Friday, May 15, 2020

3:00 pm - 5:00 pm  A&A Sponsored Journal Symposium: Perioperative Outcomes: Current Evidence and Future Priorities

Moderator: Jean-Francois Pittet, MD, DEAA, Editor-in-Chief, Anesthesia & Analgesia, University of Alabama at Birmingham

Perioperative Outcomes: Shock
Judith Hellman, MD, Associate Editor, Shock, University of California San Francisco

Perioperative Outcomes: British Journal of Anesthesia
Hugh Hemmings, MD, PhD, FRCA, Editor-in-Chief, British Journal of Anesthesia, Weill Cornell Medical College

Perioperative Outcomes: Obstetrics & Gynecology
John R. Fischer, MD, FACOG, Consultant Editor, Obstetrics & Gynecology, University of Minnesota

Perioperative Outcomes: Anesthesia & Analgesia
Paloma Toledo, MD, MPH, Associate Editor, Anesthesia & Analgesia, Northwestern University

5:00 pm – 7:30 pm  Innovative Session: Going Up: Early Stage Anesthesiology Scholars Rapid-Fire Showcase

Moderator: Aaron Norris, MD, PhD

Panelists: Naheed Jivraj, MBBS, MSc., Erica Langnas, MD, MPH, Loren Smith, MD, PhD, Jamie Privratsky, MD, PhD

7:00 pm - 8:30 pm  Taste of San Francisco Dine-Arounds 1

7:30 pm – 9:00 pm  IARS, AUA, SOCCA and eSAS Scholars' Program Mentoring and Networking Reception
Saturday, May 16, 2020
IARS, AUA and SOCCA Aligned Meeting Day and Critical Care Day

6:45 am - 7:45 am  IARS Sponsored Breakfast/Themed Breakfasts

6:45 am - 7:45 am  IARS First-Time Attendee Orientation Continental Breakfast

8:00 am - 5:00 pm  IARS Poster Session D: Open Viewing

8:00 am - 9:30 am  Opening Session and T.H. Seldon Memorial Lecture

Welcome Comments
Emery Brown, MD, PhD, Chair, IARS Board of Trustee; Harvard Medical School

Introduction  Speaker: George Mashour, MD, PhD, University of Michigan

T.H. Seldon Memorial Lecturer
Christopher P. Austin, MD, National Center for Advancing Translational Sciences; National Institutes of Health

9:30 am – 10:00 am  Break with Exhibits

9:30 am – 5:00 pm  IARS, AUA, SOCCA and eSAS Scholars’ Program Sessions

10:00 am – 10:45 am  RCL: Disaster Preparedness in Anesthesia - Lessons from Katrina, Super Storm Sandy, and the Boston Marathon Bombings
Meredith Miller, MD

10:00 am – 11:00 am  PBLD: Critical Reading of a Scientific Article
Speakers: Ozan Akca, MD, FCCM and Andrea Kurz, MD

10:00 am – 11:00 am  PBLD: Management of the Newborn with Severe Un-Anticipated Critical Airway Obstruction. Emergency Tracheostomy Under Mask Ventilation When the EXIT Procedure Was Not an Option.
Speakers: Emad Mossad, MD, Mounir Banoub, MD, MBA, CPE, FAAPL, FASA

10:00 am – 11:30 am  Panel: Burst Suppression (BS) and Outcomes: How does one recognize BS? How can someone avoid it?
Moderator: Gerhard Schneider, MD

A Systems Neuroscience Approach to Burst Suppression
Stephan Kratzer, MD
Limitations and Improvements of Current Burst Suppression Detection Algorithms  
*Matthias Kreuzer, PhD*

The Clinical Implications of Burst Suppression and its Association with Outcome: Is It Good or Evil?  
*Jamie Sleigh, MBChB, MD*

Intraoperative Decision-Making That Can Influence Burst Suppression  
*Sona Arora, MD*

**10:00 am – 11:30 am**  
Panel: How Advances in Technology Will Impact the Practice of Anesthesiology  
*Moderator: Ronald Pearl, MD, PhD*

How Advances in Surgery Will Change the Practice of Anesthesiology  
*Gaganpreet Grewal, MD*

Artificial Intelligence, Machine Learning, and the Practice of Anesthesiology  
*Michael Mathis, MD*

Remote Monitoring to Improve Patient Outcomes  
*Jeanine Wiener-Kronish, MD*

How Advances in Pharmacology Will Change the Practice of Anesthesiology  
*Alex Evers, MD*

**10:00 am – 12:00 pm**  
Symposium: Immune Health in Surgery and Critical Care - Challenges and Novel Opportunities  
*Moderator: Martin Angst, MD*

The Surgical Immune Response – How Do We Measure It and What Does It Tell Us in Perioperative Care?  
*Brice Gaudilliere, MD, PhD*

Onco-anesthesia – Do Anesthetic Choices Influence Outcomes in Cancer Surgery?  
*Tom Wall, MD*

Biological Determinants in Critical Illness – A Path towards Individualized Patient Care in the ICU?  
*Philip Efron, MD*
Biological Determinants of Wound Healing – What are Modifiable Factors in Perioperative Medicine?
Sashwati Roy, PhD

10:00 am – 12:30 pm Workshop: Immersive Technologies for Anxiety and Pain Management
Moderator: Thomas Caruso, MD, MEd

Speakers: Sam Rodriguez, MD, Clyde Matava, MBChB, DA, MMed, Vanessa Olbrecht, MD, MBA, James Thomas, MD

11:00 am – 11:45 am RCL: Implementing the CDC Guideline for Prescribing Opioids for Chronic Pain
Speaker: Paul Sloan, MD

11:00 am – 12:00 pm PBLD: My 85-year-old Patient Never Fully Woke Up After Hip Surgery - What Could We Have Done Differently?
Speaker: Letitia Easdown, MD

11:30 am – 1:00 pm Panel: Wellness in Medicine: Solutions - Enhancing the Culture of Wellness and Personal Resilience
Moderator: Gregory Hammer, MD

Speakers: Nina Guzzetta, MD, Santhanam Suresh, MD, and Gregory Hammer, MD

11:30 am – 1:00 pm Panel: SABM: Update in Alternatives to Peri-operative Blood Product Transfusion: New Research and Evidence Based Guidelines
Moderator: Jonathan Waters, MD

Perioperative Anemia Management to Improve Patient Outcomes
Nicole Guinn, MD

Legal-Ethical Issues in Bloodless Medicine and Surgery
Steven Frank, MD

Antifibrinolytics and Other Blood Sparing Techniques
Susan Goobie, MD

Blood Substitutes and Artificial Oxygen Carriers
Aryeh Shander, MD, FCCM, FCCP, FASA

1:00 pm - 2:30 pm IARS Poster Session D: Facilitated Discussion Session

2:30 pm – 3:30 pm PBLD: Acute Dissection of Ascending Aorta during Elective Thoracic Endovascular Aortic Aneurysm Repair (TEVAR)
Speakers: Johan Dorfling, MBBS and Oksana Klimkina, MD
2:30 pm – 4:00 pm  Panel: ISPCOP: Critical (N)ORA Questions for the Patient with Obesity - Getting to the Answers?
  *Moderator: Roman Schumann, MD*

  Anesthesia for Complex Endoscopy NORA Procedures in Obese Patients - Considerations and Criteria  
  *Anupama Wadhwa, MBBS, MSc, FASA*

  Periprocedural Opioid Sparing Strategies in Patients with Obesity – What is the Common Ground?  
  *Tiffany Moon, MD*

  Evolution of Lung Protective Ventilation for The Obese in 2020 - One Size Doesn't Fit All  
  *Paolo Pelosi, Professor*

  Nutritional Risk Assessment and Rational Strategies as Part Of Prehabilitation For Obese Patients  
  *Jessica Shanahan, MD*

2:30 pm – 4:00 pm  Panel: SOCCA: Advances in Critical Care and OR Anesthesia: Learning From Each Other  
  *Moderator: Ronald Pearl, MD, PhD*

  Blood Pressure Targets and How to Achieve Them  
  *Ashish Khanna, MD, FCCP, FCCM*

  Fluid Management: Volume and Choice  
  *Vanessa Moll, MD*

  Transfusion: When and What  
  *Aryeh Shander, MD, FCCM, FCCP, FASA*

  Mechanical Ventilation: Invasive and Non-invasive  
  *Ronald Pearl, MD, PhD*

2:30 pm – 4:00 pm  Panel: APSF: Consensus Recommendations on the Conduct, Implementation, Research, and Education of Perioperative Handoffs  
  *Moderator: Aalok Agarwala, MD, MBA*

  Implementation of Perioperative Handoff Standards and Protocols  
  *Philip Greilich, MD, MSc*
Leveraging Electronic Medical Records to Improve Handoffs  
*Emily Gordon, MD*

Research Challenges and Opportunities Related to Perioperative Handoffs  
*Meghan Lane-Fall, MD, MSHP*

Education to Support Safe and Reliable Perioperative Handoffs  
*Erin Pukenas, MD*

**2:30 pm – 4:00 pm**  
**Innovative Session: Minding the Mind: The Evidence on Preserving Neurocognitive Function during Cardiac Surgery**  
*Moderator: Hilary Grocott, MD*

*Speakers: Houman Amirfarzan, MD and Suzana Zorca, MD*

**2:30 pm – 4:30 pm**  
**AUA Sponsored Symposium: Anesthesia and the Microbiome: Exploring a New Frontier in Perioperative Medicine**  
*Moderator: Dr. Ines Koerner, MD, PhD*

- **Anesthetic Effects on the Gut Microbiome**  
  *Cyrus Mintz, MD, PhD*

- **Gut Microbiota in Neuroinflammation and Pain**  
  *Shiqian Shen, MD*

- **Gut Dysbiosis in Critical Illness**  
  *Paul Wischmeyer, MD, EDIC*

- **Role of the Microbiome in Neuroinflammation and Delirium**  
  *Niccolo Terrando, PhD*

**2:30 pm – 5:30 pm**  
**Workshop: Ultrasound-Guided Interfascial Plane Blocks**  
*Moderator: Sakura Kinjo, MD*

*Speaker(s): Matthias Braehler, Kerstin Kolodzie, MD, PhD, Andrew Gray, MD, PhD, Jean-Louis Horn, MD, and Ban Tsui, MD*

**4:30 pm – 5:15 pm**  
**RCL: The Global History of Opioids, Their Development, Trade and Temptations Leading into the Opioid Crisis - The Importance of History**  
*Speakers: Roman Schumann, MD and Jessica Shanahan, MD*
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 4:30 pm – 5:30 pm | Campfire Session: Medication Errors: Learn from the Experts and Learn from Each Other: Together We Can Solve this Problem  
**Moderator:** Ken Catchpole, PhD  
**Speakers:** Jake Abernathy, MD, Alan Merry, ONZM FRSNZ, and David Neyens, PhD |
| 4:30 pm – 5:30 pm | PBLD: Liver Transplantation in a Patient with Portopulmonary Hypertension: Pre-operative and Intra-operative Considerations  
**Speakers:** Scott Wolf, MD and Cara Crouch, MD |
| 4:30 pm – 5:30 pm | PBLD: Perioperative Management of Patient with Sickle Cell Disease: Current Concepts and Controversies  
**Speakers:** Vanessa Moll, MD and Babar Fiza, MD |
| 4:30 pm – 6:30 pm | International Science Symposium: WFSA Sponsored Symposium: Evidence in the Era of Fake News: Maintaining Scientific Honesty While Remaining Socially Relevant  
**Moderator:** Jannicke Mellin-Olsen, MD, DPH  
  - How Can We Be Evidence-Based in the Face of Evidence Reversals, Over-Hype, and Research Misconduct  
    - Janet Martin, MSc (HTA&M), PharmD  
  - Ethical, Cultural, and Practical Challenges of Developing & Implementing Global Anesthesia Research  
    - Angela Enright, OC, MB, FRCPC  
  - Do We Need A Revolution in Evidence Generation And Guideline Development?  
    - John Ioannidis, MD, DSc |
**Moderator:** Jeanna Blitz, MD  
  - Perioperative Frailty-Epidemiology and Assessment  
    - Jeanna Blitz, MD  
  - Prehabilitation for the Elderly Surgical Patient  
    - Heather Nye, MD, PhD  
  - Initiating a Perioperative Cognitive Anesthesia Network (PeCAN) clinic  
    - Catherine Price, PhD, ABPP/CCN  
  - ERAS in the Elderly  
    - Traci Hedrick, MD, FACS, FACRS |
Quality Improvement in Geriatric Surgery: Overview of the ACS Geriatric Verification Program
Emily Finlayson

4:30 pm – 6:00 pm
Panel: AI: Balancing Profit, Efficiency, and Patient Safety in the Operating Room and ICU
Moderator: Seshadri Mudumbai, MD

 Speakers: Seshadri Mudumbai, MD, Kent Berg, MD, MBA, Jack Neil, MD, and Parisa Rashidi, PhD

6:30 pm - 8:00 pm
Taste of San Francisco 2

Sunday, May 17, 2020

6:30 am - 7:30 am
Themed Breakfast: Supporting our Growing Families in Two Parts: 1) Three Perspectives on Maternity/Paternity Leave During Training and In Practice and 2) Perioperative Breast Pumping (Is it Possible in the OR?)
Moderator: Marla Ferschl, MD

 Speakers: Julee Dalton, MD and Katie Telischak, MD

6:30 am - 7:30 am
Themed Breakfast: Burnout in Anesthesia: Preventing it in Trainees and Attending Staff
Speakers: Anirban Sahu, MD PhD and Santhanam Suresh, MD

7:30 am – 10:30 am
Workshop: (Slightly) Advanced Statistics for the Anesthesiologist: Propensity Score Matching and Time-to-Event Analyses
Speakers: Thomas Austin, MD, MS and Lisa Lee, MD, MS

7:30 am – 10:30 am
Workshop: 'Why Did You Say That?'-Avoiding Intercultural Misunderstandings
Moderator: Odi Ehie, MD

 Speakers: Viji Kurup, MD, Lena Dohlman, MD, MPH, and Jo Davies, MB BS, FRCA

7:30 am – 8:15 am
RCL - Perioperative Acute Kidney Injury: Time for a New Paradigm?
Speaker: Robert Sladen, MBChB, FCCM

7:30 am – 8:30 am
PBLD: How to Review a Scientific Original Study Manuscript
Speaker: Ozan Akca, MD, FCCM

7:30 am – 9:30 am
A&A and SAGA Sponsored Symposium: Geriatric Anesthesia
Moderator: Jean-Francois Pittet, MD
Prehabilitation and Other Strategies to Improve Post-Operative Outcomes in Geriatric Patients
Victoria Tang, MD, MAS

Surgical Decision-Making in Frail Older Adults
Emily Finlayson

Pharmacological Considerations for and Intraoperative Management of the Geriatric Surgical Patient
Shamsuddin Akhtar, MD, MBBS

Is Frailty the “Holy Grail” in the Pre-operative Assessment of the Older Adult?
Ruben J. Azocar, MD, MHCM, FASA, FCCM

7:30 am – 9:00 am Panel: Opioid-Induced Cancer Progression: The Journey from Bench to Bedside
Moderator: Kalpna Gupta, PhD

Opioids Stimulate Mitogenic- and Survival-Promoting Signaling Leading to Cancer Progression
Kalpna Gupta, PhD

Use of Methylnaltrexone to Identify Mechanism and To Treat Mu Opiate Induced Cancer Progression
Jonathan Moss, MD, PhD

Do Opioids Promote Cancer Progression? Clinical Evidence
Juan Cata, MD

Associations Between Pain, Opioids, Opioid Receptors and Cancer Outcomes
Pankaj Gupta, MD

7:30 am – 9:00 am Panel: Climbing the Leadership Ladder: How to Navigate Generational Divide and Build Lasting Teams!
Moderator: Jeffrey Berger, MD

Generations Defined
Jeffrey Berger, MD

Managing Up: The Revered Baby Boomers
Mary Njoku, MD

Managing Laterally: Middle Ground Gen Xers
Maya Hastie, MD
Managing Down – Infamous Millennials
*Mada Helou, MD*

The Ultimate Unifier – Emotional Intelligence
*Elizabeth Duggan, MD*

Bridging the Sticking Points: Unifying Strategies
*Mada Helou, MD*

7:30 am – 9:00 am  
**Panel: Prehabilitation and Medical Optimization in High-Risk Surgical Patients**
*Moderator: Ryan Smith, MD*

Frailty and Sarcopenia: What Can I Do About That?
*Kimberly Rengel, MD*

Nutritional Optimization Before Surgery
*Paul Wischmeyer, MD, EDIC*

Preoperative Cognitive Assessment and Optimization
*Deborah Culley, MD*

Preoperative Medical Optimization Programs: Practical Steps for Implementation
*Ryan Smith, MD*

8:00 am - 5:00 pm  
**IARS Poster Session E: Open Viewing**

8:30 am – 9:15 am  
**RCL: Innovations in Resident Education**
*Speaker: Julia Sobol, MD*

9:30 am - 11:30 am  
**Kosaka Best Abstracts Session**

11:30 am – 2:45 pm  
**Workshop: Health Care Disparities - Fighting the Battle of Unconscious Bias and Understanding Privilege in Health Care for Women and Children of Color**
*Moderator: Jennifer Lucero, MD, MA*

*Speakers: Odi Ehie, MD and Odmara Barreto Chang, MD, PhD*

11:30 am – 12:15 pm  
**RCL: Highlights in Cardiovascular Medicine: Implications for the Anesthesiologist**
*Speakers: John Augoustides, MD, FASE, FAHA and Harish Ramakrishna, MD, FACC, FESC, FASE*
11:30 am – 12:30 pm  Innovative Session: TED Talks

The Environmental Impact of Anesthesia Practice  
*Speaker: Stephen McHugh, MD*

Needles Versus Mask, Future and Past: Decades of Advances in Pediatric Anesthesia  
*Speaker: Chang Amber Liu, MD MSc FAAP*

11:30 am – 12:30 pm  Innovative Session: What Systemic Biases Do Our Trainees and Faculty Face, and What Should We Be Doing About Them?  
*Moderator: Dawn Dillman, MD*

*Speaker: Meghan Lane-Fall, MD, MSHP, FCCM*

11:30 am – 12:30 pm  PBLD: SCA: The Arteriovenous ECMO patient for Colorectal Surgery  
*Speakers: Daniel Cormican, MD and Nazish Hashmi, MD*

11:30 am – 1:00 pm  Panel: SPAQI: Considerations Related to Gender, Race, and other Health Disparities in the Preoperative Evaluation  
*Moderator: Jeanna Blitz, MD*

Gender Disparities in Preoperative Assessment and Management  
*Presentation Speaker: Jenna Swisher, MD, FACP*

Racial and Socioeconomic Disparities in Perioperative Medicine  
*Joseph McComb, DO*

The Impact of Health Literacy, Mental Health, and Psychological Preparation on Perioperative Outcome  
*Jeanna Blitz, MD*

Caring for Patients with a History of Incarceration, Substance Use Disorder or Homelessness  
*Avital O’Glasser, MD*

11:30 am – 1:00 pm  Panel: Social Media and Mobile Apps: Looking Beyond Retweets to Knowledge Dissemination and Novel Data for Research  
*Moderator: Vikas O'Reilly-Shah, MD, PhD*

Utilizing Social Media to Disseminate Research and Cultivate Delivery of Scientific Updates  
*Kellie Jaremko, MD, PhD*

Altmetrics and Web Traffic Data Demystified: Tools to Measure Knowledge Dissemination and Uptake
Craig Jabaley, MD

A Tale of Two Roles: Mobile Apps Providing Decision Support While Measuring Implementation and Impact
Vikas O’Reilly-Shah, MD, PhD

11:30 am – 1:00 pm Panel: eSAS: Technology and Pain Medicine in 2020: Breakthrough or Just Another Widget?
Moderator: Eellan Sivanesan, MD

Neuromodulation for Peripheral Neuropathies: What is the current evidence?
Eellan Sivanesan, MD

Neuromodulation Applications for Abdominal and Pelvic Pain
Jennifer Hah, MD, MS

Recording Technologies and Closed Loop Deep Brain Stimulation
Prasad Shirvalkar, MD, PhD

New Technologies for Headache and Facial Pain
Nathaniel M. Schuster, MD

12:30 pm – 1:15 pm RCL: Minimizing Oxygen Desaturation During Anesthesia and Sedation in High-Risk Patients with the Use of High Flow Nasal Oxygen, Nasal CPAP, and Other Techniques
Speakers: David Wong, MD and Lorraine Foley, MD, MBA

1:00 pm - 2:30 pm IARS Poster Session E: Facilitated Discussion Session

2:30 pm - 6:00 pm AUA, eSAS, IARS, FAER, MPOG, PACT & SOCCA: A Vision for IMPACT: Initiative for Multicenter Pragmatic Anesthesiology Clinical Trials’ (IMPACT)

Overview of Precision Clinical Trial Frameworks
Eric Lenze, MD

Presentation by IMPACT Winner
Speaker TBD

Feedback and Questioning from Team Expert Panel

Conducting Large Clinical Trials in Perioperative Medicine
Jessica Spence, MD

Presentation by IMPACT Runner-Up
Speaker TBD
Feedback and Questioning from Team Expert Panel

Including Patient Preference in Perioperative Research

Dr. Rebecca Aslakson, MD

Networking and Informal Discussion

2:30 pm – 3:15 pm

RCL: Novel Carotid Surgeries, TransCarotid Artery Revascularization (TCAR) and Baroreceptor Activation Therapy for Heart Failure (BAT): What does the Vascular Anesthesiologist Need to Know?

Speakers: Andrea Olmos, MD and Ahmed Shalabi, MD

2:30 pm – 3:30 pm

PBLD: One-lung Anesthesia for Pacing Wire Change in 115 Kg Fontan Patient

Speaker: Susan Taylor, MD, MPH

2:30 pm – 4:30 pm

Symposium: Perioperative Hypotension - A Key Driver of Organ Dysfunction and Perioperative Morbidity

Moderator: J. Robert Sneyd, MD, FRCA

Monitoring Approaches to Minimizing Organ Injury

Christa Boer, PhD

How Low for How Long?

W. Scott Beattie, MD, PhD, FRCPC

Anaesthetic Strategies to Minimize Hypotension

J. Robert Sneyd, MD, FRCA

Role of Perioperative Hypotension in Myocardial Injury

Duminda Wijeysundera, MD, PhD, FRCPC

2:30 pm – 4:00 pm

Panel: STA: Machine Learning in Medicine: Where to Start, Were We Going

Moderator: Michael Burns, MD PhD

Introduction to Artificial Intelligence and Machine Learning for the Clinician

Michael Burns, MD, PhD

Opening the Black Box: Understanding Artificial Intelligence

Parisa Rashidi, PhD

Nuts and Bolts: A Practical Approach to Machine Learning

Samir Kendale, MD

Putting Models in Motion: The Good, the Bad and the Ugly of AI Clinical Implementation

Jonathan Wanderer, MD
Advanced Clinical Applications of Machine Learning
Ira Hofer, MD

2:30 pm – 4:00 pm
Panel: Wooden Nails to Brass Tacks: Pragmatic Approaches to Data-Driven Quality Improvement
Moderator: Vikas O’Reilly-Shah, MD, PhD

Consensus-Driven Quality Improvement in Adults and Critical Care
Craig Jabaley, MD

Quality Improvement in Pediatric Anesthesiology: Hurdles and Lessons Learned
Amber Franz, MD

Cutting the Gordian Knot: Overcoming Intervention Challenges in QI
Vikas O’Reilly-Shah, MD, PhD

3:30 pm – 4:15 pm
RCL: Sleep and Night Call: Strategies to Reduce Physician Fatigue and Improve Patient Safety
Speaker: Edward Nemergut, MD

4:30 pm – 6:30 pm
Workshop: Case Studies in EEG-Guided Anesthetic Management
Moderator: Patrick Purdon, PhD

Speakers: Emery Brown, MD, PhD, Paul Garcia, MD, PhD, Marusa Naranjo, MD, Francisco Lobo, MD, and Choon Bong, MBChB, FRCA

4:30 pm – 6:00 pm
Panel: SmartTots: Behavioral and Cognitive Changes in Children Following Anesthesia and Surgery: Assessment and Relevance
Moderator: Laszlo Vutskits, MD, PhD

Understanding Post-Anesthesia Delirium in Children
Andrew Davidson, MBBS, MD, FANZCA

Behavioral Outcomes Following Anesthesia Exposure: What Counts?
Caleb Ing, MD, MS

Measuring Postoperative Behavior in Children
Kristen Uhl, PhD

Challenges in Neuropsychological Assessment of Children Following Anesthesia
Cynthia Salorio, PhD, ABPP

4:30 pm – 6:00 pm
Panel: SNACC: Future Forward Topics in Perioperative Basic Neuroscience
Moderator: Ines Koerner, MD, PhD
The Role of MicroRNAs in Brain Injury  
*Creed Stary, MD, PhD*

Neuroinflammation and Ischemic Brain Injury  
*Ines Koerner, MD, PhD*

Branched Chain Amino Acids and Epilepsy  
*Shaun Gruenbaum, MD, PhD*

### 4:30 pm – 6:00 pm

**Panel: Resuscitation for Traumatic Hemorrhagic Shock with Whole Blood Therapy. Why Replace the Parts When You Can Replace the Whole Thing?**  
*Moderator: Justin Richards, MD*

*Speakers: Jason Gillihan, MD, Richard Dutton, MD, MBA, and Samuel Galvagno, MD*

### 4:30 pm – 6:00 pm

**Panel: Oxygen - The Perioperative Sweet Spot? Mechanisms and Outcomes**  
*Moderator: Shahzad Shaefi, MD*

Oxygen in Reperfusion Injury and Oxidative Stress: Clinical Implications  
*Frederic (Josh) Billings, MD, MSCI*

Friend or Foe: The Clinical Evidence for Oxygen  
*Shahzad Shaefi, MD*

Targeting Hypoxia Signaling in the Perioperative Space  
*Holger Eltzschig, MD, PhD*

Carbon Monoxide – From Poison to Promise?  
*Leo Otterbein, PhD*

### 6:30 pm – 8:00 pm

**Taste of San Francisco 3**

---

**Monday, May 18, 2020**

#### 6:15 am - 7:15 am

**Themed Breakfast: SABM: The Road to Transfusion is Paved with Good Intentions - Barriers to Implementing Evidence-Based Patient Blood Management**  
*Moderator: Solmaz Manuel, MD*
*Speaker: Sara Bakhtary, MD*

#### 6:15 am - 7:15 am

**Women in Anesthesia Breakfast**  
*Moderators: Maya Hastie, MD and Jeanine Wiener-Kronish, MD*

#### 7:30 am – 8:30 am

**PBLD: Carotid Endarterectomy: Past, Present and Future!**  
*Speaker: Harendra Arora, MD, FASA, MBA*
7:30 am – 8:30 am  
PBLD: Blood, Sweat, and Tears - Massive Transfusion and Cardiac Arrest in a 0-Day Old Undergoing Resection of Sacrococcygeal Teratoma  
*Speakers: Erin Williams, MD and Titilopemi Aina, MD, MPH*

7:30 am – 9:30 am  
Symposium: Variation in Biopsychosocial Pain Phenotypes: Assessing Risk of Chronic Postsurgical Pain in Surgical Groups Across the Lifespan  
*Moderator: Kristin Schreiber, MD, PhD*

  - Prediction and Prevention of Persistent Post-Mastectomy Pain  
    *Kristin Schreiber, MD, PhD*

  - Biopsychosocial Risk of Failed Back Syndrome: Investigations of Pain after Spine Surgery  
    *Andrea Nicol, MD*

  - Chronic pain after surgery in Pediatric Patients; Psychosocial and Psychophysical Risk Factors  
    *Jennifer Rabbitts, MD*

7:30 am – 9:00 am  
Innovative Session: Using a Simulation Platform to Teach Trainees Pattern Recognition Related to Drug Errors and Other Physiologic Events  
*Moderator: Christina Miller, MD*

  *Speaker: Adam Schiavi, MD, PhD*

7:30 am – 9:00 am  
Panel: (SEA): Addressing Professionalism Issues in the Workplace  
*Moderator: John Mitchell, MD*

  - Introductions and Scope of Issues  
    *John Mitchell, MD*

  - Professionalism Problems for And with Trainees  
    *Franklyn Cladis, MD*

  - Professionalism Problems for And with Staff - How They Differ  
    *Annette Mizuguchi, MD*

  - Administrative Approaches - Probation, Warnings and Documentation  
    *Stephanie Jones, MD*

  - Training and Teaching to Avoid Professionalism Issues  
    *John Mitchell, MD*
7:30 am – 9:00 am  
**Panel: Perioperative Neuronal Injury and Cognitive Function**

*Moderator: Elizabeth Whitlock, MD, MS*

Postoperative Cognitive Decline  
*Elizabeth Whitlock, MD, MSc*

Postoperative Delirium  
*Anne Donovan, MD*

Postoperative Covert and Overt Stroke  
*Phillip Vlisides, MD*

---

7:30 am – 9:00 am  
**Panel: Rapid Antidepressant Effects of Anesthetics- Evidence, Mechanisms and Clinical Implications**

*Moderator: Carolyn Rodriguez, MD, PhD*

Is Ketamine’s Antidepressant Effect Linked to the Opioid System?  
*Boris Heifets, MD, PhD*

Nitrous Oxide as Potential Treatment for Major Depression – Where do we stand?  
*Peter Nagele, MD, MSc*

Isoflurane and Propofol- Antidepressant and CNS Effects  
*Scott Tadler, MD*

Sleep and its Mechanisms at the Core of Rapid Antidepressant Actions?  
*Tomi Rantamäki, PhD*

---

8:00 am - 5:00 pm  
**IARS Poster Session F: Open Viewing**

8:30 am – 11:30 am  
**Workshop: Conflict Management: What Anesthesiologists Need to Know**

*Moderator: Jina Sinskey, MD*

*Speakers: Joyce Chang, MD, Marla Ferschl, MD, Kristina Sullivan, MD, Kevin Thornton, MD*

9:30 am – 10:15 am  
**RCL: MH Susceptibility, More Than an Anesthetic Disease**

*Moderator: Sheila Riazi, MD*
Adaptive Thermogenesis Sensitizes Mice with a Mutation in RyR1 Associated with MH  
*Susan Hamilton, PhD*

What do MH Susceptibility and Exertional Heat Illness Have In Common?  
*Philip Hopkins, MD, FRCA*

Insulin Resistance & Hyperglycemia in MH Susceptible Patients  
*Jose Lopez, MD, PhD*

Exertional Rhabdomyolysis, Heat Sensitivity and MH Susceptibility; What Should a Clinician Do?  
*Sheila Riazi, MD*

**9:30 am – 10:30 am**  
PBLD: Post-traumatic Stress Disorder and Perioperative Violence  
*Speaker: Karl Poterack, MD*

**9:30 am – 10:30 am**  
PBLD: Physician Wellness for the Anesthesiologist: How Do We Avoid Burnout and Find Joy and Meaning in Our Practice?  
*Speakers: Susan Martinelli, MD and Kevin Ng, MD, MA*

**9:30 am – 11:00 am**  
Panel: Pupillometry: An Eye into Anesthesia, Pain, and The Brain  
*Moderator: James Eisenach, MD*

- Development of Portable Infrared Portable Pupillometers and Their Applications in Anesthesiology  
  *Merlin Larson, MD*

- Pupillary Reflex Dilation in Anesthetized and Awake Subjects  
  *Sergio Vide, MD*

- The Use of Pupillometry to Measure Opioid Effect in Awake Patients  
  *Rachel Eshima-McKay, MD*

- Pupillometry As A Measure of Locus Coeruleus Activity and Its Importance To Recovery After Surgery  
  *James Eisenach, MD*

**9:30 am – 11:00 am**  
Panel: SOAP: Lost Mothers: Addressing Racial/Ethnic Disparities in Peripartum Outcomes  
*Moderator: Paloma Toledo, MD, MPH*

Identification of racial/ethnic disparities in maternal morbidity and mortality: measurement issues
Robert White

Approaches for reducing racial/ethnic disparities in peripartum care

Paloma Toledo

Institutional strategies to address and reduce disparities

Renee Navarro

9:30 am – 11:00 am  Panel: STA: Advances and Applications of Technology in Pediatric Anesthesia: Apps, Analytics, Airways, Augmented Reality, and More

Moderator: Allan Simpao, MD, MBI

Bending Reality While Mending Children: Advances in Augmented and Virtual Reality for Pediatric Care

Sam Rodriguez, MD

Innovations in Pediatric Airway Devices, Registries, and Research: Current State & Future Directions

Anner Garcia-Marcinkiewicz, MD

Apps, AIMS, and EHRs, Oh My: How Can Technology Help Me Take Better Care of Anesthetized Children?

Clyde Matava, MBChB, DA, MMed

Where You Live Matters: Leveraging Geographic Info. Systems and EHRs to Improve Peds Periop Care

Jonathan Tan, MD, MPH

Machine Learning in Medicine: Where to Start? Where We Are Going?

Samir Kendale, MD

9:30 am – 11:00 am  Panel: SCA: Respecting the Right Ventricle: Right Ventricle Failure Pathophysiology, Diagnostics and Addressing Patient Management

Moderator: Jennifer Hargrave, DO, FAOCA, FASA

Perfusion of the Right Ventricle and Pathophysiology of Right Ventricle Failure

Michele Sumler, MD

Diagnosing Right Ventricular Failure: Updates Regarding Hemodynamic and Echocardiographic Assess

Andrej Alfirevic, MD

Pharmacological Management of Right Ventricular Failure

Andre Denault, MD PhD
Rescuing the Failing Right Ventricle with Temporary Right Ventricle Mechanical Support
Albert Cheung, MD

10:30 am – 11:15 am  RCL: Development, Reporting and Evaluation of Practice Guidelines and Consensus Statements
Speaker: Honorio Benzon, MD

10:30 am – 11:30 am  PBLD: What is New in Management of Cirrhotic Patient for a TIPS Procedure?
Speaker: Marina Moguilevitch, MD

10:30 am – 11:30 am  PBLD: SNACC: The Weekend Spine Trauma Patient, It's No 'Big Deal'
Speaker: Letha Mathews, MD

11:30 am - 1:00 pm  IARS Poster Session F: Facilitated Discussion Session

1:00 pm – 2:00 pm  PBLD: SCA: The Noncardiac Surgical Patient with Right Ventricle Dysfunction and Pulmonary Hypertension
Speakers: Kamrouz Ghadimi, MD and Jennifer Hargrave, DO, FAOCA, FASA

1:00 pm – 2:00 pm  PBLD: What are ALIF, OLIF, PLIF, TLIF and XLIF? Challenge in Acute Pain Management for Spinal Fusion Surgeries
Speakers: Daniel Burkhardt, MD and Sakura Kinjo, MD

1:30 pm – 3:00 pm  Panel: Study Designs That Give More Juice for the Squeeze
Moderator: Karthik Raghunathan, MD, MPH

Design and Analysis of Studies with Composite Outcomes: Non-Randomized and Randomized
Edward Mascha, PhD

Novel Trial Designs
Duminda Nalaka Wijeysundera, MD, FRCP

Causal Inference in Observational Studies
Vijay Krishnamoorthy, MD, PhD

1:30 pm – 3:00 pm  Panel: SOAP: Point-of-Care Assessment: The Next Frontier in Obstetric Anesthesiology
Moderator: Jennifer Lucero, MD, MA

Point-of-Care Ultrasound in Obstetrics
Clemens Ortner, MD, MS, DESA
Using Point-of-Care Coagulation Testing to Optimize Transfusion Decision-Making in Obstetrics

*Alexander Butwick, MBBS, FRCA, MS*

Incorporating Ultrasound for Neuraxial Block Placement in Mothers with Difficult Backs

*Brendan Carvalho, MBBCh, FRCA*

1:30 pm – 3:00 pm  **Panel: How Mentorship and Sponsorship Can Make or Break Your Career in Academic Anesthesiology: Practical Tips for Success**

*Moderator: Mark Rollins, MD, PhD*

Choosing a Mentor and Creating a Mentorship Network

*Catherine Chen, MD, MPH*

Mentee-Driven Relationships and The Importance of Managing Up

*Solmaz Manuel, MD*

The Role of Sponsorship in Academic Career Success

*Jeanine Wiener-Kronish, MD*

Create Your Individual Development Plan

*Harriet Hopf, MD*

1:30 pm – 3:00 pm  **Panel: SPA & ESPA: Current Controversies in Pediatric Perioperative Care: An International Perspective**

*Moderator: Nina Deutsch, MD*

Updates on Gastric Emptying and Fasting Guidelines in Children

*Laszlo Vutskits, MD, PhD*

The Role of Intraoperative Monitoring in Relation to Cerebral Functioning After Surgery

*Jurgen de Graaff, MD, PhD*

Anesthesia After Concussion: Optimizing Care and Outcomes

*Monica Vavilala, MD*

3:00 pm – 4:00 pm  **PBLD: 'Put Me to Sleep, Doc, Just Don't Give Me Any of That ANESTHESIA!' What to do with My Patients Concerned About Possible Cognitive Effects of Anesthesia**

*Speaker: Karl Poterack, MD*
3:00 pm – 4:30 pm  **Innovative Session: SAMBA: Ambulatory Anesthesia in the Future**  
*Moderator: Niraja Rajan, MD*

*Speakers: Richard Urman, MD, MBA, Girish Joshi, MB BS, MD, FFARCSI, and Niraja Rajan, MD*

3:00 pm – 4:30 pm  **Panel: SAM: Environmentally Sustainable Anesthesia Practice**  
*Moderator: Rakesh Sondekoppam, MD*

*Speakers: Timur Ozelsel, MD DESA, Maria Alexandra Petre, FRCP, and Vivian Ip, MBChB FRCA*

3:00 pm – 4:30 pm  **Panel: Skeletal Muscle - Undervalued Organ System**  
*Moderator: Stefan Schaller, MD*

- Perioperative Muscle Wasting - Clinically Relevant?  
  *Steffen Weber-Carstens, MD*

- Intensive Care Unit Acquired Weakness - Pathophysiology and Clinical Relevance  
  *Carol Hodgson, PT*

- Early Mobilization on the ICU - Definitions and Evidence  
  *Stefan Schaller, MD*

- Nutrition and Functional Recovery of Critically Ill Patients  
  *Christian Stoppe, MD*

3:00 pm – 4:30 pm  **Panel: The Data Gap in Clinical Pain Medicine**  
*Moderator: Jennifer Hah, MD, MS*

- The Interface of Traditional and Machine-Learning Approaches to Assess Persistent Post-Surgical Pain  
  *Jennifer Hah, MD, MS*

- Spine Pain Mechanistic Phenotyping  
  *Andrea Nicol, MD*

- Electronic Health Data Challenges and Applications in Pain Medicine Research and Treatment  
  *Meredith Adams, MD, MS*