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# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



Preliminary Program

## Friday, May 17, 2024

Start Time	End Time	Session
6:00 am	6:45 am	<b>Networking Breakfasts</b> <b>Intercontinental Connections Networking Breakfast</b>  Program TBD <b>IARS Mentored Research Awards (IMRA) Update Breakfast</b>  Program TBD <b>RADAR Networking Breakfast</b>  Program TBD <b>Breakfast in Exhibit Hall</b>
7:00 am	8:30 am	<b>T.H. Seldon Memorial Lecture: Soft, Skin-Interfaced Wireless Electronic and Microfluidic Sensors in Medicine</b> <i>John Rogers, PhD, Simpson/Querrey Professor of Materials Science and Engineering, Biomedical Engineering and Neurological Surgery, Northwestern University McCormick School of Engineering, Chicago, IL</i>
8:30 am	9:00 am	<b>Coffee in Exhibit Hall</b>
9:00 am	10:00 am	<b>Concurrent Sessions</b> <b>Managing the Unstable Patient After Cardiac Surgery</b>   <i>Moderator: Ronald G. Pearl, MD, PhD, Stanford University, Stanford, CA</i>  The Role of Echocardiography in the Cardiothoracic ICU <i>Marguerite Hoyler, MD</i> <i>Weill Cornell Medicine, New York, NY</i>  Mechanical Circulatory Support in the Cardiothoracic ICU <i>Lauren Sutherland, MD</i> <i>New York-Presbyterian / Columbia University, New York, NY</i>  Management of Cardiac Arrest after Cardiac Surgery <i>Vanessa Henke, MD</i> <i>University of California, San Francisco, San Francisco, CA</i>  <i>Moderated Q&amp;A</i>



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
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### **Patient Blood Management is Best Practice in Perioperative Medicine: Co-Sponsored by Society for the Advancement of Patient Blood Management (SABM)**

Moderator: *Prakash A. Patel, MD, Jefferson Abington Hospital, Abington, PA*

Anemia Management: Why It Matters

*Prakash A. Patel, MD*

*Jefferson Abington Hospital, Abington, PA*

Stop the Bleed! The Anesthesiologist's Role in Optimizing Coagulation

*Katherine T. Forkin, MD*

*University of Virginia, Charlottesville, VA*

What's New in Pediatric Patient Blood Management

*Laura A. Downey, MD*

*Emory University, Atlanta, GA*

*Moderated Q&A*

### **Circadian Rhythm Disruptions in Anesthesia and Critical Care Medicine: Timely Considerations and Implications for Patient Care**

Moderator: *Oluwaseun Johnson-Akeju, MD, Harvard Medical School, Boston, MA*

A Role for Circadian Rhythm Disruption in Postoperative Delirium

*S. Kendall Smith, MD, PhD*

*Washington University in St. Louis School of Medicine, St. Louis, MO*

Sleep and Circadian Disruption Due to Anesthesia or Critical Illness

*Matthew B. Maas, MD, M.S.*

*Northwestern University, Evanston, IL*

Circadian Considerations for Nutrition Support in the ICU

*Hassan S. Dashti, PhD, R.D*

*Harvard Medical School, Boston, MA*

*Moderated Q&A*

### **Leveraging Translational Neuroscience to Understand Postoperative Neurocognitive Disorders in Humans: Insights from Young Investigators: Co-Sponsored by Early-Stage Anesthesiology Scholars (eSAS)**

Moderator: *Michael J. Devinney, MD, PhD, Duke University, Durham, NC*

Blood-Brain Barrier Dysfunction in Postoperative Delirium: Translating Findings from Animal Models

*Kimberly F. Rengel, MD*



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
		<i>Vanderbilt University Medical Center, Nashville, TN</i>
		Prehabilitation for the Brain: Exploring the Role of Functional Connectivity, Brain Resilience, and Computerized Cognitive Training <i>Michael J. Devinney, MD</i> <i>Vanderbilt University Medical Center, Nashville, TN</i>
		The Impact of Extracranial Surgery on Functional and Cognitive Outcomes after Traumatic Brain Injury <i>Christopher J. Roberts, MD, PhD</i> <i>Medical College of Wisconsin, Milwaukee, WI</i>
		<i>Moderated Q&amp;A</i>

## Critical Care at the Right Time, for the Right Patient, Anywhere...



Moderator: *T. Miko Enomoto, MD, Oregon Health Sciences University, Portland, OR*

Regionalization of Critical Care  
*Matthias J. Merkel, MD, PhD*  
*Oregon Health Sciences University, Portland, OR*

Critical Care Outside the ICU: Critical Care Outreach Teams, Just-in-time Beds and Transitional ICUs  
*Liza M. Weavind, MBBCh*  
*Vanderbilt, Nashville, TN*

PICS Clinic: Meeting the Needs of Survivors of Critical Illness After Discharge  
*Christina S. Boncyk, MD*  
*Vanderbilt, Nashville, TN*

*Moderated Q&A*

## Workshops

9:00 am      11:00 am

### The Nuts and Bolts of Doing a Basic Manuscript Peer Review

Workshop Facilitators:

*Thomas Vetter, MD, MPH, MFA, University of Texas at Austin, Austin, TX;*  
*Jaideep Pandit, MA, BM, DPhil, FRCA, FFPMRCA, DM, University of Oxford, Oxford, UK; Angela Enright, OC,*  
*MBBCh, FRCPC, University of British Columbia, Victoria, BC, Canada, and*  
*Paloma Toledo, MD, MPH, University of Miami, Miami, FL.*

Workshop Co-Facilitators:

*Michael Aziz, MD, Oregon Health & Science University, Portland, OR;*  
*Karsten Bartels, MD, PhD, MBA, University of Nebraska Medical Center, Omaha, NE; Ashish Khanna, MD,*  
*MS, FCCP, FCCM, FASA, Wake Forest University, Winston-Salem, NC and*  
*Elizabeth Whitlock, MD, MS, UCSF Health, San Francisco, CA.*





# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
9:00 am	1:00 pm	<b>Point-of-Care Ultrasound (POCUS) During Medical Emergencies/ Focused Echocardiographic Evaluation in the Peri Resuscitative Period</b>  <i>Nibras Bughrara, MD, FCCM, FASA, Albany Medical College, Albany, NY</i> <i>Aliaksei Pustavoitau, MD, FCCM, The Johns Hopkins Hospital, Baltimore, MD</i> <i>Ranjit Deshpande, MD, FCCM, Yale University, New Haven, CT</i>
9:00 am	10:00 am	<b>PBLD</b> <b>Emergent Cesarean Delivery in a Patient with Sickle Cell Disease, Acute Chest Syndrome and Dilated Ascending Aorta; Anesthetic Considerations</b>  <i>Ioannis Angelidis, MD, MSPH, New York University Langone Medical Center, New York, NY</i>
10:00 am	11:00 am	<b>Poster Session A and Exhibits</b> <b>Poster Session A</b> <b>Mini-Oral Presentations A</b> <b>Moderated Poster Session A</b>
11:00 am	12:00 pm	<b>Concurrent Sessions</b> <b>Applying Change Psychology to Positively Influence Change Recipients and Successfully Implement Workplace Transitions</b>  <i>Moderator: Elizabeth W. Duggan, MD MA, University of Alabama Birmingham, Birmingham, AL</i>  <i>Organizational Change Factors: Pre-Change and Process Change Considerations to Positively Influence the Workplace</i> <i>Mada F. Helou, MD</i> <i>University Hospitals, Cleveland, OH</i>  <i>Allyship During Workplace Transitions: How do we Better Consider and Support Underrepresented Faculty?</i> <i>Remigio A. Roque, MD</i> <i>Seattle Children's Hospital, Seattle, WA</i>  <i>Coaching for Change, Leadership Habits that Offset the Stress and Anxiety of Workplace Change</i> <i>Frank Rosinia, MD, MHCM, ACC</i> <i>UT San Antonio, San Antonio, TX</i>  <i>Moderated Q&amp;A</i>



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
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### The Interplay of Vasopressors-Inotropes, Organ Protection & Prediction of Patient Deterioration Across the Care Continuum : Co-Sponsored by Society of

#### Critical Care Anesthesiologists (SOCCA)

Moderator: *Ashish K. Khanna, MD, MS, FCCP, FCCM, FASA*  
*Wake Forest University School of Medicine, Winston-Salem, NC*

Cardiovascular Infusions for Cardiac Surgery and Forecasting Hemodynamic Deterioration  
*Michael R. Mathis, MD*  
*University of Michigan Medicine, Ann Arbor, MI*

Choosing Wisely in the Non-Cardiac Room - Can We Think Beyond Phenylephrine?  
*Matthieu Legrand, MD, PhD*  
*University of California, San Francisco, San Francisco, CA*

Practical Implementation of Rational Vasopressor Selection for Major Surgery  
*Allison M. Janda, MD*  
*University of Michigan Medicine, Ann Arbor, MI*

Vasopressors & Hemodynamics in Critical Care - How Will We Achieve Precision?  
*Ashish K. Khanna, MD, MS, FCCP, FCCM, FASA*  
*Wake Forest School of Medicine, Winston-Salem, NC*

*Moderated Q&A*

### Leveraging Multi-Omic Technologies for Precision Anesthesiology: Co-Sponsored by Early-Stage Anesthesiology Scholars (eSAS)

Moderators: *Joseph Scarpa, MD, PhD, Weill Cornell Medicine, New York, NY* and *Saul S. Siller, MD, PhD, Yale University, New Haven, CT*

Leveraging Proteomics to Characterize Neuroinflammation and Cognitive Decline  
*Miles Berger, MD | PhD*  
*Duke University, Durham, NC*

Single-Cell Mass Cytometry to Measure the Immune Response to Surgery and Predict Functional Recovery  
*Brice Gaudilliere, MD, PhD*  
*Stanford University, Stanford, CA*

Genomics and Transcriptomics in Cardiac Disease and Cardiovascular Surgery  
*Jochen D. Muehlschlegel, MD, MMSc, MBA*  
*Johns Hopkins University, Baltimore, MD*

*Moderated Q&A*



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time End Time

Session

### **Tranq Dope and Elephant Tranquilizers – Veterinary Anesthetics in Human Medicine**

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

Education and Advocacy Opportunities  
*Sudheer Potru, DO, FASA, FASAM  
Emory University, Atlanta, GA*

Clinical Impact and Treatment of Patients Exposed to Veterinary Anesthetics  
*Shravani Durbhakula, MD, MPH, MBA  
Vanderbilt University, Nashville, TN*

Pharmacology and Clinical Use of Veterinary Anesthetics  
*Carrie Schroeder, DVM, DACVAA  
University of Wisconsin School, Madison, WI*

*Moderated Q&A*

### **Leveraging Large Databases: The Future of Critical Care Research: Co-**

### **Sponsored by Society of Critical Care Anesthesiologists (SOCCA)**

Moderator: *Allison Dalton, MD, University of Chicago, Chicago, IL*

Using Artificial Intelligence, Machine Learning, and Predictive Analytics in Critical Care Research  
*Piyush Mathur, MD, FCCM, FASA  
Cleveland Clinic, Cleveland, OH*

The Nuts and Bolts of Large Database Research  
*Hannah Wunsch, MD, MSc  
Weill Cornell University, New York, NY*

What It Takes to Create a Multi-Institutional Registry: Lessons Learnt from the SCCM VIRUS (COVID-19) Registry  
*Rahul Kashyap, MBBS, MBA  
Wellspan Health, York, PA*

*Moderated Q&A*

11:00 am 12:00 pm

### **PBLD**

### **PBLD: Carcinoid Syndrome and Major Intraabdominal Surgery: One Surgery with Three Etiologies for Hypotension**

*Manxu Zhao, MD, Cedars Sinai Medical Center, Los Angeles, CA*



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
12:00 pm	1:30 pm	<b>Plenary with Lunch</b>
1:30 pm	2:30 pm	<b>Poster Session B and Exhibits</b> <b>Poster Session B</b> <b>Mini-Oral Presentations B</b> <b>Moderated Poster Session B</b>
2:30 pm	3:30 pm	<b>Concurrent Sessions</b> <b>Pediatric Chronic Post-Surgical Pain: What Is the Scope of The Problem and What Are We Doing About It?</b>  <i>Moderator: Thomas A. Anderson, MD   PhD, Stanford University School of Medicine, Stanford, CA</i>  <i>Lisa Isaac, MD</i> <i>The Hospital for Sick Children, Toronto, Ontario, Canada</i>  <i>Jennifer Rabbitts, MD</i> <i>Stanford University, School of Medicine, Stanford, CA</i>  <i>Jennifer Stinson, RN-EC, PhD, CPNP</i> <i>The Hospital for Sick Children, Toronto, Ontario, Canada</i>  <i>Moderated Q&amp;A</i>  Program TBD <b>Preoperative Fasting - Does One Size Fit All? : Co-Sponsored by Early-Stage Anesthesiology Scholars (eSAS)</b>  Program TBD  <b>The Future of Education Research in Anesthesiology – An Anesthesia Research Council (ARC) Update</b>  Program TBD  <b>Is ECPR DOA?: Perspectives and Current Evidence</b>  Program TBD  2:30 pm 3:30 pm <b>PBLD</b>





# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
		<b>PBLD: Descending Thoracic Aortic Repair - Spinal Cord Protection Strategies</b>  <i>Harendra Arora, MD, MBA, FASA, University of Mississippi Medical Center, Jackson, MS</i>
		<b>Workshops</b>
2:30 pm	4:30 pm	<b>Marketing You and Your Science to the NIH: Grant Prep Workshop</b>  <i>Meredith C. B. Adams MD, MS, FASA, FAMIA Wake Forest University, Winston-Salem, NC</i>  Intro: Scientific Communication: Why Should You Waste Time on Making It Shiny?  Section 1: Your Superhero Research Origin Story  Section 2: Scientific Storytelling
3:30 pm	4:00 pm	<b>Coffee in Exhibit Hall</b>
4:00 pm	5:30 pm	<b>Anesthesia &amp; Analgesia: Access to Anesthesia Care - A Universal Challenge? 🌐</b>  <i>Moderator: Angela C. Enright, MB, FRCPC, University of British Columbia, Vancouver, BC, Canada</i>  Is Access to Anesthesia Care Equitable in High-Income Countries? <i>Beverley A. Orser, MD, PhD University of Toronto, Toronto, ON, Canada</i>  Can Anesthesia and Surgery in Health Systems Respond Effectively to the Post-Covid Surgical Backlog? - The UK Perspective <i>Jaideep J. Pandit, MA, DPhil, FRCA, DM University of Oxford, Oxford, United Kingdom</i>  Improving Access to Anesthesia and Surgery in Low- and Middle-Income Countries – How Data is Helping Us Understand What Is Needed <i>Bruce Bickard, MBChB, FCA(SA), FFARCSI, MMedSci, PhD University of Cape Town, Cape Town, South Africa</i>  <i>Moderated Q&amp;A</i>
5:45 pm	6:45 pm	<b>Concurrent Oral Abstract Sessions</b>



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
7:00 pm	8:00 PM	<b>Scholars' Reception</b> <b>Welcome Reception/Exhibit Hall</b>
Saturday, May 18		
6:00 am	6:45 am	<b>Networking Breakfasts</b> <b>Breakfast in Exhibit Hall</b>
7:00 am	8:30 am	<b>Targets for Prevention of Perioperative Neurocognitive Disorders: What's New in Town? Co-Sponsored by Society for the Advancement of Geriatric Anesthesia (SAGA)</b>   Moderator: <i>Lisbeth A. Evered, MSc, PhD, Weill Cornell Medicine, New York, NY</i>  Volatile Versus Intravenous Anesthesia to Reduce PND <i>Lisbeth A. Evered, MSc, PhD</i> <i>Weill Cornell Medicine, New York, NY</i>  What Can Blood Biomarkers Tell Us About PND? <i>David A. Scott, MB., BS., FANZCA, PhD</i> <i>St. Vincent's Hospital, Melbourne, Australia</i>  Mechanisms of Anesthesia and PND <i>Oluwaseun Johnson-Akeju, MD</i> <i>Massachusetts General Hospital; Harvard, Boston, MA</i>  <i>Moderated Q&amp;A</i>
8:30 am	9:00 am	<b>Coffee in Exhibit Hall</b>
9:00 am	5:00 pm	<b>Scholars' Program</b>  Program TBD



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time
9:00 am	10:00 am

### Concurrent Sessions

#### Generative AI and Medicine - Will This Change the Practice of Anesthesiology?

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

Generative AI and Machine Learning  
*Christopher W. Connor, MD PhD*  
*Brigham & Women's Hospital, Boston, MA*

Augmenting Anesthesiology Practice with Generative AI  
*Vesela P. Kovacheva, MD PhD*  
*Brigham and Women's Hospital, Boston, MA*

Is the Clinical World Ready for ChatGPT?  
*Hannah Lonsdale, MBChB*  
*Vanderbilt University Medical Center, Nashville, TN*

*Moderated Q&A*

#### Developing Practice Changing Evidence Through Innovative Pragmatic Randomized Clinical Trial

Moderator: *Douglas A. Colquhoun, MB ChB, MPH, MSc, University of Michigan, Ann Arbor, MI*

Practical and Ethical Considerations in the Use of Cluster Crossover Designs in Pragmatic Clinical Trials  
*Jessica Spence, MD, PhD*  
*McMaster University, Hamilton, ON, Canada*

Using a National Quality Improvement Program to Deliver an Efficient and Inclusive Pragmatic Clinical Trial  
*Hoi Yee Joyce Yeung, MB ChB, PhD*  
*Warwick Medical School, Coventry, England*

Leveraging the EHR for Pragmatic Randomized Clinical Trials  
*Douglas A. Colquhoun, MB ChB, MPH, MSc*  
*University of Michigan, Ann Arbor, MI*

*Moderated Q&A*

#### Anesthesia for the Patient with Obesity: Use of Supraglottic Airways, Pediatric Updates, and Apneic Oxygenation: Co-Sponsored by International Society for the Perioperative Care of Patients with Obesity (ISPCOP)

Moderator: *Tiffany Moon, MD, UT Southwestern, Dallas, TX*

Apneic Oxygenation in Patients with Obesity  
*Anu Wadhwa, MD, UT Southwestern, Dallas, TX*

Anesthetic Considerations for Extended Use of Supraglottic Airways in Patients with a High BMI



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
		<p><i>Adrian Sultana, MD</i> <i>Macquarie University, Sydney, Australia</i></p> <p>Pediatric obesity the myths and facts in 2024 <i>Vidya T. Raman, MD, MBA</i> <i>Ohio State University, Columbus, OH</i></p> <p><i>Moderated Q&amp;A</i></p>

## Perioperative Handoffs: How Can We Make Them Better?: Co-Sponsored by

### Society of Critical Care Anesthesiologists (SOCCA)



Moderator: *Kunal Karamchandani, MD, UT Southwestern Medical Center, Dallas, TX*

Role of EMR in Improving Handoffs During the Perioperative Period

*Andrea Vannucci, MD*  
*University of Iowa, Iowa City, IA*

Handoff Related Education: What We Have and What May Be Needed

*Meghan Michael, MD*  
*UT Southwestern Medical Center, Dallas, TX*

Perioperative Handoffs: Why Do We Need Them?

*Aalok V. Agarwala, MD, MBA*  
*Massachusetts General Hospital, Boston, MA*

Critically Ill Patients Undergoing Surgery Need Structured Multidisciplinary Handoffs

*Christopher Potestio, MD*  
*Cooper Medical Center, Camden, NJ*

*Moderated Q&A*

9:00 am 11:00 am

## Workshops

### The Fine Art of Performing a Complex Manuscript Peer Review

#### Workshop Facilitators:

*Thomas Vetter, MD, MPH, MFA, University of Texas at Austin, Austin, TX;*  
*Jaideep Pandit, MA, BM, DPhil, FRCA, FFPMRCA, DM, University of Oxford, Oxford, UK; Angela Enright, OC,*  
*MBBCh, FRCPC, University of British Columbia, Victoria, BC, Canada and*  
*Paloma Toledo, MD, MPH, University of Miami, Miami, FL.*

#### Workshop Co-Facilitators:

*Michael Aziz, MD, Oregon Health & Science University, Portland, OR;*





# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
		<i>Karsten Bartels, MD, PhD, MBA, University of Nebraska Medical Center, Omaha, NE; Ashish Khanna, MD, MS, FCCP, FCCM, FASA, Wake Forest University, Winston-Salem, NC and Elizabeth Whitlock, MD, MS, UCSF Health, San Francisco, CA.</i>
9:00 am	10:00 am	<b>PBLD</b> <b>PBLD: Perioperative Management of Patients Presenting with Hip Fracture</b>  <i>Anis Dizdarevic, MD, NY Presbyterian Hospital - Columbia University, New York, NY</i>
10:00 am	11:00 am	<b>Poster Session C and Exhibits</b> <b>Poster Session C</b> <b>Mini-Oral Presentations C</b> <b>Moderated Poster Sessions C</b>
11:00 am	12:00 pm	<b>Concurrent Sessions</b> <b>Ensuring Patients Benefit from Your Work: Intellectual Property, Patents, and Commercialization</b>  <i>Jason Maynes, PhD/MD</i> <i>The Hospital for Sick Children Washington University, St. Louis, MO</i>  <i>Patrick Purdon, PhD</i> <i>Harvard; Massachusetts General Hospital, Boston, MA</i>  <i>Laura Niklason, MD, PhD</i> <i>Yale School of Medicine, New Haven, CT</i>  <i>Moderated Q&amp;A</i>  <b>Cardio-Obstetric Anesthesia: Optimizing the Anesthesia Pregnancy Heart Team for Safe and Equitable Care</b>   <i>Moderator: Ruth Landau, MD, Columbia University, New York, NY</i>  <i>Individualized Care: Every Patient is Unique</i> <i>Hanna Hussey, MD</i> <i>University of Alabama at Birmingham, Birmingham, AL</i>  <i>Ethnic and Racial Disparities: What Does Inclusivity Mean Nowadays for Cardio-Obstetric Patients</i>



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
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*Carlos M. Delgado Upegui, MD*  
*University of Washington, Seattle, WA*

Teams and Resources: Choosing the Optimal Team, Technique, and Contingency Plan  
*Patrick Hussey, MD*  
*University of Alabama at Birmingham, Birmingham, AL*

*Moderated Q&A*

### **To Err is Human, But to Change Practice, Divine: Recognizing Common Pitfalls in Perioperative Pediatric Transfusion Practices**

Moderator: *Gee Mei Tan, MB.BS, MMED University of Colorado, Aurora, CO*

To Treat or Not to Treat: Managing Perioperative Anemia in Pediatric Surgery Patients  
*Susan M. Goobie, MD, FRCPC,*  
*Boston Children's Hospital, Boston, MA*

Why Transfuse One When Half Will Do? Unnecessary Red Blood Cell Transfusions in Pediatric Surgical Patients  
*Laura A. Downey, MD*  
*Children's Healthcare of Atlanta/Emory University, Atlanta, GA*

Resilience is the Enemy of Recognition: The Critically Bleeding Child  
*Kimmo T. Murto, MD, FRCP*  
*University of Ottawa, Ottawa, ON, Canada*

*Moderated Q&A*

### **Shaping the Future of Critical Care Anesthesiology: Workforce, Practice Organization, and Career Development: Co-Sponsored by Society of Critical**

**Care Anesthesiologists (SOCCA)** 

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

Optimal Approaches to Critical Care Anesthesiology Practice Organization: Getting from Here to There  
*Brigid C. Flynn, MD*  
*University of Kansas, Kansas City, KS*

Challenges and Opportunities in the Critical Care Anesthesiology Workforce Pipeline: Insights from PDAC  
*Erin K. Hennessey, MD, MEHP*  
*Stanford University, Stanford, CA*

Professional and Career Development in Critical Care Anesthesiology: Similar but Different?  
*Vivek Moitra, MD*



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
		<i>Columbia University, New York, NY</i>
		<i>Moderated Q&amp;A</i>
11:00 am	12:00 pm	<b>PBLD</b> <b>PBLD: Pulmonary Artery Catheter Placement and Troubleshooting: A Case Report</b>  <i>Shermeen B. Vakharia, MD, UCI School of Medicine, Irvine, CA, Darian Parsey, MD, UCI School of Medicine, Irvine, CA and Sonali Rao, MD, UCI School of Medicine, Irvine, CA</i>
12:00 pm	1:30 pm	<b>Plenary with Lunch</b>
1:30 pm	2:30 pm	<b>Poster Session D and Exhibits</b> <b>Poster Session D</b> <b>Mini-Oral Presentations D</b> <b>Moderated Poster Sessions D</b>
2:30 pm	3:30 pm	<b>Concurrent Sessions</b> <b>The Aging Brain in the Perioperative Period: The Interplay Between Neural Oscillations, Cognition and Delirium</b>  <i>Moderator: Patrick Purdon, PhD, Massachusetts General Hospital, Boston, MA</i>  <i>Anesthetic-Induced Brain Oscillations: How We Can Use Them to Improve Delirium-Related Outcomes?</i> <i>Rodrigo Gutierrez, MD, PhD</i> <i>University of Chile, Santiago, Mexico</i>  <i>Thalamocortical Dysrhythmia as a Shared Mechanism in Delirium and Dementia</i> <i>Miles Berger, MD   PhD</i> <i>Duke University, Durham, NC</i>  <i>Using the EEG to Preoperatively Identify the Vulnerable Brain</i> <i>Susana Vacas, MD, PhD</i> <i>Massachusetts General Hospital, Boston, MA</i>  <i>Moderated Q&amp;A</i>  <b>Generative AI: An Approachable, Equitable and Efficient Tool for Professional Development</b>  <i>Moderator: Elizabeth W. Duggan, MD MA, University of Alabama Birmingham, Birmingham, AL</i>



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
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Current Technological Support for Professional Development Activities: Friend or Foe?

*Tetsuro Sakai, MD | PhD, MHA*

*University of Pittsburgh Medical Center, Pittsburgh, PA*

Realizing our Limitations and Seeking our Opportunities: Offering Inclusive and Equitable Professional Development Programming

*Feyce M. Peralta, MD, MS, FASA*

*Northwestern Medicine, Chicago, IL*

A Generative AI Platform: A Safe, Nonjudgmental and Equitable Physician Resource to Enhance Professional Development

*Ryan L. Melvin, PhD*

*University of Alabama Birmingham, Birmingham, AL*

*Moderated Q&A*

## Genomics and Personalized Medicine in the Perioperative Period

Moderator: *Nicholas J. Douville, MD, PhD, University of Michigan, Ann Arbor, MI*

Personalizing Perioperative Pain Management and Opioid Pharmacogenetics

*Senthilkumar Sadhasivam, MD, MPH, MBA, FASA*

*University of Pittsburgh Medical Center, Pittsburgh, PA*

Integration of Novel Artificial Intelligence and Genomics Tools in Perioperative Care

*Vesela P. Kovacheva, MD, PhD*

*Brigham and Women's Hospital, Boston, MA*

The Best Medicine: How Pharmacogenomics can Optimize the Anesthetic

*Ruth S. Waterman, MD, MS*

*University of California, San Diego, San Diego, CA*

*Moderated Q&A*

## The Nuts and Bolts of Managing a 'Physiologically Difficult Airway': Co-

**Sponsored by Society of Critical Care Anesthesiologists (SOCCA)** 

Moderator: *Carlee A. Clark, MD, Medical University of South Carolina, Charleston, SC*

What is a Physiologically Difficult Airway"? And Why Does It Matter?"

*Kunal Karamchandani, MD*

*UT Southwestern Medical Center, Dallas, TX*

Hemodynamic Optimization of Critically Ill Patients Undergoing Tracheal Intubation

*Craig S. Jabaley, MD*

*Emory University, Atlanta, GA*

Respiratory Optimization in a Patient with a Physiologically Difficult Airway



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
		<i>Mary Jarzebowski, MD</i> <i>University of Michigan, Ann Arbor, MI</i>
		Tracheal Intubation in Patient with a Physiologically Difficult Airway: Optimizing Human Factors, Performing the Procedure, and Post-Intubation Care <i>Ravindra Gupta, MD</i> <i>Northwestern Medicine, Chicago, IL</i>
		<i>Moderated Q&amp;A</i>
2:30 pm	3:30 pm	<b>PBLD</b> <b>PBLD: Critical Care Management of the Patient with Traumatic Brain Injury</b>  <i>Jennifer Elia, MD, University of California, Irvine, Irvine, CA and Balbino E. Lopez, MD, University of California, Irvine, Irvine, CA</i>
3:30 pm	4:00 pm	<b>Coffee in Exhibit Hall</b>
4:00 pm	5:30 pm	<b>International Science Symposium: Role of the Anesthetist in the Opioid Crisis and the Science of Mitigation</b>   Moderator: Beverly Orser  Novel Insights into the Science of Opioids: Is there Potential to Make Them Safer? <i>Vivianne Tawfik, MD, PhD</i> <i>Stanford University, Stanford, CA</i>  The Role of the Anesthesiologist in the Opioid Epidemic <i>Chad M. Brummett, MD</i> <i>University of Michigan, Ann Arbor, MI</i>  Translating Clinical Work into Policy: Is this Possible? <i>Hance Clarke, MD, PhD, FRCPC</i> <i>Toronto General Hospital, Toronto, ON, Canada</i>  <i>Moderated Q&amp;A</i>
5:45 pm	6:45 pm	<b>Concurrent Oral Abstract Sessions</b> <b>Space Hold – Oral Abstract Session 1</b> <b>Space Hold – Oral Abstract Session 2</b> <b>Space Hold – Oral Abstract Session 3</b>



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program


Start Time	End Time	Session
		<b>Space Hold – Scholars</b> <b>Advanced Hemodynamics of Cardiogenic Shock, Pharmacologic and Mechanical Circulatory Support.</b> 
		Moderator: <i>Marc Dickstein, MD, Columbia University Medical Center, New York, NY</i>
		No Ejection on ECMO, Now What? <i>Vivek Moitra, MD</i> <i>Columbia University, New York, NY</i>
		Applying Physiology at the Bedside <i>Robert N. Sladen, MBChB, MRCP(UK), FRCPC, FCCM</i> <i>Columbia University, New York, NY</i>
		Weaning from MCS <i>Lauren Sutherland, MD</i> <i>Columbia University, New York, NY</i>
		<i>Moderated Q&amp;A</i>
5:45 pm	6:45 pm	<b>PBLD</b> <b>PBLD: 'Just give a Bit of Propofol:' Anesthetic Challenges in Hospital Based GI Endoscopy</b>  <i>Michael Smith, MD, MS, Mayo Clinic Florida, Jacksonville, FL</i>
6:00 am	6:45 am	<b>Sunday, May 19</b> <b>Networking Breakfasts</b> <b>Meet the Editors of A&amp;A</b>  <b>Breakfast in Exhibit Hall</b>
7:00 am	8:30 am	<b>Kosaka Best Abstracts Session</b>



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program


Start Time	End Time	Session
8:30 am	9:00 am	<b>Coffee in Exhibit Hall</b>
9:00 am	10:00 am	<b>Concurrent Sessions</b> <b>SmartTots Panel: Physiologic Changes and Pediatric Anesthetic Neurotoxicity</b>  Moderator: <i>Dean B. Andropoulos, MD, Texas Children's Hospital, Houston, TX</i>  Magnetic Resonance Imaging Connectivity Changes after Neonatal Anesthesia in Nonhuman Primates: A Biomarker of Anesthetic Neurotoxicity? <i>Viola Neudecker, MD</i> <i>Columbia University, New York, NY</i>  TBD  The Electroencephalogram During General Anesthesia in Infants: Evidence of Neurotoxicity? <i>Ian Yuan, MD</i> <i>University of Pennsylvania, Philadelphia, PA</i>  <i>Moderated Q&amp;A</i>  <b>Mock Study Section - An Interactive Panel: Co-Sponsored by Early-Stage Anesthesiology Scholars (eSAS)</b>  Moderator: <i>Douglas A. Colquhoun, MB ChB, MPH, MSc, University of Michigan, Ann Arbor, MI</i>  <i>Douglas A. Colquhoun, MB ChB, MPH, MSc</i> <i>University of Michigan, Ann Arbor, MI</i>  <i>Kimberly F. Rengel, MD</i> <i>Vanderbilt University, Nashville, TN</i>  <i>Daniel S. Rubin, MD, MS</i> <i>University of Chicago, Chicago, IL</i>  <i>Moderated Q&amp;A</i>  <b>'OUCH! Did That Just Happen?': Anesthesiology's Workplace Violence Problem</b>   Moderator: <i>Emily Methangkool, MD, MPH, David Geffen School of Medicine, Los Angeles, CA</i>  <i>Della M. Lin, MS   MD</i> <i>Anesthesia Patient Safety Foundation, Honolulu, HI</i>  <i>Alexander Hannenberg, MD</i> <i>Ariadne Labs, Boston, MA</i>



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
		<i>Randolph H. Steadman, MD, MS</i> <i>Houston Methodist Hospital, Houston, TX</i>
		<i>Moderated Q&amp;A</i>
		<b>Promoting Population Health Through Innovative Community Engagement: Case Studies and Lessons learned</b>
		<i>Moderator: Marie A. Theard, MD, Anesthesia and Pain Medicine, University of Washington, Seattle, WA</i>
		<i>Promoting Population Health Through Innovative Community Engagement in Injury and Violence Prevention: A Model Prototype</i> <i>Monica S. Vavilala, MD</i> <i>University of Washington, Seattle, WA</i>
		<i>The Anesthesiologist as a Public Health Physician: The Role of Anesthesiologists in Preventing Substance Misuse</i> <i>Adam J. Milam, MD   PhD</i> <i>Mayo Clinic Alix School, Scottsdale, AZ</i>
		<i>Educating Youth on Injury and Violence: Strategies for Prevention for the Community with Community</i> <i>Thabiti Lewis, MAT, PhD</i> <i>Washington State University, Vancouver, Vancouver, WA</i>
		<i>Moderated Q&amp;A</i>
		<b>Tribulations of Trials in Critical Care: Why Are Most Critical Care RCTs Negative?</b>
		 <b>SOCCA</b>
		<i>Moderator: Miriam Treggiari, MD, PhD and Vijay Krishnamoorthy, MD PhD, Duke University, Durham, NC</i>
		<i>The Heterogeneity of Critical Illness: Sepsis as a Case Study</i> <i>Emily A. Vail, MD, MS</i> <i>University of Pennsylvania, Philadelphia, PA</i>
		<i>Getting More Juice for the Squeeze: Improving Causal Inference from Observational Study Designs</i> <i>Karthik Raghunathan, MBBS MPH</i> <i>Duke University, Durham, NC</i>
		<i>The Future of Clinical Trial Design in Critical Care: Pragmatic Trials, Response-Adaptive Randomization, and Platform Trial Design</i> <i>Marcos G. Lopez, MD, MS</i> <i>Vanderbilt University, Nashville, TN</i>
		<i>Moderated Q&amp;A</i>






# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
9:00 am	10:00 am	<b>PBLD</b> <b>PBLD: Tonsillectomy in a Child-Avoid the Pitfalls: Co-Sponsored by Society of Anesthesia and Sleep Medicine (SASM)</b>  <i>Kimmo T. Murto, MD, FRCPC, Children's Hospital of Eastern Ontario Research Institute, Ottawa, ON, Canada</i>
		<b>Workshops</b> <b>Medically Challenging Cases</b>
10:00 am	11:00 am	<b>Poster Session E and Exhibits</b> <b>Poster Session E</b> <b>Mini-Oral Presentations E</b> <b>Moderated Poster Session E</b>
11:00 am	12:00 pm	<b>Concurrent Sessions</b>  <b>Sailing Through Your Statistical Review: Design, Analysis and Reporting Tips for Every Manuscript</b>  <i>Moderator: Edward Mascha, PhD, Cleveland Clinic, Cleveland, OH</i>  Introduction to Statistical Review: Goals, Tough Love, and the Fuss About Sample Size Justification <i>Edward Mascha, PhD</i> <i>Cleveland Clinic, Cleveland, OH</i>  A Checklist Made for You: Overcoming the Most Common Weaknesses Seen During the Statistical Review. <i>Phillip Schulte, PhD</i> <i>Mayo Clinic, Rochester, MN</i>  Getting Systematic Reviews and Meta-Analyses to the Finish Line <i>Nathan L. Pace, MD, MStat</i> <i>University of Utah, Salt Lake City, UT</i>  <i>Moderated Q&amp;A</i>  <b>Early Career Investigators Rapid-Fire Showcase: Co-Sponsored by Early-Stage Anesthesiology Scholars (eSAS)</b>   <i>Moderator: Michael J. Devinney, MD, PhD, Duke University, Durham, NC</i>  High Fidelity CRISPR Libraries to Interrogate Anesthetic Genetic Susceptibilities in Cancer Metastasis <i>Alexander R. Perez, MD, PhD</i>



# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
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*University of California-San Francisco, San Francisco, CA*

A Novel Application of Non-Anesthetic Propofol Analogues

*E. Railey White, MD, PhD*

*University of Pennsylvania, Philadelphia, PA*

Noradrenergic System in Arousal: From Synapses to Circuits

*Li Li, MD, PhD*

*University of Washington, Seattle, WA*

Identifying, Measuring, and Operationalizing Patient Reported Outcomes After Outpatient Surgery Among Adolescents.

*Sydney Brown, MD | PhD*

*University of Michigan, Ann Arbor, MI*

Multi-omics for Precision Anesthesia

*Joseph Scarpa, MD, PhD*

*Weill Cornell Medical College, New York, NY*

The Drug Burden Index Throughout Critical Illness and its Association with Patient Outcomes

*Christina Bonczyk, MD*

*Vanderbilt University, Nashville, TN*

Perioperative Oxygen Toxicity: The Evidence

*Alexander Nagrebetsky, MD, MSc*

*Massachusetts General Hospital, Harvard University, Boston, MA*

*Moderated Q&A*

## Database Logistics for Anesthesiologists: Navigating the Ins and Outs of Registries and Multicenter Studies

Moderators: *Lisa K. Lee, MD, MS, University of California Los Angeles, Los Angeles, CA*  
and *Lindsay A. Brown, MD, University of California Los Angeles, Los Angeles, CA*

*Theodora Wingert, MD*

*University of California Los Angeles, Los Angeles, CA*

*Annery Garcia-Marcinkiewicz, MD, MSCE*

*Children's Hospital of Philadelphia, Philadelphia, PA*

*Meredith Kato, MD*

*Oregon Health Sciences University, Portland, OR*

*Moderated Q&A*

## Hot Topics in Cardio-Cerebral Resuscitation - From Adjunct Tools to eCPR





# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY ANNUAL MEETING 2024



## Preliminary Program

Start Time	End Time	Session
		Moderator: <i>Matthias L. Riess, MD, PhD, FASA, Vanderbilt University Medical Center, Nashville, TN</i>
		Adjunct Mechanical Devices and their Physiological Mechanisms to Improve Quality of CPR <i>Matthew B. Barajas, MD</i> <i>Vanderbilt University Medical Center, Nashville, TN</i>
		Elevation of Head and Chest during CPR Improve Survival <i>Johanna C. Moore, MD</i> <i>Hennepin County Medical Center, Minneapolis, MN</i>
		Enhancing Cardiac Arrest Survival with Extracorporeal CPR <i>Jason A. Bartos, MD, PhD</i> <i>University of Minnesota, Minneapolis, MN</i>
		<i>Moderated Q&amp;A</i>
12:00 pm	1:30 pm	<b>Plenary with Lunch</b>