanford, CA*

6:05 pm – 6:20 pm Innovations in Maternal Mental Health and Pain Management in Special Populations
*Grace Lim, MD, MSc
Univeristy of Pittsburgh Medical Center, Pittsburgh, PA*



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6:20 pm- 6:35 pm Improving Cardiac Outcomes in Pregnancy by Optimizing Anesthesia and Perioperative Care
Marie-Louise Meng, M.D.
Duke University, Raleigh, NC

6:35 pm – 6:45 pm Moderated Discussion and Q&A

2. The Importance of Cultural Competency in Critical Care 


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

5:45 pm – 6:00 pm How Cultural Competency Improves Critical Care
Vivek Moitra, MD
Columbia University Medical Center, New York, NY

6:00 pm – 6:15 pm Specific Situations in which Cultural Competency can Prevent Conflict in the ICU
Linda Liu, MD
University of California, San Francisco School of Medicine, San Francisco, CA

6:15 pm – 6:30 pm Teaching Cultural Competency to Critical Care and Anesthesiology Residents, Fellows, and Attendings
Ebony Hilton, MD
University of Virginia, Charlottesville, VA

6:30 pm – 6:45 pm Moderated Discussion and Q&A

3. Patient and Family Centered Care to Achieve Equitable Outcomes in Pediatric Anesthesia (co-sponsored by the Society for Pediatric Anesthesia) 

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

5:45 pm – 6:00 pm Addressing Disparities in Pediatric Perioperative Care Through Patient and Family Centered Care.
Nathalia Jimenez, MD, MPH
Seattle Children's Hospital, Seattle, WA

6:00 pm – 6:15 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

6:15 pm – 6:30 pm Perioperative Gender-Affirming Care for Transgender and Gender-Diverse Youth.
Travis L Reece-Nguyen, MD, MPH, FAAP
Stanford, Palo Alto, CA


6:30 pm – 6:45 pm Moderated Discussion and Q&A



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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*

- 5:45 pm – 5:49 pm Welcome & Introductions: “Generations Defined”
Jeffrey Berger, MD, MBA
The George Washington University School of Medicine and Health Sciences, Washington, DC
- 5:49 pm – 5:58 pm Managing Up: The Revered Baby Boomers
Mary J Njoku, MD
University of Maryland School of Medicine, Baltimore, MD
- 5:58 pm – 6:07 pm Managing Laterally: Middle Ground Gen Xers
Maya Hastie, MD
Columbia University Irving Medical Center, New York, NY
- 6:07 pm – 6:16 pm Managing Down: Infamous Millennials
Mada F Helou, MD
University Hospitals at Case Medical Center, Cleveland, OH
- 6:16 pm – 6:25 pm Overcoming the Sticking Points: Meeting the Challenges of a Multigenerational Workforce
Elizabeth Duggan
- 6:25 pm – 6:45 pm Moderated Discussion and Q&A

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*

- 5:45 pm - 5:57 pm Biopsychosocial Model of Pain and Phenotypic Assessment
Kristin L Schreiber, MD, PhD
Brigham and Women's Hospital; Harvard Medical School, Boston, MA
- 5:57 pm – 6:09 pm Mechanisms of Centralized Postsurgical Pain
Andrea Nicol, MD, MSc, FASA
University of Kansas Medical Center, Kansas City, KS
- 6:09 pm – 6:21 pm Pragmatic Preoperative Assessment
Jeanna D Blitz, MD
Duke University School of Medicine, Durham, NC
- 6:21 pm – 6:33 pm Assessment and Prevention of Persistent Opioid Use after Surgery



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

6:33 pm – 6:45 pm Moderated Discussion and Q&A

Sunday, March 20, 2022

Concurrent Sessions

10:00 am – 11:00 am EST

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

10:00 am – 10:20 am *David Hao, MD, Massachusetts General Hospital, Boston, MA*

10:20 am – 10:40 am *Daniel Saddawi-Konefka, MD, MBA, Massachusetts General Hospital, Boston, MA*

10:40 am – 11:00 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

Campfire Session: Begins like a traditional panel with speakers presenting an idea at the front of the room to the group. After 15-20 minutes, the focus shifts to the audience, who will generate most of the discussion and knowledge-sharing. Speakers become the facilitators, allowing the audience to drive learning.

3. 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*



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- 10:00 am – 10:12 am Pediatric Procedural Sedation and Analgesia: How to Overcome the Barriers for a Safe Performance?
Nadia Nadafi, MD
University Hospital of Brussels, Brussels, Belgium
- 10:12 am – 10:24am Blood Pressure In The Very Young: What Are The Limits?
Jurgen de Graaff, MD, PhD
ErasmusMC Sophia Children, Äôs Hospital, Rotterdam, Netherlands
- 10:24 am – 10:36 am Regional Anesthesia Techniques In Pediatric and Neonatal Surgery
Michael Brackhahn, MHBA
Kinder- und Jugendkrankenhaus, Hannover, Germany
- 10:36 am – 10:48 am Pediatric Preoperative Fasting Guidelines: Need For A Change?
Laszlo Vutskits, MD, PhD
University Hospitals of Geneva, Geneva, Switzerland
- 10:48 am – 11:00 am Moderated Discussion and Q&A

4. What's New in Airway Management 

Moderator: *Narasimhan Jagannathan, MD, Children's Hospital of Chicago, Chicago, IL*

- 10:00 am – 10:12 am What's new in Pediatric Airway Management
Narasimhan Jagannathan, MD
Children's Hospital of Chicago, Chicago, IL
- 10:12 am – 10:24am Should the Difficult Airway Patient Be managed In the Outpatient Surgical Center?
Lorraine Folley, MD, MBA
Shields Medford Surgical Center, Boston, MA
- 10:24 am – 10:36 am Use of First Generation Or Second Gneration SGA: Does It Matter Which One?
Ellen O'Sullivan, MD
St James Hospital, Dublin, Ireland
- 10:36 am – 10:48 am The Role of Airway Leads and Airway Teams
Paul A Baker, MBChB MD FANZCA
University of Auckland, Auckland, New Zealand
- 10:48 am – 11:00 am Moderated Discussion and Q&A

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

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



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Break

11:00 am – 11:15 am EST

Kosaka Best Abstracts Awards Session

11:15 am – 1:15 pm EST

Moderators: Max Kelz, MD, PhD, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA and Y.S. Prakash, MD, PhD, Mayo Clinic College of Medicine and Science, Rochester, MN

11:15 am – 11:20 am Introduction

Top Basic Science Presentations

11:20 am – 11:28 am
Glutamatergic and Adrenergic Neurons Mediate Alpha-2-Agonist-Induced Sedation and Hypnosis in Mice
Andrew McKinstry-Wu, Perelman School of Medicine, University of Pennsylvania

11:28 am – 11:36 am
Ketamine Mitigates Sevoflurane-Induced Persistent Memory Deficits and Prevents Increased Activity of GABA_A Receptors in Mice
Dian-Shi Wang, University of Toronto

Top Clinical Research Presentations

11:44 am – 11:52 am
Incidence and predictors of a same-day case cancellation.
Karuna Wongtangman, Montefiore Medical Center

11:52 am – 12:00 pm
Cognitive and cerebrospinal fluid Alzheimer's Disease biomarker changes over time in older surgical patients and matched nonsurgical controls
Megan Wong, Duke University School of Medicine

12:00 pm- 12:08 pm
Development and Validation of Machine Learning Model to Predict Postoperative, Post-Discharge Opioids Refills as a Screening Tool for Referral to a Transitional Pain Service Clinic.
Andrew Bishara, UCSF

Top Scholars Presentations

12:08 pm – 12:16 pm
Chemogenetic activation of dopaminergic midbrain neurons accelerates cognitive recovery following dexmedetomidine- but not ketamine-induced loss of consciousness in rats
Kathleen Vincent, Massachusetts General Hospital

12:16 pm- 12:20 pm
Integrated single-cell and plasma proteomic modeling to predict surgical site complications, a prospective cohort study
Amy Tsai, UC Davis School of Medicine

12:20 pm – 12:28 pm
Phase-Locked Acoustic Stimulation Increases Human Thermal Arousal Thresholds during Dexmedetomidine Sedation




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Christian Guay, Washington University School of Medicine in St. Louis

Top Late-Breaking Presentations

12:28 pm- 12:36 pm	Human Demonstration of a Closed-loop, Wearable Naloxone Injector System <i>Jacob Sunshine, University of Washington School of Medicine, Seattle, WA</i>
12:36 pm- 12:44 pm	Predictive Model for Myocardial Injury after Non-Cardiac Surgery Using Machine Learning <i>Jungchan Park, Samsung Medical Center, Seoul, Korea</i>
12:44 pm- 12:52 pm	Variation in postpartum hemorrhage prevalence based on hospital of delivery in California <i>Rudolph Davis, Stanford University, Stanford CA</i>
12:52 pm- 1:00 pm	Judges Deliberate
1:00 pm- 1:15 pm	Winners Announced


Concurrent Sessions
1:30 pm – 2:30 pm EST

1. **SmartTots: New Directions in Pediatric Anesthetic Neurotoxicity Research** 
Moderator: Dean Andropoulos, MD

1:30 pm – 1:42 pm	Novel Neurosteroids <i>Vesna Jevtovic-Todorovic, MD, PhD</i> <i>University of Colorado, Aurora, CO</i>
1:42 pm- 1:54 pm	Imaging Biomarkers of Anesthetic Exposure in Neonates and Infants <i>Ashok Panigrahy, MD</i> <i>UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA</i>
1:54 pm- 2:06 pm	Behavioral Phenotype After Anesthetic Exposure in Non-Human Primates <i>Viola Neudecker, MD</i> <i>Columbia University Medical Center, New York, NY</i>
2:06 pm- 2:18 pm	Behavioral Phenotype in Clinical Studies of Anesthetic Neurotoxicity <i>Caleb Ing, MD, MS</i> <i>Columbia University College of Physicians and Surgeons, New York, NY</i>
2:18 pm – 2:30 pm	Moderated Discussion and Q&A



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

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

Fishbowl: Four people sit in the center of a circle and discuss a topic. Eight to 10 people should be ready to be “tappers” and take their place and contribute comments and keep conversation going.

4. Development, Implementation, and Maintenance of Machine Learning Models in Anesthesiology
Moderator: *Michael L Burns, MD, PhD, University of Michigan, Ann Arbor, MI*

1:30 pm – 1:45 pm Getting Started in Machine Learning: Tools of the Trade
*Hannah Lonsdale, MBChB
Johns Hopkins University, St Petersburg, FL*

1:45 pm- 2:00 pm Understanding Artificial Intelligence: Building Interpretable Models
*Parisa Rashidi, PhD
University of Florida College of Medicine, Gainesville, FL*

2:00 pm- 2:15 pm Putting Models in Motion: The Good, The Bad and the Ugly of Artificial
Intelligence Clinical Implementation
*Jonathan Wanderer, MD
Vanderbilt University School of Medicine, Nashville, TN*



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2:15 pm – 2:30 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*

1:30 pm – 1:45 pm Overview of OUD and Need for Treatment Options
Eugene Viscusi, MD
Jefferson University Hospitals, Philadelphia, PA

1:45 pm- 2:00 pm Pharmacology of Buprenorphine
Antje Barreveld, MD
Tufts University School of Medicine, Boston, MA

2:00 pm- 2:15 pm Multi-society Recommendations on the Use of Buprenorphine for Patients with OUD in the Perioperative Period
Sudheer Potru, DO
Emory University School of Medicine, Atlanta, GA

2:15 pm – 2:30 pm Moderated Discussion and Q&A

Open Poster Viewing
2:30 pm- 3:30 pm EST

Problem-Based Learning Discussions
2:30 pm- 3:30 pm EST

1. **Fine Tuning the Duration of your Regional Anesthetic: How to Provide Reliable Anesthesia and Superior Analgesia in a Fast-moving Surgical Environment**
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
2. **Liver Resection in the Morbidly Obesity Patient with Nonalcoholic Steatohepatitis**
Gebhard Wagener, MD, Columbia University Medical Center, New York, NY
3. **Hypertrophic Cardiomyopathy- Common Disease, New Guidelines**
Weidong Gao, MD, PhD, Johns Hopkins University School of Medicine and Samhati Mondal, MD, University of Maryland
4. **A Sudden Drop in End- Tital CO2 During a Proximal Craniotomy**
Michael Chyfet, MD, MSc, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY

Concurrent Sessions
3:30 pm – 4:30 pm EST



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1. RADAR Session

- 3:30 pm – 4:00 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
- 4:00 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*

1. Panel: Resuscitation in Sepsis and Septic Shock 

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

- 3:30 pm – 3:45 pm Choice Of Fluids For Resuscitation
*Andrew Shaw, MB
Cleveland Clinic, Cleveland, OH*
- 3:45 pm – 4:00 pm Vasopressors Instead of Fluids
*Ashish K Khanna, MD, FCCP, FCCM
Wake Forest University School of Medicine, Winston-Salem, NC*
- 4:00 pm- 4:15pm Endothelial and Microvascular Dysfunction in Sepsis
*Judith Hellman, MD
University of California San Francisco, San Francisco, CA*
- 4:15 pm – 4:30 pm Moderated Discussion and Q&A

2. 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*

- 3:30 pm – 3:45 pm EEG Changes as an Indicator of Neurocognitive Resilience
Odmara Barreto Chang, MD, PhD



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3:45 pm – 4:00 pm Vascular and Endothelial Contributions to Postoperative Brain Dysfunction
Marcos Lopez, MD, MS
Vanderbilt University Medical Center, Nashville, TN

4:00 pm- 4:15pm Cerebral Autoregulation Monitoring to Identify Patients at Risk for Delirium
Eric Vu, MD
Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL

4:15 pm – 4:30 pm Moderated Discussion and Q&A

3. 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*

3:30 pm – 3:45 pm External Validation - Applying Results from Other Centers To Your Practice
Robert Freundlich, MD MS MSCI
Vanderbilt University Medical Center, Nashville, TN

3:45 pm – 4:00 pm Federated Learning - Multi-Center Results Without Sharing Data
Ira Hofer, MD
Icahn School of Medicine at Mount Sinai, New York City, NY

4:00 pm- 4:15pm 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

4:15 pm – 4:30 pm Moderated Discussion and Q&A

Open Poster Viewing
4:30 pm- 5:30 pm EST

 Sessions approved for ABA MOCA 2.0® Patient Safety CME credit.