



AUA
Association of University Anesthesiologists



SOCIETY OF
CRITICAL CARE
ANESTHESIOLOGISTS
SOCCA



IARS
International Anesthesia Research Society

ANNUAL MEETINGS PROGRAM BOOK

Fairmont The Queen Elizabeth | Montréal | May 16 – 20 | 2019

IARS 2019 Annual Meeting

VISIT

Visit the SmartTots Booth!

You'll find a plethora of pediatric anesthesia research resources. Grab our Consensus Statement, FAQ's and up-to-the minute research articles.
Wine • Raffle • Chocolate

OUR

Onsite SmartTots Educational Opportunities

SmartTots Panel

Attend *Anesthesia and Neurotoxicity: A Conundrum for Clinicians* to learn the latest research on the effects of anesthesia on the developing brain.

Sunday, May 19th, from 11:00 am – 12:30 pm
Fairmont The Queen Elizabeth | Agora/Centre-Ville Rooms, Lobby Level

SmartTots Related Poster Sessions

Get the latest research at these sessions: smarttots.org/research-and-grants

BOOTH!

Stay Informed After the Meeting

Sign up for our newsletter and stay abreast of breaking news and research updates: tinyurl.com/smarttots

Donate

Support our critical research! Stop by the booth, make a donation, and enter our drawing to win great prizes, including a bottle of SmartTots special reserve wine, a gift certificate and more!



Donate online at
SmartTots.org/donate

SmartTots

Funding research to ensure pediatric anesthesia safety



IARS
International Anesthesia Research Society

GENERAL INFORMATION



AUA

Activity Overview

Findings from new research and the evolution of anesthesiology practice based on emerging evidence create an inherent gap between existing practice and new practice models. The purpose of the Association of University Anesthesiologists (AUA) 2019 Annual Meeting is to provide an evidence-based and clinically-oriented educational activity that will improve competence and performance in the anesthesiology specialty, resulting in improved patient care and outcomes.

Target Audience

The AUA 2019 Annual Meeting is designed to address the continuing medical education needs of anesthesiologists, anesthesiologists-in-training, and anesthesia investigators in academic, clinical, and laboratory settings.

Educational Objectives

As a result of participating in this live CME activity, learners will be able to:

- Describe the latest developments in education research, measuring knowledge in the field of anesthesia.
- Consider recent research findings relative to anesthesiology and evaluate their application to the learner's professional practice.
- Develop strategies for integrating new knowledge and behaviors into their professional practice.
- Evaluate gaps in their knowledge, behavior, and patient outcomes that may result in a need for additional education and training.

Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the International Anesthesia Research Society (IARS) and the Association of University Anesthesiologists (AUA). The IARS is accredited by the ACCME to provide continuing medical education for physicians.

CME Credit

The International Anesthesia Research Society (IARS) designates the AUA 2019 Annual Meeting live activity for a maximum of 11 *AMA PRA Category 1 Credits*.™ Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Commercial Support

This CME activity is supported entirely by the Association of University Anesthesiologists (AUA). There is no commercial support for this activity.

SOCCA

Activity Overview

The Society of Critical Care Anesthesiologists (SOCCA) 2019 Annual Meeting and Critical Care Update is designed to optimize outcomes for critically ill patients and their families through evidence-based and clinically-oriented physician education. The purpose of the SOCCA Annual Meeting and Critical Care Update is to advance knowledge, improve competence, and enhance performance of intensive care teams.

Target Audience

The SOCCA 2019 Annual Meeting and Critical Care Update is designed for anesthesiologists in the clinical and laboratory setting.

Educational Objectives

As a result of participating in this live CME activity, learners will be able to:

- Evaluate the current state of emerging knowledge and practice patterns and assess the relevance to their professional practice;
- Incorporate new knowledge from advances in anesthesiology practice into their professional practice areas; and
- Distinguish gaps in their knowledge, behavior, and patient outcomes that may result in a need for additional education and training.

Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the International Anesthesia Research Society (IARS) and the Society of Critical Care Anesthesiologists (SOCCA). The IARS is accredited by the ACCME to provide continuing medical education for physicians.

CME Credit

The International Anesthesia Research Society (IARS) designates the SOCCA 2019 Annual Meeting live activity for a maximum of 4.5 *AMA PRA Category 1 Credits*.™ Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Maintenance of Certification in Anesthesiology Program® (MOCA®)

Physicians wishing to have credits from this educational activity reported to the ABA for the ABA MOCA® Program may do so by entering their eight digit ABA identification number when claiming CME credit. The IARS forwards credits to the ABA on a quarterly basis.

Commercial Support

This CME activity is supported entirely by the Society of Critical Care Anesthesiologists (SOCCA). There is no commercial support for this activity.

IARS

Activity Overview

Findings from new research and the evolution of anesthesiology practice based on emerging evidence create an inherent gap between existing practice and new practice models. The purpose of the International Anesthesia Research Society (IARS) 2019 Annual Meeting and International Science Symposium is to provide an evidence-based and clinically oriented educational activity that will improve competence and performance in the anesthesiology specialty, resulting in improved patient care and outcomes.

Target Audience

The IARS 2019 Annual Meeting and International Science Symposium is designed to address the continuing medical education needs of anesthesiologists, anesthesiologists-in-training, anesthesia investigators, and allied health professionals who conduct research, practice, or intend to practice in any area of general anesthesia, subspecialty anesthesia, or pain management.

Educational Objectives

As a result of participating in this live CME activity, learners will be able to:

- Describe the latest developments in critical care, perioperative medicine, pain management, and other anesthesiology subspecialty areas.
- Evaluate gaps in their knowledge, behavior, and patient outcomes that may result in a need for additional education and training.
- Develop and apply strategies for integrating new knowledge and behaviors into their professional practice.

Accreditation Statement

The IARS is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CME Credit

The IARS designates this live activity for a maximum of 29.25 *AMA PRA Category 1 Credits*.™ Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Maintenance of Certification in Anesthesiology Program® (MOCA®)

Physicians wishing to have credits from this educational activity reported to the ABA for the ABA MOCA® Program may do so by entering their eight digit ABA identification number when claiming CME credit. The IARS forwards credits to the ABA on a quarterly basis.

Commercial Support

The IARS 2019 Annual Meeting and International Science Symposium is provided with commercial support from HeartWorks by MedaPhor and Philips Healthcare.

AUA, SOCCA AND IARS

Claiming CME Credit

The IARS will provide online program evaluation and session tracking to support claiming CME credit beginning on Wednesday, May 23. Meeting participants will have 90 days to claim CME credit.

Disclosure

The International Anesthesia Research Society (IARS) makes every effort to develop CME activities that are independent, objective, scientifically balanced presentations of information. The IARS has implemented mechanisms requiring everyone in a position to control content to disclose all financial relationships with commercial interests. Disclosure of any or no relationships is made available in advance of all educational activities. The IARS evaluates, and if necessary, resolves any conflicts of interest prior to the start of the activity. Individuals who refuse or fail to provide the required disclosures are disqualified from being a planning committee member, teacher, or author of CME, and cannot have control of, or responsibility for, the development, management, presentation or evaluation of the CME activity.

Disclaimer

The information provided in this CME activity is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient's medical condition.

IARS₂₀₁₉ ANNUAL MEETING On Demand

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- Controversies in Global Health

UPGRADE: Take your learning offline by adding on a portable USB drive for **\$60**.

IARS.OnDemand.org/Montreal

Specific presentations within a session may not be available or may be audio only if the presenter has confidential patient information or otherwise declines to be recorded.



AUA
Association of University Anesthesiologists



SOCIETY OF
CRITICAL CARE
ANESTHESIOLOGISTS
SOCCA



IARS

10 GENERAL INFORMATION

In this Program, you will find the information needed to make the most of your IARS, AUA and SOCCA Annual Meetings experience. Included is a complete listing of times and locations for all sessions and events, as well as maps to help you navigate the hotel. If you have questions that are not addressed in the program, please visit the Registration Desk for help.

Thanks for coming to Montreal – we're excited to see you!

Hotel Information

Fairmont The Queen Elizabeth
900 Rene Levesque Blvd. W
Montreal, Quebec, Canada H3B 4A5

Registration and Help Desk

The Registration Desk is located on the Mezzanine Level and Registration hours are:

Thursday, May 16	7:00 am – 6:00 pm
Friday, May 17	6:00 am – 7:00 pm
Saturday, May 18	6:30 am – 7:00 pm
Sunday, May 19	6:00 am – 5:30 pm
Monday, May 20	6:15 am – 5:30 pm

Name Badges

Included in your Registration Packet is your name badge – it is a must have item to be admitted into the education sessions. If you misplace your badge, please visit the Registration Desk for a replacement.

WiFi Connection

Connecting to the internet in the meeting and the exhibit area is easy – open your Wifi, choose the Fairmont_Meeting network, and type in **2019** when prompted for a password. The Wifi connection is on us – but please refrain from media streaming or downloads.

Your Registration Includes

All IARS, AUA and SOCCA attendees are invited to attend the Aligned Meeting Day sessions on Saturday, May 18, the Alignment Reception and Exhibit Area.

AUA Annual Meeting registrants have access to all AUA Sessions, Thursday, May 16 through Friday, May 17.

SOCCA Annual Meeting and Critical Care Update registrants have access to all SOCCA Sessions, Friday, May 17.

IARS Annual Meeting and International Science Symposium registrants have access to all IARS Sessions, Friday, May 17 through Monday, May 20. Workshops, Problem-Based Learning Discussions and Innovative Sessions require pre-registration. Visit the Registration Desk for more information.

Annual Meeting Registration Cancellation Policy

IARS, AUA and SOCCA registrations canceled on or before **May 2, 2019** will be issued a full refund, minus a \$50 processing charge. Sorry, no refunds will be issued after this date.

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Annual Meeting App

Download the IARS, AUA and SOCCA 2019 Annual Meetings App! Explore all session and speaker info and figure out which networking events you'll be attending. The app also lets you connect with other attendees, just like that. Download the app here, or from Google Play or the App Store by searching for "IARS".



Special Services

If you are in need of any special services, please contact us at meetings@iars.org, visit the Registration Desk or ask any IARS staff member you see – we're happy to help!

Speaker Slide Check-in Room

All presenters must bring their PowerPoint Presentations to the Speaker Slide Check-in Room, located in Rue McGill, Convention Level, at least 3 hours before your session begins. Please allow enough time for checking-in to ensure your session goes smoothly.

All presentations will be queued from the Speaker Slide Check-in Room. Please note, all presentations must be created in PowerPoint. Staff will be available in the Speaker Slide Check-in Room to help with any troubleshooting or last-minute changes.

Hours:

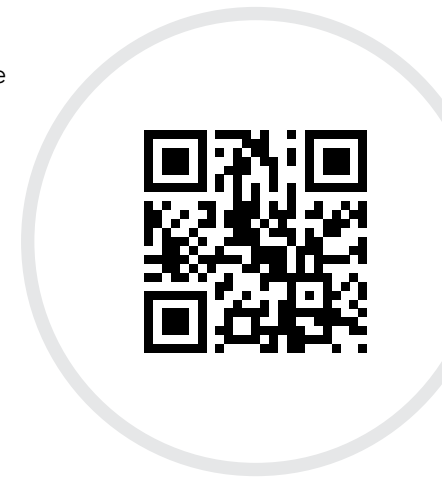
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Sunday, May 19	6:00 am – 5:30 pm
Monday, May 20	6:15 am – 5:30 pm

Poster Room

The Poster Room, Poster Check-in and the Poster Pickup Booth can be found in the Place du Canada / Square Dorchester Room, Convention Level.

Abstract Listing

Search all abstracts and speakers for the IARS, AUA and SOCCA 2019 Annual Meetings on the event site at <http://tiny.cc/lr3l5y>.



Electronic Devices

Shhh — let's be respectful of our presenters! Please silence your phone during education sessions. Thank you!

IARS On Demand

Make the Annual Meeting last all year! Sign up for IARS On Demand and have instant access to over 80 hours of CME-accredited sessions from the 2019 meeting. Rewatch your favorite sessions and access the ones you missed — anytime, anywhere. If you didn't already choose the Gold Registration on your registration form, we can upgrade you on the spot at the IARS On Demand Booth, located in the Registration Area, Mezzanine Level.

12 GENERAL INFORMATION

SmartTots

Get smarter at the SmartTots booth! You'll find the latest in pediatric anesthesia research resources and up-to-the-minute SmartTots news. You can also sample some fancy chocolates and donate to SmartTots' research efforts – and be entered to win a bottle of SmartTots wine. The SmartTots booth is located in the Foyer, Convention Level.

OpenAnesthesia

Come check out the best learning app, period. Using patented algorithms based on research done at MIT and machine learning, OpenAnesthesia SelfStudyPLUS is what you've been looking for. Every interaction results in the app learning and adjusting to what challenges and pushes you to the next level of your studies or CME Credit. The OpenAnesthesia SelfStudyPLUS app gives you anytime, anywhere access to over 2300 questions, curated by the best teaching physicians from top hospitals nationwide.

OpenAnesthesia is proudly sponsored by IARS. Find out more at www.selfstudy.plus or pick up info at OpenAnesthesia SelfStudyPLUS Information Booth, located in the Foyer, the Convention Level.

Media Release Policy

By attending the IARS, AUA and/or SOCCA 2019 Annual Meeting or entering in the facility in which the Annual Meeting takes place, you agree that IARS, AUA, SOCCA and/or third parties authorized by IARS, AUA and/or SOCCA may photograph or record your likeness, image, name, voice, and/or words, and may publish, display, reproduce, copy, and distribute your likeness, image, name, voice, and/or words for promotional, educational, or membership activities worldwide in all forms of media now known or later developed, including but not limited to advertising, training, websites, presentations, and marketing materials. You further acknowledge that IARS, AUA, SOCCA and/or third parties authorized by IARS, AUA and/or SOCCA shall have the right, but not the obligation, to identify you in connection with such media by name and/or affiliation.

Recording Audio, Video, and Still Photography

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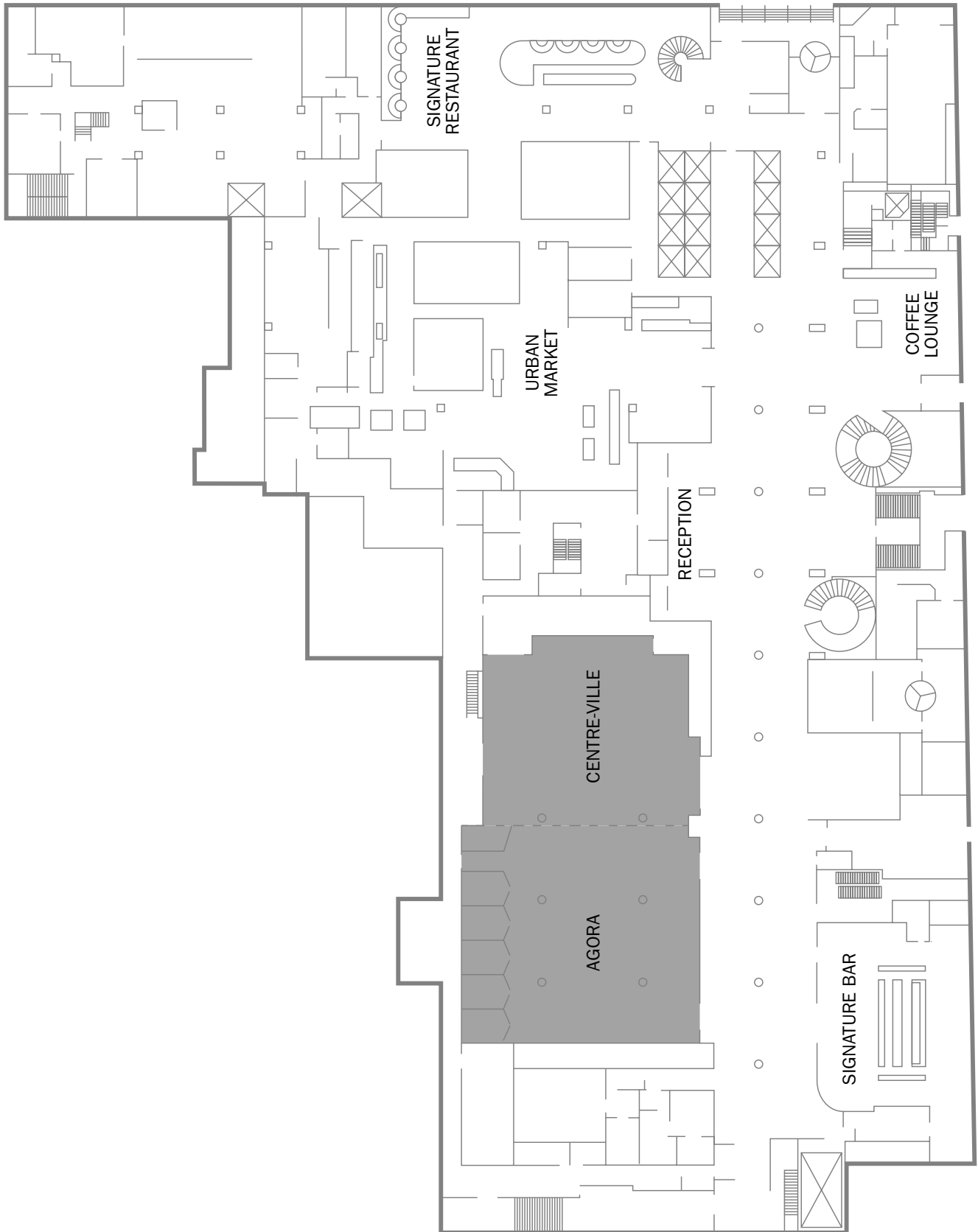
MAPS

Fairmont
THE QUEEN ELIZABETH



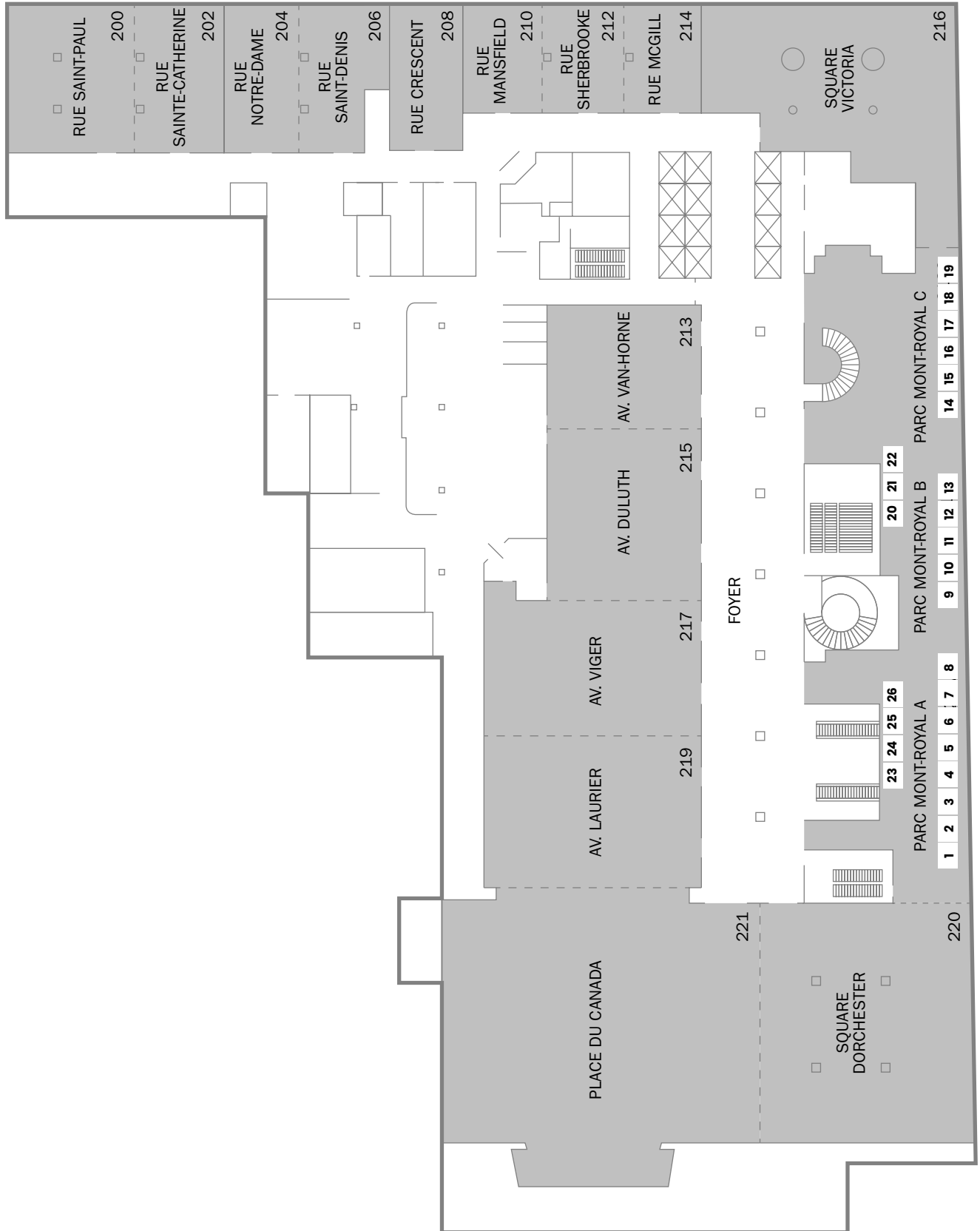
15 FAIRMONT THE QUEEN ELIZABETH

GROUND FLOOR



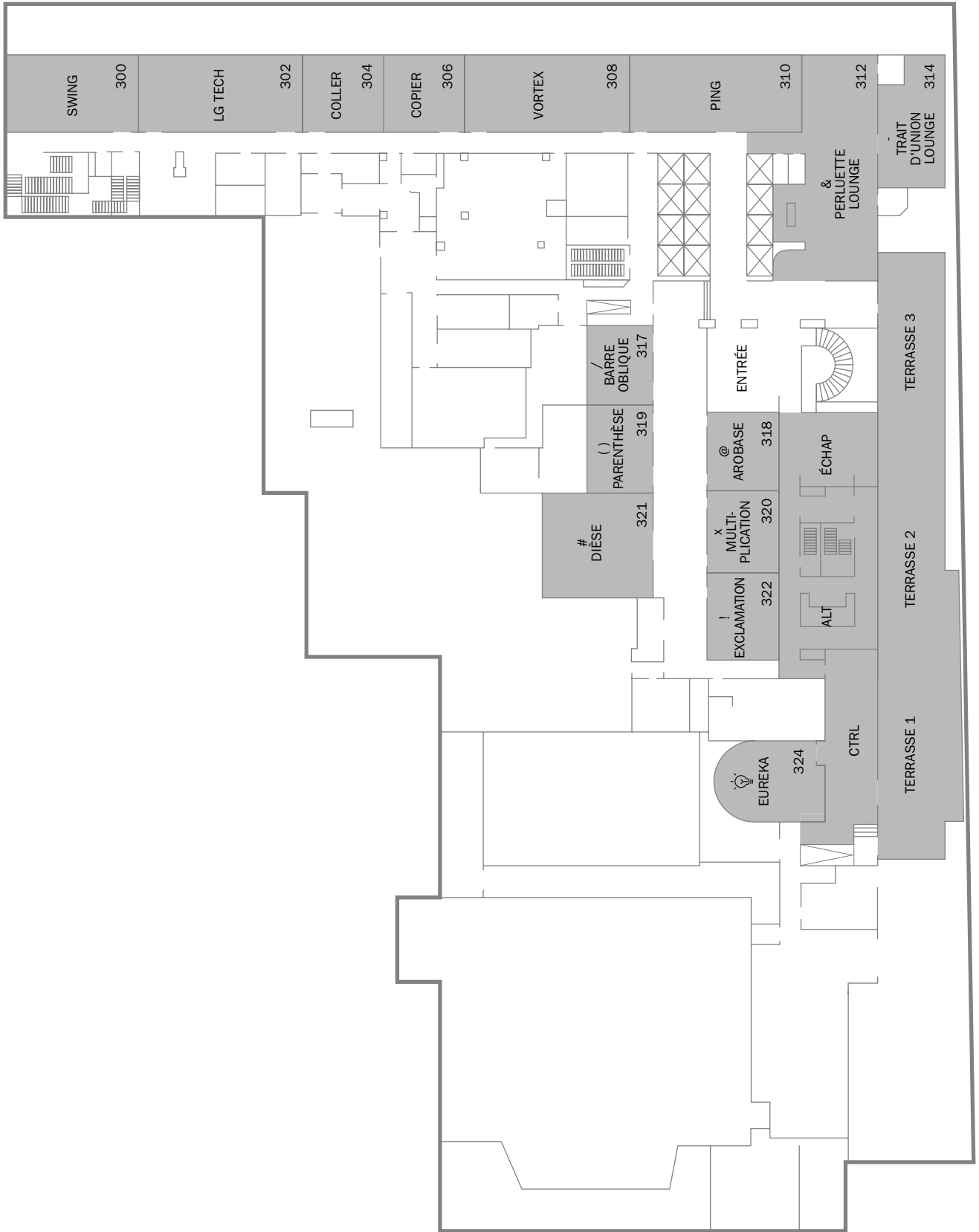
16 FAIRMONT THE QUEEN ELIZABETH

CONVENTION FLOOR



17 FAIRMONT THE QUEEN ELIZABETH

THIRD FLOOR





EXHIBITORS



IARS AND SOCCA EXHIBIT HOURS

Be sure to stop by and visit our Exhibitors! Not only are they supporting the SOCCA and IARS Annual Meeting, but they're ready to support your anesthesia-related needs.

FRIDAY, MAY 17, SOCCA ANNUAL MEETING

- 6:15 am – 7:15 am Breakfast with Exhibitors
- 10:15 am – 10:45 am Break with Exhibitors
- 12:15 pm – 1:15 pm Lunch on Your Own
- 3:00 pm – 3:30 pm Break with Exhibitors
- 6:30 pm – 8:00 pm Reception with Exhibitors

SATURDAY, MAY 18, ALIGNED MEETING DAY

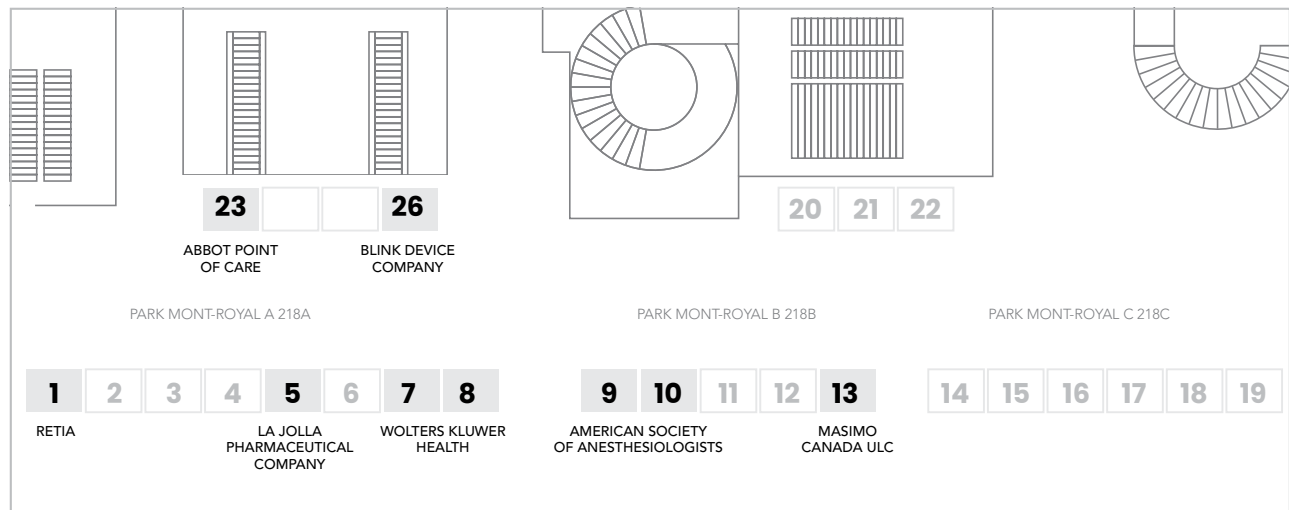
- 6:45 am – 7:45 am Continental Breakfast with Exhibitors
- 9:30 am – 10:00 am Coffee Break
- 1:00 pm – 2:30 pm Lunch on Your Own
- 4:00 pm – 4:30 pm Coffee Break
- 6:30 pm – 8:00 pm Alignment Reception

SUNDAY, MAY 19, IARS ANNUAL MEETING

- 6:00 am – 7:00 am Continental Breakfast with Exhibitors
- 9:00 am – 9:30 am Coffee Break
- 12:30 pm – 2:00 pm Lunch on Your Own
- 3:30 pm – 4:00 pm Coffee Break

22 SOCCA EXHIBITORS

SOCCA EXHIBITS FLOOR PLAN



SOCCA EXHIBITORS



Abbott Point of Care
Table 23

7115 Millcreek Drive Mississauga, Ontario
Canada L5N 3R3
800-387-8378
905-858-2450
abbottpointofcare.com

Delivering test results in minutes.

The need for fast, accurate and reliable test results is vital in emergency rooms, critical care centres and other situations where treatment decisions need to be made quickly. Abbott's portable, hand-held blood analyzers provide real-time, lab-quality results at the patient's side to speed up decision-making and ensure the appropriate care is provided when and where it's needed.

American Society of
Anesthesiologists®
American Society of Anesthesiologists
Tables 9 & 10

1061 American Lane Schaumburg, IL 60173
847-825-5586
f: 847-825-1692
info@asahq.org
asahq.org

ASA® is the leading anesthesiology professional society with more than 53,000 members globally. Since its founding in 1905, the Society raises and maintains the standard of the practice of anesthesiology through education, research, advocacy and quality improvement by focusing on patient care and safety. ASA is dedicated to helping physician anesthesiologists and their care teams provide the highest quality of care in a patient-centered, physician-led environment.



Blink Device Company

Table 26

1530 Westlake Ave N
Suite 600, Seattle, WA 98109
206-708-6043
f: 973-215-8175
contact@blinkdc.com
blinkdc.com

Blink Device Company has developed the TwitchView System, used for the quantitative monitoring of neuromuscular blockade by means of electromyography (EMG). The system utilizes an integrated electrode array and advanced algorithms for ease-of-use and reliability.



La Jolla Pharmaceutical Company

Table 5

4550 Towne Centre Ct San Diego, CA 92121
lajollapharmaceutical.com
info@ljpc.com

La Jolla Pharmaceutical Company focuses on innovative therapies intended to improve outcomes in patients with life-threatening diseases. Visit us at the GIAPREZA exhibit at SOCCA 2019 Table #5!



Masimo Canada ULC

Table 13

4878 Rue Levy Street
Suite 200
Saint-Laurent
Québec H4R 2P1
888-336-0043
f: 877-338-9337
cs@masimo.com
masimo.com

Masimo is a global medical technology company that develops and manufactures innovative noninvasive patient monitoring technologies, including medical devices, a wide array of sensors, and connectivity solutions.



Retia

Table 1

7 Dana Road, Suite 111
Valhalla, NY 10595
914-594-1986
info@retiamedical.com
Retiamedical.com

Retia medical aims to advance the use of cardiac output (CO) monitoring to improve patient care by providing members of the critical care team with a more accurate, easy-to-use, and affordable hemodynamic monitor that supports confident, data-based decisions.

Retia brings together industry-leading expertise in physiology, signal processing and computational algorithms to engineer innovative monitoring solutions that give clinicians up-to-the minute data that they can rely on to make informed patient care decisions. Additionally, Retia is committed to giving more clinicians access to CO monitoring by reducing the cost and inconvenience that limit the use of traditional CO technologies to the most high-risk patients.



TruCorp Ltd.

Visit SOCCA.org for information



Wolters Kluwer Health

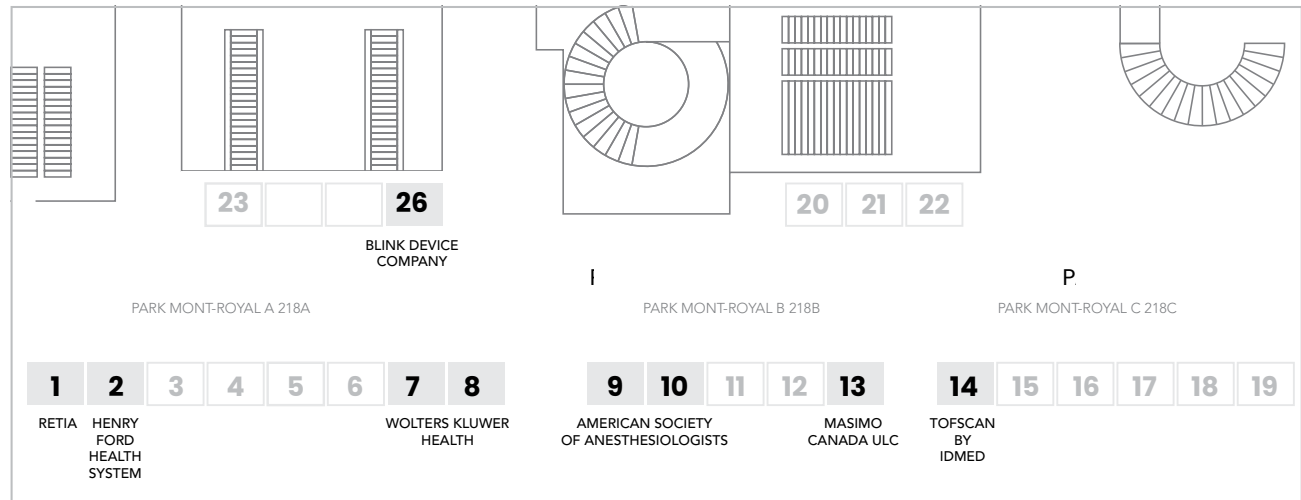
Tables 7 & 8

2001 Market Street Philadelphia, PA 19103
215-521-8300
customerservice@lww.com
lww.com

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24 IARS EXHIBITORS

IARS EXHIBITS FLOOR PLAN



IARS EXHIBITORS

American Society of
Anesthesiologists®

American Society of Anesthesiologists
Tables 9 & 10

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f: 847-825-1692
info@asahq.org
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blink
DEVICE COMPANY™

Blink Device Company
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1530 Westlake Ave N
Suite 600, Seattle, WA 98109
206-708-6043
f: 973-215-8175
contact@blinkdc.com
blinkdc.com

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Henry Ford Health System

Table 2

2799 West Grand Blvd Detroit, MI 48202
aullman1@hfhs.org
henryford.com/careers

Henry Ford Health System is looking to hire Cardiac, Regional and OB Anesthesiologists for hospitals in Jackson and Detroit, Michigan. Leadership and teaching opportunities available.



Masimo Canada ULC

Table 13

4878 Rue Levy Street
Suite 200
Saint-Laurent
Québec H4R 2P1
Phone: 888-336-0043
Fax: 877-338-9337
Email: cs@masimo.com
Website: masimo.com

Masimo is a global medical technology company that develops and manufactures innovative noninvasive patient monitoring technologies, including medical devices, a wide array of sensors, and connectivity solutions.



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ToFscan by IDMED

Table 14

45 Rue Joliot Curie
Hotel Technologique Marseille, 13013 France
+33 491 118 784
contact@tofscan.com
tofscan.com

ToFscan by IDMED is an accurate quantitative TOF (train of four) monitor. It delivers reliable measurements for TOF ratio, TOF count, PTC. Its silicon splint integrates a 3D sensor, measurements are optimized which makes the device free of calibration. Intuitive and

easy to navigate with one wheel button. ToFscan is user-friendly, and provides reliable measurements for neuromuscular transmission, crucial to improve patient safety before, during and after surgery. More than 8000 sold worldwide.



Wolters Kluwer Health

Tables 7 & 8

2001 Market Street Philadelphia, PA 19103

215-521-8300

lww.com

Wolters Kluwer Health is a leading global provider of information and point-of-care solutions for the healthcare industry. Our leading product brands include Audio-Digest, Lippincott, Ovid®, UpToDate®, and others.



AUA SCHEDULE



AUA

Association of University Anesthesiologists



8:00 am – 8:05 am

Av. Viger

AUA Welcome from President and Host Institution Chairs

*Michael Avidan, MBCh, Washington University School of Medicine, AUA President
Pierre Beaulieu, MD, PhD, FRCA, University of Montreal, Host Chair
Thomas Schricker, MD, PhD, McGill University, Host Chair*

8:05 am – 09:30 am

Av. Viger

Host Program Panel I

Moderated by Pierre Beaulieu, MD, PhD, FRCA, University of Montreal

Introduction

Pierre Beaulieu, MD, PhD, FRCA, University of Montreal

The Analgesic Power of Music

Isabelle Peretz, PhD, University of Montreal

TBA

Philippe A. Jovet, MD, PhD, MBA, University of Montreal

8:00 am – 4:30 pm

Place du Canada / Square Dorchester

AUA Poster Session A: Open Viewing

For session details, see the AUA Posters tab.

9:40 am – 10:00 am

Break

10:00 am – 11:00 am

Av. Viger

Host Program Panel II

Moderated by Thomas Schricker, MD, PhD, McGill University

History of Anesthesia in Montreal

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

Genetics of Pain

Luda Diatchenko, MD, PhD, McGill University

Pain in Mice and Man: Ironic Adventures in Translation

Jeffrey S. Mogil, PhD, McGill University

11:15 am – 12:15 pm

Av. Viger

AUA Scientific Advisory Board Oral Session I

Moderated by Ines Koerner, MD, PhD, Oregon Health & Science University, SAB Chair, and Richard Levy, MD, FAAP, Columbia University

Introduction

Ines Koerner, MD, PhD, Oregon Health & Science University and Richard Levy, MD, FAAP, Columbia University

Hyperoxic Resuscitation Following Canine Cardiac Arrest Increases Cerebellar Purkinje Neuronal Damage and Inflammatory Microglial Activation

Gary Fiskum, PhD, University of Maryland School of Medicine

Posterior Cerebellar Strokes in Mice Cause Memory and Hippocampal Synaptic Plasticity Impairments

Nidia Quillinan, PhD, University of Colorado

RESIDENT TRAVEL AWARD PRESENTATION

Bacterial Sepsis Increases Fibrillary Amyloid Load and Neuroinflammation in a Mouse Model of Alzheimer's Disease Pathology

Jacob Basak, MD, PhD, Washington University School of Medicine

RESIDENT TRAVEL AWARD PRESENTATION

Response to Inhaled Anesthetics Measured by the Triple Variable Index Reveals Population-specific Patterns of Intraoperative Hypotension Exposure

Michael P. Schnetz, MD, PhD, University of Pittsburgh

12:15 pm – 1:15 pm

Av. Laurier

AUA All-Attendee Lunch

12:15 pm – 1:15 pm *Av. Van-Horne*

AUA President's Lunch (*invitation only*)

1:15 pm – 1:30 pm

Break

1:30 pm – 3:00 pm *Av. Viger*

AUA President's Panel
The Reproducibility Crisis in the Era of Precision Medicine
Moderated by Michael Avidan, MBCh, Washington University School of Medicine, AUA Council President

How We Scientists Can Stop Fooling Ourselves

Regina Nuzzo, PhD, Gallaudet University

Precision Medicine: The RCT is so Passé

Philip Payne, PhD, Washington University School of Medicine

Conflict between Evidence and Practice: Why It Exists

David Mazer, MD, University of Toronto

3:00 pm – 3:30 pm

Break

3:30 pm – 4:30 pm *Av. Viger*

AUA SAB Oral Session II
Moderated by Meghan Lane-Fall, MD, MSHP, Perelman School of Medicine, University of Pennsylvania; Leonard Davis Institute for Health Economics, University of Pennsylvania and Christine Sang, MD, MPH, Harvard Medical School

Introduction

Meghan Lane-Fall, MD, MSHP, Perelman School of Medicine, University of Pennsylvania; Leonard Davis Institute for Health Economics, University of Pennsylvania and Christine Sang, MD, MPH, Harvard Medical School

Novel Circulating Metabolic Markers Improve Discrimination of Metabolic Health Independent of Weight

Stephen Ellison, MD, PhD, Duke University Medical Center

JUNIOR FACULTY RESEARCH AWARD PRESENTATION

Implementation of a Distributed Research Network Virtual Data Warehouse for a Multi-Center Observational Study

Seshadri Mudumbai, MD, Stanford University

JUNIOR FACULTY RESEARCH AWARD PRESENTATION IN PERIOPERATIVE MEDICINE

Epidemiology of Surgical Site Infection in Spinal Fusion Surgery and Patterns of Discordance with Surgical Antibiotic Prophylaxis: A Retrospective Case-Level Analysis

Dustin R. Long, MD, University of Washington

MARGARET WOOD RESIDENT RESEARCH AWARD PRESENTATION

Sustaining the Gains — A 6-year Follow-through of the Impact of a Hospital Wide Patient Safety Strategy on Global and Anesthetic Patient Safety Outcomes

Ming Ann Sim, MBBS, National University Hospital Singapore

4:30 pm – 4:45 pm

Break

4:45 pm – 6:15 pm

Place du Canada / Square Dorchester

AUA Poster Session A: Moderated Discussion Sessions

For session details, see the AUA Posters tab.

31 THURSDAY, MAY 16 & FRIDAY, MAY 17: AUA

7:00 pm – 10:00 pm

Pointe-à-Callière Montréal Archaeology and History Complex

AUA Social Event

Hosted by University of Montreal and McGill University

Designated a national archaeological and historic site, Pointe-à-Callière presents centuries of history from the settlements of our Indigenous People to the present day. Located on a spot occupied by humans for more than a thousand years and on the very site where Montréal was founded, the Museum is home to some remarkable architectural ruins that are showcased on site.

Buses will depart from Mansfield Street, Lobby Level beginning at 6:30 pm.

Ticketed event, visit registration for details.

FRIDAY, MAY 17

8:00 am – 9:30 am

Av. Viger

AUA Educational Advisory Board Panel I Self-Regulation and Its Role in Education and Performance

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

Self-Regulation: What Is It, and How Does It Help Education and Performance?

*Daniel Saddawi-Konefka, MD, MBA,
Massachusetts General Hospital*

The Interaction between Psychological Safety and Self-Regulation

Sara Goldhaber-Fiebert, MD, Stanford University School of Medicine

Managing and Reducing Cognitive Load for Better Education and Performance

Keith E. Littlewood, MD, University of Virginia School of Medicine

8:00 am – 3:30 pm

Place du Canada / Square Dorchester

AUA Poster Session B: Open Viewing

For session details, see the AUA Posters tab.

9:30 am – 10:00 am

Break

10:00 am – 11:00 am

Av. Viger

AUA SAB Oral Session III

Moderated by Lucy Chen, MD, Harvard Medical School and Jae-woo Lee, MD, University of California San Francisco

Introduction

Lucy Chen, MD, Harvard Medical School and Jae-woo Lee, MD, University of California San Francisco

Therapeutic Effects of Hyaluronic Acid in E.coli Bacterial Pneumonia in the Ex Vivo Perfused Human Lungs

Jae-woo Lee, MD, University of California San Francisco

Ventilator-Induced Lung Injury in a Rat Model of Pulmonary Fibrosis is Influenced by Disease Severity and Tidal Volume

Khoa Nguyen, BS, University of Central Florida

A Systems Immunology Approach to Characterize Lung Immune Response to Hyperoxia

Dusan Hanidziar, MD, PhD, Massachusetts General Hospital

JUNIOR FACULTY RESEARCH AWARD PRESENTATION

Total Intravenous Anesthesia with a Novel Formulation of Isoflurane Perfluorocarbon-based Nano-emulsion: Safety, Efficacy and Toxicity in Dogs

Behrouz Ashrafi, MD, University of Miami

11:00 am – 11:30 am

Break

11:30 am – 12:30 pm

Av. Viger

AUA SAB Oral Session IV

Moderated by Niccolo Terrando, PhD, Duke University Medical Center and Paul Garcia, MD, PhD, Columbia University Medical Center

Introduction

Niccolo Terrando, PhD, Duke University Medical Center and Paul Garcia, MD, PhD, Columbia University Medical Center

The INTUIT Study: Investigating Neuroinflammation Underlying Postoperative Neurocognitive Dysfunction and Delirium in Older Adults

Thomas Bunning, BS, Duke University Medical Center

Dexmedetomidine Prevents Lipopolysaccharide (LPS)-Induced Neuroinflammation and Cognitive Decline through an α 2A Adrenoceptor Mechanism in Mice

Mervyn Maze, MB, ChB, University of California San Francisco

GFAP Expression in the Visual Cortex is Increased in Juvenile Non-Human Primates that were Exposed to Anesthesia during Infancy

Viola Neudecker, MD, Columbia University Medical Center

JUNIOR FACULTY RESEARCH AWARD PRESENTATION IN PEDIATRIC ANESTHESIA

The Electroencephalographic Signature of Spinal Anesthesia in Infants: A Multi-center Pilot Study

Emmett Whitaker, MD, University of Vermont

12:30 pm – 1:30 pm

Av. Laurier

AUA Business Meeting and All Attendee Lunch

1:30 pm – 3:00 pm

Av. Viger

AUA EAB Panel II: The Science of Effective Feedback

Moderated by Keith Baker, MD, PhD, Massachusetts General Hospital

Goal-Oriented: Construing Feedback as Useful

Rebecca D. Minehart, MD, MSHPEd, Harvard Medical School; Massachusetts General Hospital

The Neuroscience of Negative Feedback and Why We Can Become Deaf to It

Aranya Bagchi, MD, Harvard Medical School

So, Your Paper Was Rejected: A Practical Example of Managing Negative Feedback

Douglas E. Raines, MD, Massachusetts General Hospital

3:00 pm – 3:30 pm

Break

3:30 pm – 5:00 pm

Place du Canada / Square Dorchester

AUA Poster Session B: Moderated Discussion Sessions

For session details, see the AUA Posters tab.

5:30 pm – 6:30 pm

Square Victoria

Scholars' Program Mentoring and Networking Reception

Meet and network with the leaders of the anesthesiology field – and Scholars' Program participants will be paired with mentors.

This reception is part of the Scholars' Program, and a ticketed event, visit registration for details.

7:00 pm – 8:30 pm

Taste of Montreal Dine-Around

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

Be sure to stay for
Aligned Meeting Day tomorrow,
May 18, at the Fairmont The Queen
Elizabeth hotel – every IARS,
AUA and SOCCA attendee is
welcome at every session!
See the IARS Sessions tab for
Saturday's details.

AUA POSTERS



AUA

Association of University Anesthesiologists



35 POSTER SESSIONS: AUA (A – B)

All poster sessions, the Poster Information desk, and the Call4Posters™ desk are located in the Place du Canada and Square Dorchester Rooms.

Poster sessions are grouped based on subspecialty topic and will include an open poster viewing time and a moderated poster discussion session.

AUA POSTER SESSION A: THURSDAY, MAY 16

7:30 am – 8:00 am	Setup
8:00 am – 4:45 pm	Open Viewing
4:45 pm – 6:15 pm	Moderated Discussion Session
6:30 pm – 7:00 pm	Breakdown

AUA POSTER SESSION B: FRIDAY, MAY 17

7:30 am – 8:00 am	Setup
8:00 am – 3:30 pm	Open Viewing
3:30 pm – 5:00 pm	Moderated Discussion Session
5:00 pm – 5:30 pm	Breakdown

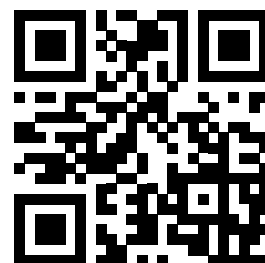
Viewing e-Posters

e-Posters are available for viewing throughout the Annual Meetings at <http://tiny.cc/lr3l5y>.

Call4Posters™ Pick-up

Orders placed through Call4Posters™ will be available for pick-up at the Call4Posters™ Desk.

Thursday, May 16	7:00 am – 1:30 pm
Friday, May 17	7:00 am – 1:30 pm



36 POSTER CATEGORY INDEX: AUA

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Ambulatory Anesthesia	A3-9
Anesthetic Pharmacology	A10-16, B150-154
Blood Management	A17-20
Cardiovascular Anesthesiology	A21-27, B155-160
Critical Care	A28-40, B161-165
Economics, Education and Policy	A41-43, A47-55, B166-171
Geriatric Anesthesia	A56-58
Global Health	A44-45
Neuroscience in Anesthesiology and Perioperative Medicine	A59-71, B172-177
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Obstetric Anesthesiology	A74-77
Pain Mechanisms	A78-80
Pain Medicine	A81-82, B178-182
Patient Safety	A83-87, B183-187
Pediatric Anesthesiology	A89-97, B189-193
Perioperative Anesthesia	A98-107, B188, B194-198
Regional Anesthesia	A108-110
Respiration	A111-114
Sleep Medicine	B199
Technology, Computing and Simulation, Equipment Monitoring	A115-119, B200-203
Trauma	A120-121

A1. Chronic Inhibition of Acetylcholinesterase (AChE) Attenuates in Vivo Airway Hyperreactivity and Lung Inflammation in a Model of Murine Asthma

Maya Mikami, Gene T. Yocum, Shani Kahan, Aisha Kuforiji, Charles W. Emala

A2. A Pilot Study to Determine the Accuracy of Ultrasound in Measurement of the Dimensions of the Pediatric Cricothyroid Membrane

Bill A. Walsh, Paul Fennessy, Roisin Ni Mhuircheartaigh, Aisling Snow, Kevin McCarthy, Conan McCaul

A3. Does the Use of Intravenous Patient Controlled Analgesia (IPCA) Increase Opioid Consumption and Side Effects in Fast Track Orthopedic Procedures?

Sameh M Abdelghany, Zeev Friedman, David Backstein, Jaclyn Ricci, Xiang Y. Ye, Naveed Siddiqui

A4. Thoracoplasty Under Thoracic Epidural Anesthesia: A Case Report

Satish Dhashmana

A5. High Rates of Postoperative Opioid Overprescription Following Ambulatory Breast Surgery

Anjali Dixit, Solmaz P. Manuel, Christina Inglis-Arkell

A6. High Rates of Postoperative Opioid Overprescription Following Minimally Invasive Ambulatory Surgery

Anjali Dixit, Solmaz P. Manuel, Christina Inglis-Arkell

A7. Much Too High: Evaluating the Effect of Cannabis Use on Propofol Anesthesia during Endoscopy

Ngozi Imasogie, Aze Wilson

A8. Dexmedetomidine vs Midazolam for Medical Thoracoscopy-Randomized, Noninferiority Trial

Vinod Kumar, Prashant Sirohiya, Nishkarsh Gupta, Rakesh Garg, Sachidanand Jee Bharti, Karan Madan, Seema Misra, Sushma Bhatnagar, Vijay Hadda, Anant Mohan

A9. The Effect of Systemic Lidocaine on Post-Operative Opioid Consumption in Ambulatory Surgical Patients: A Meta-Analysis of Randomized Controlled Trials

Danielle Lovett-Carter, Mark C. Kendall, Gildasio S. Deoliveira

A10. Total Intravenous Anesthesia with a Novel Formulation of Isoflurane Perfluorocarbon-Based Nano-Emulsion: Safety, Efficacy and Toxicity in Dogs

Behrouz Ashrafi, Ernesto A. Pretto, Christopher A. Fraker

Junior Faculty Research Award

A11. Rapid Binding of Lidocaine Within the Channel Pore Involves the Charge of the Selectivity Filter in Rat NaV1.4 Expressed in Xenopus Oocytes

Kevin Gingrich, Larry Wagner

A12. Effects of Propofol and Its Components on Neutrophils Migration and Macrophages Obtained from Lung and Adipose Tissue of Obese Rats: An in Vitro Study

Luciana B. Heil, Fernanda F. Cruz, Mariana Antunes, Cassia Lisboa, Lais Agra, Rebecca Bose, Soraia Abreu, Paolo Pelosi, Pedro L. Silva, Patricia R. Rocco

A13. Mixtures of General Anesthetics Act Synergistically Only If They Act on Different Binding Sites on Synaptic GABA_A Receptors: A Study in Tadpoles

Daniel Kent, Keith W. Miller

A14. At Supra-Clinical Doses ABP-700 Produces Involuntary Muscle Movements Distinct from Seizure Activity in Beagle Dogs

John Marota, Dario Lehoux, Brad Zerler, Mylene Pouliot, Simon Authier

A15. Studies of the New Neuromuscular Blocking Agent CW 1759-50 in the Cat, As in Monkeys, Predict Short- to Ultra-Short Duration in Humans, Reflecting Rapid Degradation by L-Cysteine Adduction in Vitro

John J. Savarese, Hiroshi Sunaga, Jeff Mcgilvra, Paul M. Heerdt, Anita M. Jegarl, Farrell Cooke, Stewart Mccallum, Randy Mack

A16. Prevalence of Bradycardia Associated with Sugammadex Administration in a Single-Center Retrospective Analysis of Electronic Medical Record Data

Matthew Weis, Courtney Elder, Arjun Meka, Lauren Meyer, Craig S. Jabaley, Milad Sharifpour, Vikas N. O'Reilly-Shah

A17. Platelet Functionality Is Decreased after Infusion through a Rapid Infusion System

Shahrukh Bengali, Ilan Keidan, Nikolaus Gravenstein, Jeffrey D. White, Joshua Sappenfield

A18. Variation in Transfusion Guideline Compliance Among Provider Types and Between Medical and Surgical Services

Tymoteusz Kajstura, Charlie Slowey, Mereze Visagie, Connie W. Chaudhary, Kyun Hee K. Lee, Tyler Wintermeyer, Renee Demski, Steven M. Frank

A19. Efficacy and Safety of ϵ -Aminocaproic Acid in Open and Minimally Invasive Cardiac Surgery

Marta Kelava, Anand Mehta, Shiva Sale, Lucy Thuita, Douglas Johnston, Marc Gillinov, Eugene H. Blackstone

A20. An Effective and Efficient Testing Protocol for Diagnosing and Managing Iron Deficiency Anemia Preoperatively

Obianuju Okocha, Hardik Dand, Michael J. Avram, Bobbie Jean Sweitzer

A21. Ventilator-Induced Lung Injury in a Rat Model of Pulmonary Fibrosis Is Influenced by Disease Severity and Tidal Volume

Khoa Nguyen, Chris Ortiz, Trixie Le, Mansoureh Eghbali, Nir Hoftman, Soban Umar

A22. Factor VIII Inhibitor Bypass Activity (FEIBA) for the Reduction of Transfusion in Cardiac Surgery: A Randomized Double Blind Placebo Controlled Pilot Trial

Ann Bingham, Valerie Sera, Howard Song, Victor Rodriguez, Jaishankar Raman, Frederick Tibayan, Miriam Treggiari

A23. Reducing Postoperative Opioid Utilization in Cardiac Surgical Patients with a Multimodal Analgesic Regimen

Albert T. Cheung, Cody A. Parsons, Andrew Ku, Roya Saffary, Lindsay Raleigh

A24. The Penn Classification Predicts Hospital Mortality in Acute Stanford Type A and Type B Aortic Dissection

Albert T. Cheung, Michael Tien, Andrew Ku, Jessica Zvara, Natalia Martinez-Acero

A25. Metabolomic Profiling Reveals Sex Differences and a Reduction in Metabolism after Remote Ischemic Preconditioning

Elijah Christensen, Anushri Desai, Trevor Banack, Joel Zylberberg, Nathan Clendenen

A26. Myocardial Post-Conditioning with CPG-Containing TLR9 Ligand 1668-Thioate Modulates Inflammatory Response and Remodeling Resulting in Less Fibrosis and Better Left Ventricular Function in Mice

Daniel Dürr, Shuijing Wu, Max Schneider, Vanessa Marggraf, Luise Verfuether, Stilla Frede, Christina Weisheit, Olaf Boehm, Oliver Dewald, Georg Baumgarten, Pascal Knüfermann, Se-Chan Kim

A27. Metabolomic Profiling of the Effects of Cardiopulmonary Bypass on Red Blood Cells: A Prospective Observational Cohort from the University of Colorado Department of Anesthesia Biorepository

Rachel Henderson, Barbara Wilkey, Nathaen Weitzel, Nathan Clendenen

A28. A Systems Immunology Approach to Characterize Lung Immune Response to Hyperoxia

Dusan Hanidziar, Yasutaka Nakahori, David Gallo, Joshua Keegan, Jennifer Nguyen, Leo Otterbein, James Lederer, Simon C. Robson

A29. Therapeutic Effects of Hyaluronic Acid in *E. coli* Bacterial Pneumonia in the Ex Vivo Perfused Human Lungs

Jae-Woo Lee, Airan Liu, Jeonghyun Park, Xiwen Zhang, Shinji Sugita, Jaehoon Lee, Hideya Kato, Qi Hao, Michael Matthay

A30. Glycemic Stress Index: It Is Useful in Every Clinical Scenario?

Swapnil Aswar, Mathieu Georges, Gianluca Bertolizio

A31. Adverse Outcomes Associated with Absent or Delayed β -Blocker Administration after Cardiac Surgery

Emily Chanan, Germaine Cuff, Samir Kendale, Aubrey Galloway, Mark Nunnally

A32. Successful Extracorporeal Membrane Oxygenation Utilization for Refractory Acute Respiratory Distress Syndrome Following Orthotopic Liver Transplantation Re-Exploration for Intra-Abdominal Hemorrhage

Anna Ciullo, Suzanne Bennett

A33. Perioperative Transfusion Requirements in Venovenous Extracorporeal Membrane Oxygenation (ECMO) Patients Undergoing Non-Cardiac Surgical Procedures

Michael A. Fierro, Brandi Bottiger, David Ranney, Mani Daneshmand, Desiree Bonadonna, John Haney, Jacob Klapper, Matthew Hartwig, Michael Manning, Raquel R. Bartz

A34. Spatial and Temporal Identification of the IL-1 β Producing Cell Type in the Lung through Primary Cell Expression Profiling in Intact Human and Mouse Lung Tissue

Arun Prakash, Xiaoli Tian

A35. Rescue TEE for Differentiating and Managing Shock in Critically Ill Patient

Estuardo J. Saravia Fernandez, Vaibhav Bora

A36. The Attributable Mortality from Bleeding Complications Exceeds the Attributable Mortality from Thrombotic Complications

Robert E. Freundlich, Melissa L. Bellomy, Milo Engoren, Frederick W. Lombard, Barbara J. Martin, Yaping Shi, Matthew Shotwell

A37. Trends in Tracheostomy Utilization after Severe Acute Brain Injury in the United States

Vijay Krishnamoorthy, Monica S. Vavilala, Abhijit V. Lele, Karthik Raghunathan, Claire Creutzfeldt

A38. Inflammatory Profile of Murine Septic AKI: Role of CD11c+/CX3CR1+ Antigen Presenting Cells

Jamie Privratsky, Jiafa Ren, Benjamin Morris, Steven D. Crowley

A39. Vasopressor Dosing in Septic Shock Clinical Trials: A Systematic Review and Meta-Analysis

Bijan Teja, Nicholas A. Bosch, Allan J. Walkey, Ruxandra Pinto, Hannah M. Wunsch

A40. Role of Innate Immune miRNA-TLR7 Signaling in Sepsis-Induced Coagulopathy in Mice

Brittney Williams, Jessica Neder, Lin Zou, Wei Chao

A41. Economic Evaluations of Sugammadex for Reversal of Neuromuscular Block in Surgical Procedures: A Systematic Review

Amit D. Raval, Ishita Doshi, Sumesh Kachroo, Lori D. Bash

A42. Impact of Anesthesia Type on Patient Satisfaction with Anesthesia Care

Anastasia Pozdnyakova, Avery Tung, Richard Dutton, Anum Wazir, David Glick

A43. Resident Physician Perspective on Women As Leaders

Karlyndsay Sitterley, Philip Boysen, Joseph Koveleskie

A44. Preeclampsia Management in Central America: Moving Towards Multidimensional Care?

Aruna M. Kamath, Casey K. Johanns, Erin B. Palmisano, Diego Rios-Zertuche, Ali Mokdad, Bernardo Hernandez

A45. A Prospective Observational Study of Postoperative Complications at a Non-Profit, Internationally Supported Surgery Center in Guatemala

Katheryne Lawson, Laura Zeigler, Christy Crockett, J. Matthew Kynes, Ligia Figueroa, Caleb Hayes, Christelle Samen, Kelly McQueen

A46. The Impact of Early Exposure to High-Fidelity Simulation on the Developing Anesthesiologist: A Qualitative Pilot Study

Dylan Bard, Gavyn Ooi, Michael Esterlis, Elaine Kilmartin, Neeru Rattan

A47. Heterogeneity Among Hospitals in the Percentages of All Lumbosacral Epidural Steroid Injections Where the Patient Had Received 4 or More in the Previous Year

Franklin Dexter, Amy C. Pearson, Richard H. Epstein

A48. Point-of-Care Ultrasound Education in Anesthesiology: How Can We Use the PGY1 Year?

Jon Holzberger, Annette Rebel, Amy Dilorenzo, Randall M. Schell, Jeremy S. Dority

41 THURS, MAY 16: AUA POSTER SESSION A

A49. The Ontology of Leadership: A Simulation-Based Introduction

Annandita Kumar, Philip Boysen

A50. Resource Utilization in Implementation of a PoCUS Curriculum for Resident Training in Anesthesiology

Viji Kurup, Garrett Sendlewski, Christine Baer, Ranjit Deshpande

A51. Faculty Gender Specific Academic Advancement in U.S. Anesthesiology Teaching Programs and Examination of Contributing Factors Based on Publicly Available Data

Brenda M. Lee, Farhad Zahedi, Ina Zaimi, David Moss, Roman Schumann

A52. Root-Cause Analysis for First Case Start Cancellations: Is It the Preoperative Clinic's Fault?

Thomas Mclarney, Annette Rebel, Lindsay Van Drunen, Dung D. Nguyen

A53. Women Program Directors in Anesthesiology: Closing the Gender Gap

Andrea N. Miltiades, Alexander Rusanov, Teresa Mulaikal, Maya Hastie

A54. The New Applied Exam Format: Does the Exam Sequence Matter?

Bjorn Olsen, Annette Rebel, Dung D. Nguyen, Amy Dilorenzo, Jeremy S. Dority

A55. Reducing Operating Room Delays: One Institution's Search for the Holy Grail

Scott M. Pappada, Christopher H. Nam, Soroush Merchant, Sonya Rygielski, Andrew Casabianca, Sadik Khuder, Thomas J. Papadimos

A56. Impact of a Delirium Reduction PACU Orderset on Administration of Beers Criteria Medications to Older Adults

Anne L. Donovan, Elizabeth L. Whitlock, Matthias R. Braehler

A57. Depth of Sedation as an Interventional Target to Reduce Postoperative Delirium: Mortality and Functional Outcomes of the Stride Randomized Clinical Trial

Frederick Sieber, Karin Neufeld, Allan Gottschalk, George Bigelow, Esther Oh, Jean Pierre Ouanes, Naeyuh Wang

A58. Beers Criteria in the Perioperative Period: Incidence of Perioperative Diphenhydramine, Midazolam and Scopolamine Use in Elderly Surgical Patients

Audrey E. Spelde, Gurmukh Sahota, Lee A. Fleisher, Sushila Murthy

A59. The INTUIT Study: Investigating Neuroinflammation Underlying Postoperative Neurocognitive Dysfunction and Delirium in Older Adults

Thomas Bunning, Heather E. Whitson, Kent Weinhold, Marty G. Woldorff, Eugene Moretti, Deborah Oyeyemi, Mary Cooter, Cliburn Chan, Roberto Cabeza, Jeffrey N. Browndyke, David Murdoch, Michael Deviny, Leslie Shaw, Harvey J. Cohen, Joseph P. Mathew, Miles Berger

A60. GFAP Expression in the Visual Cortex Is Increased in Juvenile Non-Human Primates That Were Exposed to Anesthesia during Infancy

Viola Neudecker, Jose F. Perez-Zoghbi, Marjorie Grafe, Ansgar Brambrink

A61. Influence of Perioperative Antibiotic Use on Postoperative Cognition

Sarah Cotter, Paul E. Wischmeyer, John Hunting, Rebecca Y. Klinger, Joseph P. Mathew

A62. Metabolipidomic Analysis of Cerebrospinal Fluid Reveals Increased Arachidonic Acid-Derived Lipids and Specialized Pro-Resolving Mediators 24 Hrs and 6-Weeks Following Surgery and Anesthesia

Michael Devinney, Krishna Rao Maddipati, Cliburn Chan, Joseph P. Mathew, Mary Cooter, Niccolo Terrando, Miles Berger

A63. Intraoperative Electroencephalogram Suppression Mediates the Relationship Between a Preoperative "Vulnerable Brain" Phenotype and Postoperative Delirium

Bradley A. Fritz, Christopher R. King, Nan Lin, Arbi Ben Abdallah, Michael Avidan

A64. Mechanism of Synaptic Plasticity Impairments and Cognitive Dysfunction Following Global Cerebral Ischemia

Paco Herson, Nidia Quillinan, Robert Dietz, James Orfila

A65. Intravenous D-Amphetamine Reverses Dexmedetomidine-Induced Unconsciousness in Rats

Risako Kato, Olivia Mallari, Edlyn R. Zhang, Eric Melonakos, Morgan Siegmann, Christa J. Van Dort, Oluwaseun Johnson-Akeju, Ken Solt

A66. Dexmedetomidine Prevents Lipopolysaccharide (LPS)-Induced Neuroinflammation and Cognitive Decline through An α 2A Adrenoceptor Mechanism in Mice

Mervyn Maze, Rong N. Li, Kit I Lai

A67. Phenoxyalkoxypsoralen-1 (PAP-1), a Highly-Selective Kv1.3 Channel Blocker, Prevents Neuroinflammation and Postoperative Cognitive Decline in Vulnerable Mice

Mervyn Maze, Kit I. Lai, Rong N. Li, Sarah Saxena, Yosuke Uchida, Heike N. Wulff

A68. Soluble Epoxide Hydrolase Blockade at Reperfusion Reduces Extent of Cerebral Injury after Focal Ischemia in Mice

Robert E. Shangraw, Nabil Alkayed, Wenri Zhang

A69. The Lower Limits of Neonatal Cerebral Autoregulation during Congenital Cardiac Surgery

Eric L. Vu, Brendan L. Smith, Craig G. Rusin, R. B. Easley, Dean Andropoulos, Ken M. Brady

A70. Anesthetic Hysteresis Collapses on a Timescale Unrelated to Pharmacokinetics

Andrzej Wasilczuk, Andrew McKinstry-Wu, Benjamin Harrison, Bo Ku, Juliette Palermo, Paula Kwasniewska, Max B. Kelz, Alexander Proekt

A71. Regulation of Neuroinflammation and NLRP3 Inflammasome Signaling in Perioperative Neurocognitive Disorders

Zhiquan Zhang, Qing Ma, William Barclay, Ramona M. Rodriguiz, William Wetsel, Mari Shinohara, Niccolo Terrando

A72. The Impact of Psychopathological Conditions on In-Hospital Opioid Consumption and Pain Scores Following Laparoscopic Sleeve Gastrectomy for Obesity

Joe Cerasuolo, Roman Schumann, Mohammad Dahlawi, Amr Jijakli, Sajani Shah, Iwona Bonney, Sara Morrison

A73. Opioid-Free Anesthesia in Bariatrics: Does It Make a Difference?

Masha Zeltsman, Judith Aronsohn, Madina Gerasimov, Greg Palleschi, Oonagh Dowling

A75. Prenatal, Labor, and Postpartum Pain Are Predictors for Postpartum Depression Symptoms: A Prospective Observational Study

Grace Lim, Kelsea Lasorda, Lia M. Farrell, Ann McCarthy, Francesca Facco

A76. Usage of 'Big-Data' Analysis for Choosing the Optimal Timing of Epidural Analgesia in Primiparae and Multiparae in a Retrospective Electronic Medical Record (EMR) Based Study

Eshel A. Nir, Michal Lipschuetz, Sarah M. Cohen, Joshua Guedalia, Ron Unger, Simcha Yagel

A77. Evaluation of Ultrasound-Guided Vena Cava Diameter Measurement to Predict Hemodynamic Changes after Labor Epidural Analgesia

Efrain Riveros Perez, Justin Dumrongkulraksa, Maria G. Sanchez, Alexander Rocuts

A78. Biased Properties Observed with Opioid Reward and Relapse in the Presence of Incisional Injury in Mice

Chinwe Nwaneshiudu, Xiao You Shi, David Clark

A79. Impact of an Interactive Music App on Pain Threshold, Temporal Summation, and Conditioned Pain Modulation in Healthy Volunteers

Kristin L. Schreiber, Jasmine Gale, Peter Chai, Richard B. Boyer, Robert R. Edwards

A80. PGC-1 α Haploinsufficiency Is Related to Pain Chronification after Burn Injury

Shiqian Shen, Jiamin Miao, Xue Zhou, Weihua Ding, Zerong You, Jianren Mao

A81. An Earlier Educational Intervention in Residents Improves Knowledge of Non-Opioid Acute Pain Management in the In-Patient Hospital Setting

Harpreet Dhiman, Jennifer Knuth, Melissa Ehlers, Anthony Ocon, Yi Zhou, Henry Nagle, Ravneet Bhullar

A82. Effect of Catechol-O-Methyltransferase (RS4680) Single Nucleotide Polymorphism on Opioid Induced Hyperalgesia in Adults with Chronic Pain

Danqing Hu

A83. Individualized Anesthesia and Surgical Risk Assessment: A Multi-Center Study

Joshua A. Bloomstone, Jessica Curran, Tania Haddad, John Jordan, Rafael Noriega, Jennifer Pedersen, Kelli Duarte, Deb Farley, James Steinshouer, Kellie Kieffer, David Sheinbein

A84. Sedation Complications by Non-Anesthesia Providers May Be Related to Standards of Training

Jacquelyn Francis, Vilma Joseph

A85. Procedures Associated with Anesthetic Complications in the United States

Abigail Souryal, Ali Seifi

A86. Educational Interventions to Prevent Perioperative Syringe Swaps of High-Alert Medications

Jamie Sparling, Douglas Choe, Allison Doney, Jeremi Mountjoy, Aalok V. Agarwala, Kathy Kong, Leo Tabayoyong, May C. Pian-Smith

A87. Solutions for Management of Angiotensin Converting Enzyme Inhibitor-Induced Angioedema in a High Risk Population: A Single Center Retrospective Observational Study

Tracey Straker, Alexandra Bastien, Dahlia Townsed, Singh Nair

A89. Safety of Prophylactic Antifibrinolytics in Children Undergoing Spinal Fusion

Lisa Eisler, Minjae Kim, Lena Sun, David Faraoni

A90. Identifying Unnecessary Blood Transfusions in Patients Undergoing Craniofacial Surgery using National Craniosynostosis Registry Dataset

Allison M. Fernandez, Lillian Zamora, Ali Jalali, Luis Ahumada, Jim Fackler, Mohamed Rehman

A91. Preventing Spinal Cord Injury & Infarction in Patients with Mucopolysaccharidosis during Non-Spine Surgery

Jonathan Halem, Mary C. Theroux, William G. Mackenzie, Phoebe Fisher, Anthony Dinardo

A92. A Neonatal Cardiac Arrest: What Could Be Happening?

Adnan R. Khan, Ana Crnkovic, Melissa Ehlers

A93. The Role of Preoperative Multi-Modal Analgesia Following Pediatric ENT Surgery

Brooke Leblanc, Sarah Martin, Luis Salcedo, Bobby D. Nossaman

A94. The Electroencephalographic Signature of Spinal Anesthesia in Infants: A Multi-Center Pilot Study

Emmett Whitaker, Jerry Y. Chao, Elissa Yozawitz, Alan Legatt, Gregory L. Holmes, Robert Williams
Junior Faculty Travel Award in Pediatric Anesthesia

A95. Propofol Toxicity in Cardiomyocyte Mitochondria of Developing Mice: The Role of the Mitochondrial Transition Pore

Richard J. Levy, Matthew Barajas, Sarah Brunner, Aili Wang, Lifei Wang

A96. Spinal Anesthesia in Neonates Presenting for Infraumbilical Surgeries Can Improve Operating Room Utilization in Addition to Reducing Risk for Postoperative Apnea and Hemodynamic Fluctuations

Chang Amber Liu

A97. Temporal Changes in the Frequency of Intraoperative Hypotension in Children

Jonathan A. Sohn, Bishr Haydar, Aleda Thompson, Shobha Malviya, Olubukola O Nafiu

A98. Focused Transthoracic Echocardiography and Peri-Operative Cardiac Arrest: Feasibility Study

Nibras Bughrara, Susan L. Herrick, Krishnaveni Sirigaddi, Kevin Roberts, Aliaksei Pustavoitau

A99. Benzodiazepine Use after Discharge from Inpatient Surgery

Adlei B. Carlson, Lena Mayes, Ana Fernandez-Bustamante, Karsten Bartels

A100. Peripheral Nerve Blocks: An Approach Towards Opioid Free Laparoscopic Living Donor Nephrectomy

Nikhil Chawla, Ranjit Deshpande, Elizabeth Cohen, Claudia Fernandez-Robles, Nikhil Chawla, Vincent Do, Ramesh Batra

A101. A Novel Method of Crosslinking Mass Spectrometry Identifies Distinct Alpha 2 Macroglobulin Crosslinks in Pathological Coagulation

Nathan Clendenen, Rachel Henderson, Nathaen Weitzel, Angelo D'Alessandro, Kirk Hansen

A102. The Effect of Perioperative Use of Normal Saline Solution As Compared to Balanced Crystalloids on Graft Function in Patients Undergoing Living Donor Kidney Transplantation

Kerstin Kolodzie, Eshandeeep S. Boparai, Ozlem S. Cakmakkaya, Mehdi Tavakol, John Feiner, Claus U. Niemann

A103. Current Evidence of Intravenous vs Volatile Anesthesia on Breast Cancer Surgery Outcome

Jun Lin

A104. Quantifying the Impact of Physician Supervision on Nurse Anesthetists' Risk-Adjusted Antiemetic Prophylaxis

Stephan Maman, Michael H. Andreae

A105. A Pilot Feasibility Trial of Physical and Cognitive Prehabilitation to Improve Outcomes in Surgical Patients

Kimberly Rengel, Nitin Mehdiratta, Susan Vanston, Kristin Swygert, Jim Jackson, Pratik Pandharipande, Christopher G. Hughes

A106. Association Between Preoperative Opioid Weaning and Subsequent Long-Term Opioid Use: A Retrospective Analysis

Christopher Rishel, Martin S. Angst, Eric Sun

A107. The Pattern of Perioperative High-Density Lipoprotein Particle Loss Is Independently Associated with Acute Kidney Injury after Cardiac Surgery

Loren Smith, Derek K. Smith, Alan T. Remaley, Macrae F. Linton, Frederic T. Billings

A108. Ultrasound Guided Supraclavicular vs Retroclavicular Block of the Brachial Plexus: Comparison of Impact on Ipsilateral Diaphragmatic Function

Paige L. Georgiadis, Kamen Vlassakov, Philipp Lirk, Jose Zeballos, Kristin Schreiber

A109. Merging Physics with Anesthesia: The Sota Omoigui Short Needle Technique for Interventional Procedures

Sota Omoigui

A110. Ultrasound Guided Stellate Ganglion Block for the Treatment of Electrical Storm Refractory to Percutaneous Ablation: A Case Report

Estuardo J. Saravia Fernandez, Paramvir Singh

A111. Correlation Between Lung Mechanics Parameters during Abdominal Surgery and Plasma Levels of Biomarkers of Lung Injury

Ana Fernandez-Bustamante, Juraj Sprung, Karsten Bartels, Carolina Kosour, Toby Weingarten, Marcos Vidal Melo



ASSOCIATION OF UNIVERSITY ANESTHESIOLOGISTS

ABOUT

The Association of University Anesthesiologists bolsters academic anesthesiology through:

- Deliberate mentorship of academic anesthesiologists, under the rubric of faculty development
- Programmatic and ongoing career development of anesthesiology researchers, educators, and academic leaders throughout their careers
- The organization of an outstanding annual academic meeting
- Targeted provision of networking opportunities to academic anesthesiologists

AUA MEMBER BENEFITS

- Discounted pricing for the AUA Annual Meeting
- Discounted membership in the IARS
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- If leadership track, major national and/or institutional leadership roles

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- Institutional or statewide reputation, with potential for national recognition
- If research track, evidence of developing research program or training grant
- If educational track, evidence of teaching excellence and departmental contributions
- If leadership track, evidence of leadership role or trajectory

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- An individual who has made distinguished contributions to academic anesthesiology, but does not have a primary faculty appointment.

Visit auahq.org/nominations to review guidelines, learn more about membership types, and to submit the nomination form.

IMPACT AWARDS

Multicenter Pragmatic Anesthesiology Clinical Trials (IMPACT) Program

May 19, 2019 | Montreal, Canada

Join us for our second 'Initiative for Multicenter Pragmatic Anesthesiology Clinical Trials' (IMPACT) program during the IARS, AUA, SOCCA Annual meetings.

The program will showcase promising pragmatic trials from some of tomorrow's leaders in anesthesiology research. The meeting is open to those interested in anesthesiology-related clinical and translational science. **To learn more, visit auahq.org/impact-award**



A112. The Bronchodilator and Nutraceutical Ginger Reduces Lung Inflammation in a Murine Asthma Model

Julie J. Hwang, Gene T. Yocum, Charles W. Emala

A113. Natural Components of Ginger Relax Airway Smooth Muscle via Inhibition of Multiple Cell Signaling Events

Elvedin Lukovic, Yi Zhang, Charles W. Emala

A114. Retinal Derivatives Shifts Wavelength Sensitivity of Airway Smooth Muscle Photorelaxation

Peter Yim, Amy Wu, William Dan, Charles W. Emala

A115. The Analysis of Pediatric EEG using Poincaré Plot after a Fast Fourier Transformation Under Sevoflurane Anesthesia

Kazuma Hayase, Teiji Sawa

A116. Preoperative Left Ventricular Energy Loss in the Operating Theater Reflects Subjective Symptoms in Patients with Chronic Aortic Regurgitation

Atsushi Kainuma, Koichi Akiyama, Yoshifumi Naito, Mao Kinoshita, Masaru Shimizu, Maki Ishii, Junya Ohara, Teiji Sawa

A117. Hemodynamic Compensation during Selective Fetoscopic Laser Photocoagulation using the Compensatory Reserve Index

David Leopold, Ryan Phillips, Cristina Wood, Nicholas Behrendt, Michael Zaretsky, Henry Galan, Steven Moulton

A118. Background Music Contributes to Error in the Operating Room

Joseph Schlesinger, Kendall J. Burdick, Clayton D. Rothwell

A119. Variability in Examining Residual Neuromuscular Blockade after the Use of Neuromuscular Blocking Agents: A Systematic Review of Randomized Controlled Trials

Amit D. Raval, Jennifer Uyei, Vamshi Ruthwik Anupindi, Cheryl P. Ferrufino, Andreas Karabis, Diana Arper, Lori D. Bash, Sorin Brull

A120. Predicting Need for Trauma Center Admission Emergency Intubation: Comparison of Field Glasgow Coma Scale with In-Flight Patient Vital Signs

Peter F. Hu, Shiming Yang, Doug Floccare, Samuel Galvagno, Chien-Yu Lin, Dennis C. Winans, Catriona Miller, Colin Mackenzie, Peter Rock

A121. Circulating Plasma Mirnas Trigger Innate Immune Activation in a Mouse Model of Polytraumatic Injury

Andrew O. Suen, Sheng Wang, Lin Zou, Rosemary Kozar, Catriona Miller, Wei Chao

B150. Anesthetic Sensitivities in the Zebrafish

Victoria Bedell, Jayce Breig, Micheal A. Pack, Max B. Kelz, Roderic G. Eckenhoff

B151. A Sevoflurane Binding Site in Ryanodine Receptor 1

Thomas T. Joseph, Grace Brannigan, Roderic G. Eckenhoff, Kellie Woll

B152. RNA-Seq Analysis of Rat Frontal Lobe, Hippocampus, and Amygdala after Long-Term Administration of Ketamine and Isoflurane Anesthesia

Jenny Kim, Matt Sapio, Amelia Loydpierson, Michael Iadarola, Andrew Mannes

B153. GABA_A Receptor Actions of ABP-700 and Its Carboxylic Acid Metabolite CPM-Acid: Implications for Toxicological Studies and Clinical Development

Megan McGrath, Beartrijis Valk, Douglas E. Raines

B154. Behavioral Responsiveness Fluctuates at Steady EC50 Across Species and Anesthetic Agents

Andrew McKinstry-Wu, Andrzej Wasilczuk, Victoria Bedell, Benjamin Harrison, Max B. Kelz, Alexander Proekt

B155. Novel Circulating Metabolic Markers Improve Discrimination of Metabolic Health Independent of Weight

Stephen Ellison, Lydia Kwee, Nathan Bihlmeyer, James Bain, Damian Craig, William Kraus, Svati Shah

B156. Continuous Erector Spinae Plane Block Facilitates Opioid Sparing after BATS Surgery: A Case Series

Rebecca Anderson, Rebecca Y. Klinger, Thomas D'Amico

B157. Discovery of Two Different Mechanisms of Spinal Cord Injury and Paralysis after Open vs Endovascular Aortic Aneurysm Repairs using Canine Models

Hamdy Awad, Gerard Nuovo, Hosam El Sayed, Hesham Kelani, Mostafa Eltogy, Raphael Malbrue, Jean-Jacques Michaille, Esmerina Tili, Alexander Efanov

B158. Large Right Ventricular Outflow Tract Tumor: Anesthetic Management and Evaluation by Transesophageal Echocardiography

Brad P. Moore, Steven Miller

B159. Severe Cardiac Clot Burden in Pulmonary Embolism: Evaluation by Transesophageal Echocardiography

Brad P. Moore, Isaac Wu

B160. Light Elicited and Endothelial Specific PER2 Maintains Vascular Integrity during Murine Myocardial Ischemia via Metabolic Reprogramming

Yoshimasa Oyama, Tobias Eckle

B161. Bacterial Sepsis Increases Fibrillary Amyloid Load and Neuroinflammation in a Mouse Model of Alzheimer's Disease Pathology

Jacob Basak, Collin J. Nadarajah, Lucy S. Cohen, Patrick W. Sheehan, Erik S. Musiek
Resident Travel Award

B162. Hyperoxic Resuscitation Following Canine Cardiac Arrest Increases Cerebellar Purkinje Neuronal Damage and Inflammatory Microglial Activation

Gary Fiskum, Da Lee, Julie Proctor, Robert E. Rosenthal

B163. Lower Oxygen Delivery Is Associated with Delirium and Death in a Single Center Retrospective Cohort Study of 1,452 Patients

Nathan Clendenen, Benjamin Abrams, Nathaen Weitzel

B164. The Alveolar Epithelium Produces Cytotoxic Amyloids That Disrupt Naïve Alveolar-Capillary Integrity via the Receptor for Advanced Glycation End-Products

Brant Wagener, Jean-Francois Pittet, Angela Brandon, Ryan Berry, Steven Gu, Ronald Balczon, Troy Stevens

B165. Absence of TLR7 Alleviated Acute Lung Injury in Mouse Model of Polymicrobial Sepsis

Lin Zou, Lili Gu, Ping Cui, Jessica Neder, Yunbo Ke, Anna Birukova, Konstantin Birukov, Wei Chao

B166. Performance at Simulated Endotracheal Intubation Can Predict Trainee Clinical Success

Randolph H. Hastings, Jericho Hallare, Benjamin Lurie, Rodney A. Gabriel, Preetham Suresh

B167. The Impact of Caffeine Ingestion on the Driving Performance of Anesthesiology Residents after Six Consecutive Overnight Work Shifts

Julie Huffmyer, Amanda Kleiman, Matthew Moncrief, David Scalzo, Daniel J. Cox, Edward C. Nemergut

B168. Patient Attitudes to Smoking Cessation in the Perioperative Setting

Viji Kurup, Danielle Mcglynn, Cheryl K. Zogg

B169. Electronic Decision-Support Tools to Enhance Compliance with Performance Measures for Perioperative Temperature Management

Sameer Lakha, Matthew Levin, Andrew Leibowitz, Hung-Mo Lin, Jonathan Gal

B170. Use of 30-Day Versus 90-Day Mortality Rates Following Cardiac Surgery to Compare Quality in New York State

Aaron Mittel, Dae Hyun Kim, Zara Cooper, Michael Argenziano, May Hua

B171. How Do Patients Who Respond to Anesthesia Satisfaction Surveys Differ from Patients Who Choose to Not Respond?

Anastasia Pozdnyakova, Avery Tung, Richard Dutton, Anum Wazir, David Glick

B172. Posterior Cerebellar Strokes in Mice Cause Memory and Hippocampal Synaptic Plasticity Impairments

Nidia Quillinan, Myriam Moreno-Garcia, James Orfila

B173. Cell-Type Specific Expression of Anesthetic Target Proteins Parallels Cell-Type Selective Effects of Isoflurane in Mouse Frontal Lobe in Vivo

Andrew Hudson

B174. Drug-Specific Training Improves the Performance of an Automatic Brain-State Prediction Model

Kimia Kashkooli, Sam Polk, Shubham Chamadia, Eunice Hahm, Juan C. Pedemonte, Oluwaseun Johnson-Akeju

B175. Pharmacological Induction of Sirtuin 3 Confers Neuroprotection in a Novel Rat Model of Lethal Hemorrhagic Shock Treated by Emergency Preservation and Resuscitation

Qing Ma, Zhiquan Zhang, Joseph P. Mathew, Niccolo Terrando, Mihai Podgoreanu

B176. Sprouted Mossy Fibers Drive Epileptiform Activity in Mice after Brain Insults

Eric Schnell, William D. Hendricks, Gary L. Westbrook

B177. Mithramycin Attenuates DNA Damage-Induced Apoptosis in Rat Primary Cortical Neurons by Inhibiting Mitochondrial Membrane Permeabilization

Bogdan Stoica, Oleg Makarevich, Nicholas Braganca, Niaz Khan, Boris Sabirzhanov

B178. Lumbosacral Radiculopathy: Inciting Events and Their Association with Epidural Steroid Injection Outcomes

Alyson Engle, Yian Chen, Bryan Marascalchi, Indy Wilkinson, Cathy He, Winfred B. Abrams, Peju Adekoya, Zared O. Cohen, Ada Lyn Yao, Steven P. Cohen

B179. Postoperative Motivational Interviewing Based Opioid Tapering to Promote Opioid Cessation in Adults Undergoing Orthopedic Surgery: A Randomized Clinical Trial

Jennifer Hah, Partha Krishnamurthy, Heather Hilmoe, Ian Carroll, Sean Mackey

B180. Association and Predictors of Opioid Discontinuation after Surgery Among Chronic Opioid Users in Ontario

Naheed Jivraj, Damon Scales, Tara Gomes, Jennifer Bethell, Andrea D. Hill, Ruxandra Pinto, Duminda N. Wijeyesundera, Hannah M Wunsch

B181. Predicting Analgesia by Acupuncture using Machine Learning Techniques

Jiang-Ti Kong, Lu Tian, Sean Mackey

B182. Desire for Painless Surgery and Underestimation of Prescription Opioid Related Risks Prevalent in Perioperative Patients

Soleil Schutte, Linda Le-Wendling

B183. Sustaining the Gains: A 6 Year Follow through of the Impact of a Hospital Wide Patient Safety Strategy on Global and Anesthetic Patient Safety Outcomes

Ming Ann Sim, Lian Kah Ti, Sandhya Mujumdar, Sophia Chew, Mohan Kumar Bhuvaneshwari, Sophia Ang Margaret Wood Resident Research Award

B184. A Deep Learning Model for Predicting 30-Day Postoperative Mortality

Bradley A. Fritz, Zhicheng Cui, Muhan Zhang, Yujie He, Yixin Chen, Alexander Kronzer, Arbi Ben Abdallah, Christopher R. King, Michael Avidan

B185. Intraoperative Factors That Improve Risk Prediction of Postoperative Acute Kidney Injury in General Surgery Patients

Minjae Kim, Ravi Kiran, Guohua Li

B186. Preoperative Neonatal Intensive Care Unit Handovers: Effectiveness & Non-Routine Events Before & After Implementation of a Handover Tool & Process Change

Amanda Lorinc, Daniel J. France, Jason Slagle, Maria Sullivan, David Roberts, Matthew B. Weinger

B187. Incidence of Patient Safety Events Associated with Prolonged Extubation

Andrea Vannucci, Kevin Prifti, Isabella Rossi, Anne Sebastiani, Daniel Helsten, Dorina Kallogjeri, Laura F. Cavallone

B188. Incidence and Risk Factors of Prolonged Tracheal Extubation after General Anesthesia

Andrea Vannucci, Kevin Prifti, Anne Sebastiani, Isabella Rossi, Daniel P. Lander, Daniel Helsten, Dorina Kallogjeri, Laura F. Cavallone

B189. Distraction as a Means of Providing Procedural Anxiolysis for a Three Year Old with Severe Biventricular Cardiomyopathy

Adam C. Adler

B190. Exposure to Surgery and Anesthesia in Early Childhood and Subsequent Use of Stimulant Medication

Caleb Ing, Xiaoyue Ma, Ming Sun, Melanie Wall, Mark Olfson, Guohua Li

B191. Children and Adults with Congenital Heart Disease Show No Difference in Scores on Measures of Behavior As Compared to Their Healthy Peers: A Systematic Review and Meta-Analysis

William M. Jackson, Mohammad Sadat, Lena Sun

B192. Opioid-Sparing Analgesic Usage Among Pediatric Anesthesiologists: A Survey of Society for Pediatric Anesthesia Members

Michael R. King, Rebecca Wu, Thomas A. Anderson

B193. Intranasal Insulin Prevents Anesthesia-Induced Cognitive Impairment in Juvenile Mice

Patricia Roque, Tamaki Sato, Yosuke Nakadate, Hiroaki Sato, Shelly Yin, Mehdi Hooshmandi, Linda Wykes, Arkady Khoutorsky

B194. Epidemiology of Surgical Site Infection in Spinal Fusion Surgery and Patterns of Discordance with Surgical Antibiotic Prophylaxis: A Retrospective Case-Level Analysis

Dustin R. Long, Jeannie Chan, Chloe Bryson-Cahn, John Lynch
Junior Faculty Travel Award in Perioperative Medicine

B195. Incidence of Persistent Opioid Use in Children after Surgery

Thomas A. Anderson, Andrew T. Ward, Beth De Souza, Ellen Wang, Daniel Miller, Nicholas Bambos

B196. The Impact of Nutraceutical Pre-Habilitation and Postoperative Treatment with Ecosapentanoic Acid (EPA) and Acetylsalicylic Acid on a Novel Animal Model of Recovery after Surgery

Juan Cata, Miguel Patino Montoya, Michael Lacagnina, Ruben Agudelo-Jimenez, Imad Shureiqi, Carin Hagberg, Peter Grace

B197. Deep Immune Profile of Preoperative Glucocorticoid Administration in Patients Undergoing Surgery

Brice Gaudilliere, Edward A. Ganio, Natalie Stanley, Jakob Einhaus, Amy S. Tsai, Anthony Culos, Kristen Rumer, Ramin Fallahzadeh, Viktoria Lindberg-Larsen, Henrik Kehlet, Martin S. Angst, Nima Aghaeepour

B198. Comparison of Sugammadex and Neostigmine for Reversal of Rocuronium Neuromuscular Blockade on the Incidence of Postoperative Pulmonary Complications: A Randomized Controlled Trial
Brandon M. Togioka, N. David Yanez, Michael Aziz, Janna R. Higgins, Miriam Treggiari

B199. The SANDMAN Study: Sleep Apnea, Neuroinflammation, and Cognitive Dysfunction Manifesting after Non-Cardiac Surgery
Michael Deviney, Andrew R. Spector, Jeffrey N. Browndyke, Patrick J. Smith, Jennifer Dominguez, Thomas Bunning, Mary Cooter, Joseph P. Mathew, Miles Berger

B200. Response to Inhaled Anesthetics Measured by the Triple Variable Index Reveals Population-Specific Patterns of Intraoperative Hypotension Exposure
Michael P. Schnetz, Pritika Dasgupta, Douglas Landsittel, Harry Hochheiser, Keith M. Vogt, James W. Ibinson, Steven Whitehurst, Aman Mahajan, David Danks, Ata M. Kaynar
Resident Travel Award

B201. Implementation of a Distributed Research Network Virtual Data Warehouse for a Multi-Center Observational Study
Seshadri Mudumbai, Fan Wu, Justin Chambers, Aditi Kapoor, Jennifer S. Lee, David Clark, Edward R. Mariano, Randall S. Stafford
Junior Faculty Research Award

B202. Different Responses of Healthy Humans Subjected to Lower Body Negative Pressure Induced Hypovolemia using Continuous Noninvasive Arterial Pressure Cycle Duration and Heart Rate
Anna-Maria E. Eid, Aymen Alian, Kirk Shelley, Mohamed Elgamal, Mohamed Eid

B203. A Novel Learning Management System to Revolutionize Generation, Administration, and Assessment of Simulation-Based Medical Education
Scott M. Pappada, Mohammad H. Owais, Cristina Alvarado, Jeffrey Schneiderman, Douglas Brunner, Andrew Casabianca, James Hofmann, Thomas J. Papadimos

SOCCA SCHEDULE





6:15 am – 7:15 am *Parc Mont-Royal*

Breakfast with Exhibitors

7:30 am – 8:00 am *Av. Duluth*

Welcome Address and Introduction

Daniel R. Brown, MD, PhD, Mayo Clinic, SOCCA Board of Directors Chair
Sheela Pai Cole, MD, Stanford University, SOCCA Committee on Education Chair

8:00 am – 5:00 pm

Place du Canada / Square Dorchester

SOCCA Poster Session C: Open Viewing

For session details, see the SOCCA Posters tab.

8:00 am – 9:00 am *Av. Duluth*

Education Session I

Critical Advances, Critical Care

Moderated by Aalok K. Kacha, MD, PhD, The University of Chicago Medicine

New Anticoagulants

Ian Welsby, MD, Duke University School of Medicine

Device Update

Peter Von Homeyer, MD, FASE, University of Washington Medicine

What is New in Antibiotics

Noreen Murphy, MD, University of Wisconsin School of Medicine and Public Health

9:15 am – 10:15 am *Av. Duluth*

Education Session II

Beyond the Standard: New Resuscitation Paradigms in Critical Care

Moderated by Talia K. Ben-Jacob, MD, Cooper Medical School of Rowan University, Cooper University Hospital

Blood Pressure Targets in the ICU

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

Microcirculation and the Success of Resuscitation

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

Sepsis Update

Mark Nunnally, MD, FCCM, New York University Langone Medical Center

10:15 am – 10:45 am

Break

10:45 am – 12:15 pm

Place du Canada / Square Dorchester

SOCCA Poster Session C: Moderated Poster Discussion Sessions

For session details, see the SOCCA Posters tab.

12:15 pm – 1:15 pm

Lunch On Your Own

Check out the Marché Artisans for a quick bite, or any of the many restaurants located in the hotel.

1:15 pm – 2:00 pm

Av. Duluth

YOUNG INVESTIGATOR PRESENTATIONS: AWARD-WINNING RESEARCH

Moderated by Robert D. Stevens, MD, FCCM, The Johns Hopkins University School of Medicine & SOCCA Committee on Education

Sheela Pai Cole, MD, Chair
Peter Von Homeyer, MD, FASE, Vice Chair
Ashish K. Khanna MD, FCCP, FCCM
Kunal Karamchandani, MD, FCCP

Introduction

Sheela Pai Cole, MD, Stanford University; Chair, SOCCA Committee on Education

Young Investigator Award 2nd Runner-up Presentation

The INTUIT Study: Investigating Neuroinflammation Underlying Postoperative Neurocognitive Dysfunction and Delirium in Older Adults

Thomas Bunning, BS, Duke University Medical Center

Young Investigator Award 1st Runner-up Presentation

Sustaining the Gains: A 6-year follow through of the Impact of a Hospital-Wide Patient Safety Strategy on Global and Anesthetic Patient Safety Outcomes

Ming Ann Sim, MBBS, National University Hospital Singapore

Young Investigator Award Winner Presentation

Effects of Incubating Packed Red Blood Cells with Common Infusion Crystalloids and Medications on Red Blood Cell Lysis, Aggregation and Deformability

Domagoj Mladinov, MD, PhD, University of Alabama at Birmingham



2:00 pm – 2:55 pm

Av. Duluth

Lifetime Achievement and Burchardi Presentations: Award-Winning Research

Moderated by Mark Nunnally, MD, FCCM, New York University Langone Medical Center

Lifetime Achievement Award Presentation
Patient Blood Management in the ICU
Aryeh Shander, MD, FCCM, FCCP, FASA, Englewood Hospital and Medical Center

Burchardi Award Presentation

Michael O'Connor, MD, The University of Chicago Medicine

3:00 pm – 3:30 pm

Break

3:30 pm – 4:30 pm

Av. Duluth

Education Session III

Doctoring and Social Media

Moderated by Sheela Pai Cole, MD, Stanford University School of Medicine, SOCCA Committee on Education Chair

Of Tweets, Retweets, Hashtags, Likes and Dislikes: A Guide to Terminology and Etiquette

Sheela Pai Cole, MD, Stanford University School of Medicine

I Tweet Critical Care: I Cannot Do Without It

Vivek Moitra, MD, Columbia University Medical Center

I Think It's a Distraction: Several Reasons to Thrive Without It

Sree V. Satyapriya, MD, The Ohio State University - Wexner Medical Center

5:30 pm – 6:30 pm

Square Victoria

Scholars' Program Mentoring and Networking Reception

Meet and network with the leaders of the anesthesiology field – and Scholars' Program participants will be paired with mentors.

This reception is part of the Scholars' Program, and a ticketed event, visit registration for details.

4:45 pm – 5:45 pm

Av. Duluth

Education Session IV

Final Priorities: Ethics and Quality of Life

Moderated by Allison Dalton, MD, The University of Chicago Medicine

Ethics Consultation

Nicholas Sadovnikoff, MD, Brigham and Women's Hospital

Role of Palliative Care

May Hua, MD, MSc, Columbia University

Value and Cost: End of Life Matters

Michael Nurok, MBChB, PhD, FCCM, Cedars-Sinai Medical Center

5:45 pm – 6:00 pm

Av. Duluth

Closing Remarks

Daniel R. Brown, MD, PhD, Mayo Clinic, SOCCA Board of Directors Chair
Sheela Pai Cole, MD, Stanford University School of Medicine, SOCCA Committee on Education Chair

6:00 pm – 6:30 pm

Av. Duluth

SOCCA Business Meeting

6:30 pm – 8:00 pm

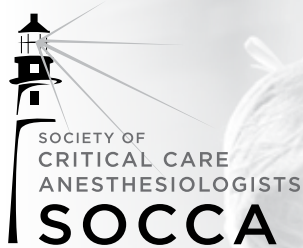
Reception with Exhibitors

7:00 pm – 8:30 pm

Taste of Montreal Dine-Around

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

Be sure to stay for
Aligned Meeting Day tomorrow,
May 18, at the Fairmont The Queen
Elizabeth hotel – every IARS,
AUA and SOCCA attendee is
welcome at every session!
See the IARS Sessions tab for
Saturday's details.



THE SOCIETY OF CRITICAL CARE ANESTHESIOLOGISTS

JOIN

SOCCA is an educational organization that fosters the role of anesthesiologists as perioperative specialists and provides for continuing education and interchange of ideas

Benefits include:

- Discounted pricing for the SOCCA Annual Meeting
- Discounted membership in the IARS
- Free ICU Residents' Guide
- Free digital newsletter SOCCA Interchange

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VOLUNTEER

SOCCA committees provide an excellent opportunity to get involved and make a difference in the Critical Care Anesthesia community.

- Engage with other members and make an impact on issues in Critical Care Anesthesia
- Collaborate and grow your knowledge and skills to support professional development
- Network with other SOCCA members

Get involved with a committee

Communications | Education | Membership | Nomination | Research

[SOCCA.org/volunteer](https://www.socca.org/volunteer)

RENEW

SOCCA is dedicated to the support and development of anesthesiologists who care for critically ill patients of all types. SOCCA fosters the knowledge and practice of critical care medicine by anesthesiologists through education, research, advocacy, and community.

[SOCCA.org/renew](https://www.socca.org/renew)

SOCCA POSTERS





61 POSTER SESSIONS: SOCCA (C)

All poster sessions, the Poster Information desk, and the Call4Posters™ desk are located in the Place du Canada and Square Dorchester Rooms.

SOCCA Poster Sessions are grouped based on subspecialty topic and will include an open poster viewing time and a moderated poster discussion session.

SOCCA POSTER SESSION C: FRIDAY, MAY 17

7:00 am – 7:30 am	Setup
8:00 am – 5:00 pm	Open Viewing
10:45 am – 12:15 pm	Moderated Discussion Session
5:00 pm – 5:30 pm	Breakdown

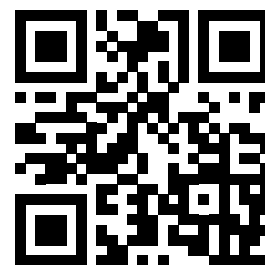
Viewing e-Posters

e-Posters are available for viewing throughout the Annual Meetings at <http://tiny.cc/lr3l5y>.

Call4Posters™ Pick-up

Orders placed through Call4Posters™ will be available for pick-up at the Call4Posters™ Desk.

Thursday, May 16	7:00 am – 1:30 pm
Friday, May 17	7:00 am – 1:30 pm



62 POSTER CATEGORY INDEX: SOCCA

Airway Management	C1-5
Ambulatory Anesthesia	C6-10
Anesthetic Pharmacology	C11-12
Blood Management	C13-15
Cardiovascular Anesthesiology	C16-19
Critical Care	C20-63, C135
Economics, Education and Policy	C64-70
Geriatric Anesthesia	C128
Medically Challenging Cases	C71-114
Neuroscience in Anesthesiology and Perioperative Medicine	C115-122
Obesity	C127
Pain Medicine	C123-124
Patient Safety	C125-126
Perioperative Anesthesia	C129-134, C136-138
Regional Anesthesia	C139-140
Technology, Computing and Simulation, Equipment Monitoring	C141-145

C1. The Completeness of Intubation Documentation in Urgent and Emergent Non-Operating Room Settings Between Different Record Formats

Claudia Bruguera, Roman Schumann, Dana Arekat, Natalia Stamas, John Adam Reich, David Moss, Edward Hong, Jacob Ludington, Andrea Tsai

C2. A Difficult Airway Early Warning System in Patients at High Risk for Clinical Decompensation: A Feasibility Study

Anna Budde, Stephen Estime

C3. A Difficult Airway in the ICU: Complicated by a Bronchoesophageal Fistula

Jessica H. Kruse, Laurie Mark

C4. Anesthesia-Related Aspiration of Gastric Contents: A Retrospective Review of Recent Cases in a Large Teaching Hospital

Alexander Nagrebetsky, Daewoong Lee, Paul Howard, Lorenzo Berra, Edward Bittner

C5. A Pilot Study to Determine the Accuracy of Ultrasound in Measurement of the Dimensions of the Pediatric Cricothyroid Membrane

Bill A. Walsh, Paul Fennessy, Roisin Ni Mhuircheartaigh, Aisling Snow, Kevin Mccarthy, Conan McCaul

C6. The Effect of Systemic Lidocaine on Post-Operative Opioid Consumption in Ambulatory Surgical Patients: A Meta-Analysis of Randomized Controlled Trials

Danielle Lovett-Carter, Mark C. Kendall, Gildasio S. Deoliveira

C7. Does the Use of Intravenous Patient Controlled Analgesia (IPCA) Increase Opioid Consumption and Side Effects in Fast Track Orthopedic Procedures?

Sameh M. Abdelghany, Zeev Friedman, David Backstein, Jaclyn Ricci, Xiang Y. Ye, Naveed Siddiqui

C8. Thoracoplasty Under Thoracic Epidural Anesthesia: A Case Report

Satish Dhashmana

C9. High Rates of Postoperative Opioid Overprescription Following Ambulatory Breast Surgery

Anjali Dixit, Solmaz P. Manuel, Christina Inglis-Arkell

C10. High Rates of Postoperative Opioid Overprescription Following Minimally Invasive Ambulatory Surgery

Anjali Dixit, Solmaz P. Manuel, Christina Inglis-Arkell

C11. Propofol Toxicity in Cardiomyocyte Mitochondria of Developing Mice: The Role of the Mitochondrial Transition Pore

Matthew Barajas, Richard J. Levy, Sarah Brunner, Lifei Wang, Aili Wang

C12. Effects of Propofol and Its Components on Neutrophils Migration and Macrophages Obtained from Lung and Adipose Tissue of Obese Rats: An in Vitro Study

Luciana B. Heil, Fernanda F. Cruz, Mariana Antunes, Cassia Lisboa, Lais Agra, Rebecca Bose, Soraia Abreu, Paolo Pelosi, Pedro L. Silva, Patricia R. Rocco

C13. Effects of Incubating Packed Red Blood Cells with Common Infusion Crystalloids and Medications on Red Blood Cell Lysis, Aggregation and Deformability

Domagoj Mladinov, Kristine Yarnoff, Erika Nagababu, Dan Berkowitz, Courtney Lawrence, Paul Ness, Thomas Kickler, Patricia Bruner, Joan Boyd, Jeffrey Dodd-O
Young Investigator Award - Winner

C14. Platelet Functionality Is Decreased after Infusion through a Rapid Infusion System

Shahrukh Bengali, Ilan Keidan, Nikolaus Gravenstein, Jeffrey D. White, Joshua Sappenfield

C15. Hospital Discharge Hemoglobin Values and Post-Hospitalization Outcomes for Transfused Non-Cardiac Surgery Patients

Mitchell Kerfeld, Matthew Warner, Daryl J. Kor, Ryan Frank, Andrew Hanson, Melissa Passe

C16. Mitral Valve Repair Complicated by Left Circumflex Coronary Artery Occlusion: The Vital Role of the Anesthesiologist

Andres Bacigalupo Landa, Jayanand D'Mello

C17. Myocardial Post-Conditioning with CPG-Containing TLR9 Ligand 1668-Thioate Modulates Inflammatory Response and Remodeling Resulting in Less Fibrosis and Better Left Ventricular Function in Mice

Daniel Dürr, Shuijing Wu, Max Schneider, Vanessa Marggraf, Luise Verfuether, Stilla Frede, Christina Weisheit, Olaf Boehm, Oliver Dewald, Georg Baumgarten, Pascal Knüfermann, Se-Chan Kim

C18. Large Right Ventricular Outflow Tract Tumor: Anesthetic Management and Evaluation by Transesophageal Echocardiography

Brad P. Moore, Steven Miller

C19. Severe Cardiac Clot Burden in Pulmonary Embolism: Evaluation by Transesophageal Echocardiography

Brad P. Moore, Isaac Wu

C20. Diagnostic and Prognostic Implications of Peak Leukocyte Count in the Intensive Care Unit

Nafeesa Alibhai, Bijan Teja, Naheed Jivraj, Sameer Hirji

C21. Effect of Preoperative Opioid Use on Outcomes after Cardiac Surgery: A Focus on Coronary Artery Bypass Grafting and Valve Surgery

Caryl Bailey, Robert White, Roniel Weinberg, Alina Boltunova, Xiaoyue Ma

C22. Bacterial Sepsis Increases Fibrillary Amyloid Load and Neuroinflammation in a Mouse Model of Alzheimer's Disease Pathology

Jacob Basak, Collin J. Nadarajah, Lucy S. Cohen, Patrick W. Sheehan, Erik S. Musiek

C23. Early Mobility in the Cardiothoracic Surgical Intensive Care Unit: A Quality Improvement Study

Michael W. Best, Layne Madden, Matthew Wiepking, Salila Hashmi, Maxwell Hockstein, Craig S. Jabaley, Mark Caridi-Scheible

C24. Carbon Footprint of the Critically Ill: An Economic Input-Output Analysis of the ICU and the Environmental Impact of Delayed Patient Discharge Due to Bottleneck in Availability of Lower Acuity Beds

Adjoa Boateng, Jodi Sherman

C25. Assessing Sleep Quality and Delirium Prevalence in Cardiac ICU Patients

Claudia Bruguera, Dana Arekat, Ina Zaimi, Andrea Tsai

C26. A Single-Center Retrospective Pilot Analysis of ICU Delirium and Its Relationship to Glucose Variability

Zyad J. Carr, Ahmad Parniani, Kunal Karamchandani, Jeffrey J. Kowaleski

C27. A Single-Center Retrospective Study of Perioperative Outcomes in Patients with Interstitial Lung Disease: A Strong Association Between Gender and Outcomes

Zyad J. Carr, James Francescangeli, Brittany McDowell, Kunal Karamchandani

C28. Adverse Outcomes Associated with Absent or Delayed β -Blocker Administration after Cardiac Surgery

Emily Chanan, Germaine Cuff, Samir Kendale, Aubrey Galloway, Mark Nunnally

C29. Cardiac Arrest Secondary to R-on-T Phenomenon Caused by Temporary Epicardial Pacemaker Following Cardiac Surgery

Michelle Chen, Tichaendepi Mundangepfupfu

C30. Successful Extracorporeal Membrane Oxygenation Utilization for Refractory Acute Respiratory Distress Syndrome Following Orthotopic Liver Transplantation Re-Exploration for Intra-Abdominal Hemorrhage

Anna Ciullo, Suzanne Bennett

C31. A Case of Intentional Flecainide Overdose Managed with VA-ECMO

Carla De La Cruz, Tichaendepi Mundangepfupfu, Marcus Behrens, Michael L. Hall

C32. Bronchoesophageal Fistula Requiring VV ECMO Following Minimally Invasive Esophagectomy

David Douin, Tim Tran

C33. Perioperative Transfusion Requirements in Veno-Venous Extracorporeal Membrane Oxygenation (ECMO) Patients Undergoing Non-Cardiac Surgical Procedures

Michael A. Fierro, Brandi Bottiger, David Ranney, Mani Daneshmand, Desiree Bonadonna, John Haney, Jacob Klapper, Matthew Hartwig, Michael Manning, Raquel R. Bartz

C34. The Attributable Mortality from Bleeding Complications Exceeds the Attributable Mortality from Thrombotic Complications

Robert E. Freundlich, Melissa L. Bellomy, Milo Engoren, Frederick W. Lombard, Barbara J. Martin, Yaping Shi, Matthew Shotwell

C35. Blood Leak False Alarm: A Consequence of Hydroxocobalamin Treatment for Acute Cyanide Poisoning

Stephen M. Harden, Louisa Palmer

C36. Successful Use of Venous-Arterial Extracorporeal Membrane Oxygenation in a Patient with Acute Subdural Hematoma

Jason Huston, James D. Bacon, Kevin W. Hatton, Brian Fischer

C37. Racial and Ethnic Differences in Healthcare Utilization Following Severe Acute Brain Injury

Rayleen Jones, Vijay Krishnamoorthy, Karthik Raghunathan

C38. Venous-Venous Extracorporeal Membrane Oxygenation for Management of Severe Acute Respiratory Distress Syndrome Secondary to Epstein-Barr Virus

Caitlin Kapurch, Nathan Peffley

C39. Effect of Angiotensin-II on Vasopressor Dose and Safety in Patients with Severe Vasodilatory Shock

Ashish K. Khanna, Paula Ferrada, Aaron Strumwasser, Alexander Zarbock, Caleb Mackey, Jonathan Wilkinson, Damian Handisides, John Prowle

C40. Outcomes in Patients with Post-Operative Vasoplegia Receiving Angiotensin-II for Vasodilatory Shock

Ashish K. Khanna, Bruce Friedman, Caleb Mackey, Rakshit Panwar, Adam Evans, Laith Altaweel, Damian Handisides, Annette C. Chavez, Ara Klijian

C41. Modifiable Risk Factors of Prolonged Dependence on Vasopressors after Cardiac Surgery: A Retrospective Cohort Study

Loay Kontar, William B. Souligny, Vincent Bouchard-Dechêne, Antoine Rochon, Sylvie Levesque, Matthias Jacquet-Lagrèze, Yoan Lamarche, Denis Babin, André Denault

C42. Trends in Tracheostomy Utilization after Severe Acute Brain Injury in the United States

Vijay Krishnamoorthy, Monica S. Vavilala, Abhijit V. Lele, Karthik Raghunathan, Claire Creutzfeldt

C43. Venous-Arterial-Venous Extracorporeal Membranous Oxygenation as a Salvage Technique for Differential Hypoxia

Rebecca Lee, Liang Shen

C44. One Year Follow Up of Standardized Handover Implementation in CVICU

Monica I. Lupei, Nishkruti Munshi, Alexander M. Kaizer, Luke Patten, Joyce A. Wahr

C45. Incidence and Diagnoses of 'Short-Stay' Critical Care Admissions from the Emergency Department

Layne Madden, Deepa Patel, Mengyu Di, Justin Schragar

C46. Standardization of the Patient Handoff Process Between or Anesthesia Providers and SICU Providers

Maram Marouki, Piyush Mathur, Sandeep Khanna, Maged Y. Argalious

C47. The Effect of Sedation on Long-Term Psychological Impairment Following Extracorporeal Life Support

Michael D. McDonald, Madeline Henry, Colby Gallagher, Meghan Lane-Fall, Emily J. Mackay, Todd A. Miano, Jacob Gutsche

C48. In Hospital Mortality, Complications, and ICU Length of Stay after Ventricular Assist Device Implantation: A Single Center Case Review

Rachael Mintz-Cole, Andrea Yoder, Abdulaziz Almehlisi, Kimberly S. Robbins, Albert P. Nguyen, Ulrich Schmidt

C49. Post-Operative Fever, Leukocytosis, and Circulatory Shock: A Case of Significant Inferior Vena Caval Thrombosis Mimicking Sepsis

Ian W. Molyneaux, Priyesh Patel

C50. The Platelet and Aortic Struggle: A Case of ITP and Severe Bioprosthetic Aortic Stenosis for Orthopedic Surgery

Jenny Pennycuff, Beth M. Teegarden, Amir Jafari

C51. Altered Mental Status in the CTICU after CABG Complicated by Profound Vasoplegia: A Case of Serotonin Syndrome

Yan Povrovskiy, James D. Bacon

C52. Role of Syndecan-1 and Disruption of Glycocalyx in Critically Ill Patients with Ventricular Assist Devices (VAD) and Extracorporeal Membrane Oxygenation (ECMO)

Dorothea Rosenberger, T. McKai Wood

C53. Systolic Anterior Motion of the Mitral Valve Following Recovery from Cardiogenic Shock

Michelle M. Salloum, Emily T. Poynton, Dane Coyne

C54. Rescue Tee for Differentiating and Managing Shock in Critically Ill Patient

Estuardo J. Saravia Fernandez, Vaibhav Bora

C55. The Safety of Hemoconcentration during ECMO

Samir Sethi, Rachel Glass, Caroline Jensen, Peter Munoz, Bruno Sambuco, David Yamane

C56. Procalcitonin - Early Predictor of Survival in Critically Ill Patients with Sepsis

Ahsan K. Siddiqui, Abhishek Verma

C57. Implementation of an Arterial Waveform-Based IV Fluid Goal-Directed Therapy Protocol in a Cardiac Surgery Intensive Care Unit

Erik J. Stoltenberg, Susan Seatter, David Williams, Larissa Stanberry, Steven M. Bradley

C58. Coved ST Elevation: A Case of Propofol Infusion Syndrome

Alex Suginaka, Bharathram Vasudevan, Lauren Allan

C59. Challenging Management of Depot Paliperidone Associated Neuroleptic Malignant Syndrome and Primary Polydipsia

Michael Wu, Fangdi Sun, Connie Wang, Eddie Garcia, Robert Goodnough, Jeffrey Whitman, Craig Smollin, Timur Durrani, Kamran Atabai, Kara Lynch

C60. Vasopressor Dosing in Septic Shock Clinical Trials: A Systematic Review and Meta-Analysis

Bijan Teja, Nicholas A. Bosch, Allan J. Walkey, Ruxandra Pinto, Hannah M. Wunsch

C61. Low Dose Factor VIIa Yields Big Results

Hans Tregear, Elizabeth Cotter, He Jianghua, Gao Guangyi, Sharma Akshit, George T. Zorn, Brigid C. Flynn

C62. Low-Cost ECMO Troubleshooting Simulation Improves Provider Confidence and Preparedness in Managing Life-Threatening Circuit Complications

Matthew Wiepking, Michael Stentz, Kiley Hodge

C63. Assessing Post-Surgical Mortality Risk through Nonlinear Coupling of Intraoperative Heart Rate and Blood Pressure Time Series

Alexander L. Young, Hau-Tieng Wu, Willem Van Den Boom, Vijay Krishnamoorthy, Karthik Raghunathan, David B. Dunson

C64. Reducing Operating Room Delays: One Institution's Search for the Holy Grail

Scott M. Pappada, Christopher H. Nam, Soroush Merchant, Sonya Rygielski, Andrew Casabianca, Sadik Khuder, Thomas J. Papadimos

C65. Economic Evaluations of Sugammadex for Reversal of Neuromuscular Block in Surgical Procedures: A Systematic Review

Amit D. Raval, Ishita Doshi, Sumesh Kachroo, Lori D. Bash

C66. The Impact of Early Exposure to High-Fidelity Simulation on the Developing Anesthesiologist: A Qualitative Pilot Study

Dylan Bard, Gavyn Ooi, Michael Esterlis, Elaine Kilmartin, Neeru Rattan

C67. The Ontology of Leadership: A Simulation-Based Introduction

Annandita Kumar, Philip Boysen

C68. The Impact of a Focused Cardiac Ultrasound Curriculum on Anesthesiology Residents in the Post Anesthesia Care Unit

Louisa Palmer, Jeff Swanson

C69. Resident Physician Perspective on Women As Leaders

Karlyndsay Sitterley, Philip Boysen, Joseph Koveleskie

C70. Gender Differences Among Adult Critical Care Program Directors

Terrie Vasilopoulos, Brenda Fahy, Mohammed Almualim, Peggy White, Rogerio A. Santos, Deborah J. Culley

C71. Resuscitative Supraceliac Aortic Occlusion for Hemorrhagic Shock in a Liver Transplant Recipient

Reem Almuqati, Madiha Syed

C72. Independent Lung Ventilation as a Rescue Strategy Following Unilateral Lung Transplantation: A Case Report

Amar M. Bhatt, Victor Davila

C73. Spontaneous Life Threatening Hemorrhage in a Patient with Kippel-Trenaunay Syndrome Requiring Multiple Trips to the Operating Room Managed with Aminocaproic Acid, Activated Factor VII, and Heparin

Kaitlyn Brennan, Francis X. Whalen, Nathan Peffley, Kathryn E. Howze

C74. Critical Care Management of Culture Negative Endocarditis Due to Bartonella

Christian S. Balabanoff Acosta, Daniela De Lima Corvino, Anmary Fernandez Betances, Rafael Arciniegas Flores, Srikar Jonna, Anna M. Schuerner, Richard A. Zack-Guasp, Ricardo Martinez Ruiz, Miguel Cobas, Alexander C. Fort

C75. Right Ventricular Failure and Acute Respiratory Distress Syndrome after Drowning Managed with Right Atrial to Pulmonary Artery Extracorporeal Membrane Oxygenation

Christian S. Balabanoff Acosta, Rafael Arciniegas Flores, Anna M. Schuerner, Srikar Jonna, Richard A. Zack-Guasp, Ning Lu, Arnaldo Vera-Arroyo, Ricardo Martinez Ruiz, Valerie Hart

C76. Management of a Thrombus Overriding a Patent Foramen Ovale in a Patient with Concomitant Pulmonary Embolism

Christian S. Balabanoff Acosta, John Carey, Richard A. Zack-Guasp, Srikar Jonna, Rafael Arciniegas Flores, Anna M. Schuerner, Arnaldo Vera-Arroyo, Oscar Aljure, Ricardo Martinez Ruiz, Roger Alvarez

C77. The Utility of Tee for Mechanical Circulatory Support and Clinic Decision Making

Dominique Brundidge

C78. Superior Vena Cava Syndrome from Cannula Malposition during Femoro-Femoral Venovenous ECMO

Juan C. Diaz Soto, Elvedin Lukovic

C79. Hemorrhagic Shock Secondary to Non-Traumatic Superior Mesenteric Vein Rupture in a Patient with Hepatitis Peliosis

Shara Feld, Tichaendepi Mundangepfupfu

C80. Rapid Detection and Transport by ECMO Team Improved Outcomes of Severe Acute Pancreatitis Sequelae

Mariana Gomez, Natan Hekmatjah, Paul Helland, Cecilia Canales, Vadim Gudzenko, Sumit Singh

C81. A Case of Acute Hypotensive Transfusion Reaction from Bradykinin Release Syndrome: A Possible Association with a Novel Ace Missense Mutation

Andrew Greenwald, Tarif Chowdhury, Joseph Hostyk, Ruth Landau, Peter Yim

C82. Carcinoid Crisis Presenting As Severe Bronchospasm during Anesthetic Induction in a Pregnant Patient

Kyung Ji, Jennifer Macpherson, Tichaendepi Mundangepfupfu

C83. Erector Spinae Block As Rescue Therapy in the ICU to Facilitate Extubation after Cardiac Surgery: A Case Report

Angela M. Johnson, Connor Mcnamara, Basanta Mohapatra

C84. Neuroleptic Malignant Syndrome in Patient with a Saddle Pulmonary Embolus

Jonathan Kim, Genevieve Manahan, Albert Yen

C85. A Frozen Brain and a Broken Heart: A Case of Takotsubo in the Setting of Catatonia

Nicole King, Edward Misulis, Jeremy P. Walco, Megan Jaynes

C86. The Role of Plasma Exchange in the Treatment of West Nile Virus Neuroinvasive Disease

Angella E. Koncarevic, Alisha Bhatia

C87. Heparin Induced Thrombocytopenia and Thrombosis Following Cardiac Surgery Resulting in Multi Organ System Failure

Benjamin S. Levin, William Sauer

C88. Where's the Contrast: Hydrodissection of Brachiocephalic Vein from Power Injection of Intravenous Contrast through a Left Internal Jugular Triple Lumen Catheter

Daniel Lotz, James A. Scott, Ulises Torres

C89. Secondary Ultrasound Use in a Post-Operative Patient with Hypotension

Rebecca Martinez, Julia B. Sobol, Albert Yen, Oliver Panzer

C90. Case Series of Ex-Vivo Resections in Patients with Hepatic Tumors with Extension into Inferior Vena Cava and Right Atrium

Rebecca Martinez, Avanish S. Reddy, Meneka Dave, Taylor Johnston

C91. Assessment of Hemopericardium after Transcatheter Aortic Valve Replacement

Danielle Lovett-Carter, Maurice F. Joyce

C92. Cardiogenic Shock Requiring Veno-Arterial Extracorporeal Membrane Oxygenation Following Outpatient Cardioversion

Danielle Lovett-Carter, Maurice F. Joyce

C93. Wrong Place, Right Time: Avalon Catheter Migration and Point of Care Ultrasound

Keleigh McLaughlin, Tim Tran

C94. Multifactorial Diabetic Ketoacidosis

Vanessa Moll, Ceresa T. Ward, Amit Prabhakar, Babar Fiza

C95. A Rare Case of Plastic Bronchitis in an Adult Patient: Anesthetic Challenge

Yangseon Park, Max B. Kelz

C96. Rare Complication of "Denver" Peritoneovenous Shunt, Clinically Reminiscent of Anaphylactoid Syndrome of Pregnancy

Rishi Patel, Sergio B. Navarrete, Michael Fowler, Ronsard Daniel

C97. Challenges Utilizing VA ECMO for Management of Hantavirus Induced Cardiopulmonary Syndrome

Thomas Phillips, Michael Wollenberg

C98. Septic Shock, One Lung Ventilation, and Hypoxia with Tachycardia - Esmolol to Help the Compromised Heart

Michael P. Ries, Micah Long, Jagan Ramamoorthy

C99. Otorhinolaryngologic Surgery in a Child with Duchenne Muscular Dystrophy

Elizabeth Rossmann Beel, Titilopemi Aina, Monica Chen

C100. Angiotensin-II for Treatment of Severe Refractory Distributive Shock Post Cardiac Bypass

Patrick Savery, Marcela Hanakova

C101. Central Diabetes Insipidus Due to Ketamine Infusion in a Patient on Veno-Venous Extracorporeal Membrane Oxygenation

Juhee Sharma, Christin Kim

C102. Spontaneous Hemopericardium with Fatal Tamponade Physiology in ESRD Patient on Warfarin

Melina Shoni, Gerardo Rodriguez

C103. Concomitant Use of Impella CP and VA-ECMO in Acute Fulminant Myocarditis with Bi-Ventricular Failure

Jacqueline Sohn, Chantal Elamm, Michael Zacharias, Francis T. Lytle

C104. Delayed Diagnosis of Type A Aortic Dissection in a 39-Year-Old Patient Presenting with Back Pain after Sexual Intercourse

Jacqueline Sohn, Basanta Mohapatra

C105. Misplacement of a Right Subclavian Dialysis Catheter into the Spinal Canal in a Patient on Veno-Venous Extracorporeal Membrane Oxygenation: A Case Report

Anna M. Schuerner, Jack Louro, Roman Dudaryk

C106. Acute Biventricular Heart Failure with Intraventricular Thrombus Formation Following Pericardiocentesis in a Patient with Newly-Diagnosed Metastatic Lung Cancer

Diana Tiwari, Adam Mitchell, Abhinav Goyal

C107. Anesthetic Implications for a Patient with Active Tuberculous Vertebral Osteomyelitis (Pott's Disease) Undergoing Corpectomy with Posterior Fusion

Kent Vu, Aaron Lim

C108. An Uncommon Cause of Lactic Acidosis in a Renal Transplant Recipient

Judah Weiss, Anoop K Chhina

C109. TEVAR for Pseudoaneurysm Repair in Digeorge Patient with Double Aortic Arch Anatomy

Se Fum Wong, John Turnbull

C110. Hemoconcentration as an Indicator of Intraoperative Superior Mesenteric Vein Stenosis during Pancreaticoduodenectomy

Masha Zeltsman, Madina Gerasimov, Judith Aronsohn, Jeffrey Deygoo

C111. Bilateral Lung Transplant in a Patient with Hermansky-Pudlak Syndrome

Albert Yen, Andrew Vargas, Kristine Breyer, Wendy Smith, Lundy Campbell

C112. Serotonin Syndrome in the ICU: Clinical Manifestations and Management in a Mechanically Ventilated Patient after Complicated CABG Surgery

Richard A. Zack-Guasp, Oscar Aljure

C113. Cardiogenic Shock from the “Widow Maker”: A Multidisciplinary Shock Team Intervention
Erica Zanath, Francis T. Lytle

C114. Refractory Thrombocytopenia in Pregnancy-Associated Acute Myeloid Leukemia
Michael Wu, Thanh-Giang Vu, Joyce Chang, Lindsey Huddleston, Anne L Donovan

C115. The INTUIT Study: Investigating Neuroinflammation Underlying Postoperative Neurocognitive Dysfunction and Delirium in Older Adults
Thomas Bunning, Heather E. Whitson, Kent Weinhold, Marty G. Woldorff, Eugene Moretti, Deborah Oyeyemi, Mary Cooter, Cliburn Chan, Roberto Cabeza, Jeffrey N. Browndyke, David Murdoch, Michael Devinney, Leslie Shaw, Harvey J. Cohen, Joseph P. Mathew, Miles Berger

C116. Influence of Perioperative Antibiotic Use on Postoperative Cognition
Sarah Cotter, Paul E. Wischmeyer, John Hunting, Rebecca Y. Klinger, Joseph P. Mathew

C117. Validation of an Angiographic Global Cerebral Vasospasm Score in Aneurysmal Subarachnoid Hemorrhage: A Feasibility Study
Kevin W. Hatton, Abhisek Patel, Stephen Grupke, Abdalnasser Alhajeri, Leon Su, Arnold Stromberg, Justin Fraser

C118. Modeling the Risk of Ionizing Radiation Exposure after Aneurysmal Subarachnoid Hemorrhage
Kevin W. Hatton, Greeshma Allareddy, Andrew Clark, Emily Slade, Ran Duan, Justin Fraser

C119. Dexmedetomidine Prevents Lipopolysaccharide (LPS)-Induced Neuroinflammation and Cognitive Decline through An α 2A Adrenoceptor Mechanism in Mice
Mervyn Maze, Rong N. Li, Kit I. Lai

C120. Phenoxyalkoxypsoralen-1 (PAP-1), a Highly-Selective Kv1.3 Channel Blocker, Prevents Neuroinflammation and Postoperative Cognitive Decline in Vulnerable Mice
Mervyn Maze, Kit I. Lai, Rong N. Li, Sarah Saxena, Yosuke Uchida, Heike N. Wulff

C121. Case Report: The Anesthesia-Induced EEG in a 30-Year Old Cancer Patient Resembles That of an “Old Brain”
Laura A. Santa Cruz Mercado, Gladia C. Hotan, Hiroko Kunitake, Patrick L. Purdon, Emery N. Brown

C122. The Lower Limits of Neonatal Cerebral Autoregulation during Congenital Cardiac Surgery
Eric L. Vu, Brendan L. Smith, Craig G. Rusin, R. B. Easley, Dean Andropoulos, Ken M. Brady

C123. An Earlier Educational Intervention in Residents Improves Knowledge of Non-Opioid Acute Pain Management in the In-Patient Hospital Setting
Harpreet Dhiman, Jennifer Knuth, Melissa Ehlers, Anthony Ocon, Yi Zhou, Henry Nagle, Ravneet Bhullar

C124. Effect of Catechol-O-Methyltransferase (RS4680) Single Nucleotide Polymorphism on Opioid Induced Hyperalgesia in Adults with Chronic Pain
Danqing Hu

C125. Sustaining the Gains: A 6 Year Follow through of the Impact of a Hospital Wide Patient Safety Strategy on Global and Anesthetic Patient Safety Outcomes

Ming Ann Sim, Lian Kah Ti, Sandhya Mujumdar, Sophia Chew, Mohan Kumar Bhuvaneshwari, Sophia Ang Young Investigator Award - 1st Runner Up

C126. Post Operative Respiratory Failure Following Intracranial and Spine Surgeries

Jagan Devarajan, Eric Chanowski, Bryan Lee, Steven Shook, Dhimant Dani, Ajit Krishnaney, Piyush Mathur

C127. Opioid-Free Anesthesia in Bariatrics: Does It Make a Difference?

Masha Zeltsman, Judith Aronsohn, Madina Gerasimov, Greg Palleschi, Oonagh Dowling

C128. Cognitive Resilience: Predicting a Robust Cognitive Status after Major Non-Cardiac Surgery

Christopher G. Choukalas, Christopher Tang, Laura Sands, Yueyao Wang, Sanam Tabatabai, Devon Pleasants, Jacqueline Leung

C129. The Association of Primary Anesthesia Type with Postoperative Outcomes Following Neurointerventional Treatment of Acute Ischemic Stroke: A Retrospective Cohort Analysis

Bryan Cozart, Rodney A. Gabriel

C130. Epidemiology of Surgical Site Infection in Spinal Fusion Surgery and Patterns of Discordance with Surgical Antibiotic Prophylaxis: A Retrospective Case-Level Analysis

Dustin R. Long, Jeannie Chan, Chloe Bryson-Cahn, John Lynch

C131. Association of Colloid Choice and Bleeding Following Musculoskeletal Surgery: A Retrospective Cohort Study and Natural Experiment

Duncan J Mclean, Vijay Krishnamoorthy, Alan Ellis, Mihaela Stefan, Brian Nathanson, Julien Cobert, Peter Lindenauer, M. A. Brookhart, Karthik Raghunathan

C132. Preoperative Gabapentinoids Increase Risk of Postoperative Opioid-Related Respiratory Depression in Adult Patients Undergoing Total Hip and Knee Arthroplasties

Sean Moore, Tetsu Ohnuma, Karthik Raghunathan, John Whittle, Raquel R. Bartz, Srinivas Pyati, Alan Ellis, William E. Bryan, Marc Pepin, Vijay Krishnamoorthy

C133. Association Between Perioperative Crystalloid Fluid Volume and Outcome in Enhanced Recovery after Surgery (ERAS) Protocol: Risk-Adjusted Analysis Data from An Administrative Database

Mohammad Rasouli, Alan Ellis, Vijay Krishnamoorthy, Karthik Raghunathan

C134. Association Between Severity of Perioperative Acute Kidney Injury and Progression of Chronic Kidney Disease Following Non-Cardiac Surgery

Mohammad Rasouli, Vijay Krishnamoorthy, Karthik Raghunathan, Thorir E. Long, Gisli H. Sigurdsson, Martin I. Sigurdsson

C135. Perioperative Recommendations for Improvement in Sepsis Management: A Prism Quality Initiative

Pritee Tarwade, Bhuvaneshwari S. Ram, Heidi Davis, Mary Jarzebowski

C136. Focused Transthoracic Echocardiography and Peri-Operative Cardiac Arrest: Feasibility Study

Nibras Bughrara, Susan L. Herrick, Krishnaveni Sirigaddi, Kevin Roberts, Aliaksei Pustavoitau

C137. A Pilot Feasibility Trial of Physical and Cognitive Prehabilitation to Improve Outcomes in Surgical Patients

Kimberly Rengel, Nitin Mehdiratta, Susan Vanston, Kristin Swygert, Jim Jackson, Pratik Pandharipande, Christopher G. Hughes

C138. Gabapentinoids on the Day of Colorectal Surgery Are Associated with Adverse Postoperative Respiratory Outcomes

Rosalie Yan, Tetsu Ohnuma, Vijay Krishnamoorthy, Alan Ellis, Neil Ray, John Hsia, Srinivas Pyati, Mihaela Stefan, William E. Bryan, Marc Pepin, Peter Lindenauer, Raquel R. Bartz, Karthik Raghunathan

C139. Merging Physics with Anesthesia: The Sota Omoigui Short Needle Technique for Interventional Procedures

Sota Omoigui

C140. Ultrasound Guided Stellate Ganglion Block for the Treatment of Electrical Storm Refractory to Percutaneous Ablation: A Case Report

Estuardo J. Saravia Fernandez, Paramvir Singh

C141. Different Responses of Healthy Humans Subjected to Lower Body Negative Pressure Induced Hypovolemia using Continuous Noninvasive Arterial Pressure Cycle Duration and Heart Rate

Anna-Maria E. Eid, Aymen Alian, Kirk Shelley, Mohamed Elgamal, Mohamed Eid

C142. Hemodynamic Compensation during Selective Fetoscopic Laser Photocoagulation using the Compensatory Reserve Index

David Leopold, Ryan Phillips, Cristina Wood, Nicholas Behrendt, Michael Zaretsky, Henry Galan, Steven Moulton

C143. Background Music Contributes to Error in the Operating Room

Joseph Schlesinger, Kendall J. Burdick, Clayton D. Rothwell

C144. A Novel Learning Management System to Revolutionize Generation, Administration, and Assessment of Simulation-Based Medical Education

Scott M. Pappada, Mohammad H. Owais, Cristina Alvarado, Jeffrey Schneiderman, Douglas Brunner, Andrew Casabianca, James Hofmann, Thomas J. Papadimos

C145. Variability in Examining Residual Neuromuscular Blockade after the Use of Neuromuscular Blocking Agents: A Systematic Review of Randomized Controlled Trials

Amit D. Raval, Jennifer Uyei, Vamshi Ruthwik Anupindi, Cheryl P. Ferrufino, Andreas Karabis, Diana Arper, Lori D. Bash, Sorin Brull

IARS SCHEDULE



IARS

International Anesthesia Research Society



3:00 pm – 5:00 pm *Agora / Centre-Ville*

Journal Symposium
**Research Highlights and Future of Publishing:
Perspectives of Journal Editors**

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

Research Highlights:

Canadian Journal of Anesthesia

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

Research Highlights:

British Journal of Anaesthesia

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

Research Highlights:

Anesthesia & Analgesia

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

Research Highlights:

Anesthesiology

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

**Plan S and the Future of Biomedical
Journals**

Gregory L. Bryson, MD, MSc;
Angela Enright, OC, MB, FRCPC; Hugh C.
Hemmings, MD, PhD, FRCA
& Evan Kharasch, MD, PhD

5:15 pm – 6:45 pm *Agora / Centre-Ville*

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

5:30 pm – 6:30 pm *Square Victoria*

**Scholars' Program Mentoring and Networking
Reception**

Meet and network with the leaders of the
anesthesiology field – and Scholars' Program
participants will be paired with mentors.

*This reception is part of the Scholars' Program,
and a ticketed event, visit registration for details.*

7:00 pm – 8:30 pm

Taste of Montreal Dine-Around

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



7 8 SATURDAY, MAY 18 AT-A-GLANCE: IARS

8:00 am – 5:00 pm

Place du Canada / Square Dorchester

IARS POSTER SESSION D: OPEN VIEWING

6:45 am – 7:45 am *Parc Mont-Royal*

Continental Breakfast

6:45 am – 7:45 am *Rue Crescent*

Preparing for Retirement Continental Breakfast*

6:45 am – 7:45 am *Square Victoria*

IARS First-Time Attendee Orientation Continental Breakfast*

8:00 am – 9:30 am *Agora / Centre-Ville*

Opening Session and T.H. Seldon Memorial Lecture: Health Research Funding in the 21st Century: Not for the Faint of Heart

10:00 am – 10:45 am *Av. Van-Horne*

RCL: The ASRA Regional and Pain Anticoagulation Guidelines

10:00 am – 11:00 am *Vortex*

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

10:00 am – 11:00 am *Ping*

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

10:00 am – 11:30 am *Av. Laurier*

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

10:00 am – 11:30 am *Av. Duluth*

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

10:00 am – 12:00 pm *Agora / Centre-Ville*

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

11:30 am – 1:00 pm *Av. Laurier*

Panel: Physician Wellness in Hospital Medicine: Thriving, Not Simply Surviving

11:30 am – 1:00 pm *Av. Duluth*

WFSA and IARS Panel: Controversies in Global Health

11:30 am – 1:00 pm *Av. Van-Horne*

SOCCA Panel: Towards Precision Medicine Intensive Care Unit

12:15 pm – 1:00 pm *Agora / Centre-Ville*

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

12:00 pm – 1:00 pm *Vortex*

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

12:00 pm – 1:00 pm *Ping*

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

*Ticketed event, visit registration for details

79 SATURDAY, MAY 18 AT-A-GLANCE: IARS

1:00 pm – 2:30 pm

Place du Canada / Square Dorchester

IARS Poster Session D – Presenters in Attendance

1:00 pm – 2:30 pm

Lunch on Your Own

2:30 pm – 3:15 pm

Av. Van-Horne

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

2:30 pm – 3:30 pm

Vortex

SNACC PBLD: Anesthesia for Stroke: Challenges and Opportunities

2:30 pm – 4:00 pm

Av. Laurier

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

2:30 pm – 4:00 pm

Agora / Centre-Ville

SOAP Panel: Attaining the Opioid-Free Cesarean Delivery

2:30 pm – 4:00 pm

Av. Duluth

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

2:30 pm – 5:30 pm

Rue Saint-Denis

Workshop: Reflections on the Balancing Act between Work and Life*

4:00 pm – 4:30 pm

Break

4:30 pm – 5:15 pm

Av. Van-Horne

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

4:30 pm – 5:30 pm

Vortex

PBLD: Perioperative Pain Management in Patients on Buprenorphine*

4:30 pm – 6:00 pm

Av. Laurier

eSAS Panel: Getting Beyond the Anesthesiology Department: Broad Impact through Broad Thinking

4:30 pm – 6:30 pm

Agora / Centre-Ville

International Science Symposium: Dementia: Let's Stop Losing Our Minds

4:30 pm – 6:30 pm

Av. Duluth

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

5:30 pm – 6:15 pm

Av. Van-Horne

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

6:15 pm – 8:00 pm

Place du Canada / Square Dorchester

Alignment Reception

*Ticketed event, visit registration for details

WELCOME TO ALIGNED MEETING DAY!

Every IARS, AUA and SOCCA attendee is welcome at every session today. If a session is a ticketed event, please visit the Registration Desk to find out if space is still available.

6:45 am – 7:45 am

Parc Mont-Royal

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

Rue Crescent

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!

Ticketed event; visit the Registration Desk for details.

6:45 am – 7:45 am

Square Victoria

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.

Ticketed event; visit the Registration Desk for details.

8:00 am – 9:30 am

Agora / Centre-Ville

OPENING SESSION AND T.H. SELDON MEMORIAL LECTURE

Health Research Funding in the 21st Century: Not for the Faint of Heart

Welcome Comments

Colleen Koch, MD, MS, MBA, FACC, The Johns Hopkins University School of Medicine, IARS Board of Trustees Chair

Introduction

Davy Cheng, MD, MSc, FRCPS, FCAHS, CCPE, IARS Board of Trustees; World Federation of Societies of Anaesthesiologists Chair, Scientific Affairs Committee

Health Research Funding in the 21st Century: Not for the Faint of Heart

*Michael J. Strong, MD, FRCP(C), FANN, FCAHS
Western University; President, Canadian Institutes of Health Research*

8:00 am – 5:00 pm

Place du Canada / Square Dorchester

IARS Poster Session D: Open Viewing

For session details, see the IARS Posters tab.

9:30 am – 10:00 am

Break

10:00 am – 10:45 am

Av. Van-Horne

Review Course Lecture

The ASRA Regional and Pain Anticoagulation Guidelines

*Host: Aryeh Shander, MD, FCCM, FCCP, FASA, Englewood Hospital and Medical Center
Speaker: Honorio Benzon, MD, Northwestern University Feinberg School of Medicine*

10:00 am – 11:00 am

Vortex

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 & Mounir Banoub, MD, MBA, CPE, FAAPL, FASA, Augusta University Medical Center
Ticketed event; visit the Registration Desk for details.

10:00 am – 11:00 am

Ping

Problem-Based Learning Discussion
Let Me Outta Here! Can There Be AMA Discharge from PACU?

Linda Liu, MD, University of California, San Francisco School of Medicine & Karl Poterack, MD, Mayo Clinic
Ticketed event; visit the Registration Desk for details.

10:00 am – 11:30 am

Av. Laurier

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 Hospital

Applications of Nudge Theory in the Anesthesiology and Perioperative Domains

Craig S. 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

10:00 am – 11:30 am

Av. Duluth

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

Agora / Centre-Ville



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, AUA Education Chair

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

11:30 am – 1:00 pm

Av. Laurier

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

To be announced

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

11:30 pm – 1:00 pm

Av. Duluth



WFSA
WORLD FEDERATION OF SOCIETIES OF ANAESTHESIOLOGISTS



WFSA and IARS Panel

Controversies in Global Health

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

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

11:30 pm – 1:00 pm

Av. Van-Horne



SOCCA Panel

Towards Precision Medicine Intensive Care Unit

Moderated by Robert D. 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 D. Stevens, MD, FCCM, Johns Hopkins School of Medicine

The NIH All of Us Precision Health Initiative

Sachin Kheterpal, MD, MBA, University of Michigan Medicine

12:15 pm – 1:00 pm

Agora / Centre-Ville

Review Course Lecture

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

Host: Roman Schumann, MD, Tufts Medical Center

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

12:00 pm – 1:00 pm

Vortex

**Problem-Based Learning Discussion
Tonsillectomy in Obese Children with Down
Syndrome: Not Just Another T&A!**

*Kumar G. Belani, MBBS, MS,
University of Minnesota; Wilson T. Chimbara,
MD, FRCA, University of Michigan Medicine &
Olubukola O. Nafiu, MD, FRCA, MS, University of
Michigan Medicine
Ticketed event; visit the Registration Desk for
details.*

12:00 pm – 1:00 pm

Ping

**Problem-Based Learning Discussion
Random Drug Testing in Anesthesia:
Prevention and Protection or Invasive and
Generation of a Slippery Slope?**

*Keith Baker, MD, PhD, Massachusetts General
Hospital; Richard C. Prielipp, MD, University of
Minnesota & Mark Rice, MD, Vanderbilt University
School of Medicine
Ticketed event; visit the Registration Desk for
details.*

1:00 pm – 2:30 pm

Place du Canada / Square Dorchester

IARS Poster Session D

For session details, see the IARS Posters tab.

1:30 pm – 2:30 pm

Lunch On Your Own

*Check out the Marché Artisans for a quick bite, or
any of the many restaurants located in the hotel.*

2:30 pm – 3:15 pm

Av. Van-Horne

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

*Host: Danielle Ludwin, MD, Columbia University
Medical Center
Speaker: Sean Mackey, MD, PhD, Stanford
University School of Medicine*

2:30 pm – 3:30 pm

Vortex



**SNACC Problem-Based Learning Discussion
Anesthesia for Stroke: Challenges and
Opportunities**

*Lauren Berkow, MD, University of
Florida College of Medicine &
Shobana Rajan, MD, Cleveland Clinic
Ticketed event; visit the Registration Desk for
details.*

2:30 pm – 4:00 pm

Av. Laurier



**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*

2:30 pm – 4:00 pm

Agora / Centre-Ville



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

Av. Duluth



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

2:30 pm – 5:30 pm

Rue Saint-Denis

Workshop

Reflections on the Balancing Act Between Work and Life

Guelay Bilen-Rosas, MD, University of Wisconsin School of Medicine and Public Health; James Fehr, MD, Washington University School of Medicine; Norah R. Janosy, 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 & Myron Yaster, MD, University of Colorado Denver School of Medicine

Ticketed event; visit the Registration Desk for details.

4:00 pm – 4:30 pm

Break

4:30 pm – 5:15 pm

Av. Van-Horne



SOCCA Review Course Lecture

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

Host: Angus Christie, MD, Spectrum Healthcare Partners

Speaker: Stephen D. Surgenor, MD, Dartmouth Hitchcock Health

4:30 pm – 5:30 pm

Vortex

Problem-Based Learning Discussion

Perioperative Pain Management in Patients on Buprenorphine

Daniel Burkhardt, MD, University of California, San Francisco School of Medicine; Sakura Kinjo, MD, University of California, San Francisco School of Medicine & Ruth Landau, MD, Columbia University Medical Center

Ticketed event; visit the Registration Desk for details.

4:30 pm – 6:00 pm

Av. Laurier



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

Agora / Centre-Ville

INTERNATIONAL SCIENCE SYMPOSIUM

Dementia: Let's Stop Losing Our Minds

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

Dementia Update: What's New in the Field

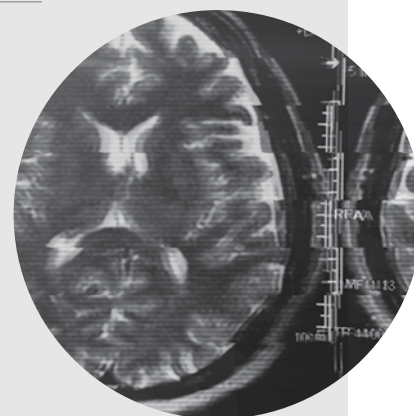
*Sandra E. Black, OC, OOnt, MD, FRCP(C), FRSC, FAAN, FAHA,
University of Toronto*

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



4:30 pm – 6:30 pm

Av. Duluth

Innovative Session

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

*Michael Aaron Chyfetz, MD, MSc, Montefiore
Medical Center; Albert Einstein College of
Medicine & Daniel Chartrand, MD, PhD, FRCPC,
Montreal Neurological Hospital
Ticketed event; visit the Registration Desk for
details.*

5:30 pm – 6:15 pm

Av. Van-Horne



SOCCA Review Course Lecture

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

*Host: Peter Von Homeyer, MD, FASE, University of
Washington Medicine*

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

6:30 pm – 8:00 pm

Place du Canada/ Square Dorchester

Alignment Reception

Join us in the Exhibit Hall to raise a glass with friends
you know — and the ones you haven't met yet!

8:00 am – 5:00 pm*Place du Canada / Square Dorchester***IARS POSTER SESSION E: OPEN VIEWING****6:00 am – 7:00 am***Parc Mont-Royal*

Continental Breakfast

6:00 am – 7:00 am*Rue Crescent*

International Connections Continental Breakfast*

6:00 am – 7:00 am*Square Victoria*

Women in Anesthesia Continental Breakfast*

7:00 am – 9:00 am*Agora / Centre-Ville*

Kosaka Best of Meeting Abstract Awards Oral and Poster Presentations

9:00 am – 9:30 am

Break

9:30 am – 10:30 am*Vortex*

SASM PBLD: Perioperative Care of the Patient with OSA*

9:30 am – 10:30 am*Ping*

SAMBA PBLD: Ambulatory Anesthesia: Common Problems during Pediatric Care*

9:30 am – 11:00 am*Av. Viger*

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

9:30 am – 11:30 am*Agora / Centre-Ville*

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

9:30 am – 11:00 am*Av. Duluth*

APSF Panel: Can We Eliminate Medical Errors in the Operating Room?

9:30 am – 11:30 am*Av. Laurier*

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

9:30 am – 12:30 pm*Rue Notre-Dame*

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

11:00 am – 12:30 pm*Av. Duluth*

Panel: Understanding Observational Studies: Updates from Perioperative Epidemiologists

11:00 am – 12:30 pm*Av. Viger*

SOCCA Panel: Critical Care Anesthesiologist & Acute Care Continuum of Complex Stroke Patient

11:00 am – 12:30 pm*Agora / Centre-Ville*

SmartTots Panel: Anesthesia and Neurotoxicity: A Conundrum for Clinicians

11:30 am – 12:15 pm*Av. Van-Horne*

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

**Ticketed event, visit registration for details*

87 SUNDAY, MAY 19 AT-A-GLANCE: IARS

11:30 am – 12:30 pm *Vortex*

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

11:30 am – 12:30 pm *Ping*

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

1:00 pm – 2:30 pm

Lunch on Your Own

1:00 pm – 2:30 pm

Place du Canada / Square Dorchester

IARS Poster Session E – Presenters in Attendance

2:00 pm – 2:45 pm *Av. Duluth*

RCL: Cardiovascular Outcomes in Transcatheter Aortic Valve Replacement: Implications for Anesthesiology

2:00 pm – 3:00 pm *Ping*

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

2:00 pm – 3:00 pm *Vortex*

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

2:00 pm – 3:30 pm *Av. Laurier*

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

2:00 pm – 3:30 pm *Agora / Centre-Ville*

SOCCA Panel: Sepsis-induced Coagulopathy: Mechanisms and Management

2:00 pm – 5:00 pm *Rue Saint-Denis*

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

2:00 pm – 6:00 pm *Rue Mansfield*

Scholars' Program: Leadership Workshop: Self-Awareness and Self-Management*

2:00 pm – 6:00 pm *Av. Van Horne*

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

3:30 pm – 4:00 pm

Break

4:00 pm – 5:00 pm *Vortex*

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

4:00 pm – 5:00 pm *Ping*

PBLD: Perioperative Atrial Fibrillation: Challenges in Prevention and Management*

4:00 pm – 5:00 pm *Av. Duluth*

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

*Ticketed event, visit registration for details

88 SUNDAY, MAY 19 AT-A-GLANCE: IARS

4:00 pm – 5:30 pm

Av. Viger

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

4:00 pm – 5:30 pm

Agora / Centre-Ville

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

4:00 pm – 6:00 pm

Av. Laurier

SYM: Cell Death & Survival: Beyond
Oxygenation

6:00 pm – 8:00 pm

Square Victoria

ISPCOP and McGill Anesthesia Networking
Session

6:30 pm – 8:00 pm

Taste of Montreal Dine-Around*



**Ticketed event, visit registration for details*

89 SUNDAY, MAY 19: IARS

6:00 am – 7:00 am *Parc Mont-Royal*

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 *Rue Crescent*

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? *Ticketed event; visit the Registration Desk for details.*

6:00 am – 7:00 am *Square Victoria*

Women in Anesthesia Continental Breakfast
Sorry fellas, this one is ladies only please!
Moderated by Jeanine P. Wiener-Kronish, MD, Massachusetts General Hospital
Ticketed event; visit the Registration Desk for details.

7:00 am – 9:00 am *Agora / Centre-Ville*

KOSAKA BEST OF MEETING ABSTRACT AWARDS ORAL AND POSTER PRESENTATIONS

Come hear the best of the best present research and outcomes that are impacting the field of anesthesiology in the areas of Clinical Research, Basic Science and Scholar Abstracts.

The Kosaka Best of Meeting Abstract Awards are supported by the Japan Society for Clinical Anesthesia and the International Anesthesia Research Society.



7:00 am – 7:30 am	Open Poster Viewing and Discussion
7:30 am – 7:35 am	Introduction
7:35 am – 8:00 am	Top Finalist: Basic Science Research Oral Presentations
8:00 am – 8:25 am	Top Finalist: Clinical Research Oral Presentations
8:25 am – 8:50 am	Top Finalist: Scholars Oral Presentations
8:50 am – 9:15 am	Top Late-Breaking Abstract Oral Presentations
9:15 am – 9:25 am	Judges Deliberate
9:25 am – 9:30 am	Winners Announced and Closing Statement

TOP FINALISTS: BASIC SCIENCE RESEARCH

K1. Hyperoxic Resuscitation following Canine Cardiac Arrest Increases Cerebellar Purkinje Neuronal Damage and Inflammatory Microglial Activation

Gary Fiskum, PhD, University of Maryland School of Medicine

K2. Therapeutic Effects of Hyaluronic Acid in *E.coli* Bacterial Pneumonia in the Ex Vivo Perfused Human Lungs

Jae-woo Lee, MD, University of California San Francisco

K3. GFAP Expression in the Visual Cortex is Increased in Juvenile Non-Human Primates That Were Exposed to Anesthesia during Infancy

Viola Neudecker, MD, Columbia University Medical Center

K.04. Opioid Therapy Algorithm for Chronic Non-Cancer Pain Based on APS, AAPM, CDC, ASA and ASRA Guidelines and Position Statements

Jason D. Lefkof, DO, University of Miami Miller School of Medicine presenting on behalf of Ethan L. Chambers, MD, University of Miami / Jackson Memorial Hospital

TOP FINALISTS: CLINICAL RESEARCH

K5. Effects of Incubating Packed Red Blood Cells with Common Infusion Crystalloids and Medications on Red Blood Cell Lysis, Aggregation and Deformability

Domagoj Mladinov, MD, PhD, University of Alabama at Birmingham (UAB)

K6. Sustaining the Gains: A 6-year Follow Through of the Impact of a Hospital-Wide Patient Safety Strategy on Global and Anesthetic Patient Safety Outcomes

Ming Ann Sim, MBBS, National University Hospital Singapore

TOP FINALISTS: SCHOLARS

K7. Bacterial Sepsis Increases Fibrillary Amyloid Load and Neuroinflammation in a Mouse Model of Alzheimer's Disease Pathology

Jacob Basak, MD, PhD, Washington University School of Medicine

K8. Response to Inhaled Anesthetics Measured by the Triple Variable Index Reveals Population-Specific Patterns of Intraoperative Hypotension Exposure

Michael P. Schnetz, MD, PhD, University of Pittsburgh

K9. Therapeutic Effects of High Molecular Weight Hyaluronic Acid in Ex Vivo Perfused Marginal Human Lungs Injured with Pseudomonas Aeruginosa

Shinji Sugita, MD, University of California, San Francisco

FINALISTS: BASIC SCIENCE RESEARCH

K10. Total Intravenous Anesthesia with a Novel Formulation of Isoflurane Perfluorocarbon-Based Nano-emulsion: Safety, Efficacy and Toxicity in Dogs

Behrouz Ashrafi, MD, University of Miami

K11. Milrinone Decreases Late Apoptosis in H9c2 Cardiomyocytes through a Non-Dependent ATP Pathway

Jose V. Montoya-Gacharna, MD, NYU Langone Health

K12. A Systems Immunology Approach to Characterize Lung Immune Response to Hyperoxia

Dusan Hanidziar, MD PhD, Massachusetts General Hospital

K13. Dexmedetomidine Prevents Lipopolysaccharide (LPS)-Induced Neuroinflammation and Cognitive Decline through an α 2A Adrenoceptor Mechanism in Mice

Mervyn Maze, M.B., Ch.B., University of California San Francisco

K14. The Impact of Nutraceutical Pre-Habilitation and Postoperative Treatment with Ecoisapentanoic Acid (EPA) and Acetylsalicylic Acid (Aspirin) on a Novel Animal Model of Recovery after Surgery

Juan Cata, MD, MD Anderson Cancer Center

K15. Deep Immune Profile of Preoperative Glucocorticoid Administration in Patients Undergoing Surgery

Amy Tsai, BA, Stanford University School of Medicine presenting on behalf of Brice Gaudilliere, MD, PhD, Stanford University School of Medicine

K16. A Novel Learning Management System to Revolutionize Generation, Administration, and Assessment of Simulation-Based Medical Education

Scott M. Pappada, PhD, The University of Toledo College of Medicine and Life Sciences

FINALISTS: CLINICAL RESEARCH

K17. Contingency Planning to Overcome Critical Shortages of Hyperbaric Bupivacaine for Obstetric Anesthesia Care

Laurence Ring, MD, Columbia University Medical Center

K18. Patient-Reported In-Hospital Complications and Self-Reported Cognitive Function 1-Year after Surgery

Thomas G. Kannampallil, PhD, Washington University School of Medicine

K19. Epidemiology of Surgical Site Infection in Spinal Fusion Surgery and Patterns of Discordance with Surgical Antibiotic Prophylaxis: A Retrospective Case-Level Analysis

Dustin R. Long, MD, University of Washington

K20. Effects of Acetaminophen, NSAIDS, Gabapentinoids and Their Combinations on the Day of Surgery in Total Hip and Knee Arthroplasties

Tetsu Ohnuma, MD, MPH., Duke University

K21. Implementation of a Distributed Research Network Virtual Data Warehouse for a Multi-Center Observational Study

Seshadri Mudumbai, MD, Stanford University

K22. The Effect of Low Dose Intra-Operative Ketamine on Closed-Loop Controlled General Anesthesia: A Randomized Controlled Equivalence Trial

Matthias Gorges, PhD, The University of British Columbia

K23. Poiseuille's Law Demonstration to Compare Flow Rates with Commonly Used Vascular Catheters and IV Tubing Accessories

Christina R. Miller, MD, Johns Hopkins Hospital

FINALISTS: SCHOLARS

K24. Ventilator-Induced Lung Injury in a Rat Model of Pulmonary Fibrosis is Influenced by Disease Severity and Tidal Volume

Khoa Nguyen, BS, University of Central Florida

K25. Novel Circulating Metabolic Markers Improve Discrimination of Metabolic Health Independent of Weight

Stephen Ellison, MD, PhD, Duke University Medical Center

K26. The INTUIT Study: Investigating Neuroinflammation Underlying Postoperative Neurocognitive Dysfunction and Delirium in Older Adults

Thomas Bunning, BS, Duke University Medical Center

K27. Imaging Cortical Activity During General Anesthesia: Insights into Cortical Pain Processing in Mice

Jarret Weinrich, PhD, University of California San Francisco

K28. The Left Angular Gyrus and Dorsal Anterior Cingulate Cortex: Key Regions for Pre-Post Operative Functional Resting State Decline?

Cheshire Hardcastle, MSc, University of Florida

K29. Risk Factors for Acute Kidney Injury after Primary Total Correction of Coarctation of the Aorta(COA) and Transposition of the Great Arteries(TGA) in Infants: A Retrospective Cohort study

Soo Young Kim, MD, Asan Medical Center

K30. Preoperative Gabapentinoids Increase Risk of Postoperative Opioid-Related Respiratory Depression in Adult Patients Undergoing Total Hip and Knee Arthroplasties

Sean Moore, MD, MBA, Duke University

TOP LATE-BREAKING ABSTRACTS

K31. Behavioral Sedation EEG Changes Induced by Dexmedetomidine Attenuated but not Eliminated in A Novel Adra2a Knockout Mouse

Benjamin A. Harrison, BA Candidate, University of Pennsylvania

K32. Restrictive Versus Liberal Transfusion Strategies in Cardiac Surgery: A Systematic Review and Meta-Analysis with Trial Sequential Analysis

Hessam H. Kashani, MD, MSc, University of Manitoba

K33. What Counts? Comparison of Manual Palpation, Mechanomyography, Acceleromyography and Electromyography for Twitch Assessment

Kelly Michaelsen, MD, PhD, University of Washington

8:00 am – 5:00 pm

Place du Canada / Square Dorchester

IARS Poster Session E: Open Viewing

For session details, see see IARS Posters tab.

9:00 am – 9:30 am

Break

9:30 am – 10:30 am

Vortex



SASM Problem-Based Learning Discussion Perioperative Care of the Patient with OSA*

Crispiana Cozowicz, MD, Hospital for Special Surgery & Dawn Dillman, MD, Oregon Health and Science University

Ticketed event; visit the Registration Desk for details.

9:30 am – 10:30 am

Ping



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 & James Fehr, MD, Washington University School of Medicine

Ticketed event; visit the Registration Desk for details.

9:30 am – 11:00 am

Av. Viger

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

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 – 11:00 am

Agora / Centre-Ville



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

Is Remifentanyl Essential for Neurosurgical Anesthesiology?

Dhanesh Kumar Gupta, MD, Duke University School of Medicine

9:30 am – 11:00 am

Av. Duluth



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 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

Av. Laurier

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

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

9:30 am – 12:30 pm

Rue Notre-Dame

Workshop

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

David Kiamanesh, MD, Stony Brook University School of Medicine; James A. Osorio, MD, Weill Cornell Medical Center; Oliver Panzer, MD, Columbia University Medical Center; New York-Presbyterian Hospital; Cortessa Russell, MD, Columbia University Medical Center; New York-Presbyterian Hospital; Julia B. Sobol, MD, Columbia University Medical Center; New York-Presbyterian Hospital & Paul D. Weyker, MD, Kaiser Permanente Medical Group of Northern California

Ticketed event; visit the Registration Desk for details.

11:00 am – 12:30 pm

Av. Duluth

Panel

Understanding Observational Studies: Updates from Perioperative Epidemiologists

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

Hospital-Level Analyses

Duminda Nalaka Wijesundera, 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

11:00 am – 12:30 pm

Av. Viger



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 Vlissides, 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

11:00 am – 11:30 am

Break

11:00 am – 12:30 pm

Agora / Centre-Ville



SmartTots Panel
Anesthesia and Neurotoxicity: A Conundrum for Clinicians

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

Preclinical Studies: Are These Models Reliable?

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

Clinical Studies: Do We Have an Answer?

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

Can We Tie the Preclinical Data to Clinical Data?

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

11:30 am – 12:15 pm

Av. Van-Horne

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

Host: Thomas Hemmerling, MD, MSc, DEAA, McGill University
Speaker: Sonia Vaida, MD, Penn State Milton S. Hershey Medical Center

11:30 am – 12:30 pm

Vortex

Problem-Based Learning Discussion
Pulmonary Alveolar Hemorrhage in a Patient with Short-Term Ventricular Assist Device Awaiting Heart Transplantation

Michael Murray, MD, Geisinger Medical Center; Gebhard Wagener, MD, Columbia University Medical Center & Amy Wang, MD, Columbia University Medical Center
Ticketed event; visit the Registration Desk for details.

11:30 am – 12:30 pm

Ping

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

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
Ticketed event; visit the Registration Desk for details.

12:30 pm – 2:00 pm

Place du Canada / Square Dorchester

IARS Poster Session E – Presenters in Attendance

For session details, see the IARS poster tab.

1:00 pm – 2:00 pm

Lunch on Your Own

Check out the Marché Artisans for a quick bite, or any of the many restaurants located in the hotel.

2:00 pm – 2:45 pm

Av. Duluth

Review Course Lecture
Cardiovascular Outcomes in Transcatheter Aortic Valve Replacement: Implications for Anesthesiology

Host: Miko Enomoto, MD, Oregon Health & Science University
Speaker: 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

Ping

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
Ticketed event; visit the Registration Desk for details.

2:00 pm – 3:00 pm

Vortex

Problem-Based Learning Discussion
Heroin for Labor Pain: What Are You Smoking or How to Get Controversial Research through the IRB

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

Ticketed event; visit the Registration Desk for details.

2:00 pm – 3:30 pm

Av. Laurier



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

Agora / Centre-Ville



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

2:00 pm – 5:00 pm

Rue Saint-Denis

Workshop

Bootcamp for Brief Cognitive Assessment Skills in the Perioperative Setting

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

Ticketed event; visit the Registration Desk for details.

2:00 pm – 6:00 pm

Av. Van-Horne



AUA, eSAS, IARS, FAER, MPOG, PACT & SOCCA

Initiative for Multicenter Pragmatic Anesthesiology Clinical Trials' (IMPACT)

Introduction

Eric Jacobsohn, MBChB, MHPE, FRCPC,
University of Manitoba
Jeanine Wiener-Kronish, MD, Massachusetts
General Hospital

How to Conduct Pragmatic Trials in Under-resourced Countries

Bruce Biccard, MD, University of Kwazulu-Natal, South Africa

How to Conduct a Massive Multi-center Stepped Wedge Pragmatic Trial

Jessica Spence, MD, McMaster University

Trials and Tribulations of Ambitious Multicenter Pragmatic Trials

David Mazer, MD, University of Toronto

IMPACT Awards Presentations

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

2:00 pm – 6:00 pm

Rue Mansfield

Scholars' Program: Leadership Workshop Self-Awareness and Self-Management

Workshop led by Duane Anthony Wilson, MA,
University of Notre Dame & Jean Ann Larson,
FACHE, LFHIMSS, FIISE, UAB Health System; UAB
School of Medicine
Ticketed event; visit the Registration Desk for details.

3:30 pm – 4:00 pm

Break

4:00 pm – 5:00 pm

Vortex



SNACC Problem-Based Learning Discussion Perioperative Management of the Patient with Closed Head Injury for Non-Neurologic Procedure

Martin Dworschak, MD, MBA,
Medical University of Vienna &
Letha Mathews, MD, Vanderbilt University
Medical Center
Ticketed event; visit the Registration Desk for
details.

4:00 pm – 5:00 pm

Ping

Problem-Based Learning Discussion Perioperative Atrial Fibrillation: Challenges in Prevention and Management

Suzanne Bennett, MD, University of
Cincinnati Medical Center & Kunal
Karamchandani, MD, FCCP, Penn State
Milton S. Hershey Medical Center
Ticketed event; visit the Registration Desk for
details.

4:00 pm – 5:00 pm

Av. Duluth

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

4:00 pm – 5:30 pm

Av. Viger

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

Agora / Centre-Ville

Panel

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

Moderated by Kathryn K. Lauer, MD, Medical
College of Wisconsin

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

Susan A. Smith, MD, The Ochsner Clinic

**How to Strategically Say “No” in Order
to Build Your Career**

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

**Designing an Academic Roadmap
Success: Faculty Development
and Mentorship in an Academic
Anesthesiology Career**

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

**The Challenges in Leading Up, Down and
Laterally**

Mada Helou, MD, University Hospitals at
Case Medical Center

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

Elizabeth Watson Duggan, MD, Emory
University School of Medicine

4:00 pm – 6:00 pm

Av. Laurier

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 – 8:00 pm

Square Victoria



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 Dine-Around

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.



100 MONDAY, MAY 20 AT-A-GLANCE: IARS

8:00 am – 5:00 pm

Place du Canada / Square Dorchester

IARS POSTER SESSION F: OPEN VIEWING

6:15 am – 7:15 am Foyer - Place du Canada

Continental Breakfast

6:15 am – 7:15 am Rue Crescent

Marketing Yourself for Success Continental Breakfast*

6:15 am – 7:15 am Square Victoria

Trending Topics Continental Breakfast*

7:30 am – 8:15 am Av. Viger

SPAQI RCL: Perioperative Troponin and MINS (Myocardial Injury after Noncardiac Surgery)

7:30 am – 8:30 am Vortex

PBLD: Rib Fracture Pain Management: Controversies and Conundrums

7:30 am – 8:30 am Ping

PBLD: Facts and Myths of Hyperkalemia*

7:30 am – 9:00 am Av. Laurier

TAS, SOAP, SPA, and SAGA Panel: Trauma Anesthesia for Special Populations; Obstetric, Pediatric and Geriatric Patients

7:30 am – 9:30 am Agora / Centre-Ville

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

9:00 am – 9:30 am

Break

9:30 am – 10:15 am Av. Duluth

ISPCOP RCL: Ambulatory Surgery in Morbid Obesity: Quo Vadis?

9:30 am – 10:30 am Ping

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

9:30 am – 10:30 am Vortex

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

9:30 am – 11:00 am Av. Laurier

Panel: Anesthesia and Sensory Awareness: How Mechanism May Inform Clinical Practice

9:30 am – 11:00 am Av. Viger

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

9:30 am – 12:00 pm Av. Van-Horne

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

9:30 am – 12:30 pm Rue Notre-Dame

Workshop: (Slightly) Advanced Statistics: Regression Analysis for the Anesthesiologist*

11:00 am – 12:30 pm Av. Viger

SPAQI and SAGA Panel: Mind Your Elders! A Multidisciplinary Approach to Geriatric Perioperative Care

*Ticketed event, visit registration for details

101 MONDAY, MAY 20 AT-A-GLANCE: IARS

11:00 am – 12:30 pm

Av. Laurier

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

11:30 am – 12:15 pm

Agora / Centre-Ville

ASER RCL: Perioperative Medicine and Enhanced Recovery: Current State and Future Directions

11:30 am – 12:30 pm

Vortex

PBLD: What's Up: Evaluating Unexpected Intraoperative Hyperkalemia*

11:30 pm – 12:30 pm

Ping

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

12:30 pm – 2:00 pm

Place du Canada / Square Dorchester

IARS Poster Session F – Presenters in Attendance

12:00 pm – 2:00 pm

Lunch on Your Own

2:00 pm – 2:45 pm

Av. Duluth

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

2:00 pm – 3:00 pm

Vortex

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

2:00 pm – 3:30 pm

Agora / Centre-Ville

SAGA Panel: Waves of Delirium: Anesthetic-Induced EEG Patterns that Predict

Postoperative Delirium

2:00 pm – 3:30 pm

Av. Viger

Panel: Incivility in Academic Medicine: Incidence, Instigators and Impact

2:00 pm – 4:00 pm

Av. Laurier

SYM: Organ Protection during the Perioperative Period

2:00 pm – 4:00 pm

Av. Van-Horne

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

3:30 pm – 4:00 pm

Break

4:00 pm – 4:45 pm

Av. Duluth

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

4:00 pm – 5:30 pm

Agora / Centre-Ville

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

4:00 pm – 5:30 pm

Av. Viger

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

6:00 pm – 7:30 pm

Taste of Montreal Dine-Around*

*Ticketed event, visit registration for details

6:15 am – 7:15 am *Foyer - Place du Canada*

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 *Rue Crescent*

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. *Ticketed event; visit the Registration Desk for details.*

6:15 am – 7:15 am *Square Victoria*

Trending Topics Continental Breakfast

Jump feet-first into the day with discussions about what's new, controversial, exciting, and top-of-mind in anesthesia. *Ticketed event; visit the Registration Desk for details.*

7:30 am – 8:15 am *Av. Viger*



SPAQI Review Course Lecture Perioperative Troponin and MINS (Myocardial Injury after Noncardiac Surgery)

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

*Speaker: Steven L. Cohn, MD, FACP, SFHM
University of Miami Miller School of Medicine
Medicine*

7:30 am – 8:30 am *Vortex*

Problem-Based Learning Discussion Rib Fracture Pain Management: Controversies and Conundrums

Naveen Eipe, MD, The Ottawa Hospital

7:30 am – 8:30 am *Ping*

Problem-Based Learning Discussion Facts and Myths of Hyperkalemia

Suzanne Bennett, MD, University of Cincinnati Medical Center & Corey S. Scher, MD, New York University School of Medicine
Ticketed event; visit the Registration Desk for details.

7:30 am – 9:00 am *Av. Laurier*



SAGA

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 Joyce, MD, EdM, Alpert Medical School of Brown University

7:30 am – 9:30 am *Agora / Centre-Ville*

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 Richebé, MD, PhD, University of
Montreal*

8:00 am – 5:00 pm

Place du Canada / Square Dorchester

IARS Poster Session F: Open Viewing

For session details, see IARS Posters tab.

9:00 am – 9:30 am

Break

9:30 am – 10:15 am

Av. Duluth



**ISPCOP Review Course Lecture
Ambulatory Surgery in Morbid Obesity: Quo
Vadis?**

*Host: Satya Krishna Ramachandran, FRCA,
Harvard Medical School*

Speaker: Naveen Eipe, MD, The Ottawa Hospital

9:30 am – 10:30 am

Ping

**Problem-Based Learning Discussion
What Is New in Management of Cirrhotic
Patient for a TIPS Procedure?**

*Marina Moguelevitch, MD, Montefiore Medical
Center*

9:30 am – 10:30 am

Vortex

SAGA

**SAGA Problem-Based Learning Discussion
My Patient Is 92 Years Old, Has a DNR, and
Wants to Have Elective Shoulder Surgery!**

*Martin Dworschak, MD, MBA,
Medical University of Vienna; Julie McSwain,
MD, Medical University of South Carolina &
Sylvia H. Wilson, MD, Medical University of South
Carolina*

9:30 am – 11:00 am

Av. Laurier

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

Av. Viger

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

Av. Van-Horne

Innovative Session

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

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

Erika Blacksher, PhD, University of Washington Medicine

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

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

Jay S. Kaufman, PhD, McGill University

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

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

9:30 am – 12:30 pm

Rue Notre-Dame

Workshop

(Slightly) Advanced Statistics: Regression Analysis for the Anesthesiologist

Thomas M. Austin, MD, MS, Emory University School of Medicine; Lisa Kit-Ying Lee, MD, MS, University of California, Los Angeles David Geffen School of Medicine & Dmitry Tumin, PhD, Nationwide Children's Hospital
Ticketed event; visit the Registration Desk for details.

11:00 am – 12:30 pm

Av. Viger



Society for Perioperative Assessment and Quality Improvement

SAGA

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. Mclsaac, 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

11:00 am – 12:30 pm

Av. Laurier

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. Charchafli, 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

11:30 am – 12:15 pm *Agora / Centre-Ville*



**ASER Review Course Lecture
Perioperative Medicine and Enhanced Recovery: Current State and Future Directions**

Host: Susan Goobie, MD, Harvard Medical School

Speakers: 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 *Vortex*

**Problem-Based Learning Discussion
What's Up: Evaluating Unexpected Intraoperative Hyperkalemia**

Jeffrey Gardner, MD, Wake Forest Baptist Health & Roman Schumann, MD, Tufts Medical Center
Ticketed event; visit the Registration Desk for details.

11:30 pm – 12:30 pm *Ping*

**Problem-Based Learning Discussion
Turning Blue on the Way to PACU: Unexpected Deterioration in a Pediatric Patient**

Claude Abdallah, MD, MSc, Children's National Health System & Lawrence Schwartz, MD, Children's Hospital Colorado; University of Colorado
Ticketed event; visit the Registration Desk for details.

12:30 pm – 2:00 pm

IARS Poster Session F – Presenters in Attendance

See IARS Posters tab for details.

12:30 pm – 2:00 pm

Lunch on Your Own

Check out the Marché Artisans for a quick bite, or any of the many restaurants located in the hotel.

2:00 pm – 2:45 pm

Av. Duluth

**Review Course Lecture
Patient Selection for Ambulatory Surgery: Can Any Patient Be an Outpatient?**

Host: Bobbie Jean Sweitzer, MD, FACP, Northwestern University Feinberg School of Medicine

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

2:00 pm – 3:00 pm

Vortex

**Problem-Based Learning Discussion
One-Lung Anesthesia for Pacing Wire Change in 115kg Fontan Patient**

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

Ticketed event; visit Registration Desk for details.

2:00 pm – 3:30 pm

Agora / Centre-Ville

SAGA

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

Hepatic Ischemia and Reperfusion Injury

Simon C. Robson, MD, Harvard Medical School

Perioperative Kidney Protection

Alexander Zarbock, MD, University Hospital Münster

2:00 pm – 3:30 pm

Av. Viger

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

2:00 pm – 4:00 pm

Av. Laurier

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

2:00 pm – 4:00 pm

Av. Van-Horne

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

Break

4:00 pm – 4:45 pm

Av. Duluth

Review Course Lecture

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

Host: Gebhard Wagener, MD, Columbia University Medical Center

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

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

4:00 pm – 5:30 pm

Agora / Centre-Ville



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

6:00 pm – 7:30 pm

Taste of Montreal Dine-Around

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.

4:00 pm – 5:30 pm

Av. Viger

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



If you are a transplant anesthesiologist or critical care physician, join the Society for the Advancement of Transplant Anesthesia (SATA) at the Third Annual Symposium.

Registration fee is waived for SATA members; \$120 for non-members. Register on-site outside Av. Duluth. No CME will be provided for this session.



8:00 am – 8:30 am

Registration

8:30 am – 8:45 am

Welcome and Introduction

Susan Mandell, MD, PhD, University of Colorado
Ernesto A. Pretto, MD, University of Miami Miller School of Medicine

8:45 am – 9:30 am

Session 1: Everything Is Going to Be Faster and Better

Stuart McCluskey, MD, University of Toronto and University Health Network

Implementing ERAS and Fast Track in a Liver Transplant Program: A Road Map

Stephen Aniskevich, MD, Mayo Clinic

Standardizing Liver Transplant Anesthesia: Quality Indicators and Education

Dieter Adelman, MD, University of California, San Francisco School of Medicine

9:30 am – 10:00 am

Session 2: Pro/Con Debate: I Need CRRT in the Operating Room

Ramona Nicolau-Raducu, MD, PhD, University of Miami Miller School of Medicine
Nicolette Schlichting, MD, Mount Sinai Hospital
Vivienne Hannon, MBBS, University of California, San Francisco, Dept of Anesthesia

10:00 am – 10:20 am

Session 3: Case and Problem-Based Learning Discussion

Abdominal Transplantation

Cara Crouch, MD, University of Colorado Hospital

10:20 am – 10:45 am

Break

10:45 am – 11:45 am

Session 4: Thoracic Organs

Andrea Miltiades, MD, Columbia University Medical Center

Combined Abdominal and Thoracic Transplants

Barbara Wilkey, MD, University of Colorado
Benjamin Abrams, MD, University of Colorado Hospital

Combined Abdominal and Thoracic Transplants

Yoshihisa Morita, MD, Henry Ford Hospital

12:00 pm – 12:15 pm

Session 5: What's New in Transplant Anesthesiology?

Geraldine Diaz, DO, University of Chicago Medical Center

12:15 pm – 12:30 pm

Closing Remarks

Gebhard Wagener, MD, Columbia University Medical Center

IARS POSTERS



IARS

International Anesthesia Research Society



111 POSTER SESSIONS: IARS (D-F)

All poster sessions, the Poster Information desk, and the Call4Posters™ desk are located in the Place du Canada and Square Dorchester Rooms.

IARS Poster Sessions are grouped based on subspecialty topic and will include an open poster viewing time and a poster presentation session.

IARS POSTER SESSION D: SATURDAY, MAY 19

7:30 am – 8:00 am	Setup
8:00 am – 5:00 pm	Open Viewing
1:00 pm – 2:30 pm	Poster Session
5:00 pm – 5:30 pm	Breakdown

IARS POSTER SESSION E: SUNDAY, MAY 19

7:30 am – 8:00 am	Setup
8:00 am – 5:00 pm	Open Viewing
12:30 pm – 2:00 pm	Poster Session
5:00 pm – 5:30 pm	Breakdown

IARS POSTER SESSION F: MONDAY, MAY 20

7:30 am – 8:00 am	Setup
8:00 am – 5:00 pm	Open Viewing
12:30 pm – 2:00 pm	Poster Session
5:00 pm – 5:30 pm	Breakdown

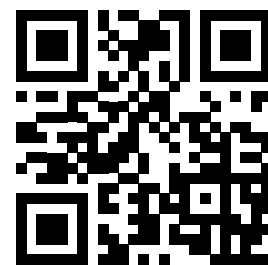
Viewing e-Posters

e-Posters are available for viewing throughout the Annual Meetings at <http://tiny.cc/lr3l5y>.

Call4Posters™ Pick-up

Orders placed through Call4Posters™ will be available for pick-up at the Call4Posters™ Desk.

Thursday, May 16	7:00 am – 1:30 pm
Friday, May 17	7:00 am – 1:30 pm
Saturday, May 18	7:30 am – 2:00 pm
Sunday, May 19	7:30 am – 2:00 pm
Monday, May 20	7:30 am – 10:00 am



112 POSTER CATEGORY INDEX: IARS

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Blood Management	D19-21, E25-31, F20-22
Cardiovascular Anesthesiology	D22-31, E32-37, F23-34
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Sleep Medicine	D186-190, E195, F195-196
Technology, Computing and Simulation, Equipment Monitoring	D191-203, E196-204, F197-205
Trauma	D204-209, E205-209

D1. Chronic Inhibition of Acetylcholinesterase (AChE) Attenuates in Vivo Airway Hyperreactivity and Lung Inflammation in a Model of Murine Asthma

Claudia Bruguera, Roman Schumann, Dana Arekat, Natalia Stamas, John Adam Reich, David Moss, Edward Hong, Jacob Ludington, Andrea Tsai

D2. Posterior Tracheal Diverticulum in a Right Lung Transplant

Patrick Hussey, Taylor Johnston, Joseph Pena, Andrea N Miltiades

D3. Induction of Endothelial Barrier Dysfunction by Serum Factors of Traumatic Brain Injury in Rats

Yunbo Ke, Julie Proctor, Juliana Medina, Catriona Miller, Junghyun Kim, Anna Birukova, Gary Fiskum, Konstantin Birukov

D4. Left Molar Approach Intubation for a Complex Emergency Airway in a Patient with Achondroplasia and Known Difficult Airway

Adrienne Lazer, Sergio B. Navarrete, Brian Cocchiola

D5. Laryngeal Mask Airway with An In-Built Endotracheal Tube

Sridhar R. Musuku, Neil Mathur, Susan L. Herrick, Divya Cherukupalli

D6. Do the Changes in the Amount of Lubrication and Temperature Affect the Inhibitory Effects of Lubrication on the Increase in the Endotracheal Tube Cuff Pressure during Nitrous Oxide Exposure in Vitro?

HiroYuki Oshika, Yukihide Koyama, Tomio Andoh

D7. Protecting the Airway and Physician: Lessons from 214 Cases of Endotracheal Intubation Litigation

Andrea Perales, Molly Amin, Anna Korban, Peter Svider, Jean A. Eloy, Jean Daniel Eloy

D8. Dexmedetomidine for the Prevention of Fentanyl - Induced Cough in Patients Undergoing General Anesthesia: A Double-Blind Randomized and Placebo Controlled Study

Alia S. Dabbous, Mabelle C. Baissari, Mayyas M. Msheik, Patricia W. Nehme, Samar K. Taha

D9. High Rates of Postoperative Opioid Overprescription Following Ambulatory Breast Surgery

Anjali Dixit, Solmaz P. Manuel, Christina Inglis-Arkell

D10. Dexmedetomidine vs Midazolam for Medical Thoracoscopy-Randomized, Noninferiority Trial

Vinod Kumar, Prashant Sirohiya, Nishkarsh Gupta, Rakesh Garg, Sachidanand Jee Bharti, Karan Madan, Seema Misra, Sushma Bhatnagar, Vijay Hadda, Anant Mohan

D11. Reasons for Postoperative Inpatient Admissions after Ambulatory Surgery: A Single Center Retrospective Study

Singh Nair, Singh Nair, David Bennett, David Adams, Akshay Bhatt, Curtis Choice

D12. Should Laboratory Tests Be Obtained Before Outpatient Gastrointestinal Endoscopic Procedures in Cancer Patients?

Linh Nguyen, Katherine Hagan, Shannon Hancher-Hodges, Piotr Kwater, Laura Rubin, Shrini K. Parikh, Juan Cata

D13. Outcomes after Laparoscopic Cholecystectomy: Does the Surgical Setting Matter?

Eric Rosero, Girish P. Joshi

D14. Total Intravenous Anesthesia with a Novel Formulation of Isoflurane Perfluorocarbon-Based Nano-Emulsion: Safety, Efficacy and Toxicity in Dogs

*Behrouz Ashrafi, Ernesto A. Pretto, Christopher A. Fraker
Kosaka Best of Meeting Award Finalist - Basic Science Research*

D15. Anesthetic Sensitivities in the Zebrafish

Victoria Bedell, Jayce Breig, Micheal A. Pack, Max B. Kelz, Roderic G. Eckenhoff

D16. Effect of Propofol on in Vitro Functions of Breast Cancer Cell Lines

Zhaosheng Jin, Ru Li, Yujie Huang, Jun Lin

D17. Effect of Sevoflurane and Propofol on the Phenotype of Lung Cancer Cell in Vitro, Preliminary Findings

Zhaosheng Jin, Ru Li, Michelle Jaromy, Hengrui Liu, Jun Lin

D18. Mixtures of General Anesthetics Act Synergistically Only If They Act on Different Binding Sites on Synaptic GABA_A Receptors: A Study in Tadpoles

Daniel Kent, Keith W. Miller

D19. Effects of Incubating Packed Red Blood Cells with Common Infusion Crystalloids and Medications on Red Blood Cell Lysis, Aggregation and Deformability

*Domagoj Mladinov, Kristine Yarnoff, Erika Nagababu, Dan Berkowitz, Courtney Lawrence, Paul Ness, Thomas Kickler, Patricia Brunner, Joan Boyd, Jeffrey Dodd-O
Kosaka Best of Meeting Award Top Finalist - Clinical Research*

D20. Derivation of Formula for Average Hematocrit Under Isovolemic Conditions

Thomas M. Austin, Brett S. Escarza, Chris Fiedorek, Michael Fiedorek, Susana Cruz Beltran, Humphrey Lam

D21. Platelet Functionality Is Decreased after Infusion through a Rapid Infusion System

Shahrukh Bengali, Ilan Keidan, Nikolaus Gravenstein, Jeffrey D. White, Joshua Sappenfield

D22. Novel Circulating Metabolic Markers Improve Discrimination of Metabolic Health Independent of Weight

*Stephen Ellison, Lydia Kwee, Nathan Bihlmeyer, James Bain, Damian Craig, William Kraus, Svati Shah
Kosaka Best of Meeting Award Finalist - Scholars*

D23. Ventilator-Induced Lung Injury in a Rat Model of Pulmonary Fibrosis Is Influenced by Disease Severity and Tidal Volume

*Khoa Nguyen, Chris Ortiz, Trixie Le, Mansoureh Eghbali, Nir Hoftman, Soban Umar
Kosaka Best of Meeting Award Finalist - Scholars*

D24. Milrinone Decreases Late Apoptosis in H9C2 Cardiomyocytes through a Non-Dependent ATP Pathway

*Jose V. Montoya-Gacharna, June Rim, Sachin Gupte
Kosaka Best of Meeting Award Finalist - Basic Science Research*

D25. Intraventricular Pressure Difference Assessment from Color M-Mode Image using Transesophageal Echocardiography

Koichi Akiyama, Isaac Wu, Eric J. Stöhr, Aaron Mittel, Ruiping Ji, Keiichi Itatani, Yasufumi Nakajima, Atsushi Kainuma, Teiji Sawa, Hiroo Takayama

D26. Higher Qp/Qs Ratio Is Associated with Lower Cerebral rSO₂ in Patients with Ventricular Septal Defect

Aya Banno, Tomoyuki Kanazawa, Kazuyoshi Shimizu, Tatsuo Iwasaki, Hiroshi Morimatsu

D27. Factor VIII Inhibitor Bypass Activity (FEIBA) for the Reduction of Transfusion in Cardiac Surgery: A Randomized Double Blind Placebo Controlled Pilot Trial

Ann Bingham, Valerie Sera, Howard Song, Victor Rodriguez, Jaishankar Raman, Frederick Tibayan, Miriam Treggiari

D28. Preoperative Radial Artery Diameter Can Help Predict Radial-To-Femoral Pressure Gradient and Vasoactive Agent Requirements

Vincent Bouchard-Dechene, Andre Denault, Alain Deschamps, Pierre Couture, Philippe Pérusse, Georges Desjardins

D29. Post-Burn Malnutrition and Associated Cardiomyopathy

Michelle Grata, Alexis Mcquitty, Nikul Patel, Frances Brown

D30. Correlation of Bi-Spectral Index with End-Tidal Anesthetic Concentration and Body Temperature during Off-Pump CABG

Muralidhar Kanchi, Priya Nair, Manjunath Udresh, Kumar G. Belani

D31. Large Right Ventricular Outflow Tract Tumor: Anesthetic Management and Evaluation by Transesophageal Echocardiography

Brad P. Moore, Steven Miller

D32. Bacterial Sepsis Increases Fibrillary Amyloid Load and Neuroinflammation in a Mouse Model of Alzheimer's Disease Pathology

Jacob Basak, Collin J. Nadarajah, Lucy S. Cohen, Patrick W. Sheehan, Erik S. Musiek
Kosaka Best of Meeting Award Top Finalist - Scholars

D33. Therapeutic Effects of High Molecular Weight Hyaluronic Acid in Ex Vivo Perfused Marginal Human Lungs Injured with Pseudomonas Aeruginosa

Shinji Sugita, Xiwen Zhang, Yoshifumi Naito, Li Zhou, Qi Hao, Michael Matthay, Jae Woo Lee
Kosaka Best of Meeting Award Top Finalist - Scholars

D34. Hyperoxic Resuscitation Following Canine Cardiac Arrest Increases Cerebellar Purkinje Neuronal Damage and Inflammatory Microglial Activation

Gary Fiskum, Da Lee, Julie Proctor, Robert E. Rosenthal
Kosaka Best of Meeting Award Top Finalist - Basic Science Research

D35. Therapeutic Effects of Hyaluronic Acid in *E. coli* Bacterial Pneumonia in the *Ex Vivo* Perfused Human Lungs

Jae-Woo Lee, Airan Liu, Jeonghyun Park, Xiwen Zhang, Shinji Sugita, Jaehoon Lee, Hideya Kato, Qi Hao, Michael Matthay
Kosaka Best of Meeting Award Top Finalist - Basic Science Research

D36. A Systems Immunology Approach to Characterize Lung Immune Response to Hyperoxia

Dusan Hanidziar, Yasutaka Nakahori, David Gallo, Joshua Keegan, Jennifer Nguyen, Leo Otterbein, James Lederer, Simon C Robson
Kosaka Best of Meeting Award Finalist - Basic Science Research

D37. The Role of miR-147 in Acute Respiratory Distress Syndrome

Nathaniel K. Berg, Xiaoyi Yuan, Yanyu Wang, Holger K. Eltzschig

D38. Rotational Thromboelastometry Is More Predictive of Mortality in Traumatic Brain Injury Than Conventional Coagulation Testing

Daniel Bingham, John R. Taylor, William C. Beck, Kevin W. Sexton, Benjamin J. Davis, Avi Bhavaraju, Mary K. Kimbrough, Anna Privratsky, Ronald D. Robertson, Donald E. Crabtree

D39. Adverse Outcomes Associated with Absent or Delayed β -Blocker Administration after Cardiac Surgery

Emily Chanan, Germaine Cuff, Samir Kendale, Aubrey Galloway, Mark Nunnally

D40. Meta-Analysis of Lipid Emulsion Therapy in Animal Models Demonstrates Pig-Dependent Bias

Michael R. Fettiplace

D41. Utilizing Surgical Embolectomy for Acute Massive Pulmonary Embolism

Adam Freilich, Jayanta Mukherji, Kimberly Burcar

D42. The Attributable Mortality from Bleeding Complications Exceeds the Attributable Mortality from Thrombotic Complications

Robert E. Freundlich, Melissa L. Bellomy, Milo Engoren, Frederick W. Lombard, Barbara J. Martin, Yaping Shi, Matthew Shotwell

D43. Magnesium Sulfate Significantly Alleviates the Development of Right Ventricular Dysfunction in Monocrotaline-Treated Rats

Chun-Jen Huang

D44. Modifiable Risk Factors of Prolonged Dependence on Vasopressors after Cardiac Surgery: A Retrospective Cohort Study

Loay Kontar, William B. Souligny, Vincent Bouchard-Dechêne, Antoine Rochon, Sylvie Levesque, Matthias Jacquet-Lagrèze, Yoan Lamarche, Denis Babin, André Denault

D45. Trends in Tracheostomy Utilization after Severe Acute Brain Injury in the United States

Vijay Krishnamoorthy, Monica S. Vavilala, Abhijit V. Lele, Karthik Raghunathan, Claire Creutzfeldt

D46. Incidence and Diagnoses of 'Short-Stay' Critical Care Admissions from the Emergency Department
Layne Madden, Deepa Patel, Mengyu Di, Justin Schrager

D47. Spontaneous Esophageal Rupture with Stridor after Partial Resection of the Right Lung
Yuto Matsuoka, Ryu Nakamura, Kazuyoshi Shimizu, Naoto Tomotsuka, Yohei Takano, Akira Katayama, Hiroshi Morimatsu

D48. In Hospital Mortality, Complications, and ICU Length of Stay after Ventricular Assist Device Implantation: A Single Center Case Review
Rachael Mintz-Cole, Andrea Yoder, Abdulaziz Almehli, Kimberly S. Robbins, Albert P. Nguyen, Ulrich Schmidt

D49. Role of Syndecan-1 and Disruption of Glycocalyx in Critically Ill Patients with Ventricular Assist Devices (VAD) and Extracorporeal Membrane Oxygenation (ECMO)
Dorothea Rosenberger, T. Mckai Wood

D50. Gut Microbiome Short-Chain Fatty Acid Levels Can Regulate Lung Inflammatory Responses in Mice
Xiaoli Tian, Judith Hellman, Arun Prakash

D51. Massive Tongue Swelling Preventing Extubation
Thanh-Giang Vu, Jeffrey Gotts

D52. Low-Cost ECMO Troubleshooting Simulation Improves Provider Confidence and Preparedness in Managing Life-Threatening Circuit Complications
Matthew Wiepking, Michael Stentz, Kiley Hodge

D53. Lipid Emulsion Containing Omega3 (N3) Fatty Acids Beneficially Affect Insulin Signaling and Glucose Uptake in the Beating Rat Heart
Michael Zaugg, Phing-How Lou, Eliana Lucchinetti, Alexander S. Clanachan

D54. Assessing the Readability of Anesthesia-Related Patient Education Materials
Raksha Bangalore, Anna Korban, Faraz Chaudhry, Jean Daniel Eloy

D55. Individualized Resident Physician Feedback Decreases Intraoperative Hypotensive Events
Sunny Chiao, Katherine Forkin, Bhiken Naik, Marcel Durieux

D56. Project Pandemic: Efficient and Effective Teamwork and Communication Skills Training using a Tabletop Game
Cullen Jackson, Cindy Ku, John D Mitchell, Vanessa Wong, Carol A Diachun

D57. Geography and Program Reputation Are Key Factors That Influence Residency Match
Jung Kim, William Kim, Germaine Cuff, Michael Wajda, James M. McKeever

D58. The Ontology of Leadership: A Simulation-Based Introduction
Annandita Kumar, Philip Boysen

D59. Representation of Women on the Editorial Board of the *Canadian Journal of Anesthesia*
Gianni R. Lorello, Alana Flexman

D60. Impact of Anesthesia Type on Patient Satisfaction with Anesthesia Care
Anastasia Pozdnyakova, Avery Tung, Richard Dutton, Anum Wazir, David Glick

D61. Economic Evaluations of Sugammadex for Reversal of Neuromuscular Block in Surgical Procedures: A Systematic Review
Amit D. Raval, Ishita Doshi, Sumesh Kachroo, Lori D. Bash

D62. Resident Physician Perspective on Women As Leaders
Karlyndsay Sitterley, Philip Boysen, Joseph Koveleskie

D63. Cognitive Resilience: Predicting a Robust Cognitive Status after Major Non-Cardiac Surgery
Christopher G. Choukalas, Christopher Tang, Laura Sands, Yueyao Wang, Sanam Tabatabai, Devon Pleasants, Jacqueline Leung

D64. Postoperative Delirium after Major Cardiac Surgery Is Associated with High Protein Levels of TIMP-1 and IL-6
Jennifer Mekonnen, Breanna Ethridge, Reine Ibalá, Eunice Hahm, Jacob Gitlin, Jason Z. Qu, Oluwaseun Johnson-Akeju

D65. Depth of Sedation as an Interventional Target to Reduce Postoperative Delirium: Mortality and Functional Outcomes of the Stride Randomized Clinical Trial
Frederick Sieber, Karin Neufeld, Allan Gottschalk, George Bigelow, Esther Oh, Jean Pierre Ouanes, Naeyuh Wang

D66. Beers Criteria in the Perioperative Period: Incidence of Perioperative Diphenhydramine, Midazolam and Scopolamine Use in Elderly Surgical Patients
Audrey E. Spelde, Gurmukh Sahota, Lee A. Fleisher, Sushila Murthy

D67. The “Just Right” Amount of Oxygen: Reducing Hypoxemia and Hyperoxia in a Rwandan Emergency Department
Tori Sutherland, Victor Moriau, Lise Kabeja, Theogene Twagirimugabe, Daniel S. Talmor, Elisabeth D. Riviello

D68. Effects of Intraoperative Fluid Management on Postoperative Acute Kidney Injury in Liver Transplantation: A Retrospective Cohort Study
François M. Carrier, Michaël Chassé, Martin Girard, Luc Massicotte, Marc Bilodeau

D69. Goal-Directed Fluid Therapy Versus Low Central Venous Pressure Strategy during Major Liver Resections (GALILEO): A Patient and Surgeon-Blinded Randomized Controlled Trial
Iris M. Jongerius, Timothy Mungroop, Zehra Uz, Bart F. Geerts, Rogier V Immink, Martin V. Rutten, Thomas M. Van Gulik, Marc G. Besselink, Markus W. Hollmann, Denise P. Veelo

D70. Hemodynamic Changes with Autologous Flushing of Donor Graft during Orthotopic Liver Transplantation
Susan A. Smith, Tim Ziethen, Gabrielle Frisenda, Dennis Sonnier, John Seal, Ari Cohen, Bobby D Nossaman

D71. The Role of Sarcopenia and Frailty in Predicting Outcomes in Orthotopic Liver Transplantation

Susan A. Smith, Richard Tupler, Nick Morrazzo, Ritika Johal, Gabrielle Frisenda, Bobby D. Nossaman, Elizabeth Cohen, Daniel Canter

D72. Peep Titration via Esophageal Balloon Monitoring in a Super Morbidly Obese Patient during a Robotic Radical Nephrectomy

Nicholas Alvey, Maung Hlaing, Jerome Piccoli, Janet Kukreja, Naveen Kukreja, Tim Tran

D73. Critical Care Management of Culture Negative Endocarditis Due to Bartonella

Christian S. Balabanoff Acosta, Daniela De Lima Corvino, Anmary Fernandez Betances, Rafael Arciniegas Flores, Srikar Jonna, Anna M. Schuerner, Richard A. Zack-Guasp, Ricardo Martinez Ruiz, Miguel Cobas, Alexander C. Fort

D74. Venovenous Extracorporeal Membrane Oxygenation Used to Bridge the Obtainment of an Emergent Airway

Christian S. Balabanoff Acosta, Ilya Shnaydman, Saskya Byerly, Rafael Arciniegas Flores, Anna M. Schuerner, Srikar Jonna, Richard A. Zack-Guasp, Arnaldo Vera-Arroyo, Jack Louro

D75. Successful Treatment of a Patient Who Developed Propofol-Induced Neuroexcitation with Intravenous Lipid Emulsion

Sylviana Barsoum, Adeline Kim, James Tse

D76. Use of Remifentanyl for Monitored Anesthesia Care Involving a Patient with Severe Valvular Disease

Jennifer Davis, Stephen T. Krazit

D77. A Prostate for an Eye: Preventing Major Comorbidity through Careful Preoperative Evaluation

Derek Djavaheerian, Sachin Jha

D78. Acute Intrathecal Opioid Pump Malfunction with No Symptoms of Withdrawal

Ahmed Embabi, Amr Hegazi

D79. Successful Multidisciplinary Anesthetic Management of a Pediatric Patient with Congenital Fiber Type Disproportion Myopathy, Congenital Scoliosis and Severely Diminished Pulmonary Function

Adam Forshaw, J. Matthew Kynes, John Meyer

D80. An Accidental Intrathecal Baclofen Overdose Resulting in Altered Mental Status and Hemodynamic Instability in a Pediatric Patient

Aimee Gasior Bejar

D81. Rapid Detection and Transport by ECMO Team Improved Outcomes of Severe Acute Pancreatitis Sequelae

Mariana Gomez, Natan Hekmatjah, Paul Helland, Cecilia Canales, Vadim Gudzenko, Sumit Singh

D82. Carcinoid Crisis Presenting As Severe Bronchospasm during Anesthetic Induction in a Pregnant Patient

Kyung Ji, Jennifer Macpherson, Tichaendepi Mundangepfupfu

D83. Anesthetic Management of Metastatic Chondrosarcoma to the Right Atrium in the Setting of a Right-To-Left Intracardiac Shunt

Daryl Kerr, Avanthi Tudor, Mary Rhee

D84. Acute Heart Failure Related to Carbon Monoxide Intoxication: A Case Report

Michael Kim, Christian Zanza, Yaroslava Longhitano, Jack Berger, Francesco Franceschi

D85. Cannabinoid Hyperemesis Syndrome in the Ambulatory Setting: A Case Report

Peter Lam, Dhamodaran Palaniappan

D86. Iatrogenic Intrahepatic Thoracostomy Tube in the Intensive Care Unit

Jeremy V. Laney, Shihab Sugeir

D87. Assessment of Hemopericardium after Transcatheter Aortic Valve Replacement

Danielle Lovett-Carter, Maurice F. Joyce

D88. Secondary Ultrasound Use in a Post-Operative Patient with Hypotension

Rebecca Martinez, Julia B. Sobol, Albert Yen, Oliver Panzer

D89. Wrong Place, Right Time: Avalon Catheter Migration and Point of Care Ultrasound

Keleigh McLaughlin, Tim Tran

D90. Myotonic Dystrophy Diagnosed by Respiratory Distress after General Anesthesia: A Case Report

Yusuke Mizobuchi, Yoshikazu Matsuoka, Makiko Tani, Kazuyoshi Shimizu, Motomu Kobayashi, Hiroshi Morimatsu

D91. Regional Anesthesia Considerations for a Multigravid Patient with Pectus Excavatum Undergoing Elective Repeat Cesarean Section

John D. Ngo, Rovnat Babazade

D92. Perioperative Management of Pediatric Rohhad-Net Syndrome for Paraganglioma Removal: A Case Report

Elizabeth O'Brien, Matthew Hoyt, Michael Baker

D93. Anesthetic Management in the Resection of Giant Retroperitoneal Liposarcoma

Ergit Paparisto, Peter Roffey

D94. A Rare Case of Plastic Bronchitis in an Adult Patient: Anesthetic Challenge

Yangseon Park, Max B. Kelz

D95. Rare Complication of "Denver" Peritoneovenous Shunt, Clinically Reminiscent of Anaphylactoid Syndrome of Pregnancy

Rishi Patel, Sergio B. Navarrete, Michael Fowler, Ronsard Daniel

D96. Mast Cell Activation Syndrome in a Patient Undergoing Arthroscopic Repair of an Unstable Left Shoulder

Takashi Sakano, Bahaa Daoud, Jennifer Danielsson

D97. Spontaneous Hemopericardium with Fatal Tamponade Physiology in ESRD Patient on Warfarin
Melina Shoni, Gerardo Rodriguez

D98. Patient Behavior in PACU after Uneventful EDG: This Seems Odd!
Paul A. Sloan

D99. Emergency Anesthetic Considerations of a Patient with Stiff Person Syndrome
Lisa To

D100. Dexmedetomidine Use in a Patient with a History of Acute Intermittent Porphyrria Undergoing Abdominal Resection of a Neuroendocrine Tumor
Bradley Withers, Annette Rebel

D101. A Rare Case of Repeated Interventions for Idiopathic Congenital Mitral Valve Stenosis: A Case Report
Tsubasa Yoshida, Hiroki Omiya, Kenji Uehara, Waso Fujinaka, Makoto Takatori

D102. Hemoconcentration as an Indicator of Intraoperative Superior Mesenteric Vein Stenosis during Pancreaticoduodenectomy
Masha Zeltsman, Madina Gerasimov, Judith Aronsohn, Jeffrey Deygoo

D103. GFAP Expression in the Visual Cortex Is Increased in Juvenile Non-Human Primates That Were Exposed to Anesthesia during Infancy
Viola Neudecker, Jose F. Perez-Zoghbi, Marjorie Grafe, Ansgar Brambrink
Kosaka Best of Meeting Award Top Finalist - Basic Science Research

D104. The INTUIT Study: Investigating Neuroinflammation Underlying Postoperative Neurocognitive Dysfunction and Delirium in Older Adults
Thomas Bunning, Heather E. Whitson, Kent Weinhold, Marty G. Woldorff, Eugene Moretti, Deborah Oyeyemi, Mary Cooter, Cliburn Chan, Roberto Cabeza, Jeffrey N. Browndyke, David Murdoch, Michael Deviney, Leslie Shaw, Harvey J. Cohen, Joseph P. Mathew, Miles Berger
Kosaka Best of Meeting Award Finalist - Scholars

D105. The Left Angular Gyrus and Dorsal Anterior Cingulate Cortex: Key Regions for Pre-Post Operative Functional Resting State Decline?
Cheshire Hardcastle, Hua Huang, Jared J. Tanner, Hari K. Parvataneni, Mingzhou Ding, Catherine Price
Kosaka Best of Meeting Award Finalist - Scholars

D106. Imaging Cortical Activity during General Anesthesia: Insights into Cortical Pain Processing in Mice
Jarret Weinrich, Allan Basbaum, Mollie Bernstein
Kosaka Best of Meeting Award Finalist - Scholars

D107. Dexmedetomidine Prevents Lipopolysaccharide (LPS)-Induced Neuroinflammation and Cognitive Decline through An α 2A Adrenoceptor Mechanism in Mice
Mervyn Maze, Rong N. Li, Kit I Lai
Kosaka Best of Meeting Award Finalist - Basic Science Research

D108. Central Venous Catheter Placement Has No Impact on Venous Air Embolism Severity, Duration or Morbidity in Seated Cervical Laminectomy Patients

Arnoley Abcejo, Jeffrey J. Pasternak, Jamie J. Van Gompel, John Atkinson, William J. Perkins

D109. A Novel Evoked Two EEG Complementary Indices for Identifying Stroke and Evaluating the Potential for Salvageable Brain Tissue in Patients Under Anesthesia

Dana Baron Shahaf, Gregory Hare, Eitan Abergel, Rotem Sivan-Hofman, Goded Shahaf

D110. Considerations for Individuals with Parkinson's Disease: Basal Nucleus of Meynert Resting State Connectivity Associates with Executive Deficits

Sam J. Crowley, Katie Rodriguez, Jared J. Tanner, Mingzhou Ding, Catherine Price

D111. Intraoperative Electroencephalogram Suppression Mediates the Relationship Between a Preoperative "Vulnerable Brain" Phenotype and Postoperative Delirium

Bradley A. Fritz, Christopher R. King, Nan Lin, Arbi Ben Abdallah, Michael Avidan

D112. Low Alpha Power from Electroencephalographic Activity Is Associated with the Development of Acute Confusional State

Rodrigo Gutiérrez, Jose Ignacio Egana, Ivan Saez, Fernando Reyes, Constanza Briceno, Mariana Venegas, Isidora Lavado, Antonello Penna

D113. Mind the Gap: Using the Electroencephalogram (EEG) to Uncover Potential Emergence during Cardiac Surgery

Darren F. Hight, Markus M. Luedi, David Reineke, Balthasar Eberle, Heiko Kaiser

D114. Correlation Between Cognitive Deficits and Amyloid-Load Independent of Sex or Anesthesia in a Mouse Model of Alzheimer's Disease

Christoph Pötzl, Laura C. Preis, Sebastian Schmid, Manfred Blobner, Gerhard Schneider, Bettina Jungwirth

D115. Isoflurane and Xenon Reserve the Effect of A β 1-42 on MEGF10-Dependent Synapse Elimination by Astrocyte

Gerhard Rammes, Dai Shi, Tatjana Neumüller, Francisca Seeser, Kaichuan Zhu, Jochen Herms

D116. Dexmedetomidine Causes Age-Dependent Differences in the EEG Compared to NREM Sleep in B6 Mice

Morgan Siegmann, Daniel Zachs, Jonathan Kenny, Mohsen Hozan, Matthew Wilson, Emery N. Brown, Christa J. Van Dort

D117. Ventilator Mode Does Not Influence Blood Loss or Transfusion Requirements during Major Spine Surgery: A Retrospective Study

Priyanka Singla, Davis G. Taylor, Ching-Jen Chen, Lucas Fernandez, Christopher Wiedle, Mark Hanak, Siny Tsang, Edward C. Nemergut, Marcel Durieux, Randal Blank, Bhiken Naik, Lauren K. Dunn

D118. Evaluation of the Effect of Implementation of Enhanced Recovery after Surgery Program in Spinal Surgical Procedures (MSDRG S454 and S455): A Retrospective Study

Jun Tang, Steve Sun, Zhaoyi Tang, Stephan Yang, Jun Tang, Alexandre Rasouli, Tiffany G. Perry, Sang D. Kim, Julian Gold, Harry Sax, Roya Yumul, Jeff Smith, Bryan Croft, Kristoffer Thordarson, Eric Robertsen, Rachel Fridman

D119. The Lower Limits of Neonatal Cerebral Autoregulation during Congenital Cardiac Surgery

Eric L. Vu, Brendan L. Smith, Craig G. Rusin, R. B. Easley, Dean Andropoulos, Ken M. Brady

D120. Understanding Functional Connectivity Contributions to Digital Cognitive Pre-Operative Screening Tests: The Digital Maze (dMaze)

Margaret Wiggins, Catherine Dion, Cheshire Hardcastle, Hua Huang, Jared J. Tanner, Penney Dana, Randall Davis, Mingzhou Ding, Catherine Price

D121. Contingency Planning to Overcome Critical Shortages of Hyperbaric Bupivacaine for Obstetric Anesthesia Care

*Laurence Ring, Xiwen Zhang, Beatriz Raposo Corradini, Ruth Landau
Kosaka Best of Meeting Award Finalist - Clinical Research*

D122. Acute Pulmonary Edema in a Pregnant Patient with Moyamoya Disease and Undiagnosed Mitral Regurgitation Induced by Emotional Distress

Indranil Chakraborty, Priya Gupta, Andrew Wright

D123. A Prospective Randomized Comparison of Low Dose Ropivacaine Programmed Intermittent Epidural Bolus with Continuous Epidural Infusion for Labour Analgesia

Alexander Ioscovich, Yana Guseva, Oksana Ryazanova, Stanislav Aleksandrovich

D124. Genetic Associations of Perinatal Pain and Depression

Grace Lim, Lora McClain, Lia M. Farrell, Kelsea Lasorda, David Peters

D125. Usage of 'Big-Data' Analysis for Choosing the Optimal Timing of Epidural Analgesia in Primi and Multiparae in a Retrospective Electronic Medical Record (EMR) Based Study

Eshel A. Nir, Michal Lipschuetz, Sarah M Cohen, Joshua Guedalia, Ron Unger, Simcha Yagel

D126. The Epigenetic Mechanism of Chronic Nicotine in Pain Perception in an Animal Model

Keith Candiotti, Yanping Zhang, Alec Sevilla, Robert Weller, Yiliam F. Rodriguez Blanco

D127. Biased Properties Observed with Opioid Reward and Relapse in the Presence of Incisional Injury in Mice

Chinwe Nwaneshiudu, Xiao You Shi, David Clark

D128. Opioid Therapy Algorithm for Chronic Non-Cancer Pain Based on APS, AAPM, CDC, ASA and ASRA Guidelines and Position Statements

*Ethan L. Chambers, Jason Lefkof, Akwasi Amponsah, Konstantinos D Sarantopoulos
Kosaka Best of Meeting Award Top Finalist - Clinical Research*

D129. An Earlier Educational Intervention in Residents Improves Knowledge of Non-Opioid Acute Pain Management in the In-Patient Hospital Setting

Harpreet Dhiman, Jennifer Knuth, Melissa Ehlers, Anthony Ocon, Yi Zhou, Henry Nagle, Ravneet Bhullar

D130. Association Between Preoperative Opioid and Benzodiazepine Use and Postoperative Outcomes in Joint Arthroplasty

Lisa Doan, Kristoffer Padjen, Adam Gover, Jawad Rashid, Bijan Osmani, Shirley Avraham, Samir Kendale

D131. Postoperative Motivational Interviewing Based Opioid Tapering to Promote Opioid Cessation in Adults Undergoing Orthopedic Surgery: A Randomized Clinical Trial

Jennifer Hah, Partha Krishnamurthy, Heather Hilmoe, Ian Carroll, Sean Mackey

D132. Effect of Catechol-O-Methyltransferase (rs4680) Single Nucleotide Polymorphism on Opioid Induced Hyperalgesia in Adults with Chronic Pain

Danqing Hu

D133. Effect of Fentanyl Infusion on Postoperative Pain in Patients after Craniotomy

Yuki Ishii, Yuichiro Toda, Sena Hara, Hideki Nakatsuka

D134. Association and Predictors of Opioid Discontinuation after Surgery Among Chronic Opioid Users in Ontario

Naheed Jivraj, Damon Scales, Tara Gomes, Jennifer Bethell, Andrea D. Hill, Ruxandra Pinto, Duminda N. Wijeyesundera, Hannah M. Wunsch

D135. Social Isolation Stress Prevents Norepinephrine-Mediated Inhibition of TRPV1 Activation in Mouse Sensory Neurons

Loc V. Thang, Ream Al-Hasani, Jordan G. McCall

D136. Sustaining the Gains: A 6 Year Follow through of the Impact of a Hospital Wide Patient Safety Strategy on Global and Anesthetic Patient Safety Outcomes

Ming Ann Sim, Lian Kah Ti, Sandhya Mujumdar, Sophia Chew, Mohan Kumar Bhuvaneshwari, Sophia Ang Kosaka Best of Meeting Award Top Finalist - Clinical Research

D137. Patient-Reported In-Hospital Complications and Self-Reported Cognitive Function 1-Year after Surgery

Thomas G. Kannampallil, Amrita Aranake-Chrisinger, Noor Al-Hammadi, Michael Avidan Kosaka Best of Meeting Award Finalist - Clinical Research

D138. A Microbiological Assay of Common Operating Room Tapes: Developing a Culture for Patient Safety

Gaurav Chauhan, Aman Upadhyay, Samvid Dwivedi, Robert J. Tibbetts

D139. Improving Adherence to Intraoperative Administration of Surgical Antimicrobial Prophylaxis: A Single Center Experience

Victoria Haney, Stephan Maman, Jansie Prozesky, Kunal Karamchandani

D140. Comparing the Incidence of Low Minute Ventilation, Low Tidal Volume and Low Respiratory Rate on the General Hospital Floor

Alparslan Turan, Hani Essber, Barak Cohen, David Chelnick, Jasmin Imsirovic, Wael Saasouh

D141. The Use of the Federal Aviation Administration's Crew Resource Management Techniques to Identify Hazardous Attitudes in Crew Resource Management Among Anesthesiology and Surgery Residents

Christina R. Miller, Adam Schiavi, Robert S. Greenberg

D142. Risk Factors for Acute Kidney Injury after Primary Total Correction of Coarctation of the Aorta (COA) and Transposition of the Great Arteries (TGA) in Infants: A Retrospective Cohort Study
Sooyoung Kim, Minjeong Jang, Jihion Yu, In-Kyung Song, Jae Moon Choi, Won-Jung Shin, Mijeung Gwak
Kosaka Best of Meeting Award Finalist - Scholars

D143. To Tube or Not to Tube: Laryngeal Mask Airway vs Endotracheal Tube for Airway Management During General Anesthesia in Severely Obese Children
Sung Choi, Olubukola O Nafiu

D144. Safety of Prophylactic Antifibrinolytics in Children Undergoing Spinal Fusion
Lisa Eisler, Minjae Kim, Lena Sun, David Faraoni

D145. Are Pediatric Patients with Phace Syndrome at High Risk for Anesthetic Complications?
Brett Escarza, Susana Cruz Beltran, Humphrey Lam, Thomas M. Austin

D146. Identifying Unnecessary Blood Transfusions in Patients Undergoing Craniofacial Surgery using National Craniosynostosis Registry Dataset
Allison M. Fernandez, Lillian Zamora, Ali Jalali, Luis Ahumada, Jim Fackler, Mohamed Rehman

D147. Preventing Spinal Cord Injury & Infarction in Patients with Mucopolysaccharidosis during Non-Spine Surgery
Jonathan Halem, Mary C. Theroux, William G. Mackenzie, Phoebe Fisher, Anthony Dinardo

D148. A Neonatal Cardiac Arrest: What Could Be Happening?
Adnan R. Khan, Ana Crnkovic, Melissa Ehlers

D149. Adenotonsillectomies in Pediatric Patients with Severe Obstructive Sleep Apnea
Makoto Nagoshi, Connie Mun-Price, Kathleen Than, Branden Engorn, Patrick Ross

D150. Unanticipated Admissions during the Perioperative Period: Summary of Data from the Wake Up Safe
Thanh Nguyen, Amanda Lorinc, Humphrey Lam, Thomas M. Austin

D151. Intranasal Insulin Prevents Anesthesia-Induced Cognitive Impairment in Juvenile Mice
Patricia Roque, Tamaki Sato, Yosuke Nakadate, Hiroaki Sato, Shelly Yin, Mehdi Hooshmandi, Linda Wykes, Arkady Khoutorsky

D152. Temporal Changes in the Frequency of Intraoperative Hypotension in Children
Jonathan A. Sohn, Bishr Haydar, Aleda Thompson, Shobha Malviya, Olubukola O Nafiu

D153. Prevention of 'Emergence Agitation' with Propofol or Fentanyl in Children Undergoing Below Umbilical Surgeries Under Sevoflurane Anaesthesia
Sangeet Tanwar, Sunil K Sinha

D154. The Electroencephalographic Signature of Spinal Anesthesia in Infants: A Multi-Center Pilot Study
Emmett Whitaker, Jerry Y. Chao, Elissa Yozawitz, Alan Legatt, Gregory L. Holmes, Robert Williams

D155. Functional Near-Infrared Spectroscopy (fNIRS) during Newborn Circumcisions: A Pilot Study
Ian Yuan, Arjunan Ganesh, Olivia Nelson, Kurtulus Izzetoglu, Bingqing Zhang, Janell Mensinger, William Landis

D156. Intravenous Cannula Placement in Children in the Operating Room for Induction of General Anesthesia: Prospective Audit and Identification of Success Factors
Matthias Gorges, Celine Hügel, Andrew Poznikoff, James C. Chen, Eleanor J. Reimer

D157. Preoperative Gabapentinoids Increase Risk of Postoperative Opioid-Related Respiratory Depression in Adult Patients Undergoing Total Hip and Knee Arthroplasties
Sean Moore, Tetsu Ohnuma, Karthik Raghunathan, John Whittle, Raquel R. Bartz, Srinivas Pyati, Alan Ellis, William E. Bryan, Marc Pepin, Vijay Krishnamoorthy
Kosaka Best of Meeting Award Finalist - Scholars

D158. Epidemiology of Surgical Site Infection in Spinal Fusion Surgery and Patterns of Discordance with Surgical Antibiotic Prophylaxis: A Retrospective Case-Level Analysis
Dustin R. Long, Jeannie Chan, Chloe Bryson-Cahn, John Lynch
Kosaka Best of Meeting Award Finalist - Clinical Research

D159. Effects of Acetaminophen, Nsaids, Gabapentinoids and Their Combinations on the Day of Surgery in Total Hip and Knee Arthroplasties
Tetsu Ohnuma, Karthik Raghunathan, Alan Ellis, John Whittle, Srinivas Pyati, William E Bryan, Marc Pepin, Raquel R. Bartz, Vijay Krishnamoorthy
Kosaka Best of Meeting Award Finalist - Clinical Research

D160. The Impact of Nutraceutical Pre-Habilitation and Postoperative Treatment with Eicosapentanoic Acid (EPA) and Acetylsalicylic Acid on a Novel Animal Model of Recovery after Surgery
Juan Cata, Miguel Patino Montoya, Michael Lacagnina, Ruben Agudelo-Jimenez, Imad Shureiqi, Carin Hagberg, Peter Grace
Kosaka Best of Meeting Award Finalist - Basic Science Research

D161. Deep Immune Profile of Preoperative Glucocorticoid Administration in Patients Undergoing Surgery
Brice Gaudilliere, Edward A. Ganio, Natalie Stanley, Jakob Einhaus, Amy S. Tsai, Anthony Culos, Kristen Rumer, Ramin Fallahzadeh, Viktoria Lindberg-Larsen, Henrik Kehlet, Martin S. Angst, Nima Aghaeepour
Kosaka Best of Meeting Award Finalist - Basic Science Research

D162. Identification of Optimal Anesthetic Depth with Sevoflurane using Different Stimuli for a Movement Free Intravenous Cannulation in Children
Hassan H Al-Salmi, Nikhil Gosalia, Rashid M. Khan, Naresh K. Kaul

D163. Understanding Provider Variability in the Use of Neuromuscular Blocking Agents
Friederike C. Althoff, Denys Shaydenfish, Maria Silva Dias Santos Patrocinio, Xinling Xu, Timothy Houle, Matthias Eikermann

D164. Incidence of Persistent Opioid Use in Children after Surgery
Thomas A. Anderson, Andrew T. Ward, Beth De Souza, Ellen Wang, Daniel Miller, Nicholas Bambos

D165. Intraoperative Awareness with Explicit Recall: A Patient Centered Survey-Based Cohort Study
Anna Maria Bombardieri, Troy Wildes, Shagun Mathur, Andrea Soares, Anshuman Sharma, Michael Avidan

D166. Systematic Review of Cognitive Screening Tests to Predict Postoperative Delirium
Maria Garstka, Enoch Lam, Farrah A. Ayob, George Ho, Frances F. Chung, Jean Wong

D167. Quality of Recovery in Patients with Pancreatic or Common Bile Duct Cancer Receiving Curative Surgery: Comparison with TIVA and Inhalation Anesthesia using QOR-40 Questionnaire
Young Eun Joe, Chang Moo Kang, Jeong Rim Lee

D168. Intraoperative Analgesia Patterns at an Academic Tertiary Medical Center during the 2018 Parenteral Opioid Shortage
Richard K. Kim, Cliff Schmiesing

D169. Serum Fructosamine Versus Hemoglobin A1C for Glycemic Control in Diabetic Patients Undergoing Surgery
Ana C. Mavarez-Martinez, Nicoleta Stoicea, Alicia Gonzalez-Zacarias, January K. Kim, Barbara Rogers

D170. Laparoscopic Specimen Bags Study
Asha Mohammed, Matthew Molyneux

D171. A Perioperative Education Intervention Designed to Reduce Cost and Turnover to Surgeon Time
William P. Murphy, Amanda J. Williams, Prem Darji, William L. Johns, Jan Pasnak

D172. Reducing Costs by Eliminating Unnecessary Preoperative Urine Cultures
Sher-Lu Pai, Joan Irizarry-Alvarado, Daniela A. Haehn, Wendelyn Bosch, Walter C. Hellinger

D173. A Pilot Feasibility Trial of Physical and Cognitive Prehabilitation to Improve Outcomes in Surgical Patients
Kimberly Rengel, Nitin Mehdiratta, Susan Vanston, Kristin Swygert, Jim Jackson, Pratik Pandharipande, Christopher G. Hughes

D174. Post-Operative Oral Oxycodone and Hydromorphone: A Comparison of Opioid Consumption and Side Effects
Emily Spence, Richard Brull, Faraj Abdallah

D175. Comparison of Sugammadex and Neostigmine for Reversal of Rocuronium Neuromuscular Blockade on the Incidence of Postoperative Pulmonary Complications: A Randomized Controlled Trial
Brandon M. Togioka, N. David Yanez, Michael Aziz, Janna R. Higgins, Miriam Treggiari

D176. Perioperative Multimodal Analgesic Regimens Decrease Hospital Length of Stay and Expedite Recovery Following Spinal Fusion Surgery
Andrew Vargas, Lee-Lynn Chen, Solmaz P. Manuel, Jeremy Lieberman

D177. Association Between Postoperative Myocardial Injury Phenotypes and Disability-Free-Survival in Patients Undergoing Non-Cardiac Surgery

Lisette Vernooij, Judith Van Waes, Michael Mckenny, Matthew Machina, Simon Feng, Duminda N Wijeyesundera, Hendrik Nathoe, Linda Peelen, Wilton Van Klei, W. Scott Beattie

D178. Gabapentinoids on the Day of Colorectal Surgery Are Associated with Adverse Postoperative Respiratory Outcomes

Rosalie Yan, Tetsu Ohnuma, Vijay Krishnamoorthy, Alan Ellis, Neil Ray, John Hsia, Srinivas Pyati, Mihaela Stefan, William E. Bryan, Marc Pepin, Peter Lindenauer, Raquel R. Bartz, Karthik Raghunathan

D179. The Transversus Thoracic Plane (TTP) Block: A Pooled Review of 748 Cases

Kevin W. Chung, Ying Ye, Garrett W Burnett, Christina L. Jeng

D180. Continuous Iliohypogastric Nerve Catheter Infusions for Postoperative Analgesia Following Bladder Augmentation in a Child with Goldenhar Syndrome

Chris Denny, Sarah Hall

D181. Comparison of the Image Quality of 8 Different Ultrasound Machines for Axillary and Interscalene Nerve Blocks

Francis Remerand, Quentin Belot, Brice Fermier, Marc Laffon

D182. Title Pending

Suresh K. Singhal, Subhadarsini Choudhury, Kiran Preet

D183. Deliberate Intraneural Injection: Where Does It Spread and How

Cameron Smith, Olga Nin, Richa Wardhan, Xavier Sala-Blanch, Miguel A Reina, Andre P. Boezaart

D184. Discovery of a Antero-Laminar Fibrous Body That May Possibly Anchor Dura to the Lamina

Cameron Smith, Andre P. Boezaart, Alberto Prats-Galino, Barys Ihnatsenka, Olga Nin, Anna Server, Miguel A. Reina

D185. The Use of Pterygopalatine Ganglion Block for Positional Headache and Nausea Secondary to Iatrogenic CSF Leak

Cameron Smith, Erik M. Helander, Andre P. Boezaart

D186. Risk of Major Cardiovascular Complications after Elective Surgery in Patients with Sleep Disordered Breathing

Rabail Chaudhry, Colin Suen, Talha Mubashir, Jean Wong, Clodagh Ryan, Frances F. Chung

D187. Sleep Disordered Breathing as an Independent Risk Factor for Post-Operative Delirium in Elective Surgical Procedures

Rabail Chaudhry, Enoch Lam, Greesha Padnekar, Talha Mubashir, Frances F. Chung, Jean Wong

D188. The SANDMAN Study: Sleep Apnea, Neuroinflammation, and Cognitive Dysfunction Manifesting after Non-Cardiac Surgery

Michael Devinney, Andrew R. Spector, Jeffrey N. Browndyke, Patrick J. Smith, Jennifer Dominguez, Thomas Bunning, Mary Cooter, Joseph P. Mathew, Miles Berger

D189. Obstructive Sleep Apnea Does Not Predispose to Postoperative Delirium: A Retrospective EHR Based Analysis

Christopher R. King, Bradley A. Fritz, Krisztina Escallier, Michael Avidan

D190. Prevalence of Sleep Disordered Breathing in Chronic Non-Cancer Pain Patients on Opioid Therapy: A Systematic Review and Network Meta-Analysis

Mahesh Nagappa, Jean Wong, Frances F. Chung, Talha Mubashir, Nilufar Esfahanian, Joseph M. Botros, Clodagh Ryan

D191. Response to Inhaled Anesthetics Measured by the Triple Variable Index Reveals Population-Specific Patterns of Intraoperative Hypotension Exposure

Michael P. Schnetz, Pritika Dasgupta, Douglas Landsittel, Harry Hochheiser, Keith M. Vogt, James W. Ibinson, Steven Whitehurst, Aman Mahajan, David Danks, Ata M. Kaynar
Kosaka Best of Meeting Award Top Finalist - Scholars

D192. The Effect of Low Dose Intra-Operative Ketamine on Closed-Loop Controlled General Anesthesia: A Randomized Controlled Equivalence Trial

Matthias Gorges, Klaske Van Heusden, Erin Cooke, Gabrielle Napoleone, Nicholas West, Guy A. Dumont, J. Mark Ansermino, Richard N. Merchant
Kosaka Best of Meeting Award Finalist - Clinical Research

D193. Poiseuille's Law Demonstration to Compare Flow Rates with Commonly Used Vascular Catheters and IV Tubing Accessories

Christina R. Miller, David Berman, Steven M. Frank, Adam Schiavi, Shirley Duarte
Kosaka Best of Meeting Award Finalist - Clinical Research

D194. Implementation of a Distributed Research Network Virtual Data Warehouse for a Multi-Center Observational Study

Seshadri Mudumbai, Fan Wu, Justin Chambers, Aditi Kapoor, Jennifer S. Lee, David Clark, Edward R. Mariano, Randall S. Stafford
Kosaka Best of Meeting Award Finalist - Clinical Research

D195. A Novel Learning Management System to Revolutionize Generation, Administration, and Assessment of Simulation-Based Medical Education

Scott M. Pappada, Mohammad H. Owais, Cristina Alvarado, Jeffrey Schneiderman, Douglas Brunner, Andrew Casabianca, James Hofmann, Thomas J. Papadimos
Kosaka Best of Meeting Award Finalist - Basic Science Research

D196. Cardiac Index Measurement by Pulmonary Artery Catheter, Arterial Waveform Analysis and Impedance Cardiography during Liver Transplantation

Mingi Ban, Bon-Nyeo Koo

D197. An Intraoperative Clinical Decision Support Tool Optimizes Post-Operative Glucose Levels in Diabetic Patients

Chelsie J. Dietz, Robert E. Freundlich, Gen Li, Jonathan Wanderer

D198. Different Responses of Healthy Humans Subjected to Lower Body Negative Pressure Induced Hypovolemia using Continuous Noninvasive Arterial Pressure Cycle Duration and Heart Rate

Anna-Maria E. Eid, Aymen Alian, Kirk Shelley, Mohamed Elgamal, Mohamed Eid

D199. The Analysis of Pediatric EEG using Poincaré Plot after a Fast Fourier Transformation Under Sevoflurane Anesthesia

Kazuma Hayase, Teiji Sawa

D200. Hemodynamic Compensation during Selective Fetoscopic Laser Photocoagulation using the Compensatory Reserve Index

David Leopold, Ryan Phillips, Cristina Wood, Nicholas Behrendt, Michael Zaretsky, Henry Galan, Steven Moulton

D201. Accuracy of Spectrophotometric Hemoglobin Monitoring with Digital Nerve Block

Babak Mostafazadeh Davani, Reza Shariat Moharari, Pejman Pourfakhr, Farhad Etezadi, Mohammad Reza Khajavi, Atabak Najafi

D202. Predicting ASA Scores using Machine Learning

John F. Pearson, Priya Ramaswamy, Dana Raub, Peter Santer, Matthias Eikermann

D203. Prediction of Intraoperative Hypotension: Logistic Regression vs Deep Learning Methods

Soo Bin Yoon, Hyung-Been Yhim, Hyung-Chul Lee, Min Hur, Chul-Woo Jung

D204. Regulation of Microtubule Dynamics in the HKSA-Induced Endothelial Barrier Dysfunction

Boyoung Cha, Junghyun Kim, Chenou Zhang, Konstantin Birukov, Anna Birukova

D205. Airway Management by Anesthesiologists at Level-1 Trauma Center in the Era of Video Laryngoscopy

Roman Dudaryk, Jack Louro, Richard Dutton, Yvette Rodriguez, Richard H. Epstein

D206. Efficacy of Tranexamic Acid Infusion in Experimental Trauma/Hemorrhagic Shock Is Dependent on Blood

Erik B. Kistler, Fernando Dos Santos, Joyce B. Li, Federico Aletti

D207. Etomidate Is Less Frequently Used for Rapid Sequence Intubation in Pediatric Trauma Patients

Jack Louro, Paul Elias, Neil H. Masters, Roman Dudaryk

D208. A Retrospective Review of Electrolyte Repletion during Massive Transfusion Protocol at a Level One Trauma Center

Christopher Potestio, Akhil Patel, Xiaolu Xu, Nadder Azzam, Talia K Ben-Jacob

D209. Decreased Thrombin Inhibition with Hypothermia As Measured by Calibrated Automated Thrombography (CAT)

Roman Sniecinski, Fania Szlam, Alexander Y. Mitrophanov, Jaques Reifman

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Jin Chen, Risa Wolk

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Johannes Menger, Dieter Adelman, Stefan Koch, Peter Jaksch, Martin Dworschak

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Rebecca Martinez, Avanish S. Reddy, Meneka Dave, Taylor Johnston

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Takashi Matsusaki, Kazumasa Hiroi, Ryuji Kaku, Hiroshi Morimatsu

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Kent Vu, Aaron Lim

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Adeeti Aggarwal, Connor Brennen, Brenna P. Shortal, Diego Contreras, Max B. Kelz, Alexander Proekt

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Mehraj Awal, Greg Wirak, Christopher V. Gabel, Christopher W. Connor

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Broc Burke, Adam T. Eggebrecht, Karla M. Bergonzi, Arefeh Sherafati, Tracy M. Burns-Yocum, Silvina L. Ferradal, Gyanendra Kumar, Raj Dhar, Andrew K. Fishell, Jin-Moo Lee, Joseph P. Culver

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Gregory A. Chinn, Jennifer M. Sasaki Russell, Jeffrey Sall

E108. Metabolipidomic Analysis of Cerebrospinal Fluid Reveals Increased Arachidonic Acid-Derived Lipids and Specialized Pro-Resolving Mediators 24 Hrs and 6-Weeks Following Surgery and Anesthesia

Michael Devinney, Krishna Rao Maddipati, Cliburn Chan, Joseph P. Mathew, Mary Cooter, Niccolo Terrando, Miles Berger

E109. Understanding Functional Connectivity Contributions to Digital Cognitive Pre-Operative Screening Tests: Digital Clock Drawing Test (DCDT) Graphomotor Features

Catherine Dion, Margaret Wiggins, Cheshire Hardcastle, Hua Huang, Shawna Amini, Penney Dana, Randall Davis, Mingzhou Ding, Jared J. Tanner, Catherine Price

E110. Synaptic Ultrastructure in Adolescent Rhesus Monkeys Exposed to Sevoflurane in Infancy

Tristan Fehr, William G. Janssen, Mark G. Baxter

E111. Accuracy and Safety of BIS Monitoring using a Novel Interface Device Connecting Conventional Needle Electrodes and Bis Sensors for Forehead Surgical Approach

Hideki Harada, Miyuki Tauchi

E112. Validation of an Angiographic Global Cerebral Vasospasm Score in Aneurysmal Subarachnoid Hemorrhage: A Feasibility Study

Kevin W. Hatton, Abhisek Patel, Stephen Grupke, Abdulnasser Alhajeri, Leon Su, Arnold Stromberg, Justin Fraser

E113. Duration of Isoflurane-Induced Electroencephalographic Suppression Does Not Predict Cognitive Deficit Following Emergence

Leonard B. Hickman, Brenna P. Shortal, Rachel A. Mak-Mccully, Wei Wang, Nan Lin, Max B. Kelz, Mathias Basner, George A. Mashour, Michael Avidan, Alexander Proekt, Ben Palanca

E114. Effectiveness of Cell Extract from Mouse Adipose-Derived Stem Cells and Dedifferentiated Fat Cells for Peripheral Nerve Regeneration

Naotaka Kishimoto, Manabu Yamazaki, Jun-Ichi Tanuma, Simon Tran, Kenji Seo

E115. 5-HT Modulation of Cortical Oscillations Are Similar in Freely Moving Rats and in Rat Brain Slices

Bruce Maciver, Brian H Bland

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Ana C. Mavarez-Martinez, Nicholas Turner, Joshua-Paolo Reyes, Alan G. Esparza Gutierrez, Cory Roeth, Alix Zuleta-Alarcon, Sergio Bergese, Michelle Humeidan

E117. Optimizing the Visual Detection of EEG Alpha Oscillations in the Perioperative Setting

David P. Obert, Sebastian Berger, Paul S. Garcia, Jamie Sleigh, Gerhard Schneider, Matthias Kreuzer

E118. Anesthetic Hysteresis Collapses on a Timescale Unrelated to Pharmacokinetics

Andrzej Wasilczuk, Andrew Mckinstry-Wu, Benjamin Harrison, Bo Ku, Juliette Palermo, Paula Kwasniewska, Max B. Kelz, Alexander Proekt

E119. Inadequate Spinal Anesthetic in Parturient with Marfan's Syndrome Undergoing Caesarean Section

Gregory S. Blaufuss, Jay Sanford

E120. Intraabdominal Pressure in Non-Labouring Parturients Scheduled for Elective Lower Segment Caesarean Section Under Spinal Anaesthesia

Devansh Garg, Asha Tyagi, Mahendra Kumar

E121. Evaluation of Ultrasound-Guided Vena Cava Diameter Measurement to Predict Hemodynamic Changes after Labor Epidural Analgesia

Efrain Riveros Perez, Justin Dumrongkulraksa, Maria G. Sanchez, Alexander Rocuts

E122. Management of Obstetric Anesthesia in a Parturient with Dysautonomia

Takashi Sakano, Alon Shertzer, Suzanne Mankowitz

E123. ARDS in Monoamniotic, Monochorionic Pregnancy

Eric F. Worrall, Kathryn Breslin

E124. Lumbosacral Radiculopathy: Inciting Events and Their Association with Epidural Steroid Injection Outcomes

Alyson Engle, Yian Chen, Bryan Marascalchi, Indy Wilkinson, Cathy He, Winfred B. Abrams, Peju Adekoya, Zared O. Cohen, Ada Lyn Yao, Steven P. Cohen

E125. Development of a Pharmacodynamic Assessment Tool for Cannabis Analgesia

Kevin G. Jackson, Luka Vujaskovic, Brent Yeung, Emily Blum, Julia Finkel

E126. Carpel Tunnel Release Surgery: A Systematic Review of Open and Endoscopic Approaches

Jacquelin Peck, Sebastian Orman, Vwaire Orhurhu

E127. Effects of the ABCB1 c.3435C>T (rs1045642) Polymorphism on Heat Pain Perception in Adults with Chronic Pain

Emily M. Pollard, Michael Hooten

E128. Improving Chronic Pain Outcomes and Access to Cognitive Behavioral Therapy (CBT) in Children with Sickle Cell Disease

Benjamin Portal, Veronica Carullo

E129. Which Patients for Yoga? Investigating Differential Effects of a Six-Week Daily Yoga Intervention on Pain, Catastrophizing, and Sleep Among Women with Fibromyalgia

Kristin L. Schreiber, Asmina Lazaridou, Alexandra Koulouris, Robert R. Edwards

E130. Desire for Painless Surgery and Underestimation of Prescription Opioid Related Risks Prevalent in Perioperative Patients

Soleil Schutte, Linda Le-Wendling

E131. Perceived Barriers to Implementation of Current Guidelines on Long-Term Opioid Therapy: Results of an Opioid Post-Course Survey

Paul A. Sloan

E132. Human V. Machine: A Comparison of Satisfaction with Two Different Foreign Language Interventions at Emergence for Subjects Who Do Not Speak English as a First Language

Christopher Awounou, Yaman Kherallah, Nicholas Lyon, Shreya Dhar, David Glick

E133. Validation of Point-of-Care Hemoglobin Testing in Anemic Adult Patients

Alan Chan, Ryan Lett

E134. Post Operative Respiratory Failure Following Intracranial and Spine Surgeries

Jagan Devarajan, Eric Chanowski, Bryan Lee, Steven Shook, Dhimant Dani, Ajit Krishnaney, Piyush Mathur

E135. A Deep Learning Model for Predicting 30-Day Postoperative Mortality

Bradley A. Fritz, Zhicheng Cui, Muhan Zhang, Yujie He, Yixin Chen, Alexander Kronzer, Arbi Ben Abdallah, Christopher R. King, Michael Avidan

E136. Intraoperative Factors That Improve Risk Prediction of Postoperative Acute Kidney Injury in General Surgery Patients

Minjae Kim, Ravi Kiran, Guohua Li

E137. Assessing Methods of Medication Error Monitoring for Quality Improvement

Albert Y. Lin, Manon Haché, Gracie Almeida-Chen, Lena Sun

E138. Preoperative Anesthesiologist-Led Clinic and Multi-Disciplinary Team Clinic

Kazumi Ono, Hidekuni Hidaka, Masuya Sato

E139. Endotracheal Tube Cuff Pressures: How Much Is Too Much?

Bansi Patel, Connor Funsch, Paul Potnuru, Angela Chang, Roman Dudaryk

E140. Evaluation of Perioperative Safety Behaviors at a Multidisciplinary Level

Emma Schremp, Daniel J. France, Peter Grubb, Marty Blakely, Amanda Lorinc, Christoph U. Lehmann, Timothy Vogus

E141. Enhanced Monitoring of Hypoxemia and Hypoventilation Reduces Postoperative Cardio-Pulmonary Complications in Patients Undergoing Bariatric Surgery: A Retrospective Observational Cohort Study

Mandeep Singh, Frances F. Chung, Jean Wong, Najia Hassan, George Tomlinson, Julie Hudson, Laura Hawryluck

E142. Educational Interventions to Prevent Perioperative Syringe Swaps of High-Alert Medications

Jamie Sparling, Douglas Choe, Allison Doney, Jeremi Mountjoy, Aalok V. Agarwala, Kathy Kong, Leo Tabayoyong, May C. Pian-Smith

E143. Solutions for Management of Angiotensin Converting Enzyme Inhibitor-Induced Angioedema in a High Risk Population: A Single Center Retrospective Observational Study

Tracey Straker, Alexandra Bastien, Dahlia Townsed, Singh Nair

E144. Solutions for Management of Angiotensin Converting Enzyme Inhibitor-Induced Angioedema in a High Risk Population: A Single Center Retrospective Observational Study

Tracey Straker, Alexandra Bastien, Dahlia Townsed, Singh Nair

E145. Incidence of Patient Safety Events Associated with Prolonged Extubation

Andrea Vannucci, Kevin Prifti, Isabella Rossi, Anne Sebastiani, Daniel Helsten, Dorina Kallogjeri, Laura F. Cavallone

E146. Distraction as a Means of Providing Procedural Anxiolysis for a Three Year Old with Severe Biventricular Cardiomyopathy

Adam C. Adler

E147. Association Between Hypothermia and PACU Length of Stay in Pediatric Patients Undergoing MRI with General Anesthesia

Thomas M. Austin, Michael Fiedorek, Chris Fiedorek, Ashley Lefevre, Humphrey Lam, Thomas M. Austin

E148. Pediatric Rhabdomyolysis: An Analysis of Demographics, Risk Factors, and Outcomes

James Damiano, Lena Sun, Teeda Pinyavat

E149. Prediction of Blood Product Transfusion in Patients Undergoing Craniofacial Surgery using Machine Learning Based on the Pediatric Craniofacial Collaborative Group Registry Dataset

Allison M. Fernandez, Lillian Zamora, Ali Jalali, Luis Ahumada, Paul A. Stricker, Jim Fackler, Mohamed Rehman

E150. PCEA vs IV PCA: A Randomized Controlled Trial Assessing Pain Control Following Minimally Invasive Repair of Pectus Excavatum

Chris D. Glover, Michael Zelisko, Nihar V. Patel, Mark Mazziotti, Darrell Cass, Kim P. Nguyen

E151. Endotracheal Tube Cuff Inflation using Closure of the Flow Volume Loop. Test of This Novel Method in a Model of the Pediatric Airway

Thomas Hackmann, Sammy Jreige

E152. A Survey on Discharge Practices for Former Term and Preterm Infants at Risk for Post-Operative Apnea Following General Anesthesia

Matthew F. Hirschfeld, Lynn Correll, John Schroeder, Anna Rabinowitz, Ashwani Chhibber

E153. Unclear Etiology of Profound Respiratory Failure Requiring ECMO after Pa Reconstruction and Repair of Tetralogy of Fallot with Pulmonary Atresia, and Major Aortopulmonary Collateral Arteries

Richard Jin, Anthony Clapcich

E154. A Novel Anaesthetic Technique for Laparoscopic Inguinal Hernia Repair in Infants and Neonates

Prakash Krishnan, Simon D. Whyte, Robert Baird, Stephan Malherbe

E155. Perioperative Temperature Regulation in Pediatric Surgical Patients: Too Warm for Comfort

Shu Ying Y. Lee, Rehena Sultana, Yew N. Siow, Choon L. Bong

E156. Spinal Anesthesia in Neonates Presenting for Infraumbilical Surgeries Can Improve Operating Room Utilization in Addition to Reducing Risk for Postoperative Apnea and Hemodynamic Fluctuations

Chang Amber Liu

E157. Intranasal Midazolam with Xylocaine for Pediatric Pre Op Sedation in Ambulatory Myringotomy and Tube Placement Surgery: A Randomized Controlled Trial

David A. Ullman, Melissa B. Scribani, Jennifer M. Victory

E158. Complications and Consequences of Anesthetic Technique for Endobronchial Ultrasound Guided Transbronchial Needle Aspiration (EBUS-TBNA): Implications from a Retrospective Study

Megan Anders, Emily A. Bergbower, Miranda Gibbons, Ashutosh Sachdeva, Peter Rock

E159. Continued Analysis of the Optimal Surgical Utilization with Minimal Cancellations and Complications (OSUWMC2) Quality Initiative in Microvascular Breast Reconstruction Patients

Jaume Borrell Vega, Cory Roeth, Christina M. Pennington, Juan L. Rendon, Emma L. Alden, Erik E. Abel, Roman J. Skoracki, Ronald L. Harter, Susan Moffatt-Bruce, Mahmoud Abdel-Rasoul, Diana Wang, Michelle Humeidan

E160. Focused Transthoracic Echocardiography and Peri-Operative Cardiac Arrest: Feasibility Study

Nibras Bughrara, Susan L. Herrick, Krishnaveni Sirigaddi, Kevin Roberts, Aliaksei Pustavoitau

E161. The Association of Primary Anesthesia Type with Postoperative Outcomes Following Neurointerventional Treatment of Acute Ischemic Stroke: A Retrospective Cohort Analysis

Bryan Cozart, Rodney A. Gabriel

E162. An 'Enhanced Recovery after Surgery' Bundle for Head and Neck Free Flap Reconstructive Surgery Improves Post-Operative Pain and Reduces Length-of-Stay

Shane C. Dickerson, Mark Swanson, Kevin Blaine, Yaroslava Longhitano, Christian Zanza, Michael P. Kim

E163. Real World Utilization Patterns of Perioperative Neuromuscular Blockade Reversal in the United States: A Retrospective Observational Study from the Multicenter Perioperative Outcomes Group
Timur Dubovoy, Sachin Kheterpal, Nirav Shah, Leif Saager, Shelley Housey

E164. Sevoflurane Attenuates Natural Killer Cell Activity and Decreases Apoptosis of Target Tumor Cells
Valerie C. Fehr, Suellen Oliveira, Martin Schlapfer, Richard Minshall, Beatrice Beck-Schimmer

E165. The Impact of Cannabis Use Disorder on Perioperative Outcomes in Major Elective Surgeries: Results from a Nationally Representative Sample
Akash Goel, Brandon Mcguinness, Naheed Jivraj, Duminda N. Wijeyesundera, Hance Clarke, Brian Bateman, Karim Ladha

E166. Incidence of Preoperative Cardiac Stress Test Rates Decreased in Patients Undergoing Elective Total Hip and Knee Arthroplasty from 2008 - 2015
Robert Hughey, Daniel S. Rubin

E167. Persistent Increase in Neurodegeneration Markers and Immunoaberration after Elective Heart Surgery
Krzysztof Laudanski, Matthew Dimeglio, Ramon Diaz-Ariasta, Saumil Patel

E168. Quantifying the Impact of Physician Supervision on Nurse Anesthetists' Risk-Adjusted Antiemetic Prophylaxis
Stephan Maman, Michael H. Andreae

E169. An EMR-Derived Individual Anesthesia Provider Metric to Measure Risk-Adjusted Adherence with Perioperative Prophylactic Bundles for Health Systems Science and Disparity Research
Stephan Maman, Michael H. Andreae

E170. Identifying Risk Factors for Failure to Rescue in People with Myocardial Infarction after Non-Cardiac Surgery: A Cohort Study
Sasha Mazzarello, Daniel I. Mclsaac, W. Scott Beattie, Dean A. Fergusson, Manoj M. Lalu

E171. Association of Colloid Choice and Bleeding Following Musculoskeletal Surgery: A Retrospective Cohort Study and Natural Experiment
Duncan J. Mclean, Vijay Krishnamoorthy, Alan Ellis, Mihaela Stefan, Brian Nathanson, Julien Cobert, Peter Lindenauer, M. A. Brookhart, Karthik Raghunathan

E172. Thoracic Epidural vs Intercostal Nerve Blocks with Liposomal Bupivacaine for Post-Operative Pain Control in Patients Undergoing Video-Assisted Thoracoscopic Surgery
Linzi Moss, Ying Hui Low

E173. Using Pharmacy Data Surrogates to Track Efficacy of a Corneal Protection Protocol
William P. Murphy, Michal Vascak, John C. Stansfield, Adam P. Sima

E174. Association Between Perioperative Crystalloid Fluid Volume and Outcome in Enhanced Recovery after Surgery (ERAS) Protocol: Risk-Adjusted Analysis Data from An Administrative Database
Mohammad Rasouli, Alan Ellis, Vijay Krishnamoorthy, Karthik Raghunathan

E175. Association of Preoperative Spirometry with Cardiopulmonary Fitness and Postoperative Outcomes in Surgical Patients

Ashwin Sankar, Kevin E. Thorpe, Andrea S. Gershon, John Granton, Duminda N. Wijeyesundera

E176. Daily Prediction of Delirium in Hospitalized Patients using Boosted Trees

Kendrick M. Shaw, Eyal Y. Kimchi, Oluwaseun Akeju, Michael B. Westover

E177. The Pattern of Perioperative High-Density Lipoprotein Particle Loss Is Independently Associated with Acute Kidney Injury after Cardiac Surgery

Loren Smith, Derek K. Smith, Alan T. Remaley, Macrae F. Linton, Frederic T. Billings

E178. Impact of Intraoperative Use of Sequential Peristaltic Pneumatic Compression Device on Fluid Requirement during General Anesthesia

Mukesh Tripathi, Masaipeta Kesari, Ankit Agarwal, Shivendra D. Dwivedi

E179. Serratus Anterior Plane Block for Pediatric Thoracoscopy

Katsiaryna Bellaousov, Donna Bracken, Suparna Dang, Danielle Lindenmuth, Audra Webber

E180. Ultrasound Guided Supraclavicular vs Retroclavicular Block of the Brachial Plexus: Comparison of Impact on Ipsilateral Diaphragmatic Function

Paige L. Georgiadis, Kamen Vlassakov, Philipp Lirk, Jose Zeballos, Kristin Schreiber

E181. What Is the Value of a 2nd and 3rd Intercostal Nerve Blocks for Axillary Pain after Shoulder Surgery?

Erik M. Helander, Linda Le-Wendling, Barys Ihnatsenka, Yury Zasimovich

E182. The Role of Pectoralis-II Myofascial Block in Breast Cancer Surgery: A Systematic Review and Meta-Analysis of the Absolute and Relative Analgesic Efficacy

Nasir Hussain, Richard Brull, Colin McCartney, Nicolas Kumar, Michael Essandoh, Faraj Abdallah

E183. Title Pending

Hwa-Young Jang, Ha-Jung Kim, Hyung-Tae Kim, Won Uk Koh, Young-Jin Ro

E184. Effects of Lidocaine on Breast Cancer Cells and the Potential Role of Transient Receptor Potential Melastatin 7 (TRPM 7)

Zhaosheng Jin, Hengrui Liu, Jiaxin Liu, James P. Dilger, Jun Lin

E185. Pectoral Block vs Paravertebral Block: A Systematic Review and Meta-Analysis

Zhaosheng Jin, Jiaxin Liu, Ru Li, Tong Joo (TJ) Gan, Jun Lin

E186. Safety and Efficacy of a Regional Anesthetic Protocol Performed by General Anesthesiologists for Total Knee Arthroplasty in a Rural Community Hospital

Kathleen Johnson, Hannah M. Harris, Matthew W. Bullock, Daniel J. Forest, Melissa Laxton, Jordan Rejeski, Yvon F. Bryan

E187. Preoperative Pregabalin Prolongs Spinal Anesthesia for Total Knee Arthroplasty

Deniz Oguz, Sergey Pisklakov

E188. Comparison of Post Operative Analgesia and Incidence of Chronic Pain in Quadratus Lumborum Block and Transversus Abdominis Plane Block in Patients Undergoing Elective Inguinal Hernia Surgery
S. Adinarayanan, Karthikeyan Alagumalai, Vasudevan Arumugam

E189. A Report on 105 Outpatient Total Knee Arthroplasties
Cameron Smith, Linda Le-Wendling, Barys Ihnatsenka, Olga Nin, Luis F. Pulido, Hari K. Parvataneni, Andre P. Boezaart

E190. Is Extrapolation of Animal Data for Intraneural Injection to Humans Valid?
Cameron Smith, Anna Server, Steven Vose, Xavier Sala-Blanch, Erik M. Helander, Miguel A. Reina, Andre P. Boezaart

E191. Non-Invasive Respiratory Volume Monitoring in the Perioperative Management of OSA Patients in an Ambulatory Setting
Vimal Desai, Shawn Winnick, Peggy G. Duke, Diana Laplace, Vu T Nguyen, Atef Morkos, Stephen Moy, Elena Chung, Jennifer Naughton, Jennifer Dang, Ryan Depakakibo, Chunyuan Qiu

E192. Correlation Between Lung Mechanics Parameters during Abdominal Surgery and Plasma Levels of Biomarkers of Lung Injury
Ana Fernandez-Bustamante, Juraj Sprung, Karsten Bartels, Carolina Kosour, Toby Weingarten, Marcos Vidal Melo

E193. Retrospective Study of Extubation Time Following Surgery for Extrapleural Pneumonectomy and Pleurectomy/Decortication Under Desflurane Anesthesia
Keisuke Kawata, Kazunori Okabe

E194. Perioperative Risk Factors for Postoperative Respiratory Complications in Patients at Risk for Obstructive Sleep Apnea
Alberto A. Uribe, Sergio Bergese, Alan G. Esparza Gutierrez, January K. Kim, Marilly Palettas, Juan Fiorda-Diaz, Nicoleta Stoicea

E195. Effect of Cardiac Surgery on Post-Operative Sleep Patterns: An Observational Study
Amanda Kleiman, Julie Huffmyer, Edward C. Nemergut, Lauren K. Dunn, Eryn L. Thiele, Jane L. Gui

E196. Evaluation of Micropore's Spiralith Absorbents into Anesthesia Breathing Circuits
Raksha Bangalore, Andrea Perales, Anna Korban, George Tewfik

E197. Comparing Hemorrhage in Human Physiology Simulation Tools: How They Stack Up Against Expected Human Physiology and Each Other
John J. Barnes, Mojca R. Konia, Jon Keller, Kenneth Kiberenge

E198. Impact of Preload Changes on Tissue and Cerebral Oxygenation Values
Anna-Maria E. Eid, Abdallah Yassin, Mona A Ganash, Mai Khairy, Samar Seleem, Somaia A. Mohamed, Aymen Alian

E199. Preoperative Left Ventricular Energy Loss in the Operating Theater Reflects Subjective Symptoms in Patients with Chronic Aortic Regurgitation
Atsushi Kainuma, Koichi Akiyama, Yoshifumi Naito, Mao Kinoshita, Masaru Shimizu, Maki Ishii, Junya Ohara, Teiji Sawa

E200. Transcutaneous Measurement of Volatile Anesthetic Gas: A Preliminary Study

Ernesto A. Pretto, Robert Fiala, Ahmed H. Jalal, Carla R. Cordova, Yogeswaran Umasankar, Shekhar Bhansali

E201. Glucose Measurements in Blood-Free Balanced Salt Solutions with Three Devices

Matthias Riess, William J. Cleveland, Johannes A. Pille, Felicia P. Lotze, Michele M. Salzman, Claudius Balzer, Josephine Hees

E202. Diagnosing Respiratory Obstruction with Continuously Recorded Tidal Breathing Flow Volume Loops using a Non-Invasive Respiratory Volume Monitor

Wael Saasouh, Peggy G. Duke, Man Ching Cheung

E203. Background Music Contributes to Error in the Operating Room

Joseph Schlesinger, Kendall J. Burdick, Clayton D. Rothwell

E204. Validation of Non-Invasive Beat-To-Beat Finger Arterial Pressure Measured Ipsi - and Contra-Laterally of the Radial Artery Blood Pressure

Rogier V. Immink, Denise P. Veelo, Julia Heusdens, Bart F. Geerts, Lotte Terwindt

E205. The Role of Microtubule Instability in the Histone-Induced Endothelial Barrier Dysfunction

Boyoung Cha, Junghyun Kim, Chenou Zhang, Kenichi Tanaka, Konstantin Birukov, Anna Birukova

E206. Sevoflurane Is Associated with Worse Clinical Outcomes and Altered Inflammatory Markers in Blunt Trauma Patients: Pharmacogenomic Association with Single Nucleotide Polymorphisms rs4715332 and rs1695

Maria A. Cohen, Lukas Schimunek, Rami A. Namas, Ata M. Kaynar, Markus Huber-Lang, Timothy R. Billiar, Yoram Vodovotz

E207. Intraoperative Management of a Trauma Patient with Suspected Malignant Hyperthermia, Hemorrhagic Shock, and Acute Pulmonary Edema Necessitating ECMO: A Case Report

Andreas Plackis, Steve Hyman, Amy Robertson

E209. Circulating Plasma miRNAs Trigger Innate Immune Activation in a Mouse Model of Polytraumatic Injury

Andrew O. Suen, Sheng Wang, Lin Zou, Rosemary Kozar, Catriona Miller, Wei Chao

F1. Changes in Applied Laryngoscope Force Affect Peak Spinal Cord Strain

Benjamin C. Gadomski, Brad J. Hindman, Mitchell Page, Michael Todd, Vincent C. Traynelis, Christian M. Puttlitz

F2. A Randomized Comparison of Airway Devices in Patients with Simulated Cervical Immobilization

Min Hur, Tae Kyong Kim, Hyung-Chul Lee

F3. Effect of Cervical Collar on Oropharyngeal Sealing Pressure and Fiberoptic View of the Glottis with Ambu Aura Gaintm Laryngeal Airway: A Randomized Cross Over Trial

Suman Lata, Sandeep K. Mishra, Duraiyarassu Uthaman

F4. Vallecular Cyst in a Patient Undergoing Emergency Embolization of Ruptured Cerebellar Aneurysm: An Unanticipated Difficult Airway

Yamin A. Noor, Eric Kamenetsky

F5. Experimental Study on Temperature Change in Circuit during Low Flow Anesthesia Due to Difference in Anesthesia Circuit

Nobukazu Sato, Hiroko Baba

F6. A Pilot Study to Determine the Accuracy of Ultrasound in Measurement of the Dimensions of the Pediatric Cricothyroid Membrane

Bill A. Walsh, Paul Fennessy, Roisin Ni Mhuirheartaigh, Aisling Snow, Kevin McCarthy, Conan McCaul

F7. Adductor Canal Nerve Block vs Intra-Articular Anesthetic in Knee Arthroscopy: A Prospective Randomized Trial

Audrice Francois

F8. Use of a Modified Infant Face Mask and a Mapleson C Circuit to Maintain Spontaneous Nasal Ventilation and Oxygenation in Obese Patients during Outpatient EGD and Colonoscopy

James Tse, Sylviana Barsoum, Kang Rah

F9. Propofol Toxicity in Cardiomyocyte Mitochondria of Developing Mice: The Role of the Mitochondrial Transition Pore

Matthew Barajas, Richard J. Levy, Sarah Brunner, Lifei Wang, Aili Wang

F10. S-Ketamine Enhances Thalamocortical As Well As Intracortical Synaptic Transmission in Mouse Brain Slices

Matthias Bieber, Claudia Kopp, Gerhard Schneider, Matthias Kreuzer, Stephan A. Kratzer, Rainer Haseneder

F11. Sevoflurane Enhances iNOS Expression and Bactericidal Effects of Macrophages In Vitro and In Vivo in a Murine Model

Thomas Gerber, Valerie C. Fehr, Suellen Oliveira, Guochang Hu, Randal O. Dull, Marcelo Bonini, Beatrice Beck-Schimmer, Richard Minshall

F12. Pharmacodynamics of Handgrip Strength during Induction of Propofol Anesthesia

Christian S. Guay, Gilles Plourde

F13. Effect of Sevoflurane and Propofol on a Human Breast Cancer Cell Line with Tropism to Brain in Vitro

Zhaosheng Jin, Jiaxin Liu, Hengrui Liu, Jun Lin

F14. Intravenous vs Volatile Anesthesia and Breast Cancer Surgery Outcome: A Systematic Review and Meta-Analysis

Zhaosheng Jin, Ru Li, Jiaxin Liu, Jun Lin

F15. At Supra-Clinical Doses ABP-700 Produces Involuntary Muscle Movements Distinct from Seizure Activity in Beagle Dogs

John Marota, Dario Lehoux, Brad Zerler, Mylene Pouliot, Simon Authier

F16. Differential Inhibition of Steroidogenesis by Etomidate and Etomidate Analogs in Adult Male Rats

Megan Mcgrath, Alissa Hofmann, Douglas E. Raines

F17. A Semimechanistic Model to Characterize the Pharmacokinetics and Dynamics of Subcutaneous Dexmedetomidine in Healthy Adult Volunteers

Teijo I. Saari, Muhammad W. Ashraf, Panu Uusalo, Mika Scheinin

F18. Studies of the New Neuromuscular Blocking Agent CW 1759-50 in the Cat, As in Monkeys, Predict Short- to Ultra-Short Duration in Humans, Reflecting Rapid Degradation by L-Cysteine Adduction in Vitro

John J. Savarese, Hiroshi Sunaga, Jeff Mcgilvra, Paul M. Heerdt, Anita M. Jegarl, Farrell Cooke, Stewart Mccallum, Randy Mack

F19. Prevalence of Bradycardia Associated with Sugammadex Administration in a Single-Center Retrospective Analysis of Electronic Medical Record Data

Matthew Weis, Courtney Elder, Arjun Meka, Lauren Meyer, Craig S. Jabaley, Milad Sharifpour, Vikas N. O'Reilly-Shah

F20. Restrictive Versus Liberal Transfusion Strategies in Cardiac Surgery: A Systematic Review and Meta-Analysis with Trial Sequential Analysis

Hessam Kashani, Carly Lodewyks, Morvarid S. Kavosh, Christine Neilson, Rasheda Rabbani, Ahmed Abou-Setta, Hilary P. Grocott

Kosaka Best of Meeting Award Late-Breaking Oral Presentation

F21. The Effect of Topical and Intravenous Tranexamic Acid on TXA Levels, Thrombogenic, and Inflammatory Markers in Patients Undergoing Total Knee Replacement: A Randomized Double-Blind Controlled Study

Audrey Tseng, Kethy Jules-Elysee, Thomas Sculco, Lila R. Baaklini, Alexander S. Mclawhorn, Amanda J. Pickard, Weige Qin, Justin Cross, Edwin Su, Kara G. Fields, David Mayman

F22. Greater Anemia Tolerance in Females Compared to Males for Inpatient Mortality

Mereze Visagie, Kathryn Pearson, Taylor Purvis, Eric A. Gehrie, Steven M. Frank

F23. Mitral Valve Repair Complicated by Left Circumflex Coronary Artery Occlusion: The Vital Role of the Anesthesiologist

Andres Bacigalupo Landa, Jayanand D'Mello

F24. Guidance of A Bi-Caval Dual Lumen Catheter Placement and Diagnosis of a Catastrophic Complex Occlusive Thrombus: Case Report and Literature Review

Sunny Chiao, Amanda Kleiman

F25. Metabolomic Profiling Reveals Sex Differences and a Reduction in Metabolism after Remote Ischemic Preconditioning

Elijah Christensen, Anushri Desai, Trevor Banack, Joel Zylberberg, Nathan Clendenen

F26. Can the Regional Saturation of Oxygen Value Predict Complications Associated with Access-Related Vascular Injury during Transfemoral Transcatheter Aortic Valve Implantation?

Shihoko Iwata, Mihoshi Sato, Sumire Yokokawa, Keisuke Nakazawa, Makoto Ozaki

F27. A Retrospective Review of Complications and Outcomes in Patients Undergoing Extracorporeal Membrane Oxygenation (ECMO): A Single Center Study

Kenneth Joseph, Kimberly H. Burcar, Jayanta Mukherji, Tewodrose Aseffa, Amanda M. Garza

F28. Effect of L-Glutamine on O-Linked β -N-Acetylglucosamine and Heat Shock Protein 70 in the Isolated Ischemic Rat Heart Model

Akiko Kawakami, Tamaki Sato, Yosuke Nakadate, Patricia Roque, Arkady Khoutorsky, Hiroaki Sato

F29. Oxidative Damage, Delirium, and Neuronal Injury in Cardiac Surgery

Marcos Lopez, Christopher G. Hughes, Matthew Shotwell, Frederic (Josh) Billings

F30. Effect of Intranasal Insulin Administration on Glycemia and Plasma Insulin in Cardiac Surgery Patients

Yosuke Nakadate, Patricia Roque, Hiroaki Sato, Tamaki Sato, Akiko Kawakami, Linda Wykes, Renzo Cecere, Dominique Shum-Tim

F31. Prevention of Early Postoperative Decline (PEaPoD): A Randomized Controlled Trial Investigating the Feasibility of a Perioperative Cognitive Training Program

Brian O'Gara, Ariel Mueller, Doris Vanessa Gasangwa, Alvaro P. Leone, Edward Marcantonio, Balachundhar Subramaniam

F32. Protamine-Heparin Neutralization Ratio in Cardiac Surgery

Daniel Szoke, Ravi Taneja, Zach Hynes

F33. Preliminary Results of a Study on the Use of a Wireless Holter-Like Device to Detect Patients with Silent Atrial Fibrillation Leading to New Onset Atrial Fibrillation after CABG

Lian Kah Ti

F34. Turbulent Pulmonary Vein Flow in Adult Patient after CABG

Emily Wang, Aaron Mittel

F35. Glycemic Stress Index: It Is Useful in Every Clinical Scenario?

Swapnil Aswar, Mathieu Georges, Gianluca Bertolizio

F36. Early Mobility in the Cardiothoracic Surgical Intensive Care Unit: A Quality Improvement Study

Michael W. Best, Layne Madden, Matthew Wiepking, Salila Hashmi, Maxwell Hockstein, Craig S. Jabaley, Mark Caridi-Scheible

F37. Carbon Footprint of the Critically Ill: An Economic Input-Output Analysis of the ICU and the Environmental Impact of Delayed Patient Discharge Due to Bottleneck in Availability of Lower Acuity Beds

Adjoa Boateng, Jodi Sherman

F38. Antipsychotic Medication Prescribing Patterns for Management of Intensive Care Unit (ICU) Delirium in 8872 Patients

Christina Boncyk, Christopher G. Hughes, Joanna Stollings, Matthew Shotwell, Xiaoke Feng, Matt Marshall

F39. Clevidipine Use after First-Line Treatment Failure for Perioperative Hypertension in Neurosurgical Patients: A Single-Center Experience

Jaume Borrell Vega, Alberto A. Uribe, Marilly Palettas, Sergio Bergese

F40. Successful Extracorporeal Membrane Oxygenation Utilization for Refractory Acute Respiratory Distress Syndrome Following Orthotopic Liver Transplantation Re-Exploration for Intra-Abdominal Hemorrhage

Anna Ciullo, Suzanne Bennett

F41. Association Between Preadmission Chronic Opioid Usage and 90-Day Mortality in Critically Ill Patients

Jeong-Pyo Hong, Tak Kyu Oh, Sung-Hee Han, Jung-Hee Ryu, In-Ae Song

F42. Palliative Care Consultants in the Intensive Care Unit: A Systematic Review

Diana Hylton, Rebecca A Aslakson

F43. Racial and Ethnic Differences in Healthcare Utilization Following Severe Acute Brain Injury

Rayleen Jones, Vijay Krishnamoorthy, Karthik Raghunathan

F44. Outcomes in Patients with Post-Operative Vasoplegia Receiving Angiotensin-II for Vasodilatory Shock

Ashish K. Khanna, Bruce Friedman, Caleb Mackey, Rakshit Panwar, Adam Evans, Laith Altaweel, Damian Handisides, Annette C. Chavez, Ara Klijian

F45. Surrogate Humane Endpoints in Small Animal Models of Acute Lung Injury: A Modified Delphi Consensus Study of Researchers and Laboratory Animal Veterinarians

Ryan McGinn, Dean A. Fergusson, Arnold S. Kristof, Carly C. Barron, Dawn Stacey, Manoj M. Lalu

F46. Discordant Anti-Xa and PTT Levels during Unfractionated Heparin Therapy and Increased Clinical Risk for Adverse Events

Lauren Myers, Andrew Barker, Brant Wagener

F47. Spatial and Temporal Identification of the IL-1 β Producing Cell Type in the Lung through Primary Cell Expression Profiling in Intact Human and Mouse Lung Tissue

Arun Prakash, Xiaoli Tian

F48. Inflammatory Profile of Murine Septic AKI: Role of CD11c+/CX3CR1+ Antigen Presenting Cells

Jamie Privratsky, Jiafa Ren, Benjamin Morris, Steven D. Crowley

F49. Mushroom Poisoning from Amanita Phalloides Resulting in Orthotopic Liver Transplantation

Jeremy T. Rainey, Avneep Aggarwal

F50. Role of Innate Immune miRNA–TLR7 Signaling in Sepsis-Induced Coagulopathy in Mice

Brittney Williams, Jessica Neder, Lin Zou, Wei Chao

F51. Assessing Post-Surgical Mortality Risk through Nonlinear Coupling of Intraoperative Heart Rate and Blood Pressure Time Series

Alexander L. Young, Hau-Tieng Wu, Willem Van Den Boom, Vijay Krishnamoorthy, Karthik Raghunathan, David B. Dunson

F52. Efficient Trainee Allocation at an ACGME-Accredited Regional Anesthesia and Acute Pain Medicine Fellowship Program

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F197. Survey of Program Directors on the Use of Simulation in Training in Regional Anesthesiology Fellowship Training

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F198. Increased Peripheral Venous Pressures (PVP) Are Not the Same? (Impact of Different Physiological Challenges on PVP)

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F201. What Counts? Comparison of Manual Palpation, Mechanomyography, Acceleromyography and Electromyography for Twitch Assessment

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F204. Development of a Head-Mounted Holographic Needle Guidance System for Enhanced Ultrasound Guided Regional Anesthesia

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F205. Effect of Ventilatory Parameters on the Measurement of Arterial Pressure-Derived Stroke Volume Variation in Mechanically Ventilated Surgical Patients

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F206. WHO Surgical Safety Check List: Is Patient Safety at Risk Outside The Regular Working Hours? A German Survey

Rolf D. Nordmeier, Theresa Kuhlmann, Hendrik Booke

F207. Intraoperative CPR in Prone Position. To Turn Or Not To Turn the Patient in Supine Position?

Rolf D. Nordmeier, Theresa Kuhlmann, Hendrik Booke, Oliver Danzeisen

F208. The Impact of Early Exposure To High-Fidelity Simulation On The Developing Anesthesiologist: A Qualitative Pilot Study

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SCHOLARS' SCHEDULE



167 SCHOLAR'S PROGRAM



The IARS, AUA, SOCCA and eSAS Scholars' Program is for early-stage scholars in anesthesiology who are looking for best practices in adapting to the rapidly changing world of academic anesthesia and medicine. Through innovative teaching approaches, scholars will receive the much-needed skills they desire while interacting with peers and mentors. Participation in the Scholars' Program requires a separate \$50 fee and pre-registration. Visit the Registration Desk for more information.

FRIDAY, MAY 17

5:30 pm – 6:30 pm *Square Victoria*

Scholars' Program Mentoring and Networking Reception

SATURDAY, MAY 18

9:30 am – 9:45 am *Av. Viger*

Introduction

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

9:45 am – 10:45 am *Av. Viger*

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

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

10:55 am – 12:00 pm *Av. Viger*

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; and Daniel King-Wai Low, MD, MB BS, Seattle Children's Hospital

12:00 pm – 1:00 pm

Lunch

2:30 pm – 3:30 pm

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; and Alex Evers, MD, Washington University School of Medicine

1:00 pm – 2:30 pm

Place du Canada / Square Dorchester

Break and IARS Poster Session D

For session details, see the IARS Posters tab.

3:30 pm – 4:00 pm

Av. Viger

Networking and Collaboration

Moderated by Jamie Privratsky, MD, PhD, Duke University Medical Center

4:00 pm – 5:00 pm

Av. Viger

Preparing for the Future of Anesthesiology Now

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

Beverley A. Orser, MD, PhD, FRCPC, University of Toronto; and George A. Mashour, MD, PhD, University of Michigan Medicine

5:15 pm – 6:30 pm

eSAS Business Meeting

SUNDAY, MAY 19

2:00pm – 6:00pm

Rue Mansfield

Leadership Workshop: Emotional Intelligence and the Innovative Leader

Jean Ann Larson, FACHE, LFHIMSS, FIISE, UAB Health System and School of Medicine and Duane Wilson, University of Notre Dame



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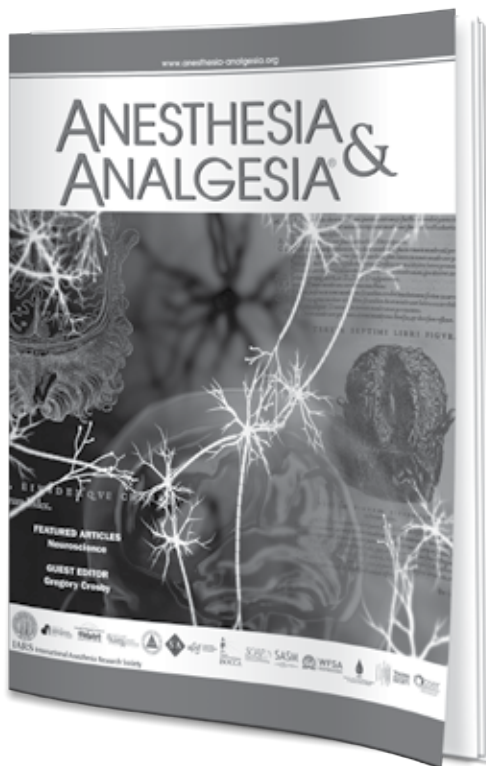
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Michael Walsh, MD
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Duminda N. Wijeyesundera, MD, PhD, FRCPC
Troy Wildes, MD
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Samrat Worah, MD
Hannah M. Wunsch, MD, MSc
Samantha Yeap, MD
Masataka Yokoyama, MD
Tomoko Yorozu, MD, PhD
Kenji Yoshitani, MD





your
IDEA

your
SESSION 2020

2020 is going to be your year! We're now accepting session proposals for the IARS 2020 Annual Meeting.

Here's your chance to make that idea for an IARS Annual Meeting session a reality. Whether it's a big picture topic that affects the whole field or a hands-on session tackling a specific challenge in the operating room, it's time to tell us about it.

And before you know it, you'll be part of a session at the IARS Annual Meeting in San Francisco, May 15 – May 18.

Be sure to submit your proposal by July 10, 2019 at meetings.iars.org

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ANNUAL MEETINGS



SAN FRANCISCO | MAY 14 – 18 | 2020

Everyone is coming to our place in 2020!

Actually, we'll be at the Hilton San Francisco Union Square, May 14 – 18, and can't wait to show you our hometown.

Find out more at meetings.iars.org.

AUA 2020 Annual Meeting

May 14 – 15



SOCCA 2020 Annual Meeting

May 15



IARS 2020 Annual Meeting

May 15 – 18

