

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



FINAL PROGRAM

Contents

Saturday, May 15, 2021.....	3
T.H. Seldon Memorial Lecture: The Future of the Specialty: How the Pandemic and Policy Changes should Influence our Leadership	3
Science of COVID Symposium.....	3
Break.....	3
Concurrent Sessions	4
1. Panel: How Advances in Technology Will Impact the Practice of Anesthesiology	4
2. Panel: Prehabilitation and Medical Optimization in High-Risk Surgical Patients	4
3. Association of University Anesthesiologists (AUA) Sponsored Symposium: Anesthesia and the Microbiome: Exploring a New Frontier in Perioperative Medicine	5
4. Smart Tots Panel: Update on Pediatric Anesthetic Neurotoxicity.....	5
Break.....	5
International Science Symposium: Psychedelic Neuroscience – Non-CME Session	5
Break.....	6
Concurrent Sessions	6
1. Society for Anesthesia and Sleep Medicine (SASM) Sponsored Panel: Pediatric Tonsillectomy: To Breathe or Not to Breathe, that is the Painful Question	6
2. Review Course Lecture: Machine Learning for Anesthesiologists 101	7
3. Symposium: Immune Health in Surgery and Critical Care – Challenges and Novel Opportunities.....	7
4. The future of the anesthesiology physician scientist; an Anesthesia Research Council (ARC) update and needs assessment.....	7
5. Panel: AKI from Bench to Bedside: Hopeless Endeavor or Hopeful Progress?.....	8
6. Review Course Lecture: Heart Failure with Preserved Ejection Fraction (HFpEF): An Emerging Perioperative Risk Factor	8
Break.....	8
Campfire Session: Facilitate, Mediate or Negotiate: Do You Have the Skills to Successfully Engage in the Conversation?.....	9
Networking Opportunity/Meet the Experts Sessions.....	9
Sunday, May 16, 2021	10
Kosaka Best Abstract Award Session	10

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



FINAL PROGRAM

World Federation of Societies of Anaesthesiologists (WFSA) Sponsored Symposium: Evidence in the Era of Distrust: Maintaining Scientific Honesty While Remaining Socially Relevant	11
Break.....	12
Concurrent Sessions	12
1. Symposium: Wellness and Resilience.....	12
2. Panel: Futility in Critical Care: What, When and How?	12
3. Liver Intensive Care Group of Europe (LICAGE), Society for the Advancement of Transplant. 13	
Anesthesia (SATA) and International Liver Transplantation Society (ILTS) Sponsored Panel: Lessons from Transplant Anesthesia for the Rest of Us: Coagulation, Perfusion and Liver Function.....	13
4. International Society for the Perioperative Care of the Obese Patient (ISPCOP) Sponsored Review Course Lecture: Acute Pain Management in Morbid Obesity - Controversies and Conundrums!	13
5. Early-Stage Anesthesiology Scholars (eSAS) Session: Going Up: Early Stage Anesthesiology Scholars Rapid-Fire Showcase	13
6. Panel: Visualizing Pain: From Mouse to Human.....	14
Break.....	14
Concurrent Sessions	14
1. Review Course Lecture: Bad Heart-Bad Lungs: How Ventilation in ARDS Impacts Patients with Marginal Right and Left Ventricular Function	14
2. <i>Anesthesia & Analgesia</i> Sponsored Symposium: Perioperative Outcomes: Current Evidence and Future Priorities	14
3. Panel: Frailty and Perioperative Care: Assessment, Optimization, Outcomes and Shared Decision Making	15
4. American Society of Anesthesiologists (ASA) Sponsored Campfire Session: Incorporating Diversity and Inclusion in Anesthesiology programs - Residents and Faculty	15
5. Panel: To study the Underlying Mechanism of Postoperative Delirium: Establishment of Clinically Relevant Animal Models	16
6. Panel: Socioeconomics and Outcomes in Healthcare with Focus on COVID	16
Break.....	17
Diversity: Healthcare Equity and Disparities of Care Symposium.....	17
Evening Networking Opportunity/Meet the Experts Sessions	17

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



FINAL PROGRAM

Saturday, May 15, 2021

T.H. Seldon Memorial Lecture: The Future of the Specialty: How the Pandemic and Policy Changes should Influence our Leadership

11:10 am - 12:00 pm ET

11:10 am	Introduction <i>Speaker: Max Kelz, MD, PhD, University of Pennsylvania, Philadelphia, PA</i>
11:15 am	<i>Lee A. Fleisher, MD</i> <i>Professor of Anesthesiology and Critical Care and Professor of Medicine</i> <i>University of Pennsylvania Perelman School of Medicine</i> <i>CMS Chief Medical Officer and Director of the Center for Clinical Standards and Quality</i> <i>Centers for Medicare and Medicaid Services</i>
11:45 am	Moderated Discussion and Q&A

Science of COVID Symposium

12:00 pm – 1:00 pm ET

Moderator: *Michael S. Avidan, MBBCh, Washington University in St. Louis, St. Louis, Missouri*

12:00 pm – 12:10 pm	Use of inhaled anesthetics as anti-inflammatories <i>Angela Jerath, MSc, FRCPC, FANZCA, MD, BSc</i> <i>Sunnybrook Health Sciences Centre, Toronto, Ontario</i>
12:10 pm – 12:20 pm	So what is going on with coagulation in COVID-19 infection? <i>Beverley Hunt, OBE FRCP FRCPath</i> <i>King's College London, London, UK</i>
12:20 pm – 12:30 pm	Role of trained immunity in fighting new pandemics <i>Leon du Toit, MMed</i> <i>University of Cape Town, Cape Town, South Africa</i>
12:30 pm – 1:00 pm	Moderated Discussion and Q&A

Break

1:00 pm – 1:10 pm ET

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



FINAL PROGRAM

Concurrent Sessions

1:10 pm – 2:10 pm ET

1. Panel: How Advances in Technology Will Impact the Practice of Anesthesiology

Moderator: *Ronald Pearl, MD, PhD, Stanford University School of Medicine, Stanford, CA*

- | | |
|-------------------|--|
| 1:10 pm – 1:20 pm | How Advances in Surgery Will Change the Practice of Anesthesiology
<i>Gaganpreet Grewal, MD</i>
<i>University of Texas Southwestern Medical Center, Dallas, TX</i> |
| 1:20 pm – 1:30 pm | Artificial Intelligence, Machine Learning, and the Practice of Anesthesiology
<i>Michael Mathis, MD</i>
<i>University of Michigan Medicine, Ann Arbor, MI</i> |
| 1:30 pm – 1:40 pm | Remote Monitoring to Improve Patient Outcomes
<i>Jeanine Wiener-Kronish, MD</i>
<i>Massachusetts General Hospital, Boston, MA</i> |
| 1:40 pm – 1:50 pm | How Advances in Pharmacology Will Change the Practice of Anesthesiology
<i>Alex Evers, MD</i>
<i>Washington University School of Medicine, St. Louis, MO</i> |
| 1:50 pm – 2:10 pm | Moderated Discussion and Q&A |

2. Panel: Prehabilitation and Medical Optimization in High-Risk Surgical Patients

Moderator: *Matthew McEvoy, MD, Vanderbilt University Medical Center, Nashville, TN*

- | | |
|-------------------|---|
| 1:10 pm – 1:22 pm | Frailty and sarcopenia: what can I do about that?
<i>Kimberly Rengel, MD</i>
<i>Vanderbilt University Medical Center, Nashville, TN</i> |
| 1:22 pm – 1:34 pm | Nutritional optimization before surgery
<i>Paul Wischmeyer, MD, EDIC, FASPEN, FCCM</i>
<i>Duke University School of Medicine, Durham, NC</i> |
| 1:34 pm – 1:46 pm | Preoperative cognitive assessment and optimization
<i>Deborah Culley, MD</i>
<i>Brigham and Women's Hospital, Boston, MA</i> |
| 1:46 pm – 1:58 pm | Preoperative medical optimization programs: practical steps for implementation
<i>Matthew McEvoy, MD</i>
<i>Vanderbilt University Medical Center, Nashville, TN</i> |
| 1:58 pm – 2:10 pm | Moderated Discussion and Q&A |

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



FINAL PROGRAM

3. Association of University Anesthesiologists (AUA) Sponsored Symposium: Anesthesia and the Microbiome: Exploring a New Frontier in Perioperative Medicine

Moderator: *Ines Koerner, MD, PhD, Oregon Health & Science University, Portland, OR*

1:10 pm – 1:23 pm Anesthetic Effects on the Gut Microbiome
Cyrus Mintz, MD, PhD
Johns Hopkins School of Medicine, Baltimore, MD

1:24 pm – 1:37 pm Gut Microbiota in Neuroinflammation and Pain
Shiqian Shen, MD
Massachusetts General Hospital, Charlestown, MA

1:38 pm – 1:51 pm Gut Dysbiosis in Critical Illness
Paul Wischmeyer, MD, EDIC, FASPEN, FCCM
Duke University School of Medicine, Durham, NC

1:51 pm – 2:10 pm Moderated Discussion and Q&A

4. Smart Tots Panel: Update on Pediatric Anesthetic Neurotoxicity

Moderator: *Dean Andropoulos, MD, MHCM, Texas Children's Hospital, Houston, TX*

1:10 pm – 1:25 pm Is There A Phenotype for Clinical Anesthetic Neurotoxicity Studies?
Caleb Ing, MD
Columbia University Irving Medical Center, New York, NY

1:25 pm – 1:40 pm Translating Pre-Clinical Data to Clinical Studies
Laszlo Vutskits, MD, PhD
University Hospitals of Geneva, Geneva, Switzerland

1:40 pm -1:55 pm Update on TRES Trial, and Challenges with Clinical Studies
Andrew Davidson, MBBS, MD, FANZCA
Royal Children's Hospital, Victoria, Australia

1:55 pm – 2:10 pm Moderated Discussion and Q&A

Break

2:10 pm – 2:20 pm ET

International Science Symposium: Psychedelic Neuroscience – Non-CME Session

2:20 pm – 3:20 pm ET

Moderator: *George Mashour, MD, PhD, University of Michigan, Ann Arbor, Michigan*

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



IARS

FINAL PROGRAM

2:20 pm – 2:32 pm	Deconstructing Ketamine and MDMA to Make Better Medicine <i>Boris Heifets, MD, PhD</i> <i>Stanford University School of Medicine, Stanford, CA</i>
2:32 pm – 2:44 pm	Neuroimaging and connectivity and network analysis <i>Robin Carhart Harris, MD</i> <i>Imperial College London, London, UK</i>
2:44 pm – 2:56 pm	Neuropharmacology <i>Katrin Preller, PhD</i> <i>Yale School of Medicine, New Haven, CT</i>
2:56 pm – 3:20 pm	Moderated Discussion and Q&A

Break

3:20 pm – 3:30 pm ET

Concurrent Sessions

3:30 pm – 4:30 pm ET

1. Society for Anesthesia and Sleep Medicine (SASM) Sponsored Panel: Pediatric Tonsillectomy: To Breathe or Not to Breathe, that is the Painful Question

Moderator: *Raj Subramanyam, MBBS, MD, MS, Children's Hospital of Philadelphia, Philadelphia, PA*

3:30 pm – 3:42 pm	Obstructive sleep apnea: from metabolomics to “Humanomics” and back <i>Olubukola Nafiu, MD, FRCA, MS</i> <i>Nationwide Children's Hospital, Columbus, OH</i>
3:42 pm – 3:54 pm	Opioid sparing techniques for tonsillectomy <i>Raj Subramanyam, MBBS, MD, MS</i> <i>Children's Hospital of Philadelphia, Philadelphia, PA</i>
3:54 pm – 4:06 pm	Postop respiratory complication prediction during tonsillectomy with & without prior sleep studies <i>Lisa Elden, MD, FRCPC</i> <i>Children's Hospital of Philadelphia, Philadelphia, PA</i>
4:06 pm – 4:18 pm	Measures to improve perioperative airway management in obstructive sleep apnea patients <i>Kimmo Murto, FRCPC</i> <i>CHEO Hospital, Ottawa, Ontario</i>
4:18 pm – 4:30 pm	Moderated Discussion and Q&A

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



IARS

FINAL PROGRAM

2. Review Course Lecture: Machine Learning for Anesthesiologists 101

3:30 pm – 4:30 pm

Hannah Lonsdale, MBChB, Johns Hopkins University, Baltimore, MD

3. Symposium: Immune Health in Surgery and Critical Care – Challenges and Novel Opportunities

Moderator: *Martin Angst, MD, Stanford University School of Medicine, Stanford, CA*

3:30 pm – 3:42 pm

The Surgical Immune Response – How Do We Measure It and What Does It Tell Us in Perioperative Care?

Brice Gaudilliere, MD, PhD

Stanford University School of Medicine, Stanford, CA

3:42 pm – 3:54 pm

Onco-anesthesia – Do Anesthetic Choices Influence Outcomes in Cancer Surgery?

Tom Wall, MD

University College Dublin, Dublin, Ireland

3:54 pm – 4:06 pm

Biological Determinants in Critical Illness – A Path towards Individualized Patient Care in the ICU?

Philip Efron, MD

University of Florida, Gainesville, FL

4:06 pm – 4:18 pm

Biological Determinants of Wound Healing – What are Modifiable Factors in Perioperative Medicine?

Sashwati Roy, PhD

Indiana University School of Medicine, Indianapolis, IN

4:18 pm – 4:30 pm

Moderated Discussion and Q&A

4. The future of the anesthesiology physician scientist; an Anesthesia Research Council (ARC) update and needs assessment



Anesthesia Research Council

3:30 pm -3:35 pm

An introduction of ARC by the chair of the ARC Steering Committee

Max Kelz, MD, PhD

3:35 pm-3:45 pm

An overview of year I working group study charges and approach to data collection

Charles Emala, MS, MD

3:45 pm - 4:15 pm

Break Out Room Discussions

Room 1: Anesthesiology's physician scientist pipeline; benchmarked against other specialties

Charles Emala, MD and Vivianne Tawfik, MD, PhD

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



FINAL PROGRAM

Room 2: Factors, Barriers and Solutions to successful launch of anesthesiology physician scientists

Monica Vavilala, MD

Room 3: Diversity; Identifying Factors and Solutions to barriers that differentially affect underrepresented groups

Paloma Toledo, MD

Room 4: Recommendations to trainees, mentors, chairs, deans and funding, legislative and academic societies to strengthen the anesthesiology physician scientist pipeline

Cynthia Wong, MD and Lee Fleisher, MD

4:15 pm - 4:30 pm

Wrap Up

5. Panel: AKI from Bench to Bedside: Hopeless Endeavor or Hopeful Progress?

Moderator: *Jamie Privratsky, MD, PhD, Duke University Medical Center, Durham, NC*

3:30 pm – 3:45 pm

Immune system modulation for critical illness-associated AKI

Jamie Privratsky, MD, PhD

Duke University Medical Center, Durham, NC

3:45 pm – 4:00 pm

Bridging the gap between the bench and the bedside: developing lipoprotein-based therapeutics to prevent AKI

Loren Smith, MD, PhD

Vanderbilt University Medical Center, Nashville, TN

4:00 pm – 4:15 pm

Recent clinical trials and acute kidney injury: what we have learned and where we are headed

Marcos Lopez, MD, MS

Vanderbilt University Medical Center, Nashville, TN

4:15 pm – 4:30 pm

Moderated Discussion and Q&A

6. Review Course Lecture: Heart Failure with Preserved Ejection Fraction (HFpEF): An Emerging Perioperative Risk Factor

3:30 pm – 4:30 pm

Aalok K. Kacha, MD, PhD, FASA

The University of Chicago, Chicago, IL

Break

4:30 pm – 4:40 pm ET

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



IARS

FINAL PROGRAM

Campfire Session: Facilitate, Mediate or Negotiate: Do You Have the Skills to Successfully Engage in the Conversation?

4:40 pm – 5:40 pm ET

Moderator: *Elizabeth Duggan, MD, University of Alabama Birmingham, Birmingham, AL*

Laureen Hill, MBA, Columbia University Medical Center, New York, NY

Elizabeth W Duggan, MD, University of Alabama Birmingham, Birmingham, AL

Caitlin D Sutton, MD, Baylor College of Medicine, Houston, TX

Kathy Rogers, JD, Emory University School of Law, Atlanta, GA

Networking Opportunity/Meet the Experts Sessions

5:45 pm – 7:00 pm

1. AI in Healthcare
Vikas O'Reilly-Shah, MD, PhD, FASA, University of Washington, Seattle Children's Hospital
2. Ambulatory Anesthesia
Kumar Belani, MBBS, MS, M Health Fairview Masonic Children's Hospital
3. Anesthesia for Fetal Surgery
Marla Ferschl, MD, University of California San Francisco
4. Challenges and Opportunities in Translational Neuroscience with a focus on Delirium Modeling
Niccolo Terrando, PhD, Duke University
5. Clinical Trials
Andrew Davidson, MBBS, MD, FANZCA, Royal Children's Hospital
6. Clinician Well-Being
Jina Sinskey, MD, University of California San Francisco
7. Cognitive Change; Older Adults; Epidemiologic Modeling
Elizabeth Whitlock, MD, MSc, University of California, San Francisco School of Medicine
8. Personalized Medicine
Kristin Schreiber, MD, PhD, Brigham and Women's Hospital; Harvard Medical School
9. Neuroanesthesia
Odmara Barreto Chang, MD, PhD, University of California San Francisco
10. Women in Medicine
Marina Moguilevitch, MD, Montefiore Medical Center

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



IARS

FINAL PROGRAM

Sunday, May 16, 2021

Kosaka Best Abstract Award Session

10:30 am - 12:00 pm ET

Judges:

Vivianne Tawfik, MD, PhD
Seun Johnson-Akeju, MD
Max B. Kelz, MD, PhD
Y.S. Prakash, MD, PhD

10:30 am – 10:35 am Introduction

Top Basic Science Presentations

10:35 am – 10:43 am Protective Effects of Hydrogen Gas against Spinal Cord Ischemia Reperfusion Injury: A Microdialysis Study in the Spinal Ventral Horn

Aya Kimura

Osaka City University Graduate School of Medicine, Osaka, Japan

10:43 am – 10:51 am Reduction in Cerebral Blood Flow During Aeromedical Evacuation-Relevant Hypobaria Following Rat Traumatic Brain Injury

Gary Fiskum

University of Maryland School of Medicine, Baltimore, MD

10:51 am – 10:59 am Leveraging TRPV1 genetic divergence between avian and mammalian species to develop a TRPV1^{K710N} knock-in mouse and a novel analgesic

Shufang He

The Second Hospital of Anhui Medical University; Stanford University, Hefei, China

Top Clinical Research Presentations

10:59 am – 11:07 am Whole-brain network connectivity changes with midazolam sedation during task performance and periodic pain: A functional MRI study in healthy young adults

Keith M Vogt

University of Pittsburgh, Pittsburgh, PA

11:07 am – 11:15 am Applying Machine Learning to Identify Pediatric Patients at Risk of Critical Perioperative Adverse Events: using the APRICOT Dataset

Hannah Lonsdale

Johns Hopkins University, St Petersburg, FL

11:15 am – 11:23 am Reduction of preoperative anxiety using Virtual Reality vs midazolam: A randomized controlled trial

Anthony Koo

Phoenix Childrens Hospital, Scottsdale, AZ

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



FINAL PROGRAM

Top Scholars Presentations

- 11:23 am – 11:31 am Modulation Of Microvascular Blood Flow And Stroke Outcome Via GPR39 in Mice
Yifan Xu
Oregon Health and Sciences University, Portland, OR
- 11:31 am – 11:39 am Perioperative neurocognitive and neuroimaging trajectories in older APOE4 carriers vs non-carriers: A prospective cohort study
Rosa O Yang
Duke University School of Medicine, Durham, NC
- 11:39 am – 11:47 am Anesthetic activation of GABAA receptors in astrocytes triggers a persistent increase in cell-surface expression of $\alpha 5$ GABAA receptors in neurons via IL-1 β in mice
Arsene Pinguelo
University of Toronto, Toronto, Ontario
- 11:47 am – 11:55 am Judges Deliberate
Seun Johnson-Akeju, MD, Massachusetts General Hospital, Harvard Medical School, Boston, MA
Vivianne Tawfik, MD, PhD, Stanford University School of Medicine, Stanford, CA
Max Kelz, MD, PhD, University of Pennsylvania, Philadelphia, PA
Y.S. Prakash, MD, PhD, Mayo Clinic, Rochester, MN
- 11:55 am – 12:00 pm Winners Announced and Closing Statement

World Federation of Societies of Anaesthesiologists (WFSA) Sponsored Symposium: Evidence in the Era of Distrust: Maintaining Scientific Honesty While Remaining Socially Relevant

12:00 pm – 1:00 pm ET

Moderator: *Adrian Gelb, MB, University of California San Francisco, San Francisco, CA and Davy Cheng, MD MSc, FRCPC, FCAHS, CCPE, Western University London Health Sciences Centre, London, Ontario*

- 12:00 pm – 12:15 pm How Can We Be Evidence-Based in the Face of Evidence Reversals, Over-Hype, and Research Misconduct
Janet Martin, MSc (HTA&M), PharmD
Western University, London, Ontario
- 12:15 pm – 12:30 pm Ethical, Cultural, and Practical Challenges of Developing & Implementing Global Anesthesia Research
Angela Enright, OC, MB, FRCPC
University of British Columbia, Victoria, British Columbia
- 12:30 pm – 12:45 pm Shared Decision Making in the Perioperative Setting: A Complex Multi-Faceted Construct
Hilary Grocott, MD FRCPC

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



FINAL PROGRAM

University of Manitoba, Winnipeg, Manitoba

12:45 pm – 1:00 pm

Moderated Discussion and Q&A

Break

1:00 pm – 1:10 pm ET

Concurrent Sessions

1:10 pm – 2:10 pm ET

1. Symposium: Wellness and Resilience

Moderator: *Keith H. Baker, MD, PhD, Massachusetts General Hospital, Boston, MA*

1:10 pm – 1:35 pm

Science of Wellness, Pathophysiology of Stress

Afton Hassett, Psy.D

University of Michigan, Ann Arbor, MI

1:35 pm – 2:00 pm

Structural Aspects of Wellness in Institutions

Scott Markowitz, MD

University of Colorado Medical Center, Aurora, CO

2:00 pm – 2:10 pm

Moderated Discussion and Q&A

2. Panel: Futility in Critical Care: What, When and How?

Moderator: *Robert Sladen, MBChB, FCCM, Columbia University Medical Center, New York, NY*

1:10 pm – 1:25 pm

What is Futility?

Kenneth Prager, MD

Columbia University Medical Center, New York, NY

1:25 pm – 1:40 pm

It's a Bridge to No Recovery - Now What

Teresa Mulaikal, MD

Columbia University Medical Center, New York, NY

1:40 pm – 1:55 pm

Is It Ever Too Early to Consult Palliative Care?

Shunichi Nakagawa, MD

Columbia University Medical Center, New York, NY

1:55 pm – 2:10 pm

Moderated Discussion and Q&A

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



FINAL PROGRAM

3. Liver Intensive Care Group of Europe (LICAGE), Society for the Advancement of Transplant Anesthesia (SATA) and International Liver Transplantation Society (ILTS) Sponsored Panel: Lessons from Transplant Anesthesia for the Rest of Us: Coagulation, Perfusion and Liver Function

Moderator: Fuat Saner, MD, University Duisburg, Essen, Germany

- | | |
|-------------------|--|
| 1:10 pm – 1:25 pm | New models of coagulation and hemostasis: does it affect my transfusion practice?
<i>Gebhard Wagener, MD</i>
<i>Columbia University Medical Center, New York, NY</i> |
| 1:25 pm – 1:40 pm | How to assess organ perfusion: pressure is not everything
<i>Ahmed Mohamed Mukhtar, MD</i>
<i>University of Cairo, Cairo, Egypt</i> |
| 1:40 pm – 1:55 pm | My patient with liver disease is undergoing surgery. Should I proceed?
<i>Dmitri Bezinover, MD, PhD</i>
<i>Penn State Hershey Medical Center, Hershey, PA</i> |
| 1:55 pm – 2:10 pm | Moderated Discussion and Q&A |

4. International Society for the Perioperative Care of the Obese Patient (ISPCOP) Sponsored Review Course Lecture: Acute Pain Management in Morbid Obesity - Controversies and Conundrums!

- | | |
|-------------------|--|
| 1:10 pm – 2:10 pm | <i>Naveen Eipe, MD, The Ottawa Hospital, Ottawa, Ontario</i> |
|-------------------|--|

5. Early-Stage Anesthesiology Scholars (eSAS) Session: Going Up: Early Stage Anesthesiology Scholars Rapid-Fire Showcase

Moderator: Aaron Norris, MD, PhD, Washington University School of Medicine, St. Louis, MO

- | | |
|-------------------|---|
| 1:10 pm – 1:15 pm | <i>Broc Burke, MD, PhD</i>
<i>Washington University School of Medicine, St. Louis, MO</i> |
| 1:15 pm – 1:20 pm | <i>Erica Langnas, MD</i>
<i>University of California San Francisco, San Francisco, CA</i> |
| 1:20 pm – 1:25 pm | <i>Loren Smith, MD, PhD</i>
<i>Vanderbilt University Medical Center, Nashville, TN</i> |
| 1:25 pm – 1:30 pm | <i>Michael Devinney, Jr., MD, PhD</i>
<i>Duke University School of Medicine, Durham, NC</i> |
| 1:30 pm – 1:35 pm | <i>Brittney Williams, MD</i>
<i>University of Maryland School of Medicine, Baltimore, MD</i> |

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



FINAL PROGRAM

1:35 pm – 1:40 pm	<i>Mitra Heshmati, MD, PhD</i> <i>University of Washington, Seattle, WA</i>
1:40 pm – 1:45 pm	<i>Allison Janda, MD</i> <i>University of Michigan, Ann Arbor, MI</i>
1:45 pm – 1:50 pm	<i>James Khan, MD</i> <i>Mount Sinai Hospital, Toronto, Ontario, Canada</i>
1:50 pm – 2:10 pm	Moderated Discussion and Q&A

6. Panel: Visualizing Pain: From Mouse to Human

Moderator: *Shiqian Shen, Massachusetts General Hospital, Charlestown, MA*

1:10 pm – 1:25 pm	A novel animal pain model with distinct behavior <i>Norman Taylor, MD, PhD</i> <i>University of Utah, Salt Lake City, UT</i>
1:25 pm – 1:40 pm	Imaging neuronal activities in animal pain models <i>Guang Yang, PhD</i> <i>Columbia University, New York, NY</i>
1:40 pm – 1:55 pm	Imaging humans with chronic pain <i>Hsiao-Ying Wey, PhD</i> <i>Massachusetts General Hospital, Boston, MA</i>
1:55 pm – 2:10 pm	Moderated Discussion and Q&A

Break

2:10 pm – 2:30 pm ET

Concurrent Sessions

2:30 pm – 3:30 pm ET

1. Review Course Lecture: Bad Heart-Bad Lungs: How Ventilation in ARDS Impacts Patients with Marginal Right and Left Ventricular Function

2:30 pm – 3:30 pm *Aranya Bagchi, MD, Harvard Medical School, Boston, MA*

2. *Anesthesia & Analgesia* Sponsored Symposium: Perioperative Outcomes: Current Evidence and Future Priorities

Moderator: *Jean-Francois Pittet, MD, DEAA, University of Alabama at Birmingham, Birmingham, AL*

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



FINAL PROGRAM

2:30 pm – 2:45 pm	Perioperative Outcomes: Shock <i>Judith Hellman, MD</i> <i>University of California San Francisco, San Francisco, CA</i>
2:45 pm – 3:00 pm	Perioperative Outcomes: British Journal of Anesthesia <i>Hugh Hemmings, MD, PhD, FRCA</i> <i>Weill Cornell Medical College, New York, NY</i>
3:00 pm – 3:15 pm	Perioperative Outcomes: Obstetrics & Gynecology <i>John R. Fischer, MD, FACOG</i> <i>University of Minnesota, Minneapolis, MN</i>
3:15 pm – 3:30 pm	Perioperative Outcomes: Anesthesia & Analgesia <i>Paloma Toledo, MD, MPH</i> <i>Northwestern University, Chicago, IL</i>
3:30 pm – 3:45 pm	Moderated Discussion and Q&A

3. Panel: Frailty and Perioperative Care: Assessment, Optimization, Outcomes and Shared Decision Making

Moderator: *Daniel McIsaac, MD, MPH, FRCPC, University of Ottawa, Ottawa, Ontario*

2:30 pm – 2:42 pm	Perioperative Frailty-The why and how of adverse outcomes <i>Daniel McIsaac, MD, MPH, FRCPC</i> <i>University of Ottawa, Ottawa, Ontario</i>
2:42 pm – 2:54 pm	Preoperative frailty assessment-an evidence-based approach <i>Sylvie Aucoin, DM, MSc, FRCPC</i> <i>University of Ottawa, Ottawa, Ontario</i>
2:54 pm – 3:06 pm	Evidence-based optimization of surgical patients with frailty <i>Daniel McIsaac, MD, MPH, FRCPC</i> <i>University of Ottawa, Ottawa, Ontario</i>
3:06 pm – 3:18 pm	Shared decision making for vulnerable patients before surgery <i>Laura Boland, MSc, PhD(c)</i> <i>University of Ottawa, Ottawa, Ontario</i>
3:18 pm – 3:30 pm	Moderated Discussion and Q&A

4. American Society of Anesthesiologists (ASA) Sponsored Campfire Session: Incorporating Diversity and Inclusion in Anesthesiology programs - Residents and Faculty

Moderator: *Tracey Straker, MD, MS, MPH, FASA, Montefiore Medical Center, Bronx, NY*

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



FINAL PROGRAM

2:30 pm – 2:36 pm	The State of Disparities in Anesthesiology <i>Vilma Joseph, MD, MPH, Albert Einstein School of Medicine, Bronx, NY</i>
2:36 pm – 2:40 pm	Incorporating Diversity and Inclusion in Anesthesiology Programs – Residents and Faculty <i>Tracey Straker, MD, MS, MPH, FASA, Montefiore Medical Center, Bronx, NY</i>
2:40 pm – 2:45 pm	Recruiting & Retaining a Diverse Anesthesiology Department: Representation Matters <i>Valerie Armstead, MD, Temple University Lewis Katz School of Medicine, Philadelphia, PA</i>
2:45 pm – 2:50 pm	The Resident Physician (Tomorrow's Hope) <i>Alexandra Bastien, MD, Montefiore Medical Center, Bronx, NY</i>
2:50 pm – 3:30 pm	Discussion with Audience Participation

5. Panel: To study the Underlying Mechanism of Postoperative Delirium: Establishment of Clinically Relevant Animal Models

Moderator: *Zhongcong Xie, MD, PhD, Massachusetts General Hospital, Boston, MA*

2:30 pm – 2:45 pm	Opportunities and challenges: preclinical studies on postoperative delirium <i>Deborah Culley, MD Brigham and Women's Hospital, Boston, MA</i>
2:45 pm – 3:00 pm	Animal models for or animal models of <i>Mark Baxter, PhD Icahn School of Medicine at Mount Sinai, New York, NY</i>
3:00 pm – 3:15 pm	Animal study of delirium: can we really do it? <i>Zhongcong Xie, MD, PhD Massachusetts General Hospital, Boston, MA</i>
3:15 pm – 3:30 pm	Moderated Discussion and Q&A

6. Panel: Socioeconomics and Outcomes in Healthcare with Focus on COVID

Moderator: *Brigid Flynn, MD, University of Kansas, Kansas City, MO*

2:30 pm – 2:40 pm	Socioeconomic Position and Healthcare <i>Elizabeth Cotter, MD, University of Kansas, Kansas City, MO</i>
2:40 pm – 2:50 pm	SARS-CoV2 Infection and Socioeconomic Position <i>Ibukunoluwa Adeleke, MD, Northwestern University, Chicago, IL</i>
2:50 pm – 3:00 pm	COVID19, Pregnancy, Children and Socioeconomic Position <i>Brent Kidd, MD, University of Kansas, Kansas City, MO</i>

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



FINAL PROGRAM

3:00 pm – 3:10 pm Geography and COVID
Vivek Moitra, MD, Columbia University Medical Center, New York, NY

3:10 pm – 3:30 pm Moderated Discussion and Q&A

Break

3:30 pm – 3:40 pm

Diversity: Healthcare Equity and Disparities of Care Symposium

3:40 pm – 4:40 pm ET

Moderator: Matthew Wixson, MD, University of Michigan, Rochester, MN

3:40 pm – 4:02 pm ET Using Modifiable Risk Factors to Predict and Address Disparities in Breast Cancer Care
*Oluwadamilola "Lola" Fayanju, MD, MA, MPHS
Duke University School of Medicine*

4:02 pm – 4:24 pm ET (In)equity, Diversity, Inclusion, and Belonging in Anesthesiology: Epistemic and Ontological Shifts
*Gianni R. Lorello BSc, MD, MSc (Med Ed), CIP, FRCPC
Toronto Western Hospital - University Health Network*

4:24 pm – 4:40 pm ET Moderated Discussion and Q&A

Evening Networking Opportunity/Meet the Experts Sessions

4:45 – 6:00 pm

11. Application of Your First NIH Grant
Zhongcong Xie, MD, PhD, Massachusetts General Hospital and Harvard Medical School

12. Education
Dawn Dillman, MD, Oregon Health & Science University

13. Machine Learning Applied to Perioperative Care: Pitfalls & Opportunities
Michael Mathis, MD, University of Michigan Medicine

14. Out of OR Emergency Airway Management
Kunal Karamchandani, MD, FCCP, Penn State Health Milton S. Hershey Medical Center

15. Perioperative Management of Patients Undergoing Thoracic Endovascular Repairs!
Harendra Arora, MD, MBA, University of North Carolina Healthcare

16. Right Heart Failure: How to Diagnose in the OR

INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

VIRTUAL ANNUAL MEETING | MAY 15 – 16, 2021



FINAL PROGRAM

Andre Denault, MD PhD, Montreal Heart Institute

17. Sexual Harassment in Medicine

Brigid Flynn, MD, University of Kansas

18. Health, Equity, Diversity & Inclusion

Valerie Armstead, MD, Temple University Lewis Katz School of Medicine

19. Metrics for Success, Strategic thinking for Culture Change, and Making Yourself Present and More Valuable to your Hospital

Miguel Cobas, MD, Jackson Health Systems

20. Opportunities in Critical Care and Academic Anesthesiology

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

21. Perioperative Neurocognitive Disorders (including delirium), and their Relationship with Alzheimer's Disease and Related Dementias

Miles Berger, MD, PhD, Duke University Medical Center

22. Postoperative Delirium

Deborah Culley, MD, Brigham and Women's Hospital

23. Using EEG Information to Guide Intraoperative Pharmacologic Decision-Making

Paul Garcia, MD, PhD, Columbia University