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INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

ANNUAL MEETING 2023

IARS



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Friday, April 14, 2023

Artificial Intelligence and Machine Learning: Reality and Hype

7:00 am – 8:30 am MST

Moderator: *Jonathan P. Wanderer, M.D., M.Phil, FASA, FAMIA, Vanderbilt University Medical Center, Nashville, TN*

- 7:00 am – 7:20 am A Primer on AI in Anesthesiology
Hannah Lonsdale, MBChB
Vanderbilt University Medical Center, Nashville, TN
- 7:20 am – 7:40 am Clinical Applications of Artificial Intelligence and Machine Learning in Anesthesiology
Sabry Ayad, MD MBA FASA
Cleveland Clinic Lerner College of Medicine of Case Western Reserve University and the Ohio University, Cleveland, OH
- 7:40 am – 8:00 am Clinical Applications of Artificial Intelligence and Machine Learning in Critical Care
Ronald Pearl, MD, PhD
Stanford University Medical Center, Palo Alto, CA
- 8:00 am - 8:20 am A Path Forward: Solutions and Future Applications
Matt Zapf, MD
Vanderbilt University Medical Center, Nashville, TN
- 8:20 am – 8:30 am Moderated Discussion and Q&A

Breakfast with Exhibits

8:30 am – 9:00 am MST

RADAR: Raising Anesthesiology Diversity and Anti-Racism

9:00 am – 10:30 am MST

Moderator: *Scott D. Markowitz, MD, MSOL, Washington University School of Medicine and Matthew C. Wixson, MD, University of Michigan, Ann Arbor, MI*

- 9:00 am – 9:20 am Disparities and Inequities in Perioperative Care Reducing harmful bias
Meghan B. Lane-Fall, MD, MSHP, FCCM, University of Pennsylvania, Philadelphia, PA
- 9:20 am – 9:40 am Promoting Inclusivity in Department Practices and Leadership.
Odinakachukwu Ehie, MD, FASA, University of California San Francisco, San Francisco, CA
- 9:40 am – 10:00 am Representation and Improving diversity in departments/practices Including Diversity and Inclusion Content in Training Programs
Allison D. Mitchell, MD, Washington University School of Medicine, St. Louis, MO

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

ANNUAL MEETING 2023

IARS



10:00 am – 10:20 am Pathways to science, medicine, anesthesiology for a more diverse group of professionals
William McDade, MD, PhD, ACGME
Rush University, Chicago, IL

10:20 am – 10:30 am Moderated Discussion and Q&A

Coffee Break with Exhibits

10:30 am – 11:00 am

SABM Patient Blood Management (PBM) Update: PBM is a new standard of care to improve patient outcomes: current research and evidence-based guidelines – Co-Sponsored by Society for the Advancement of Blood Management (SABM)

11:00 am – 12:00 pm MST

Moderator: Susan M. Goobie, MD, FRCPC, Boston Children's Hospital, Boston, MA

11:00 am – 11:15 am PBM: A new global definition and World Health Organization call for action
Aryeh Shander, MD, FCCM, FCCP, FASA
Icahn School of Medicine at Mount Sinai, New York City, NY

11:15 am – 11:30 am Perioperative Anemia Management to Improve Patient Outcomes
Nicole R. Guinn, MD
Duke University Medical Center, Durham, NC

11:30 am – 11:45 am Bloodless Medicine and Surgery
Steven M. Frank, MD
The Johns Hopkins Medical Institutions, Baltimore, MD

11:45 am – 12:00 pm Moderated Discussion and Q&A

Coffee Break with Exhibits

12:00 pm – 12:30 pm MST

Post-Roe v Wade: Facts and Implications for Patients, Babies and Us

12:30 pm – 2:00 pm MST

Moderator: Ruth Landau, MD, Columbia University, New York City, NY

12:30 pm – 12:55 pm The Legal Implications of Roe v. Wade and Planned Parenthood v. Casey Repeals
Alyssa M. Burgart, MD, MA
Stanford University, Palo Alto, CA

12:55 pm – 1:20 pm Maternal Health Statistics in the United States in 2023.
Ruth Landau, MD
Columbia University, New York City, NY

1:20 pm – 1:45 pm Perioperative and Pain Medicine Implications for Anesthesiologists
Caitlin D. Sutton, MD
Baylor College of Medicine, Houston, TX



1:45 pm – 2:00 pm Moderated Discussion and Q&A

Coffee Break with Exhibits

2:00 pm – 2:30 pm MST

Enhanced Recovery Programs in 2023: Opportunities and Challenges - Co-Sponsored by American Society of Enhanced Recovery (ASER)

2:30 pm – 4:00 pm MST

Moderator: Vijaya Gottumukkala, MBBS, M.D, FRCA, The University of Texas MD Anderson Cancer Center, Houston, TX

2:30 pm – 2:55 pm Patient preoperative optimization to minimize postoperative morbidity
Jeanna D. Blitz, MD
Duke University Medical Center, Durham, NC

2:55 pm – 3:20 pm Choosing cost-effective and efficacious regional analgesia techniques
Nadia Hernandez, MD
University of Houston Health Sciences Center, Houston, TX

3:20 pm – 3:45 pm Machine Learning to Identify Optimal Perioperative Pathways
Michael Burns, MD
University of Michigan, Ann Arbor, MI

3:45 pm – 4:00 pm Moderated Discussion and Q&A

Coffee Break with Exhibits

4:00 pm – 4:30 pm MST

Scholars' Reception

5:15 pm – 6:15 pm MST

Aligned Session with IARS, AUA and SOCCA: Anesthesia & Analgesia Sponsored Journal Symposium: Moving the Needle: Strategies for Reducing Healthcare Disparities and Increasing Health Equity

6:30 pm – 7:30 pm MST

Moderator: Thomas R. Vetter, MD, MPH, Dell Medical School, Austin, TX

6:30 pm – 6:45 pm Creating the Framework for Medical Journals to Improve Health Outcomes
Paloma Toledo, MD, MPH
University of Miami, Miami, FL

6:45 pm – 7:00 pm The Future of Quality and Safety Includes Health Equity: What the Anesthesiologist Needs to Know
Mofya S. Diallo, MD, MPH
Children's Hospital of Los Angeles, Los Angeles, CA



INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

ANNUAL MEETING 2023



- 7:00 pm – 7:15 pm A Case for Personalized Mentoring
Olubukola Nafiu, MD, MS
Nationwide Children’s Hospital, Columbus, OH
- 7:15 pm – 7:30 pm Moderated Discussion and Q&A

Alignment Reception with IARS, AUA and SOCCA
7:30 pm – 9:30 pm MST



Saturday, April 15, 2023

IARS, AUA and SOCCA Aligned Meeting Day

Continental Breakfast

7:30 am – 8:00 am MST

Opening Session and T.H. Seldon Memorial Lecture

8:00 am – 9:30 am MST

- | | |
|-------------------|---|
| 8:00 am – 8:05 am | Welcome Comments
<i>Santhanam Suresh, MD, MBA, FAAP</i>
<i>Northwestern University's Feinberg School of Medicine, Chicago, IL</i> |
| 8:05 am – 8:10 am | Intro to the Seldon Lecture
<i>Beverley A. Orser, MD, PhD, FRCPC, FCAHS, FRSC</i>
<i>University of Toronto, Toronto, Ontario, Canada</i> |
| 8:10 am – 9:10 am | Imaging Pain, Pain Relief and Altered States of Anaesthesia-induced Consciousness
<i>Professor Irene Tracey, CBE, FMedSci</i> <ul style="list-style-type: none">• <i>Warden (Head) of Merton College, University of Oxford</i>• <i>Professor of Anaesthetic Neuroscience</i>• <i>Incoming Vice-Chancellor at the University of Oxford</i>• <i>Founding member Oxford Centre for Functional Magnetic Resonance Imaging of the Brain (WIN).</i> |
| 9:10 am – 9:30 am | Moderated Discussion and Q&A |

Coffee Break with Exhibits

9:30 am – 10:00 am MST

IARS, AUA, SOCCA and eSAS Scholars' Day Program

10:00 am – 5:30 pm MST

Concurrent Sessions

10:00 am – 11:00 am MST

- 1. AUA: Update on Repurposing Anesthetics for Psychiatric Disorders**
Session TBD
- 2. SOCCA**
Session TBD
- 3. Postpartum Hemorrhage: Novel Assessments to Guide Perioperative Management and Improve Outcomes – Co-Sponsored by the Society for Obstetric Anesthesia and Perinatology (SOAP)**
Moderator: Jaime Daly, MD, University of Colorado, School of Medicine, Aurora, CO



- 10:00 am – 10:12 am Compensatory Reserve Index (CRI):
Cristina Wood, MD
University of Colorado, School of Medicine, Aurora, CO

- 10:12 am – 10:24 am Systems to assist in assessment of qualitative blood loss
Michaela K. Farber, MD
Brigham and Women's Hospital/Harvard, Boston, MA

- 10:24am- 10:36 am ROTEM/TEG in postpartum hemorrhage
Alexander Butwick, MBBS, FRCA, MS
Stanford University, School of Medicine, Palo Alto, CA

- 10:36 am – 11:48 am Transthoracic echocardiography (TTE) use in postpartum hemorrhage
Clemens Ortner, MD, MS, DESA
Stanford University, Palo Alto, CA

- 11:48 am – 12:00 pm Moderated Discussion and Q&A

4. Artificial Intelligence and Clinical Research in Perioperative Medicine – What the Anesthesiologist Investigator Should Know
Session TBD

PBLD: What is new in Management of Cirrhotic Patient for a TIPS Procedure?

10:00 am – 11:00 am MST
Marina Moguevitch, MD, Albert Einstein College of Medicine, Bronx, NY

Poster Session I

11:00 am – 12:00 pm MST

PBLD: Tonsillectomy in a Child - Avoid the Pitfalls

11:00 am – 12:00 pm MST
Kimmo Murto, MD, FRCPC, Children's Hospital of Eastern Ontario, Ottawa, Ontario, Canada

When its Right to be Wrong: Surprising and Hypothesis-Disproving Studies from the Recent Perioperative Medicine Literature

12:00 pm – 1:00 pm MST
Moderator: Miles Berger, MD PhD, Duke University Medical Center, Durham, NC

- 12:00 pm – 12:15 pm Long Term Cognitive Decline after Coronary Artery Bypass Grafting vs PCI-
Wherefore Art Thou, Perioperative Neurocognitive Disorders?
Elizabeth Whitlock, M.D., MS
University of California San Francisco, San Francisco, CA

- 12:15 pm – 12:30 pm Obstructive Sleep Apnea and Perioperative Neurocognitive Disorders: Surprising
Results from the SANDMAN Study
Michael J. Devinney, MD, PhD



INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

ANNUAL MEETING 2023



Duke University Medical Center, Durham, NC

- 12:30 pm- 12:45 pm Getting Older Doesn't Mean Late Rising- Surprising Results from the TORIE study on the Effect of Age on Latency to Emergence from General Anesthesia
Stacie Deiner, MD
Dartmouth University Medical Center, Lebanon, NH
- 12:45 pm – 1:00 pm Moderated Discussion and Q&A

Coffee Break with Exhibits

1:00 pm – 1:30 pm MST

Concurrent Sessions

1:30 pm – 2:30 pm MST

1. **AUA: Social Determinants of Perioperative Outcomes: How Anesthesiologists Can Transform Care for Vulnerable Patient Populations**

Moderator: Solmaz P. Manuel, MD, University of California San Francisco, San Francisco, CA

- 1:30 pm – 1:45 pm Providing Equitable Maternal Care
Allison Lee J., MD, MS
Columbia University Medical Center, New York, NY
- 1:45 pm – 2:00 pm Incorporating Social Determinants in Your Practice to Improve Outcomes for All
Odinakachukwu Ehie, MD, FASA
University of California San Francisco, San Francisco, CA
- 2:00 pm- 2:15 pm Disparities in Clinical Research and Their Impact
Olubukola Nafiu, MD, MS
Nationwide Children's Hospital; Ohio State, Columbus, OH
- 2:15 pm – 2:30 pm Moderated Discussion and Q&A

2. **SOCCA: When the Anesthesia Machine Ventilator Is Not Enough**

Moderator: *Ross Blank, MD, University of Michigan Health, Ann Arbor, MI*

- 1:30 pm – 1:45 pm Overview of Anesthesia Machine vs ICU Ventilators
Ross Blank, MD
University of Michigan Health, Ann Arbor, MI
- 1:45 pm – 2:00 pm Advanced Ventilation Techniques in the Operating Room
Oliver Panzer, MD
Hospital for Special Surgery, New York, NY
- 2:00 pm- 2:15 pm Perioperative Use of ECMO
Bhoumesh Patel, MD
Yale School of Medicine, New Haven, CT



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

3. A Pragmatic Discussion on Intraoperative Hypotension

Moderator: Richard P. Dutton, MD, MBA, US Anesthesia Partners

- 1:30 pm – 1:45 pm The demographics of IOH in the community: where, when, and who?
Wael Saasouh, MD, Northstar Anesthesia
- 1:45 pm – 2:00 pm What are the future directions in IOH research? How can we collaborate to learn more?
Anna L. Christensen, PhD, Principal Researcher, Mathematica
- 2:00 pm- 2:15 pm Can we make a difference? Exploring clinician variation in IOH incidence
Josh Lumbley, MD, Northstar Anesthesia
- 2:15 pm – 2:30 pm Moderated Discussion and Q&A

4. Controversies in Enhanced Recovery Programs after a Decade of Implementation – Co-Sponsored by the American Society of Enhanced Recovery (ASER)

Moderator: Anoushka Afonso, MD, Memorial Sloan Kettering, New York, NY

- 1:30 pm – 1:45 pm Carbohydrate loading and preoperative nutrition: What is the evidence?
*Matthew McEvoy, MD
Vanderbilt University Medical Center, Nashville, TN*
- 1:45 pm – 2:00 pm Do you need a device for that: Optimal intraoperative fluid and hemodynamic management
*Tong J. Gan, MBA, MD
Stony Brook University Hospital, Stony Brook, NY*
- 2:00 pm- 2:15 pm Anesthetics and Outcomes: does the technique matter?
*Anoushka Afonso, MD
Memorial Sloan Kettering, New York, NY*
- 2:15 pm – 2:30 pm Moderated Discussion and Q&A

PBLD: Sedation for High-risk Patients - The ABCs of Avoiding Disasters

1:30 pm – 2:30 pm MST

Laeben Lester, MD, Johns Hopkins University School of Medicine and Ashley Yager, MD, UT Southwestern Medical Center, Dallas, TX

Coffee Break with Exhibits

2:30 pm – 3:00 pm MST

Poster Session II

3:00 pm – 4:00 pm MST



PBLD: A Focus on Improved Patient Safety and Outcomes in Procedural Sedation for Higher Risk Patients

3:00 pm – 4:00 pm MST

Randall Ostroff, MD, MacNeal Hospital, Berwyn, IL

International Science Symposium: Impact of Innovation and Technology in Critical Care - Past and Future

4:00 pm– 5:30 pm MST

Moderator: Beverly A. Orser, MD, PhD, FRCPC, FCAHS, FRSC, University of Toronto, Toronto, Ontario, Canada

The Autumn Ghost: How the Battle Against a Polio Epidemic Revolutionized Modern Medical Care

Hannah Wunsch, MD, MSc

University of Toronto, Toronto, ON, Canada

Interview with Selma Calmes

Selma H. Calmes, MD retired as Chairman and Professor, Department of Anesthesiology, Olive View-UCLA Medical Center, Sylmar, California

and

Hannah Wunsch, MD, MSc

University of Toronto, Toronto, ON, Canada

How Cutting-Edge Technologists Such as Big Data and/or ECMO Modifying Clinical Practice

James Blum, MD

University of Iowa Health Care

Iowa City, IA

100th Anniversary Celebration

7:00 pm – 10:00 pm

Sunday, April 16, 2023

Continental Breakfast with Exhibits

7:30 am – 8:00 am MST

Sepsis Research from Bench to Bedside - Insights from Young Investigators – Co-Sponsored by the *Early-Stage Anesthesiology Scholars (eSAS)*

8:00 am – 9:00 am MST

Moderator: Kathryn Rosenblatt, MD, Johns Hopkins University School of Medicine, Baltimore, MD

8:00 am – 8:15 am

Targeting Toll-Like Receptors in Sepsis: from bench to clinical trials.

Brittney Williams, MD

University of Maryland, College Park, MD



- 8:15 am – 8:30 am Exploring the role of the gut microbiota in the development of post-op sepsis: moving beyond simply associated.
Mara A. Serbanescu, MD
Duke University, Durham, NC
- 8:30 am – 8:45 am Improving Neurological Outcomes in Sepsis using Personalized Cerebrovascular Targets
Kathryn Rosenblatt, MD
Johns Hopkins University School of Medicine, Baltimore, MD
- 8:45 am – 9:00 am Moderated Discussion and Q&A

Coffee Break with Exhibits

9:00 am – 9:30 am MST

Kosaka Best Abstracts Session

9:30 – 11:00 am MST

PBLD: Professional Identity Formation and Its Importance for the Career Development of Anesthesiologists

10:00 am – 11:00 am MST

S. Kendall Smith, MD, PhD, Washington University School of Medicine, St. Louis, MO

Coffee Break with Exhibits

11:00 am – 11:30 am MST

Poster Session III

11:30 am – 12:30 pm MST

PBLD: Anesthetic Management of Patients with Placenta Accreta Spectrum (PAS)

11:30 am – 12:30 pm MST

Iryna Chugaieva, MD, University of Minnesota Medical Center, Minneapolis, MN

Lunch – Sponsored?

12:30 pm – 1:30 pm MST

Coffee Break with Exhibits

1:30 pm – 2:00 pm MST

PBLD: Non-Obstetric Surgery on a Pregnant Patient with Recent COVID-19 Infection: Anesthetic Considerations

2:00 pm – 3:00 pm MST

Ioannis Angelidis, MD, MSPH, New York University Langone Medical Center, New York, NY



Concurrent Sessions

2:00 pm – 3:00 pm MST

1. Improving Patient Outcomes through Prehabilitation - Innovative Approaches from Young Investigators – Co-Sponsored by Early-Stage Anesthesiology Scholars (eSAS)

Moderator: Allison Janda, MD, University of Michigan, Ann Arbor, IL

- | | |
|-------------------|--|
| 2:00 pm – 2:15 pm | Leveraging Wearable Activity Monitors for Prehabilitation
<i>Daniel S. Rubin, MD, MS
University of Chicago, Chicago, IL</i> |
| 2:15 pm- 2:30 pm | Prehabilitation and Medical Optimization
<i>Kimberly F. Rengel, MD
Vanderbilt University Medical Center, Nashville, TN</i> |
| 2:30 pm – 2:45 pm | How modifiable is peri-operative risk: patient factors?
<i>Douglas A. Colquhoun, MB ChB, MPH, MSc
University of Michigan, Ann Arbor, MI</i> |
| 2:45 pm – 3:00 pm | Moderated Discussion and Q&A |

2. Update on SmartTots Initiative and Research Funding

Moderator: Dean B. Andropoulos, MD, MHCM, SmartTots Medical Officer, Texas Children's Hospital/Baylor College, Houston, TX

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|-------------------|---|
| 2:00 pm – 2:05 pm | Introduction
<i>Dean B. Andropoulos, MD, MHCM, SmartTots Medical Officer
Texas Children's Hospital/Baylor College, Houston, TX</i> |
| 2:05 pm- 2:20 pm | Update on SmartTots Initiative
<i>Santhanam Suresh, MD
Lurie Children's Hospital, Chicago, IL</i> |
| 2:20 pm – 2:35 pm | Role of Mossy Fiber Terminals in Early Anesthesia Neurotoxicity
<i>Jimcy Platholi, MS, PhD
Weill Cornell Medicine, New York, NY</i> |
| 2:35 pm – 2:50 pm | Neurodevelopmental Outcome After Standard vs. Low-Dose Sevoflurane: The TREX Trial
<i>Peter Szmuk, MD
UT Southwestern Medical Center, Dallas, TX</i> |
| 2:50 pm – 3:00 pm | Moderated Discussion and Q&A |

3. Enhanced Recovery after Hemorrhage: A new 'ERAH' in Pediatric Patient Blood Management – Co-Sponsored by SPA Patient Blood Management Special Interest Group

Moderator: Nina A. Guzzetta, MD, FAAP, Emory School of Medicine, Atlanta, GA

2:00 pm – 2:15 pm



Pediatric patient blood management and massive hemorrhage protocols: thinking beyond the Massive Transfusion Protocol

Susan M. Goobie, MD, FRCPC
Harvard Medical School, Boston, MA

2:15 pm- 2:30 pm

Goal-directed therapy, Hemostatic Adjuncts and Coagulation Monitoring in Pediatric Massive Hemorrhage
Thorsten Haas, M.D

2:30 pm – 2:45 pm

Pediatric Massive Hemorrhage Protocols and Quality Metrics
Kimmo T. Murto, MD, FRCPC
University of Ottawa, Ottawa, Ontario, Canada

2:45 pm – 3:00 pm

Moderated Discussion and Q&A

4. Anesthesia and Analgesia and The Society for the Advancement of Geriatric Anesthesia (SAGA) Sponsored Symposium on Geriatric Anesthesia: Perioperative Strategies for Older Adults -A Multidisciplinary Approach

Moderator: Charles H Brown IV

2:00 pm – 2:15 pm

Special Considerations for the Preoperative Evaluation and Optimization of Older Adult
Jeanna Blitz, MD, FASA
Duke University

2:15 pm- 2:30 pm

Shared Decision Making and Communicating Risks in Older Adult Surgical Patients
Emily Finlayson, MD, MS
University of California San Francisco

2:30 pm – 2:45 pm

Frailty Assessment by Anesthesiologists: Why and how
Itay Bentov MD, PhD
University Of Washington School of Medicine

2:45 pm – 3:00 pm

Moderated Discussion and Q&A

Poster Session IV

3:00 pm – 4:00 pm MST

Concurrent Sessions

4:00 pm – 5:00 pm MST



1. Putting Electronic Data to Work at the Bedside - Clinical Decision Support for the 21st Century Clinician

Moderator: Jeanine P. Wiener-Kronish, MD, Massachusetts General Hospital, Boston, MA

- | | |
|-------------------|--|
| 4:00 pm – 4:15 pm | Introducing the Electronic Safety Net
<i>Kyan C. Safavi, MD, MBA</i>
<i>Massachusetts General Hospital, Boston, MA</i> |
| 4:15 pm – 4:30 pm | Opportunities to improve maternal safety using big data
<i>Vesela P. Kovacheva, MD PhD</i>
<i>Brigham and Women's Hospital, Boston, MA</i> |
| 4:30 pm – 4:45 pm | Predictive algorithms in the cardiac ICU
<i>Michael R. Mathis, MD</i>
<i>University of Michigan, Ann Arbor, MI</i> |
| 4:45 pm – 5:00 pm | Moderated Discussion and Q&A |

2. The Anesthesia Workforce – Who's doing the work? – Co-Sponsored by the World Federation of Societies of Anaesthesiologists (WFSA)

Moderator: Adrian Gelb, MD, ChB, University of California, San Francisco, San Francisco, CA

Session TBD

3. Mentorship Programs in Anesthesiology Departments - From Residency to Faculty

Moderators: Anna Woodbury, MD, MSCR, Emory University and Bola Faloye, MD, Emory University, Atlanta, GA

- | | |
|-------------------|--|
| 4:00 pm – 4:15 pm | Mentor Education- What Makes a Good Mentor?
<i>Emily Methangkool, MD, MPH</i>
<i>UCLA, Los Angeles, CA</i> |
| 4:15 pm- 4:30 pm | Mentoring- Resource Management
<i>Anne Cherry, MD, FASE</i>
<i>Duke University, Durham, NC</i> |
| 4:30 pm – 4:45 pm | Building a Mentorship Program- Building Blocks, Road Blocks, Trail Blazing
<i>Bola Faloye, MD</i>
<i>Emory University, Atlanta, GA</i> |
| 4:45 pm – 5:00 pm | Moderated Discussion and Q&A |