

IARS Annual Meeting and International Science Symposium

May 17–20, 2019 • Montreal

IARS Annual Meeting Program, Friday, May 17

3:00 pm - 5:00 pm

A&A, Anesthesiology, BJA & CJA Symposium

Research Highlights and Future Priorities: Perspectives of Journal Editors

Moderated by *Colleen Koch, MD, MS, MBA, FACC, The Johns Hopkins University School of Medicine*

CJA

Gregory L. Bryson, MD, MSc, University of Ottawa, The Ottawa Hospital

BJA

Hugh Hemmings, MD, PhD, FRCA, Weill Cornell Medical College

A&A

Angela Enright, OC, MB, FRCPC, University of British Columbia; Royal Jubilee Hospital

Anesthesiology

Evan Kharasch, MD, PhD, Duke University School of Medicine

5:15 pm - 6:45 pm

Panel

Peri-Operative Myocardial Injury and Infarction: Pathophysiology, Prognosis and Treatment

Moderated by *W. Scott Beattie, MD, PhD, FRCPC, University of Toronto Faculty of Medicine*

Pathophysiology of Perioperative Myocardial Injury and Infarction

Giora Landesberg, MD, DSc, MBA, Hadassah Women's Organization, Hadassah - Hebrew University Medical Center

Should We Measure Cardiac Biomarkers before and after Surgery?

Peter Nagele, MD, MSc, University of Chicago Medicine

Treatment Options for Myocardial Injury or Infarction after Noncardiac Surgery

Duminda Nalaka Wijeyesundera, MD, PhD, FRCPC, University of Toronto Faculty of Medicine

*Additional Fee to attend, limited attendance, pre-registration required

**Limited Attendance, pre-registration required

Friday, May 17, continued

5:30 pm - 6:30 pm

Scholars' Program Mentoring and Networking Reception

7:00 pm - 8:30 pm

Taste of Montreal Session 1**

If you haven't already, be sure to pre-register for this intimate dining experience at the registration desk. Space is limited; dinner costs are the responsibility of each attendee.

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**Limited Attendance, pre-registration required

IARS Annual Meeting Program, Saturday, May 18

6:45 am - 7:45 am

General Continental Breakfast

Come meet your fellow anesthesiologists over a cup of coffee – you never know who you'll run into!

6:45 am - 7:45 am

Planning for Retirement Continental Breakfast**

It's never too early (or late) to start planning for retirement. Come talk to others about steps you can take to make sure you're ready! Pre-registration required.

6:45 am - 7:45 am

IARS First-Time Attendee Continental Breakfast**

If you've never been to the IARS Annual Meeting (or you just want a few pointers) here's your chance to learn from the experts how to get the most from your Annual Meeting experience. Pre-registration required.

8:00 am - 9:30 am

Opening Session and T.H. Seldon Memorial Lecture

The Global Anesthesia and Surgical Crisis: What Can We Do?

Welcome Address

Colleen Koch, MD, MS, MBA, FACC, The Johns Hopkins University School of Medicine

Introduction

Davy Cheng, MD, MSc, FRCPS, FCAHS, CCPE, IARS Board of Trustees; WFSA Chair, Scientific Affairs Committee

The Global Anesthesia and Surgical Crisis: What Can We Do?

Jannicke Mellin-Olsen, MD, DPH, Baerum Hospital; President-Elect WFSA

8:30 am - 9:30 am

IARS Poster Setup-01

9:30 am - 1:00 pm

IARS Poster Session-01

10:00 am - 10:15 am

Scholars' Program: Introduction*

Julie K. Freed, MD, PhD, Medical College of Wisconsin; Aaron Norris, MD, PhD, Washington University School of Medicine

10:00 am - 10:45 am

Review Course Lecture

The ASRA Regional and Pain Anticoagulation Guidelines

Honorio Benzon, MD, Northwestern University Feinberg School of Medicine

Aryeh Shander, MD, FCCM, FCCP, FASA, Englewood Hospital and Medical Center

10:00 am - 11:00 am

Problem-Based Learning Discussion

Multiple Challenges during Trans-Catheter Pulmonary Valve Implantation for Severe Stenosis and Regurgitation of an RV to PA Conduit **

Sheela Pai Cole, MD, Stanford University School of Medicine

Hosted by *Mounir Banoub, MD, MBA, CPE, FAAPL, FASA, Children's Hospital of Georgia*

Augusta University Medical Center

10:00 am - 11:00 am

Problem-Based Learning Discussion

Let Me Outta Here! Can There Be AMA Discharge from PACU? **

Karl Poterack, MD, Mayo Clinic

Hosted by *Linda Liu, MD, University of California, San Francisco School of Medicine*

10:00 am - 11:30 am

Panel

Nudging Physicians to Change Behavior: The Theory, Conduct, and Critical Assessment of Nudge-Type Interventions

Moderated by *Craig S. Jabaley, MD, Emory University Hospital*

Behavioral Change in Perioperative Quality Improvement: Lessons from the Business World

Grant Lynde, MD, MBA, Emory University School of Medicine

Applications of Nudge Theory in the Anesthesiology and Perioperative Domains

Craig Steven Jabaley, MD, Emory University School of Medicine

Implementation and Assessment of Nudge Type and Other Quality Improvement Interventions

Vikas N O'Reilly-Shah, MD, PhD, Emory University School of Medicine

Saturday, May 18, continued

10:00 am - 11:30 am

Panel

Information Technology, Decision Support, Machine Learning, and Artificial Intelligence: How They Will Transform the Practice of Anesthesiology

Moderated by *Ronald Pearl, MD, PhD, Stanford University School of Medicine*

Use of Information Technology and Decision Support in Anesthesiology

Warren S. Sandberg, MD, PhD, Vanderbilt University School of Medicine

Closed-Loop Anesthesia Administration

Thomas Hemmerling, MD, MSc, DEAA, McGill University

Machine Learning for Improving Management of Acute and Chronic Pain

Timothy T. Houle, PhD, Massachusetts General Hospital

The Future of Artificial Intelligence and Its Impact on Anesthesiology

Steven L. Shafer, MD, Stanford University School of Medicine

10:00 am - 12:00 pm

AUA Symposium

Anesthesia and Consciousness: How Investigations of the Anesthetized State Shape Current Concepts of Consciousness

Moderated by *Ines P. Koerner, MD, PhD, Oregon Health & Science University*

The Controversial Correlates of Consciousness

George A. Mashour, MD, PhD, University of Michigan Medicine

Consciousness, Sensory Disconnection and Anesthesia

Robert Sanders, MBBS, PhD, FRCA, University of Wisconsin School of Medicine and Public Health

Subcortical Arousal Systems and Emergence from General Anesthesia

Ken Solt, MD, Harvard Medical School; Massachusetts General Hospital

Using Anesthesia to Probe Disorders of Consciousness

Stefanie Blain-Moraes, PhD, McGill University

10:15 am - 11:15 am

Scholars' Program

Establishing Independence, Building an Academic Career through Innovations in Research and Education*

Moderated by *Vivianne Tawfik, MD, PhD, Stanford University School of Medicine*

Edward Sherwood, MD, PhD, Vanderbilt University Medical Center

Sean Mackey, MD, PhD, Stanford University School of Medicine

Colleen Koch, MD, MS, MBA, FACC, Johns Hopkins School of Medicine

11:30 am - 12:00 pm

IARS Break in Poster Room

11:30 am - 12:30 pm

Scholars' Program

Navigating and Conducting Pragmatic Clinical and Translational Trials for Research*

Moderated by *Kristin L. Schreiber, MD, PhD, Brigham and Women's Hospital; Harvard Medical School*

Vafi Salmasi, MD, Stanford University School of Medicine

Hance Clarke, MD, PhD, University of Toronto; Toronto General Hospital

12:00 pm - 12:45 pm

Review Course Lecture

The Development, Use, and Limitations of Standards, Guidelines and Best Practices

Hosted by *Roman Schumann, MD, Tufts Medical Center*

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

12:00 pm - 1:00 pm

Problem-Based Learning Discussion

Tonsillectomy in Obese Children with Down Syndrome: Not Just Another T&A!**

Hosted by *Kumar G. Belani, MBBS, MS, University of Minnesota*

Wilson T. Chimbira, MD, FRCA, University of Michigan Medicine

Olubukola O. Nafiu, MD, FRCA, MS, University of Michigan Medicine

12:00 pm - 1:00 pm

Problem-Based Learning Discussion

Random Drug Testing in Anesthesia: Prevention and Protection or Invasive and Generation of a Slippery Slope?***

Hosted by *Keith Baker, MD, PhD, Massachusetts General Hospital*

Mark Rice, MD, Vanderbilt University School of Medicine

Richard C. Prielipp, MD, University of Minnesota

Saturday, May 18, continued

12:00 pm - 1:30 pm

Panel

Physician Wellness in Hospital Medicine: Thriving, Not Simply Surviving

Moderated by *Santhanam Suresh, MD, Ann & Robert H. Lurie Children's Hospital of Chicago*

Physician Wellness in Hospital Medicine: Thriving, Not Simply Surviving

Santhanam Suresh, MD, Ann & Robert H. Lurie Children's Hospital of Chicago

Creating a Culture of Wellness

Anne Boat, MD, Ann & Robert H. Lurie Children's Hospital of Chicago

Improving Practice Efficiency

Jeffery S. Vender, MD, The University of Chicago Medicine

Becoming a More Resilient Physician

Gregory B. Hammer, MD, Stanford University School of Medicine

12:00 pm -1:30 pm

WFSA and IARS Panel

Controversies in Global Health

Moderated by *Davy Cheng, MD, MSc, FRCPS, FCAHS, CCPE, WFSA Scientific Affairs Committee*

Surgical Safety Checklist: Impact on Postoperative Outcomes

Janet Martin, MSc (HTA&M), PharmD, Western University; MEDICI Centre

Perioperative FiO₂ on Postoperative Morbidity and Wound Infection

Janet Martin, MSc (HTA&M), PharmD, Western University; MEDICI Centre

Global Perspective on Task-Sharing in Anesthesia

Jannicke Mellin-Olsen, MD, DPH, Baerum Hospital

Saturday, May 18, continued

12:00 pm -1:30 pm

SOCCA Panel

Towards Precision Medicine Intensive Care Unit

Moderated by *Robert David Stevens, MD, FCCM, Johns Hopkins University School Of Medicine*

Clinical Informatics for Predictive and Prognostic Modeling in the ICU

Vitaly Herasevich, MD, PhD, Mayo Clinic

Omics Applications in Neurotrauma Research: From Pathobiology to Treatment

Alan I. Faden, MD, University of Maryland School of Medicine

Machine Learning in Intensive Care Medicine

Robert David Stevens, MD, FCCM, Johns Hopkins School of Medicine

The NIH All of Us Precision Health Initiative

Sachin Kheterpal, MD, MBA, University of Michigan Medicine

12:30 pm - 2:00 pm

Scholars' Program Lunch

Promoting Your Career Advancement through Research and Education*

Moderated by *Michael Montana, MD, Washington University School of Medicine*

Ronald B. George, MD, FRCPC, Dalhousie University

Alex Evers, MD, Washington University School of Medicine

1:30 pm - 2:00 pm

IARS Poster Setup-02

1:30 pm - 2:30 pm

Lunch On Your Own

2:00 pm - 2:30 pm

Scholars' Program

Networking and Collaboration*

Moderated by *Amie Privratsky, MD, PhD, Duke University Medical Center*

2:00 pm - 5:00 pm

IARS Poster Session-02

2:00 pm - 5:00 pm

Workshop

Reflections on the Balancing Act Between Work and Life*

Moderated by *Guelay Bilen-Rosas, MD, University of Wisconsin School of Medicine and Public Health*

Guelay Bilen-Rosas, MD, University of Wisconsin School of Medicine and Public Health

James Fehr, MD, Washington University School of Medicine

Myron Yaster, MD, University of Colorado Denver School of Medicine

Kathrine Keech, MD, University of Iowa

Martha Wynn, MD, University of Wisconsin School of Medicine and Public Health

Norah R. Janosy, MD, University of Colorado Denver School of Medicine

2:30 pm - 3:15 pm

Review Course Lecture

Pain Outcomes, Patient Registries and Learning Health Systems: Delivery of Best Pain Care at Lower Cost

Hosted by *Danielle Ludwin, MD, Columbia University Medical Center*

Sean Mackey, MD, PhD, Stanford University School of Medicine

2:30 pm - 3:30 pm

SNACC Problem-Based Learning Discussion

Anesthesia for Stroke: Challenges and Opportunities**

Hosted by *Lauren Berkow, MD, University of Florida College of Medicine*

Shobana Rajan, MD, Cleveland Clinic

2:30 pm - 4:00 pm

ISPCOP Panel

Fables, Facts and Best Practice Updates: The Patient with Obesity

Moderated by *Roman Schumann, MD, Tufts University School of Medicine*

NPO Assessment in the Obese Patient: When Ultrasound Can Help and How to Do It: Any Evidence?

Peter B.C. Van de Putte, MD, AZ Monica campus Deurne

Non-Invasive Hemodynamic Monitoring in Obese Patients: A Challenge, and What Do We Know?

Roman Schumann, MD, Tufts Medical Center

Antibiotics, Heparins and Vasopressors: Evidence-Based Optimized Dosing Guidance

Luc De Baerdemaeker, MD, PhD, Ghent University Hospital; UZ Gent Hospital

Intubation and Extubation for the Obese Patient: Myths and Safe Approaches

Tiffany Moon, MD, University of Texas Southwestern

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Saturday, May 18, continued

2:30 pm - 4:00 pm

SOAP Panel

Attaining the Opioid-Free Cesarean Delivery

Moderated by *Brendan Carvalho, MBBCh, FRCA, Stanford University School of Medicine*

Opioid Use after Cesarean Delivery

Brendan Carvalho, MBBCh, FRCA, Stanford University School of Medicine

In-Hospital Opioid-Sparing Multimodal Analgesic Techniques

Pervez Sultan, MD, MB, ChB, FRCA, University College London Hospital

Changing Opioid Prescription Patterns after Cesarean Delivery

Brian Bateman, MD, MSc, Brigham and Women's Hospital

2:30 pm - 4:00 pm

SAMBA Innovative Session

Wait, You Can't Do That: Or Can You? Controversies in Ambulatory Anesthesia

Moderated by *Niraja Rajan, MD, Penn State Milton S. Hershey Medical Center*

Girish P. Joshi, MB BS, MD, FFARCSI, University of Texas Southwestern Medical Center

Richard D. Urman, MD, MBA, CPE, FASA, Brigham and Women's Hospital; Harvard Medical School

2:45 pm - 3:45 pm

Scholars' Program

Preparing for the Future of Anesthesiology Now*

Moderated by *Kate Gurba, MD, PhD, Washington University School of Medicine*

Beverly A. Orser, MD, PhD, FRCPC, University of Toronto Faculty of Medicine

George A. Mashour, MD, PhD, University of Michigan Medicine

4:00 pm - 4:30 pm

IARS Break in Poster Room

4:30 pm - 5:15 pm

SOCCA Review Course Lecture

Reducing Variation in Red Blood Cell Transfusions: Are We Making Progress?

Hosted by *Angus Christie, MD, Spectrum Healthcare Partners*

Stephen D. Surgenor, MD, Dartmouth Hitchcock Health Anesthesiology and Critical Care Medicine

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**Limited Attendance, pre-registration required

4:30 pm - 5:30 pm

Problem-Based Learning Discussion

Perioperative Pain Management in Patients on Buprenorphine**

Hosted by *Ruth Landau, MD, Columbia University Medical Center*

Daniel Burkhardt, MD, University of California, San Francisco School of Medicine

Sakura Kinjo, MD, University of California, San Francisco School of Medicine

4:30 pm - 6:00 pm

eSAS Panel

Getting Beyond the Anesthesiology Department: Broad Impact through Broad Thinking

Moderated by *Michael R. Mathis, MD, University of Michigan Medicine*

Collaboration with Surgeons: Opportunities for Perioperative Data to Enhance Surgical Registries

Michael R. Mathis, MD, University of Michigan Medicine

Collaboration with Primary Care: Opportunities to Improve Long-Term Cardiovascular Disease Risk

Robert B. Schonberger, MD, MHS, Yale School of Medicine

Collaboration with Pharmacists: Opportunities to Refine Medication Selection, Dosing and Delivery

Shamsuddin Akhtar, MD, MBBS, Yale University School of Medicine

4:30 pm - 6:30 pm

International Science Symposium

Dementia: Let's Stop Losing Our Minds

Moderated by *Christian P. Werner, MD, Medical Center of Johannes Gutenberg- Universität*

Dementia Update: What's New in the Field

Sandra E. Black, O.C., O.Ont., MD, FRCP(C), FRSC, FAAN, FAHA, University of Toronto

Critical Illness: What Matters is the Mind

E. Wes Ely, MD, PhD, Vanderbilt University School of Medicine

Mechanisms of Mind Loss: The Clock is Ticking

Erik S. Musiek, MD, PhD, Washington University School of Medicine

Saturday, May 18, continued

4:30 pm - 6:30 pm

Innovative Session

A Walking History of Medicine in Montreal: Osler, Penfield and Bethune

Moderated by *Michael Aaron Chyfetz, MD, MSc, Montefiore Medical Center / Albert Einstein College of Medicine*

Daniel Chartrand, MD, PhD, FRCPC, Montreal Neurological Hospital

5:00 pm - 6:00 pm

IARS Poster Breakdown-02

5:30 pm - 6:15 pm

SOCCA Review Course Lecture

What Is the Magic Number? Blood Pressure Thresholds in the Operating Room, ICU and Beyond

Hosted by *Peter Von Homeyer, MD, FASE, University of Washington School of Medicine*

Ashish K. Khanna, MD, FCCP, FCCM, Wake Forest University School of Medicine

6:30 pm - 8:00 pm

Celebration of Science Reception

Join us in the Poster Room at XXX to raise a glass with friends you know - and the ones you haven't met yet!

IARS Annual Meeting Program, Sunday, May 19

6:00 am - 7:00 am

General Continental Breakfast

Come meet your fellow anesthesiologists over a cup of coffee – you never know who you'll run into!

6:00 am - 7:00 am

International Connections Continental Breakfast**

What's better than starting the day with a cup of coffee (or tea!) and fellow anesthesiologists from around the world? Pre-registration required.

6:00 am - 7:00 am

Women in Anesthesia Continental Breakfast**

Sorry fellas, this one is ladies only please! Pre-registration required.

7:00 am - 9:00 am

Kosaka Best of Meeting Abstract Awards Session

8:30 am - 9:30 am

IARS Poster Setup-03

9:00 am - 9:30 am

Break

9:30 am - 10:30 am

SASM Problem-Based Learning Discussion

Perioperative Care of the Patient with OSA**

Hosted by *Dawn Dillman, MD, Oregon Health and Science University*
Crispiana Cozowicz, MD, Hospital for Special Surgery

9:30 am - 10:30 am

SAMBA Problem-Based Learning Discussion

Ambulatory Anesthesia: Common Problems during Pediatric Care**

Kumar G. Belani, MD, President-Elect, SAMBA; University of Minnesota Masonic Children's Hospital

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**Limited Attendance, pre-registration required

Sunday, May 19, continued

9:30 am - 11:00 am

Panel

The Enterprise Electronic Medical Record Data Access Problem: How to Build a Perioperative Data Warehouse for Quality Improvement, Reporting, and Research

Moderated by *Richard H. Epstein, MD, Anesthesia Information Systems Clinical Anesthesiology*

Where's Waldo? Deconstructing a Complex EMR to Build a Perioperative Data Warehouse

Ira Hofer, MD, University of California, Los Angeles David Geffen School of Medicine

Holding on to the Baby When IT Throws Out the Bathwater: Maintaining Your Existing Data Warehouse

Jonathan Wanderer, MD, Vanderbilt University School of Medicine

Making Lemonade When All You Get Are Lemons: Building a Data Warehouse in the Face of IT Roadblocks

Paul Potnuru, MD, University of Miami - Miller School of Medicine

Getting to Yes: How to Convince Your IT Department to Support Your Data Warehouse Project

Mohamed Rehman, MD, Johns Hopkins All Children's Hospital

9:30 am - 11:30 am

SNACC Panel

Opioid-Free Anesthesia: Biologic Basis and Potential Applications in Neurosurgical Anesthesiology

Moderated by *Dhanesh Kumar Gupta, MD, Duke University School of Medicine*

Mechanisms of Opioid Induced Hyperalgesia and Possible Future Therapeutic Approaches

Jianren Mao, MD, PhD, Harvard University

Clinical Use of Esmolol, Lidocaine, Dexmedetomidine, and Ketamine for Opioid Free Anesthesia

Helene Beloeil, MD, PhD, University Rennes INSERM Numecan CIC 1414

Is Remifentanil Essential for Neurosurgical Anesthesiology?

Dhanesh Kumar Gupta, MD, Duke University School of Medicine

9:30 am - 11:00 am

APSF Panel

Can We Eliminate Medical Errors in the Operating Room?

Moderated by *Richard Prielipp, MD, MBA, FCCM, University of Minnesota Medical School; APSF Board of Directors*

Perioperative Medication Errors: What is the Scope of the Problem?

Karen C. Nanji, MD, MPH, Harvard Medical School; Massachusetts General Hospital

Eliminating Medication Errors using Process Design

Eliot Grigg MD, University of Washington School of Medicine; Seattle Children's Hospital

There Has to Be a Better Way

Ken Catchpole, PhD, Medical University of South Carolina

Recommended Best Practices to Keep our Patients Safe, Expert Opinion Review

Joyce A. Wahr, MD, FAHA, University of Minnesota Medical School

9:30 am - 11:30 am

Symposium

The Evolution of Onco-Anaesthesia: Changing How We Care for the Cancer Surgery Patient

Moderated by *Julia Dubowitz, MBBS, Peter MacCallum Cancer Centre Anaesthesia*

Translational Research in Onco-Anaesthesia: Where Are We Likely to Find Meaningful Answers?

Julia Dubowitz, MBBS, Peter MacCallum Cancer Centre

Modulating the Perioperative Surgical Stress Response to Improve Outcomes in Cancer Patients

Bernhard Riedel, MBChB, FCA, FAHA, FASE, MMed., FANZCA, MBA, PhD, Peter MacCallum Cancer Centre

Making a Case for Specialized Onco-Anaesthesia for Perioperative Care of Cancer Surgery Patients

Vijaya Gottumukkala, MB, BS, MD(Anes), FRCA, The University of Texas MD Anderson Cancer Center

Modulating the Perioperative Surgical Stress Response to Improve Long Term Outcomes in Cancer Patients

Gregory Fischer, MD, Memorial Sloan Kettering Cancer

Expanding Onco-anaesthesia Research in the Era of Metadata

Juan Cata, MD, MD Anderson Cancer Center Anesthesiology and Perioperative Medicine

9:30 am - 12:30 pm

Workshop

Advanced Perioperative Ultrasound: Ultrasound Findings in Life-Threatening Perioperative Emergencies**

Moderated by *Julia B. Sobol, MD, Columbia University Medical Center; New York-Presbyterian Hospital*

Paul D. Weyker, MD, Kaiser Permanente Medical Group of Northern California

David Kiamanesh, MD, Stony Brook University School of Medicine

Oliver Panzer, MD, Columbia University Medical Center; New York-Presbyterian Hospital

Cortessa Russell, MD, Columbia University Medical Center; New York-Presbyterian Hospital

James A. Osorio, MD, Weill Cornell Medical Center

10:00 am - 1:00 pm

IARS Poster Session-03

11:00 am - 11:30 am

IARS Break in Poster Room

11:30 am - 12:15 pm

Review Course Lecture

Airway Management of the Obstetric Patient: What's New?

Hosted by *Thomas Hemmerling, MD, MSc, DEAA, McGill University*

Sonia Vaida, MD, Penn State Milton S. Hershey Medical Center

11:30 am - 12:30 pm

Problem-Based Learning Discussion

Pulmonary Alveolar Hemorrhage in a Patient with Short-Term Ventricular Assist Device Awaiting Heart Transplantation**

Hosted by *Michael Murray, MD, Geisinger Medical Center*

Gebhard Wagener, MD, Columbia University Medical Center

Amy Wang, MD, Columbia University Medical Center

11:30 am - 12:30 pm

Problem-Based Learning Discussion

Updates to Perioperative Management of the Left Ventricular Assist Device Patient Presenting for a Non-Cardiac Procedure**

Hosted by *Christopher Patrick Henson, DO, Vanderbilt University School of Medicine*

Sathish S. Kumar, MD, University of Michigan Medicine

Michael R. Mathis, MD, University of Michigan Medicine

Sunday, May 19, continued

11:30 am - 1:00 pm

Panel

Understanding Observational Studies: Updates from Perioperative Epidemiologists

Moderated by *Karthik Raghunathan, MD, MPH, Duke University School of Medicine*

Hospital-Level Analyses

Duminda Nalaka Wijeyesundera, MD, PhD, FRCPC, University of Toronto Faculty of Medicine

Studies That Use Propensity Scores

W. Scott Beattie, MD, PhD, FRCPC, University of Toronto Faculty of Medicine

Natural Experiments

Vijay Krishnamoorthy, MD, PhD, Duke University School of Medicine

11:30 am - 1:00 pm

SOCCA Panel

Critical Care Anesthesiologist & Acute Care Continuum of Complex Stroke Patient

Moderated by *Ozan Akca, MD, FCCM, University of Louisville Hospital*

Management of Acute Complex Stroke: From Emergency Room to the Interventional Suite

Miguel Cobas, MD, FCCM, University of Miami, Jackson South Medical Center

Should I Do MAC or General Anesthesia for My Thrombectomy Patient?

Jerrad Robert Businger, D.O., University of Louisville

Where to Admit the Acute Complex Stroke Patient after Thrombectomy?

Alexander C. Fort, MD, University of Miami Miller School of Medicine

Perioperative Stroke: Diagnostics, Prevention & Management

Phillip Vlisides, MD, University of Michigan Medicine

Critical Care Anesthesiologist's Role from ER to IR to the ICU: The MVP of Acute Complex Stroke

Ozan Akca, MD, FCCM, University of Louisville Hospital

Sunday, May 19, continued

11:30 am - 1:00 pm

SmartTots Panel

Anesthesia and Neurotoxicity: A Conundrum for Clinicians

Moderated by *Lena Sun, MD, MPH, Columbia University College of Physicians and Surgeons*

Clinical Studies: Do We Have an Answer?

Mary McCann, MD, MPH, Harvard University School of Medicine

Preclinical Studies: Are These Models Reliable?

Jeffrey Sall, PhD, MD, University of California, San Francisco School of Medicine

Can We Tie the Preclinical Data to Clinical Data?

David O. Warner, MD, Mayo Clinic College of Medicine and Science

1:00 pm - 2:00 pm

IARS Lunch on Your Own

1:00 pm - 1:30 pm

IARS Poster Breakdown-03

1:30 pm - 2:00 pm

IARS Poster Setup-04

2:00 pm - 2:45 pm

Review Course Lecture

Cardiovascular Outcomes in Transcatheter Aortic Valve Replacement: Implications for Anesthesiology

Hosted by *Miko Enomoto, MD, Oregon Health & Science University*

John G. Augoustides, MD, FASE, FAHA, Perelman School of Medicine, University of Pennsylvania

Harish Ramakrishna, MD, FACC, FESC, FASE, Mayo Clinic College of Medicine

2:00 pm - 3:00 pm

Problem-Based Learning Discussion

Perioperative Management of the Patient with Type 2 Diabetes: From Guidelines to Individualized Patient Care**

Elizabeth Watson Duggan, MD, Emory University School of Medicine

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**Limited Attendance, pre-registration required

2:00 pm - 3:00 pm

Problem-Based Learning Discussion

Heroin for Labor Pain: What Are You Smoking or How to Get Controversial Research through the IRB**

Hosted by *Kim Mauer, MD, School of Medicine, Oregon Health & Sciences University*
Michael H. Andreae, MD, Penn State Health Milton S. Hershey Medical Center

2:00 pm - 3:30 pm

STA Panel

Beyond the Hype: Emerging Technologies and Their Potential to Improve Anesthesia Education, Research, and Care Delivery

Moderated by *Kai Kuck, PhD, President, STA; University of Utah*

Anesthesia Technology: We Can See the Future

Kai Kuck, PhD, President, STA; University of Utah

Blockchain and Anesthesia: Moving Beyond Bitcoin to Enhance Patient Safety

John F. Pearson, MD, Beth Israel Deaconess Medical Center

Man vs. Machine--or Man plus Machine? Leveraging Machine Learning and AI to Improve Health Care

Parisa Rashidi, PhD, University of Florida College of Medicine

Using Virtual and Augmented Reality to Augment Anesthesia Education and the Patient Experience

Clyde Matava, MBChB, DA, MMed, Hospital for Sick Children

How Can Mobile, Wearable, and Internet of Things Technology Help Me to Help My Patients?

Jeff E. Mandel, MD, MS, Perelman School of Medicine, University of Pennsylvania

2:00 pm - 3:30 pm

SOCCA Panel

Sepsis-induced Coagulopathy: Mechanisms and Management

Moderated by *Wei Chao, MD, PhD, University of Maryland School of Medicine*

Coagulopathy in Sepsis: An Overview

Jean-Francois Pittet, MD, The University of Alabama at Birmingham

Molecular Link between Inflammation and Coagulopathy in Sepsis

Brittney Williams, MD, University of Maryland School of Medicine

DIC in Sepsis: A Practical Approach

Jecko Thachil, MD, Manchester Royal Infirmary Haematology

Sunday, May 19, continued

2:00 pm - 5:00 pm

Workshop

Bootcamp for Brief Cognitive Assessment Skills in the Perioperative Setting**

Moderated by *Catherine Price, PhD, ABPP/CCN, University of Florida College of Medicine*

Franchesca Arias, PhD, University of Florida College of Medicine

2:00 pm - 5:00 pm

IARS Poster Session-04

2:00 pm - 6:00 pm

AUA, eSAS, IARS, FAER, MPOG, PACT & SOCCA: Initiative for Multicenter Pragmatic Anesthesiology Clinical Trials' (IMPACT)

2:00 pm - 6:00 pm

IARS and eSAS Leadership Development Symposium

Emotional Intelligence and the Innovative Leader

3:30 pm - 4:00 pm

IARS Break in Poster Room

4:00 pm - 5:00 pm

SNACC Problem-Based Learning Discussion

Perioperative Management of the Patient with Closed Head Injury for Non-Neurologic Procedure**

Letha Mathews, MD, Vanderbilt University Medical Center

4:00 pm - 5:00 pm

Problem-Based Learning Discussion

Perioperative Atrial Fibrillation: Challenges in Prevention and Management**

Kunal Karamchandani, MD, FCCP, Penn State Milton S. Hershey Medical Center

4:00 pm - 5:00 pm

Innovative Session

Anesthetic Management of Intraoperative Neurophysiologic Monitoring (IONM) Signal Changes: A Case-Based, Simulation-Driven Learning Experience

Moderated by *Colby G. Simmons, DO, MBA, University of Colorado School of Medicine*

Leslie Jameson, MD, University of Colorado School of Medicine

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**Limited Attendance, pre-registration required

Sunday, May 19, continued

4:00 pm - 5:30 pm

Panel

**Israel Society of Anesthesiologists & Israel Association of Obstetric Anesthesia
Obstetric Anesthesia in Israel: Modern Obstetric Anesthesia Challenges in Traditional Populations**

Moderated by *Yehuda Ginosar, BSc, MBBS, Hadassah Hebrew University Medical Center*

"Be Fruitful and Multiply": Anesthetic Challenges of High Order (>5) Cesarean Delivery

Alexander Ioscovich, MD, Shaare Zedek Medical Center, Hebrew University

**"In Sorrow Thou Shalt Bring Forth Children": Do Anesthetic Interventions Have a Role to Play
in Preventing Post-partum Depression?**

Sharon Orbach-Zinger, MD, Rabin Medical Center, Campus Beilinson, Tel-Aviv University

"Two Nations Are in Thy Womb": Health Care and Obstetric Anesthesia as a Bridge to Peace

Yehuda Ginosar, BSc MBBS, Hadassah Hebrew University Medical Center

4:00 pm - 5:30 pm

Panel

Encouraging the Next Generation of Women: Growing Junior Faculty as Leaders

Moderated by *Kathryn K. Lauer, MD, University of Wisconsin School of Medicine and Public Health*

**Using Emotional Intelligence and Mindful Communication to Gain (or Lose) Professional
Influence**

Elizabeth Watson Duggan, MD, Emory University School of Medicine

Less Experience, Fewer Published Works & Limited Resources: How Do I Gain Credibility?

Katie J. Schenning, MD, MPH, Oregon Health & Science University

Leading from Within: How to Build a Team while Managing Clinical Service Demands

Susan A. Smith, MD, The Ochsner Clinic

The Challenges in Leading Up, Down and Laterally

Mada Helou, MD, University Hospitals at Case Medical Center

Sunday, May 19, continued

4:00 pm - 6:00 pm

Symposium

Cell Death & Survival: Beyond Oxygenation

Moderated by *Mervyn Singer, MB BS, MD, FRCP(Lon), FRCP(Edin), FFICM, University College London*

Sepsis and Mitochondria

Mervyn Singer, MB BS, MD, FRCP(Lon), FRCP(Edin), FFICM, University College London

Exercise Preconditioning

Zhen Yan, MD, PhD, University of Virginia School of Medicine

Hibernating Animals and Stress

Quintin Jose Quinones, MD, PhD, Duke University Medical Center

Tying It All Together: Future Strategies and Therapy

Robert Thiele, MD, University of Virginia School of Medicine

6:00 pm - TBA

ISPCOP and McGill Anesthesia Networking Session

Exploring the Role of Prehabilitation and Patient Psychology in ERAS

Moderated by *Gabriele Baldini, MD, McGill University; Naveen Eipe, MD, The Ottawa Hospital*

Impact of Prehabilitation on ERAS

Francesco Carli, MD, McGill University

Preoperative Anxiety and Pain Management

Michael Sullivan, MD, McGill University

6:30 pm - 8:00 pm

Taste of Montreal Session 2**

If you haven't already, be sure to pre-register for this intimate dining experience at the registration desk. Space is limited; dinner costs are the responsibility of each attendee.

*Additional Fee to attend, limited attendance, pre-registration required

**Limited Attendance, pre-registration required

IARS Annual Meeting Program, Monday, May 20

6:15 am - 7:15 am

General Continental Breakfast

Come meet your fellow anesthesiologists over a cup of coffee – you never know who you'll run into!

6:15 am - 7:15 am

Marketing Yourself for Success Continental Breakfast

We know you're great, and it's time everyone else knows it, too. Come have coffee and a bagel while you pick up some marketing pointers.

6:15 am - 7:15 am

Trending Topics Continental Breakfast

Jump feet-first into the day with discussions about what's new, controversial, excited, and top-of-mind in anesthesia.

7:30 am - 8:15 am

SPAQI Review Course Lecture

Perioperative Troponin and MINS (Myocardial Injury after Noncardiac Surgery)

Hosted by *Ashish K. Khanna MD, FCCP, FCCM, Wake Forest University School of Medicine*
Steven L. Cohn, MD, FACP, SFHM University of Miami Miller School of Medicine

7:30 am - 8:30 am

Problem-Based Learning Discussion

Rib Fracture Pain Management: Controversies and Conundrums

Naveen Eipe, MD, The Ottawa Hospital

7:30 am - 8:30 am

Problem-Based Learning Discussion

Facts and Myths of Hyperkalemia

Corey S. Scher, MD, New York University School of Medicine

Monday, May 20, continued

7:30 am - 9:00 am

TAS, SOAP, SPA, and SAGA Panel

Trauma Anesthesia for Special Populations; Obstetric, Pediatric and Geriatric Patients

Moderated by *Michael Murray, MD, Geisinger Medical Center*

Trauma Anesthesia in Obstetrical Patients

Manuel C. Vallejo, MD, DMD, West Virginia University

Management of Pediatric Patients Who Have Sustained Trauma

David A. Young, MD, Baylor College of Medicine; Texas Children's Hospital

Anesthesia in Geriatric Trauma Patients

Maurice Francis Joyce, III MD, EdM, Alpert Medical School of Brown University

7:30 am - 9:30 am

Symposium

Intraoperative Opioids: Postoperative Consequences, Opioid-Free Anesthesia and Nociception-Index Guided Administration

Moderated by *Philippe Richebé, MD, PhD, University of Montreal*

Opioid-Induced Tolerance and Hyperalgesia in Perioperative Medicine

Martin S. Angst, MD, Stanford University School of Medicine

Opioid-Free Anesthesia: Future Direction?

Patricia Marie Lavand'homme, MD, PhD, Cliniques Universitaires Saint Luc

Intraoperative Nociception Monitors: Better Opioid Administration for Better Outcomes?

Philippe Richebe, MD, PhD, University of Montreal

9:00 am - 9:30 am

IARS Break

9:30 am - 10:15 am

ISPCOP Review Course Lecture

Ambulatory Surgery in Morbid Obesity: Quo Vadis?

Hosted by *Satya Krishna Ramachandran, FRCA, Harvard Medical School*

Naveen Eipe, MD, The Ottawa Hospital

9:30 am - 10:30 am

Problem-Based Learning Discussion

What Is New in Management of Cirrhotic Patient for a TIPS Procedure?

Marina Moguilevitch, MD, Montefiore Medical Center

9:30 am - 10:30 am

SAGA Problem-Based Learning Discussion

My Patient Is 92 Years Old, Has a DNR, and Wants to Have Elective Shoulder Surgery!

Sylvia H. Wilson, MD, Medical University of South Carolina

Julie McSwain, MD, Medical University of South Carolina

9:30 am - 11:00 am

Panel

Anesthesia and Sensory Awareness: How Mechanism May Inform Clinical Practice

Moderated by *Max B. Kelz, MD, PhD, Perelman School of Medicine, University of Pennsylvania*

Unconsciousness, Sensory Disconnection and Predictive Coding: Why It Matters to the Anesthesiologist

Robert Sanders, MBBS, PhD, FRCA, University of Wisconsin School of Medicine and Public Health

Spatiotemporal Waves of Cortical Activity Are Evoked by Sensory Stimuli in the Anesthetized Brain

Alex Proekt, MD, PhD, Perelman School of Medicine, University of Pennsylvania

Cortical Networks Mediating Auditory Predictive Coding: Changes Across Awareness States

Matthew Banks, PhD, University of Wisconsin School of Medicine and Public Health

Thalamocortical Circuit Activation: Good or Evil?

Aeyal Raz, MD, PhD, University of Wisconsin School of Medicine and Public Health

9:30 am - 11:00 am

Panel

Anesthesiologists as Monitors of Physiology: Remote Monitoring of Postoperative and High-Risk Patients

Moderated by *Jeanine P. Wiener-Kronish, MD, Massachusetts General Hospital*

Remote Monitoring: Updates and Future Studies

Jeanine P. Wiener-Kronish, MD, Massachusetts General Hospital

Results of One Year of Remote Monitoring of Postoperative Head and Neck Cancer Patients

Kyan C. Safavi, MD, MBA, Massachusetts General Hospital; Harvard Medical School

Routine Postsurgical Anesthesia Visit to Improve Patient Outcome (TRACE)

Wolfgang Buhre, MD, PhD, University Clinic Maastricht

Remotely Monitoring ECMO Patients: How to Do It

Kenneth T. Shelton, MD, Massachusetts General Hospital

Biosensors and Wearables in Healthcare

Stephen A. Esper, MD, University of Pittsburgh Medical Center

9:30 am - 12:00 pm

Innovative Session

Exploring Healthcare Disparities in Perioperative Medicine: Why Do We Care?

Moderated by *Helen H. Lee, MD, MPH, College of Medicine, University of Illinois at Chicago*

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

Michael H. Andrae, MD, Penn State Health Milton S. Hershey Medical Center

J. Renee Navarro, PharmD, MD, University of California, San Francisco School of Medicine

Erika Blacksher, PhD, University of Washington School of Medicine

Amos Jones, Esq. Doctor of Laws, Hepatitis Foundation International

Jay S. Kaufman, PhD, McGill University

9:30 am - 12:30 pm

Workshop

(Slightly) Advanced Statistics: Regression Analysis for the Anesthesiologist

Moderated by *Lisa Kit-Ying Lee, MD, MS, University of California, Los Angeles David Geffen School of Medicine*

Thomas M. Austin, MD, MS, Emory University School of Medicine

Dmitry Tumin, PhD, Nationwide Children's Hospital

11:00 am - 11:30 am

IARS Break

11:30 am - 12:15 pm

ASER Review Course Lecture

Perioperative Medicine and Enhanced Recovery: Current State and Future Directions

Hosted by *Susan Goobie, MD, Harvard Medical School*

Santhanam Suresh, MD, Ann & Robert H. Lurie Children's Hospital of Chicago

Tong Joo (TJ) Gan, MD, MHS, FRCA, MBA, Stony Brook University School of Medicine

11:30 am - 12:30 pm

Problem-Based Learning Discussion

What's Up: Evaluating Unexpected Intraoperative Hyperkalemia

Hosted by *Roman Schumann, MD, Tufts Medical Center*

Jeffrey Gardner, MD, Wake Forest Baptist Health

11:30 pm - 12:30 pm

Problem-Based Learning Discussion

Turning Blue on the Way to PACU. Unexpected Deterioration in a Pediatric Patient

Hosted by *Lawrence Schwartz, MD, Children's Hospital Colorado; University of Colorado*

Claude Abdallah, MD, MSc, Children's National Health System

Monday, May 20, continued

11:30 am - 1:00 pm

SPAQI and SAGA Panel

Mind Your Elders! A Multidisciplinary Approach to Geriatric Perioperative Care

Moderated by *Jeanna D. Blitz, MD, New York University School of Medicine*

The Geriatric Patient: A Paradigm Shift in Preoperative Assessment

Heather E. Nye, MD, PhD, University of California, San Francisco School of Medicine

Perioperative Frailty-Epidemiology and Assessment

Daniel I. McIsaac, MD, MPH, FRCPC, University of Ottawa Faculty of Medicine

Cognitive Vital Signs for Your Older Adult Patient

Catherine Price, PhD, ABPP/CCN, University of Florida College of Medicine

Prehabilitation for the Elderly Surgical Patient

Michelle Humeidan, MD, PhD, The Ohio State University - Wexner Medical Center Anesthesiology

Intraoperative Management of the Geriatric Patient

Zdravka Zafirova, MD, The Icahn School of Medicine at Mount Sinai

11:30 am - 1:00 pm

Panel

What's New in Critical Care: Cardiac, Neuro, Surgical and Medical Intensive Care

Moderated by *Ronald Pearl, MD, PhD, Stanford University School of Medicine*

What's New in Cardiac Critical Care

Michael Wall, MD, FCCM, University of Minnesota Medical School

What's New in Neuro Critical Care

Jean G. Charchaflied, MD, MPH, DrPH, Yale School of Medicine

What's New in Surgical Critical Care

Jean-Francois Pittet, MD, University of Alabama at Birmingham

What's New in Medical Critical Care

Ronald Pearl, MD, PhD, Stanford University School of Medicine

1:00 pm - 2:00 pm

Lunch on Own

2:00 pm - 2:45 pm

Review Course Lecture

Patient Selection for Ambulatory Surgery: Can Any Patient Be an Outpatient?

Hosted by *Bobbie Jean Sweitzer, MD, FACP, Northwestern University Feinberg School of Medicine*

Girish P. Joshi, MB BS, MD, FFARCSI, The University of Texas Southwestern Medical Center

*Additional Fee to attend, limited attendance, pre-registration required

**Limited Attendance, pre-registration required

2:00 pm - 3:00 pm

Problem-Based Learning Discussion

One-Lung Anesthesia for Pacing Wire Change in 115kg Fontan Patient

Hosted by *Anupama Wadhwa, MBBS, University of California, San Diego School of Medicine*
Susan P. Taylor, MD, MPH, Medical College of Wisconsin

2:00 pm - 3:30 pm

SAGA Panel

Waves of Delirium: Anesthetic-Induced EEG Patterns that Predict Postoperative Delirium

Moderated by *Oluwaseun Johnson-Akeju, MD, Massachusetts General Hospital, Harvard Medical School*

Understanding Relationships between Intraoperative EEG Features, Anesthetic Dosage, Patient Cognition

Miles Berger, MD, PhD, Duke University Medical Center

Delirium in the PACU: What Does It Mean for Patient Safety? Can It Be Predicted and/or Prevented?

Paul S. Garcia, MD, PhD, Columbia University Medical Center

Electroencephalographic Evidence of Sensitivity to Volatile Anesthetic Agents as a Predictor

Bradley A. Fritz, MD, Washington University School of Medicine

2:00 pm - 3:30 pm

Panel

Incivility in Academic Medicine: Incidence, Instigators and Impact

Moderated by *Maya Hastie, MD, Columbia University Medical Center*

Defining "Incivility" in Medicine

Qi Cui Ott, MD, Beth Israel Deaconess Medical Center

Sources of Incivility in Medicine

Maya Hastie, MD, Columbia University Medical Center

Impact of Incivility in the Workplace

Harriet W. Hopf, MD, University of Utah Health Care

Managing Incivility: The Art and Science

Jonathan Hastie, MD, Columbia University Medical Center

Monday, May 20, continued

2:00 pm - 4:00 pm

Symposium

Organ Protection during the Perioperative Period

Moderated by *Holger K. Eltzschig, MD, PhD, McGovern Medical School, University of Texas*

Introduction

Jean-Francois Pittet, MD, University of Alabama at Birmingham

Novel Therapeutic Concepts for Acute Respiratory Distress Syndrome

Holger K. Eltzschig, MD, PhD, McGovern Medical School, University of Texas

Cardioprotection during the Perioperative Period

Mansoureh Eghbali, PhD, University of California, Los Angeles David Geffen School of Medicine

Hepatic Ischemia and Reperfusion Injury

Simon C. Robson, MD, Harvard Medical School

Perioperative Kidney Protection

Alexander Zarbock, MD, University Hospital Münster

2:00 pm - 4:00 pm

Innovative Session

Practical Lessons from Over 25-Years of Work in TIVA & Anesthetic Clinical Pharmacology

Moderated by *Dhanesh Kumar Gupta, MD, Duke University School of Medicine*

Talmage Dan Egan, MD, University of Utah

3:30 pm - 4:00 pm

Coffee Break

4:00 pm - 4:45 pm

Review Course Lecture

Emergency General Surgery, the Elderly and Non-Beneficial Surgery: The Problems, Solutions and Outcomes

Hosted by *Gebhard Wagener, MD, Columbia University Medical Center*

Nial Quiney, MBBS, FRCA, Royal Surrey County Hospital Anaesthetics

Geeta Aggarwal, MBBS, MRCP, FRCA, Royal Surrey County Hospital Anaesthetics

Monday, May 20, continued

4:00 pm - 5:30 pm

eSAS Panel

Update and Primer on New Techniques in Basic Science Anesthesia Research (Optogenetics, CRISPR Cas-9, and Next-Gen Sequencing)

Moderated by *Vivianne Tawfik, MD, PhD, Stanford University School of Medicine*

Optogenetic and Viral Tools for Identification and Manipulation of Neural Circuits

Aaron Norris, MD, PhD, Washington University School of Medicine

Next-Generation Sequencing for Understanding Cell-specific Contributions to Your Disease of Interest

Vivianne Tawfik, MD, PhD, Stanford University School of Medicine

CRISPR Cas-9 Targeted Mutations and Genetic Dissection of Neural Circuits Relevant to Hypnosis

Andrew McKinstry-Wu, MD, Perelman School of Medicine, University of Pennsylvania

4:00 pm - 5:30 pm

Panel

Pediatric Cardiac Anesthesia: Innovations from the Other Side of the Drape

Moderated by *Santhanam Suresh, MD, Ann & Robert H. Lurie Children's Hospital of Chicago*

ERAS for Pediatric Cardiac Anesthesia: Regional Anesthesia's New Turf

Jeremy Deer, MD, Northwestern University Feinberg School of Medicine

Can Neurologic Injury from Cardiac Surgery Be Prevented by Hemodynamic Optimization?

Ken M. Brady, MD, Lurie Children's Hospital of Chicago

Adult Congenital Heart Disease: A Conundrum That We All Have to Face

James DiNardo, MD, Boston Children's Hospital

6:00 pm - 7:30 pm

Taste of Montreal Session 3**

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