

DEPARTMENT OF ANESTHESIOLOGY

VANDERBILT UNIVERSITY  
MEDICAL CENTER

# 2021 ASA MEETING COMPANION

THIS MEETING COMPANION REPRESENTS OUR DEPARTMENT'S CONTRIBUTIONS AS ACCEPTED BY THE ASA FOR ITS ANNUAL MEETING. CHANGES IN CIRCUMSTANCES AFTER THE TIME OF PUBLICATION MAY IMPACT THE ACCURACY OF THE INFORMATION. FOR THE MOST UP-TO-DATE LISTING OF ACTIVITIES AND EVENTS, PLEASE REFER TO OFFICIAL ASA MATERIALS.



the  
**ANESTHESIOLOGY**<sup>®</sup>  
annual meeting  
American Society of Anesthesiologists<sup>®</sup>  
SAN DIEGO | OCTOBER 8-12, 2021

ALL IN-PERSON EVENTS ARE AT  
THE SAN DIEGO CONVENTION CENTER  
111 W HARBOR DRIVE  
SAN DIEGO, CA 92101  
(UNLESS OTHERWISE NOTED)

# MESSAGE FROM THE CHAIR



Congratulations to this year's 2021 ASA participants! Herein, we have compiled a guide to Vanderbilt's activities at the ANESTHESIOLOGY® 2021 annual meeting. To the many contributing Vanderbilt University Medical Center faculty, CRNAs, residents, fellows and staff, whether you're virtually attending the meeting, attending in-person, or tending our fundamental clinical mission, thank you.

The ANESTHESIOLOGY® 2021 annual meeting provides us the unique opportunity to learn about and, of course, present cutting edge technology and research in every area of our specialty. I encourage you to network with national and international colleagues as you participate in the scientific and educational sessions. It is through collaboration that we attain the highest levels of success in our rapidly evolving field.

I hope you will find the presentations motivating and inspiring as you embark upon new ideas in research, education and perioperative care. And remember to express your sincere thanks to the dedicated members of the department who make our participation in such meetings possible.

**Warren S. Sandberg, MD, PhD**  
**Chair, Department of Anesthesiology, Vanderbilt University Medical Center**  
**Chief of Staff, Vanderbilt University Adult Hospital**  
**Professor of Anesthesiology, Surgery and Biomedical Informatics, Vanderbilt University School of Medicine**

## SATURDAY, OCTOBER 9

**60 Minute Panel: *Building a More Robust NACOR "Version 2.0" Using Electronic Medical Records to Use for Performance Measurement and Performance Improvement***  
7:45 a.m. - 8:45 a.m. | Upper 26AB | Jonathan Wanderer, MD, MPhil

**Snap-Talk: *Postoperative Enhanced Recovery Elements and Pain Control: Evidence and Tips for Success***  
7:45 a.m. - 8:45 a.m. | Upper 5AB | Andrew Franklin, MD, MBA

**Snap-Talk: *Tackling the Top Patient Safety Problems in Your Practice: Recommendations From the ASA Patient Safety Editorial Board***  
7:45 a.m. - 8:45 a.m. | Upper 3 | Moderator: Jane Easdown, MD

**eAbstracts: *Prevalence of Chronic Pain and Associated Factors in Three Guatemala Cities***  
7:45 a.m. - 3:00 p.m. | Virtual | Camila Walters, MD, Jonathan Niconchuk, MD

**eAbstracts: *Developing a Risk Stratification Tool for Predicting Naloxone Administration After Non-cardiac Surgery***  
7:45 a.m. - 3:00 p.m. | Virtual | Miklos Kertai, MD, PhD

**eAbstracts: *Assessing Effects of the Covid-19 Pandemic on Surgical Care and Perioperative Outcomes at Six East African Hospitals***

7:45 a.m. - 3:00 p.m. | Virtual | Mark Newton, MD, Bantayehu Sileshi, MD

**eAbstracts: *Feasibility Analysis of a Mobile Quizzing System to Augment In-person Training for Multidisciplinary Learners in Kenya***

7:45 a.m. - 3:00 p.m. | Virtual | J. Matthew Kynes, MD, Leslie Fowler, EdD, Mark Newton, MD, Matthew McEvoy, MD

**Problem-Based Learning Discussions: *It's Just a Cataract: How a Simple Thing Can Go Bad***

10:15 a.m. - 11:15 a.m. | Mezzanine 16AB | Michael Pilla, MD

**Snap Talk: *Perioperative  $\beta$  Blockade - Are We Still Afraid of It?***

10:15 a.m. - 11:15 a.m. | Upper 25ABC | Miklos Kertai, MD, PhD

**Hands-on Workshop: *Point-of-Care: Novel Use of Ultrasonography in Everyday Pediatric Anesthesia - Vascular Access***

1:00 p.m. - 4:00 p.m. | Upper 30DE | Genevieve Staudt, MD

**Medically Challenging Cases: *Resection of Recurrent Medullary Thyroid Cancer Complicated by Carotid Artery Injury, Repeat Sternotomy, and Postoperative Stroke***

1:00 p.m. - 1:10 p.m. | Exhibit Hall | Alexander Kieber, MD

**Oral Presentations: *Diagnosing Obstructive Shock Through Intravenous Waveform Analysis in a Rat Model***

1:15 p.m. - 2:15 p.m. | Virtual | Matthew Barajas, MD, Matthias Riess, MD, PhD, Susan Eagle, MD

**Special Meetings/Featured Lectures/Sessions: *Perioperative Clinician Wellbeing: Why Is This a Patient Safety Issue?***

1:15 p.m. - 2:15 p.m. | Upper 20ABC | Lead Speaker: Matthew Weinger, MD

**Medically Challenging Cases: *Surprising Hemodynamics in Pheochromocytoma Resection Despite "Adequate Blockade"***

1:50 p.m. - 2:00 p.m. | Exhibit Hall | Mark Rice, MD

**Subspecialty Panels: *Telemedicine for Pre-anesthesia Evaluation***

2:30 p.m. - 3:30 p.m. | Upper 6C | Jonathan Wanderer, MD, MPhil

**Subspecialty Panels: *Disparities in Maternal Outcomes***

2:30 p.m. - 3:30 p.m. | Upper 8 | Lead Speaker: Edward Yaghmour, MD

**Hands-on Workshop: *Advanced Pediatric Ultrasound-Guided Regional Anesthesia Workshop***

3:30 p.m. - 5:00 p.m. | Upper 30ABC | Andrew Franklin, MD, MBA

**Problem-Based Learning Discussions: *My Elderly Patient Has Failed to Fully Wake Up After Surgery - What Went Wrong?***

3:45 p.m. - 4:45 p.m. | Mezzanine 16AB | Jane Easdown, MD

**Problem-Based Learning Discussions: *Regional Anesthesia for Lower Extremity Surgery in the Patient with Co-morbid Disease***

3:45 p.m. - 4:45 p.m. | Mezzanine 16AB | Clifford Bowens, MD

**60 Minute Panel: *Review of Glucose Measurement and Devices***

3:45 p.m. to 4:45 p.m. | Upper 6B | Mark Rice, MD

## **SUNDAY, OCTOBER 10**

**Problem-Based Learning Discussions: *Is My Patient Suitable for Ambulatory Outpatient Surgery? How to Balance Morbid Obesity, Obstructive Sleep Apnea, Diabetes, and Opiates in the Ambulatory Surgical Patient***

7:30 a.m. to 8:30 a.m. | Mezzanine 16AB | Michael Pilla, MD

**Medically Challenging Cases: *A 48-year-old Woman with Post-obstructive Diuresis in the Post-anesthesia Care Unit***

7:50 a.m. - 8:00 a.m. | Exhibit Hall | Sarah Stender, MD, Jeanette Bauchat, MD

**Medically Challenging Cases: *Management of the Difficult Airway in Obstetric Patients for Cesarean Delivery***

8:00 a.m. - 8:10 a.m. | Exhibit Hall | Olivia Valencia, MD, Britany Raymond, MD, Jeanette Bauchat, MD

**Problem-Based Learning Discussions: *Regional Anesthesia for Lower Extremity Surgery in the Patient with Co-morbid Disease***

8:45 a.m. - 9:45 a.m. | Mezzanine 16AB | Clifford Bowens, MD

**Snap-Talk: *Choosing the Right Patient: Clinical Pearls of Same-day Joint Surgery***

8:45 a.m. - 9:45 a.m. | Upper 3 | Rajnish Gupta, MD

**Special Meetings/Featured Lectures/Sessions: *Protection of Mouse Coronary Artery Endothelial Cells Against Simulated Ischemia/Reperfusion Injury by Newly Designed Di-block Copolymer-based Cell Membrane Stabilizers***

9:45 a.m. - 11:45 a.m. | Upper 9 | Matthias Riess, MD, PhD, Matthew Barajas, MD

**Oral Presentations: *A Systematic Review and Meta-analysis on the Prevalence of Pediatric Chronic Pain in Low- and Middle-Income Countries***

10:00 a.m. - 11:00 a.m. | Virtual | J. Matthew Kynes, MD, Jonathan Niconchuk, MD, Camila Walters, MD

**Oral Presentations: *Information Management and Database Research II***

10:00 a.m. - 11:00 a.m. | Virtual | Moderators: Robert Freundlich, MD, MS, MSCI, Jonathan Wanderer, MD, MPhil



# 2021 ASA ALUMNI RECEPTION

**ROY'S RESTAURANT AT THE MARRIOTT MARQUIS  
SAN DIEGO MARINA**

October 10, 2021 | 6 p.m. to 8 p.m.

333 West Harbor Drive, San Diego, CA 92101

**Special Meetings/Featured Lectures/Sessions: *How to Get the Best Out of a Busy Mentor***  
11:00 a.m. - 12:00 p.m. | Upper 20D | Pratik Pandharipande, MD, MSCI

**Medically Challenging Cases: *Brugada Syndrome with Seizure History: How Would You Induce?***

11:10 a.m. - 11:20 a.m. | Exhibit Hall | Christy Crockett, MD

**Medically Challenging Cases: *Airway Management in a Pregnant Patient with Ludwig's Angina***

11:30 a.m. - 11:40 a.m. | Exhibit Hall | Sarah Thomas, MD, Edward Yagmour, MD

**Medically Challenging Cases: *Severe Coronary Vasospasm Following Protamine Sulfate Administration After Atrial Fibrillation Ablation***

11:40 a.m. - 11:50 a.m. | Exhibit Hall | Hannah Gray, MD, Frederick Lombard, MBChB

**Medically Challenging Cases: *Use of ECMO for Pulmonary Vascular Decompression Following Pulmonary Thromboendarterectomy Complicated by Airway Hemorrhage***

11:50 a.m. - 12:00 p.m. | Exhibit Hall | Robert Baranello, MD, Frederick Lombard, MBChB

**Point-Counterpoint: *Anesthetic Management Does Not Influence Chronic Pain and Cancer Outcomes After Surgery***

1:15 p.m. - 2:15 p.m. | Upper 5AB | Miklos Kertai, MD, PhD

**60 Minute Panel: *Standardizing Kidney Injury Outcomes for Clinical Trials of Cardiac Surgical Patients***

1:30 p.m. - 2:30 p.m. | Upper 6F | David McIlroy, MB.BS., MD, MClInEpi

**Oral Presentations: *Decision Making Strategies During Crisis Events***

2:30 p.m. - 3:30 p.m. | Virtual | Carrie Reale, MSN, Shilo Anders, PhD, Jason Slagle, PhD, Matthew Weinger, MD

**60 Minute Panel: *CEA versus CAS: Which One Is Indicated and Why?***

2:30 p.m. - 3:30 p.m. | Upper 11AB | Moderator: Michael Pilla, MD

**Medically Challenging Cases: *Modulating Music Volume in the Operating Room***

3:30 p.m. - 3:40 p.m. | Exhibit Hall | Christy Crockett, MD, Joseph Schlesinger, MD

**Problem-Based Learning Discussions: *Embolic Syndrome in Total Hip Arthroplasty Patient with Severe Ischemic Cardiomyopathy and Chronic Obstructive Pulmonary Disease***

3:45 p.m. - 4:45 p.m. | Mezzanine 16AB | Clifford Bowens, MD

**Medically Challenging Cases: *Improving Institutional Performance on Train of Four Capture Rate***

4:00 p.m. - 4:10 p.m. | Exhibit Hall | Leslie Fowler, EdD, Matthew McEvoy, MD, Amy Robertson, MD, Miklos Kertai, MD, PhD

**Medically Challenging Cases: *The Emergence Noise Reduction Quality Improvement Initiative***

4:00 p.m. - 4:10 p.m. | Exhibit Hall | Christy Crockett, MD, Elizabeth Wooten, CRNA, Veronica Nylander, DNAP, CRNA, Carrie Menser, MD

## MONDAY, OCTOBER 11

**Committee and Editorial Board Meetings: *Abstract Review Subcommittee on Equipment, Monitoring and Engineering Technology***

7:00 a.m. - 8:00 a.m. | Marriott Marquis San Diego Cardiff | Speaker: Mark Rice, MD

**Hands-on Workshop: *Ultrasound-guided Regional Anesthesia and Analgesia Techniques for Breast Surgery***

9:15 a.m. - 10:45 a.m. | Upper 28ABC | Brian Allen, MD

**60 Minute Panel: *Regional Anesthesia for Spine Surgery***

9:30 a.m. - 10:30 a.m. | Upper 7AB | Vikram Bansal, MD

**Special Meetings/Featured Lectures/Sessions: *FAER Research in Education Grant Panel***

9:30 a.m. - 10:30 a.m. | Upper 8 | Matthew McEvoy, MD

**Medically Challenging Cases: *Malignant Hyperthermia at an Ambulatory Surgery Center***

10:00 a.m. - 10:10 a.m. | Exhibit Hall | Lindsey Efird, MD, Eric Briggs, MD

**Medically Challenging Cases: *Concern for Subclinical Malignant Hyperthermia in the PACU at an Ambulatory Surgery Center***

10:40 a.m. - 10:50 a.m. | Exhibit Hall | Sara Valek, MD, Kaylyn Sachse, MD

**Medically Challenging Cases: *A Pediatric Anesthesiologist's Nightmare: Locked Out of M.R.I. Scanner with Total Loss of End Tidal CO<sub>2</sub>***

10:40 a.m. - 10:50 a.m. | Exhibit Hall | Peter Chin, MBBS, Louise Alexander, MD

**Medically Challenging Cases: *High Dose Adenosine Administration During Complex Tevar Operation***

11:00 a.m. - 11:10 a.m. | Exhibit Hall | Lindsey Efird, MD, Kara Siegrist, MD

**Medically Challenging Cases: *Intraoperative Diagnosis and Management of Hypoglycemic Diabetic Ketoacidosis***

11:10 a.m. - 11:20 a.m. | Exhibit Hall | Matthew Roi, MD, Meredith Kingeter, MD

**Medically Challenging Cases: *Deep Extubation in a Patient with Idiopathic Angioedema and Intubation-associated Post Traumatic Stress Disorder***

11:10 a.m. - 11:20 a.m. | Exhibit Hall | Andrew Pisansky, MD

**Medically Challenging Cases: *Cardiopulmonary Bypass Considerations in a Patient with Sickle Cell Disease: A Multidisciplinary Approach***

1:00 p.m. - 1:10 p.m. | Exhibit Hall | Amy Zhang, MD, Heidi Smith, MD

**Medically Challenging Cases: *Eclamptic Seizure Prophylaxis in Patients with Renal Failure***

1:00 p.m. - 1:10 p.m. | Exhibit Hall | Rudo Goto, MD, Jeanette Bauchat, MD

**Medically Challenging Cases: *Takotsubo Cardiomyopathy After Coronary Bypass Grafting—Could Coronary Vasospasm Be the Culprit?***

1:30 p.m. - 1:40 p.m. | Exhibit Hall | Caroline Ruminski, MD, Susan Eagle, MD

**Medically Challenging Cases: *Management of a Thoracic Tumor Resection in a Patient with Dysautonomia Requiring Prone One-lung Ventilation***

1:40 p.m. - 1:50 p.m. | Exhibit Hall | Maxwell James, MD, Sheena Weaver, MD

**Medically Challenging Cases: *Irretrievable Esophageal Foreign Body in a Pediatric Patient at an Ambulatory Surgery Center***

1:40 p.m. - 1:50 p.m. | Exhibit Hall | Christy Crockett, MD, Elisabeth Hughes, MD

**Problem-Based Learning Discussions: *My Elderly Patient Has Failed to Fully Wake Up After Surgery - What Went Wrong?***

1:15 p.m. - 2:15 p.m. | Mezzanine 16AB | Jane Easdown, MD

**Problem-Based Learning Discussions: *Emboic Syndrome in Total Hip Arthroplasty Patient with Severe Ischemic Cardiomyopathy and Chronic Obstructive Pulmonary Disease***

1:15 p.m. - 2:15 p.m. | Mezzanine 16AB | Clifford Bowens, MD

**Oral Presentations: *Recurarization After Sugammadex Dosing in the Pediatric Population - The Patients Are Weak But the Evidence is Strong***

1:15 p.m. - 2:15 p.m. | Virtual | Alex Baumgarten, MD, Amanda Lorinc, MD

**Problem-Based Learning Discussions: *It's Just a Cataract: How a Simple Thing Can Go Bad***

2:30 p.m. - 3:30 p.m. | Mezzanine 16AB | Michael Pilla, MD



**Snap-Talk: *Pulmonary Hypertension***

2:30 p.m. - 3:30 p.m. | Upper 1AB | Christina Jelly, MD

**Medically Challenging Cases: *The Perils of Papillary Muscle Rupture - The Anesthetic Considerations and Management of Severe Mitral Regurgitation***

3:40 p.m. - 3:50 p.m. | Exhibit Hall | Meredith Kingeter, MD

**Problem-Based Learning Discussions: *Is My Patient Suitable for Ambulatory Outpatient Surgery? How to Balance Morbid Obesity, Obstructive Sleep Apnea, Diabetes, and Opiates in the Ambulatory Surgical Patient***

3:45 p.m. - 4:45 p.m. | Mezzanine 16AB | Michael Pilla, MD

**Medically Challenging Cases: *Hypermetabolism vs Malignant Hyperthermia During Craniotomy: A Diagnostic Challenge!***

3:50 p.m. - 4:00 p.m. | Exhibit Hall | Robert Baranello, MD, Letha Mathews, MD

## TUESDAY, OCTOBER 12

**60 Minute Panel: *Leveraging the EHR Reporting Infrastructure to Facilitate the Conduct of Pragmatic Clinical Trials***

7:30 a.m. - 8:30 a.m. | Upper 6C | Robert Freundlich, MD, MS, MSCI

**Clinical Forum: *Seizure During Awake Craniotomy***

10:00 a.m. - 11:00 a.m. | Upper 6B | Jane Easdown, MD

**Clinical Forum: *Complex Cardiac Patient Coming to Your OR! Case 3***

10:00 a.m. - 11:00 a.m. | Upper 6C | Miklos Kertai, MD, PhD

**Point-Counterpoint: *Tight Normoxia - A Call to Action!***

10:00 a.m. - 11:00 a.m. | Upper 24ABC | Josh Billings, MD, MSCI

**Snap-Talk: *Pathophysiology of Acute Spinal Cord Injury***

10:00 a.m. - 11:00 a.m. | Upper 1AB | Letha Mathews, MD

**60 Minute Panel: *The SCA/STA Database: What Can It Do For Me?***

1:30 p.m. - 2:30 p.m. | Upper 6A | Miklos Kertai, MD, PhD

DEPARTMENT OF ANESTHESIOLOGY

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# Academic Excellence in Action

*This guide represents our department's contribution of over 70 activities at the 2021 ASA Annual Meeting:*

*25 Medically Challenging Cases*

*12 60 Minute Panels*

*10 Problem-Based Learning Discussions*

*6 Snap-Talks*

*5 Oral Presentations*

*4 eAbstracts*

*3 Special Meetings/Featured Lectures/Sessions*

*3 Subspecialty Panels*

*3 Hands-on Workshops*

*2 Point-Counterpoints*

*1 Committee and Editorial Board Meeting*

*1 Clinical Forum*

# 2021 PARTICIPANTS

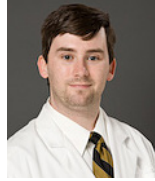
## FACULTY



Warren Sandberg, MD, PhD  
Chair, Department of Anesthesiology



Louise Alexander, MD



Brian Allen, MD



Shilo Anders, PhD



Vikram Bansal, MD



Matthew Barajas, MD



Jeanette Bauchat, MD, MS



Josh Billings, MD, MSCI



Clifford Bowns, MD



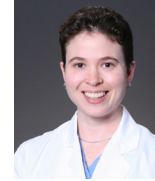
Eric Briggs, MD



Peter Chin, MBBS



Christy Crockett, MD



Susan Eagle, MD



Jane Easdown, MD



Leslie Fowler, EdD



Andrew Franklin, MD, MBA



Robert Freundlich, MD, MS,  
MSCI



Rajnish Gupta, MD



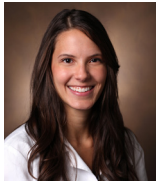
Elisabeth Hughes, MD



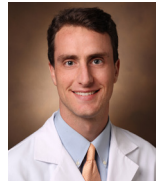
Christina Jelly, MD



Miklos Kertai, MD, PhD



Meredith Kingeter, MD



J. Matthew Kynes, MD



Frederick Lombard, MBChB



Amanda Lorinc, MD



Letha Mathews, MBBS



Matthew McEvoy, MD



David McIlroy, MB.BS., MD,  
MClinEpi



Carrie Menser, MD



Mark Newton, MD



Jonathan Niconchuk, MD



Pratik Pandharipande, MD,  
MSCI



Michael Pilla, MD



Andrew Pisansky, MD



Britany Raymond, MD



Mark Rice, MD



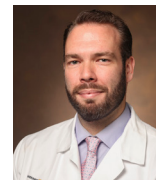
Matthias Riess, MD, PhD



Amy Robertson, MD



Kaylyn Sachse, MD



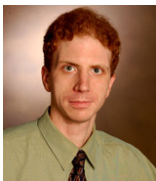
Joseph Schlesinger, MD



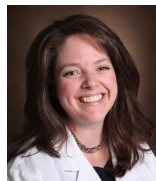
Kara Siegrist, MD



Bantayehu Sileshi, MD



Jason Slagle, PhD



Heidi Smith, MD, MSCI



Genevieve Staudt, MD



Camila Walters, MD



Jonathan Wanderer, MD,  
MPhil



Sheena Weaver, MD



Matthew Weinger, MD

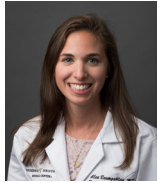


Edward Yaghmour, MD

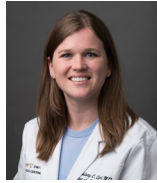
TRAINEES



Robert Baranello, MD



Alex Baumgarten, MD



Lindsey Efrd, MD



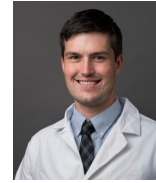
Rudo Goto, MD



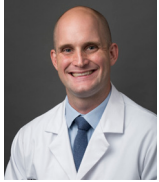
Hannah Gray, MD



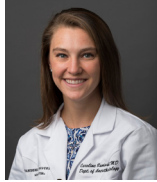
Maxwell James, MD



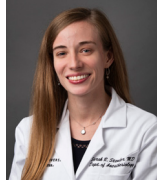
Alexander Kieber, MD



Matthew Roi, MD



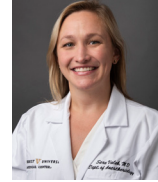
Caroline Ruminski, MD



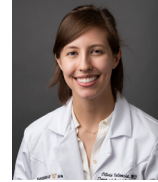
Sarah Stender, MD



Sarah Thomas, MD



Sara Valek, MD



Olivia Valencia, MD



Amy Zhang, MD

CERTIFIED REGISTERED NURSE ANESTHETISTS AND STAFF



Picture Unavailable  
Veronica Nylander, DNAP, CRNA



Elizabeth Wooten, CRNA



Carrie Reale, MSN