

ANESTHESIA MONITOR

IN THIS ISSUE

Page 2: Message from the Chair

Page 6: Toye named division chief of Pain Medicine

Page 8: Havidich to lead Division of Pediatric Anesthesiology

Page 9: Department Accomplishments

Page 10: Recent Publications

SPRING 2025

Nicole Werner named director of the Center for Research and Innovation in Systems Safety

*From VUMC NEWS article by **Erin Wides** published on March 27, 2025*

Nicole Werner, PhD, has been named director of the Center for Research and Innovation in Systems Safety (CRISS). Werner is an associate professor in the Department of Anesthesiology and comes to Vanderbilt University Medical Center from Indiana University School of Public Health-Bloomington.

CRISS uses a wide range of human factors and systems engineering, cognitive psychology, biomedical informatics and implementation science techniques to study performance during patient care. Through realistic simulations, researchers can better understand how and why care deviates from optimal. Interventions are then designed and evaluated to improve safety and care quality.

Werner said she is excited to join a center with a rich history and build on what has already been done. “I think directing the center was particularly exciting to me because I have been motivated by the idea of building capacity for human

factors and engineering methods in healthcare,” she said. “Through this center directorship, I’d be able to do that by supporting the faculty and staff in the center and by doing research in the center that spreads that throughout Vanderbilt and the country, and even the world.”

Werner’s work focuses on dementia care and care for children with complex medical conditions.

As a doctoral student, her research focused on older adults transitioning from the hospital to home. Until then, she primarily worked in clinical settings and said she was focused on patient safety and how to improve that in hospital settings.

“But when I went out in the community and saw a lot of these families who were caring for people living with dementia, it was just astonishing. The system was so poorly designed to support the care delivered in the home,” she said.

From then on, she knew she wanted to be a part of designing systems to



Nicole Werner, PhD

support these people who are the most medically complex and their families who are responsible for so much care.

Matthew Weinger, MD, was the previous director of CRISS, which he started in 2010. He said CRISS first identified Werner as a potential recruit when she was a visiting doctoral student.

Continued on page 2

MESSAGE FROM THE CHAIR

Springtime is busy for the department. From special events to new hires to ongoing achievements from current faculty and staff, we always have something to look forward to.

Two of my favorite events take place in April and May: the Dr. James Phythyon Endowed Lectureship in Pediatric Anesthesiology and the Research Symposium. Both serve as great opportunities for camaraderie among department members and a look at the latest research.

This time of year brings a new class of residents, as well as new chief residents. We appreciate the hard work of the outgoing CA-3s and chief residents and are eager to welcome the new PGY-1 class in July.

Growth continues for the hospital and department. A newly named inpatient tower, the Jim Ayers Tower, remains under construction on 21st Avenue S. The tower is named in recognition of Janet and Jim Ayers' philanthropic legacy and abiding interest in improving the health care and quality of life for Tennesseans. The Jim Ayers Tower will bring more care to patients in Middle Tennessee as well as additional clinical positions. We anticipate adding around 30 new faculty positions and 50 CRNA positions in the coming years. Looking long-term, we expect to add staff at the One Hundred Oaks Ambulatory Surgery Center (OHO ASC) and Interventional Radiology suites, which are scheduled to open in summer 2026.

We have also added coverage at the southern regional hospitals, both for OR anesthesia, and starting this summer, for critical care. Some more spring blooming! Between the regional hospital growth and the OHO ASC, we'll be providing in-house Critical Care Outreach Team (CCOT) staffing starting this winter.



Warren Sandberg, MD, PhD
Chair, Department of Anesthesiology

Werner **CRISS** *continued from page 1*

"Dr. Werner is a creative and rigorous health services researcher who has demonstrated a remarkable ability to develop productive interdisciplinary collaborations, obtain extramural funds, conduct cutting-edge science and publish in the top journals," he said.

Weinger said he's excited to turn the reins of CRISS over to a capable and accomplished researcher.

"I feel very comfortable that she will be able to take CRISS to the next level as a nationally recognized center for academic human factors and systems engineering research and practice," Weinger said.

Warren Sandberg, MD, PhD, professor and chair of the Department of Anesthesiology, said it was a "personally rewarding experience" to lead the recruitment for this role, and that he is confident the future of CRISS is secure with Werner.

"Dr. Werner's interdisciplinary credentials and stature in the field made a compelling case for a multi-center, multi-departmental recruitment at VUMC," he said. "And bringing together support from multiple centers and departments demonstrated to Nicole that we were serious about bringing her to Vanderbilt and springboarding CRISS to a new level of accomplishment."

Werner reflected on her time with CRISS as a research student and said that, while it was for a short amount of time, it had a lot of influence on her.

Connections to the Department of Biomedical Informatics and the Vanderbilt Memory and Alzheimer's Center also drew Werner to the position.

"I would love to expand the center, its reach and impact across the healthcare system at Vanderbilt," she said. "I'd really like to see the center grow; it's poised for that."

2025 Research Symposium



Anesthesiology Department Chair Warren Sandberg, MD, PhD, Benjamin Howard Robbins Visiting Professor James P. Rathmell, MD, and Anesthesiology Research Vice Chair Edward Sherwood, MD, PhD, pose for photo at symposium award ceremony.



2025-2026 Chief Residents



Paul Francois, MD



Ian Funk, MD



Faith Genereux, MD

Match Day 2025

Department of Anesthesiology – PGY-1 Class of 2025-2026



Christopher (Brett) Bankston
*McGovern Medical School at the
University of Texas
Health Science Center at Houston*



Sean Bloos
*Tulane University
School of Medicine*



Jessica Burke
*Medical College of Georgia
at Augusta University*



Courtney Burns
*University of Michigan
Medical School*



Stephanie (Steph) Cardenas
*University of Chicago
Division of the Biological Sciences
The Pritzker School of Medicine*



Bright Etumuse
*University of Texas
Medical Branch
School of Medicine*



Valeria Gamarra
*Ohio State University
College of Medicine*



Caroline Heltsley
*University of Kentucky
College of Medicine*



Natalie Jones
*Vanderbilt University
School of Medicine*



Hisham Kashif
*Medical College of Georgia at
Augusta University*



Kurt Leseberg
*University of Washington
School of Medicine*



Nicole Levine
*Tulane University
School of Medicine*



Marissa Martinelli
*University of Michigan
Medical School*



**Dorothy (Adair)
McCafferty**
*University of North Texas
Health Science Center Texas
College of Osteopathic
Medicine*



Camryn Means
*Wake Forest University
School of Medicine*



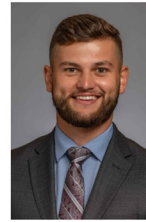
Kinza Meghani
*The University of Texas
Southwestern Medical School*



Yeong Ha Oh
*Vanderbilt University
School of Medicine*



Emma Parenteau
*Creighton University
School of Medicine-Phoenix*



Brayden Raper
*Texas A&M Health
Science Center
College of Medicine*



Andrew (Andy) Steiner
*University of Colorado
School of Medicine*



Terilyn Stephen
*University of Illinois
at Chicago
College of Medicine*

During a year with the largest resident applicant participation, our program matched 21 outstanding residency applicants from across the United States. We screened nearly 1,000 applications, conducted 160 interviews, hosted multiple virtual open houses, and had five in-person second looks.

According to the National Resident Matching Program (NRMP), this year's Match — the process of matching the preferences of applicants for United States residency positions with the preferences of residency program directors — had the highest applicant participation in its 73-year history. A total of 52,498 applicants registered for the Match, an increase of 2,085 (4.1 percent) over last year, according to NRMP.

Dr. Bradley E. Smith Endowed Lectureship on Medical Professionalism



Above: Grand Rounds speaker Kathryn Glas, MD, MBA, and Department of Anesthesiology professors and leadership pose for a photo. Glas' presentation, given on February 21, 2025, was titled "Achieving Gender Equity in Healthcare to Improve Inter-professional Interactions."

Dr. James Phythyon Endowed Lectureship in Pediatric Anesthesiology



Above: Grand Rounds speaker Aditee Ambardekar, MD, MEd, Department Chair Warren Sandberg, MD, PhD, and Phythyon family members pose for a photo. Ambardekar's presentation, given on April 18, 2025, was titled "The Evolution of Medical Education: A Role for Reflective Practice and Feedback."

Amanda Toye named division chief of Pain Medicine in the Department of Anesthesiology

*From VUMC NEWS article by **Erin Wides** published on April 7, 2025*

Amanda Toye, MD, has been named division chief of Pain Medicine in the Department of Anesthesiology at Vanderbilt University Medical Center, after serving as the interim division chief since November 2023.

Toye is an assistant professor and the clinical service chief of the Comprehensive Pain Service. She came to VUMC in 2020 after working in private practice.

Toye said being named chief of the Division of Pain Medicine is an honor.

“This role allows me to support an exceptional team of physicians and nurse practitioners, fostering an environment of collaboration and innovation,” she said. “It is an opportunity to further enhance our division’s impact on patient care and to contribute to the advancement of pain medicine through research and advocacy.”

While the department mounted a national search, Toye agreed to be the interim chief of the division.

“At the end of the day, we talked with a lot of dynamic and exciting candidates, but Dr. Toye proved the best person for the job,” said Warren Sandberg, MD, PhD, professor and chair of the Department of Anesthesiology. “While we were running the search, she showed us that she had the courage to learn on the job, and she effectively navigated some very challenging situations for the division.”

While serving as the interim chief, Toye focused on supporting physicians and nurse practitioners, ensuring they had the resources and guidance needed to provide patient-centered care.

One initiative she is particularly proud of is incorporating a pharmacist into the Pain Medicine clinic.



Amanda Toye, MD

“This has significantly enhanced our ability to manage complex medication regimens and improve patient outcomes,” Toye said. “As the division chief, I am committed to continuing this support and fostering collaborations across specialties. I look forward to advancing our practice and fellowship program and improving regional access to patient care.”

Toye plans to expand community outreach programs to educate patients and health care providers about pain management options and explore new interdisciplinary partnerships that can enhance Pain Medicine services.

Sandberg said Toye proved to be adept at managing complex interdisciplinary situations.

“She led growth in the division’s footprint and articulated a vision for education and research development in the division to match its clinical prowess,” he said.

Toye's interest in anesthesia stems from the unique blend of teamwork and technical expertise required in the operating room. She said the camaraderie among colleagues, the ability to manipulate physiology with medications, and the procedural nature of the specialty are aspects she enjoyed.

"Pain medicine captivates me due to its multidisciplinary approach and the profound

impact it has on improving patients' quality of life," Toyé said. "Our Pain Medicine Division is extraordinary, with board-certified physicians managing a range of pain symptoms and collaborating with various specialties. We utilize procedures, medications and psychological interventions, and tailor treatments to each patient's individual needs, making a tangible difference in their lives."

Stephen Bruehl one of six Vanderbilt faculty elected fellows of international scientific society

*Adapted from VUMC NEWS article by **Bill Snyder** published on March 27, 2025*

Stephen Bruehl, PhD, professor of Anesthesiology, is one of six Vanderbilt faculty members who have been elected fellows of the American Association for the Advancement of Science (AAAS).

They are among 471 scientists, engineers and innovators who have been elected to the 2024 class of AAAS Fellows across 24 disciplinary sections. One of the world's largest multidisciplinary scientific societies, the AAAS also publishes the *Science* family of journals.

The AAAS recognized Bruehl "for distinguished contributions in pain psychology, especially pertaining to complex regional pain syndrome, the role of ... the cardiovascular system in adaptation to pain, ... personalized pain medicine, and how phenotypes affect responsiveness to opioid medications."

This election brings to 109 the number of AAAS fellows who are current members of the Vanderbilt University faculty.



Seventy-seven fellows are in the *Stephen Bruehl, PhD* School of Medicine, 49 of whom have primary appointments in clinical departments based at VUMC, including Anesthesiology, Medicine and Neurology. Twenty-eight have primary appointments in basic science departments, including Cell and Developmental Biology, and Pharmacology.

Jeana Havidich to lead Division of Pediatric Anesthesiology

Article by **Erin Wides**

Jeana Havidich, MD, MS, has been named division chief of Pediatric Anesthesiology in the Department of Anesthesiology at Vanderbilt University Medical Center. She is an associate professor of Anesthesiology and assistant vice chair for Quality, Safety and Outcomes for Pediatric Services. Havidich joined Vanderbilt in October 2023.

Havidich expressed enthusiasm for the role, citing the opportunity to work with an exceptional team as a key motivator.

“This is the perfect time in my career to take on a leadership role and give back to the community,” she said. Her priorities include advancing medical science, enhancing patient and family experiences, and creating value in healthcare. She emphasized the importance of mentorship and sponsorship programs to build a resilient workforce.

“Investing in the next generation is critical to tackling today’s medical challenges,” Havidich noted, adding, “It’s an honor to lead this division and support future leaders while advancing pediatric perioperative care.”

Her passion for pediatric anesthesiology stems from her residency, where forward-thinking mentors championed specialized care for children during a time when the field was still emerging. “The progress in pediatric anesthesia, both medically and in advocacy, has been remarkable,”

Havidich said. “We must continue pushing the profession forward.”

“Dr. Havidich brings a wealth of clinical experience, passion for clinical



Jeana Havidich, MD, MS

advancement, and a track record of faculty mentorship to the Pediatric Anesthesiology Division,” said Susan Eagle, MD, professor and executive vice chair of the Department of Anesthesiology. “We are thrilled to have her join as a member of the leadership team.”

Havidich began her career at the Medical University of South Carolina (MUSC), a Level 1 Trauma Tertiary Care Center, where she held various leadership roles. In 2009, she joined Dartmouth Health and received a scholarship to The Dartmouth Institute for Health Policy and Clinical Practice, deepening her expertise in leadership and health services research.

She received a medical degree from Northeast Ohio Medical University, completed her anesthesiology residency at MUSC, and trained as a pediatric anesthesia fellow at the Mayo Clinic in Florida. She also earned a master’s degree from The Dartmouth Institute, focusing on leadership and health services research.

Department Accomplishments

Brent Dunworth, CRNA, DNP, was appointed as the director of Vanderbilt University School of Nursing's new nurse anesthesia program. The program is slated to launch in 2026.

Congratulations to **Matthew Barajas, MD**. He presented his lab work at the 2024 Resuscitation Science Symposium in Chicago, Illinois. His presentation was titled: "Cardiac Protection using Inhaled Argon during Resuscitation from Cardiac Arrest in Rats."

Congratulations to **Stephanie Woodward, MD**, on her election to the Association of Anesthesiology Subspecialty Program Directors (AASPD) as Councilor of Obstetrics. Dr. Woodward will serve a 2-year term from November 2024 to November 2026.

Robert Freundlich, MD, MS, MSCI, was featured in the first episode of the podcast series Health Data Dialogue. The series is presented by the Division of Bioinformatics & Perioperative Analytics within the Department of Anesthesiology & Perioperative Medicine at the University of California at Los Angeles (UCLA). The conversation series is intended to highlight the impact of informatics on perioperative healthcare. In this episode, Dr. Freundlich discusses the impact of informatics and precision medicine on healthcare.

Christina Jelly, MD, and **Meredith Kingeter, MD**, were both selected to attend the AAMC 2025 Early Career Women Faculty Leadership Development Seminar, which was held in Charlotte, North Carolina, in February 2025.

Donna Keeney, CRNA, DNAP, co-authored an article in the *American Association of Nurse Anesthesiology Journal*. The publication is titled: "Wellness: Optimizing Workplace Wellness for Nurse Anesthetists - Key Benefits to Consider When Choosing Employment."

Congrats to **Christina Boncyk, MD**, who was featured in the *ASA Monitor* by the Foundation for Anesthesia Education and Research (FAER). The article is titled: "Career Development through Adversity."

Letha Mathews, MBBS, is one of 25 faculty members who were inducted into Vanderbilt University School of Medicine's Academy for Excellence in Clinical Medicine (AECM) in 2024.

Congratulations to **John Corey, MD**, and **Jeremy Walker, MD**, for being recognized with the prestigious **Patient Experience Award for the Fiscal Year 2024!** This achievement is a testament to the exceptional personalized care that our teams consistently provide to our patients.

Christina Boncyk, MD, was selected as one of five researchers chosen for the prestigious and competitive *British Journal of Anaesthesia* 2025-2026 Editorial Fellowship cohort.

Bryan Marascalchi, MD, was promoted to Associate Professor of Anesthesiology.

Mias Pretorius, MBChB, MSCI, has been selected as the new VAPIR Associate Director for Quality Improvement and Safety.

Nicole Werner, PhD, has been named Director of the Center for Research and Innovation in Systems Safety (CRISS).

Amanda Toye, MD, has accepted the role of Division Chief of Pain Medicine. Dr. Toye is an assistant professor of clinical anesthesiology and the clinical service chief of the Comprehensive Pain Service.

Jeana Havidich, MD, MS, has been appointed as the Division Chief of Pediatric Anesthesiology.

Shravani Durbhakula, MD, MPH, MBA, received the 2025 ASRA Pain Medicine Excellence in Education Award. This prestigious honor recognizes her outstanding contributions to innovative educational content in the field of pain medicine.

Loren Smith, MD, PhD, has been awarded the prestigious VA Merit Award for her grant titled “Acute Kidney Injury-Associated Delirium After Cardiac Surgery in Veterans.” This clinical study aims to investigate the intricate relationships between intraoperative inflammation, acute kidney injury, and delirium in veterans undergoing cardiac surgery, thereby contributing to new insights and advancements in veteran healthcare.

Stephen Bruehl, PhD, is one of six Vanderbilt faculty members elected as a 2024 fellow of the American Association for the Advancement of Science (AAAS), recognizing his outstanding contributions to science.

Latisha Jones, from our administrative office, was promoted to Program Manager.

Recent Publications

Alahwany SH, Thind M, Uetake S, **Sileshi B**, Tandri H. Right anterolateral abdominal wall hematoma following a concealed left anterolateral accessory pathway ablation. *Heart Rhythm* O2. 2024 Sep 16;5(12):957-959. doi: 10.1016/j.hroo.2024.09.006. PMID: 39803617; PMCID: PMC11721726.

Annis AC, Gunaseelan V, Smith AV, Abecasis GR, **Larach DB**, Zawistowski M, Frangakis SG, Brummett CM. Genetic Associations of Persistent Opioid Use After Surgery Point to OPRM1 but Not Other Opioid-Related Loci as the Main Driver of Opioid Use Disorder. *Genet Epidemiol*. 2024 Oct 9. doi: 10.1002/gepi.22588. Epub ahead of print. PMID: 39385445.

Balzer C, **Eagle SS**, Baudenbacher FJ, **Riess ML**. A new method to predict return of spontaneous circulation by peripheral intravenous analysis during cardiopulmonary resuscitation: a rat model pilot study. *Intensive Care Med* Exp. 2024 Nov 12;12(1):102. doi: 10.1186/s40635-024-00679-8. PMID: 39531090; PMCID: PMC11557784.

Bendrath SC, Méndez HG, Dankert AM, Lerma-Cabrera JM, Carvajal F, Dornellas APS, Lee S, Neira S, Haun H, **Delpire E**, Navarro M, Kash TL, Thiele TE. Corticotropin-Releasing Factor Modulates Binge-Like Ethanol Drinking in a Sex- Dependent Manner: Impact of Amygdala Deletion and Inhibition of a Central Amygdala to Lateral Hypothalamus Circuit. *Biol Psychiatry Glob Open Sci*. 2024 Oct 25;5(1):100405. doi: 10.1016/j.bpsgos.2024.100405. PMID: 39660275; PMCID: PMC11629220.

Bergman ZR, Kiberenge RK, Bianco RW, Beilman GJ, Brophy CM, Hocking KM, **Alvis BD**, Wise ES. Norepinephrine Infusion and the Central Venous Waveform in a Porcine Model of Endotoxemic Hypotension with Resuscitation: A Large Animal Study. *J Invest Surg*. 2025 Dec;38(1):2445603. doi: 10.1080/08941939.2024.2445603. Epub 2025 Jan 6. PMID: 39761972.

Bhowmik S, Bronshteyn YS, **Balakrishna A**, **Bryant JM**, Chang MG, Convissar D, Grecu L, Jones M, **Jelly C**. Point-of-Care Ultrasound for Peripheral Venous-Arterial Extracorporeal Membrane Oxygenation Without Left Ventricular Venting. *J Vis Exp*. 2025 Jan 17;(215). doi: 10.3791/67712. PMID: 39895621.

Boncyk C. Career Development through Adversity. *ASA Monitor*. 2024 Dec; 88(12):36. doi: 10.1097/01.ASM.0001095376.82392.05.

Boncyk C, Devlin JW, Faisal H, Girard TD, Hsu SH, Jabaley CS, Sverud I, Falkenhav M, Kress J, Sheppard K, Sackey PV, **Hughes CG**. INhaled Sedation versus Propofol in REspiratory failure in the Intensive Care Unit (INSPIRE-ICU1): protocol for a randomised, controlled trial. *BMJ Open*. 2024 Oct 26;14(10):e086946. doi: 10.1136/bmjopen-2024-086946. PMID: 39461861; PMCID: PMC11529737.

Boncyk C, Rolfsen ML, Richards D, Stollings JL, Mart MF, **Hughes CG**, Ely EW. Management of pain and sedation in the intensive care unit. *BMJ*. 2024 Dec 9;387:e079789. doi: 10.1136/bmj-2024-079789. PMID: 39653416.

Boon JT, Failla MD, Anderson AR, Melnyk BM, **Bruehl S**, Von Ah D, Muench U, McElfresh J, Carter M, Monroe TB. A conceptual model for assessing the risk of unidentified pain. *J Pain*. 2024 Oct 25;104722. doi: 10.1016/j.jpain.2024.104722. Epub ahead of print. PMID: 39461456.

Brunker LB, Burdick KJ, Courtney MC, **Schlesinger JJ**, **Crockett CJ**. Noise, Distractions, and Hazards in the Operating Room. *Adv Anesth*. 2024 Dec;42(1):115-130. doi: 10.1016/j.aan.2024.07.009. Epub 2024 Aug 17. PMID: 39443045.

Card E, Shi Y, Adesinasi W, Shotwell M, Wells N, Hall E, Cheng J, **Sherwood E**. A Randomized Controlled Trial of 2% Chlorhexidine Gluconate Skin Preparation Cloths for the Prevention of Surgical Site Infections in Adults Undergoing Spine Surgeries: Residual Reduction in Skin Bacterial Load for 4 Days. *HCA Healthc J Med*. 2024 Oct 1;5(5):539-549. doi: 10.36518/2689-0216.1997. PMID: 39524950; PMCID: PMC11547275.

Chai T, Hartzell C, Winstead R, Krokosky K, Atchison K, Mueller A, Hall E, **Wanderer JP**, Andrews J. "Are my blood products coming?": Implementation of a novel blood product tracker in the electronic health record system. *Transfusion*. 2024 Dec 8. doi: 10.1111/trf.18089. Epub ahead of print. PMID: 39648267.

Chandrashekar AS, Mulvey HE, Mika AP, **Gupta RK**, Polkowski GG, Wilson JM, Pelt CE, Martin JR. Outpatient Total Joint Arthroplasty at an Ambulatory Surgical Center: An Analysis of Failure to Launch. *J Arthroplasty*. 2024 Nov 23;S0883-5403(24)01247-6. doi: 10.1016/j.arth.2024.11.034. Epub ahead of print. PMID: 39586405.

Chang W, Xu MR, **George A**, **Kingeter M**, **Henson CP**, **Mishra K**, Montenovo M, Rizzari M, **Siegrist K**. Hyperkalemia in liver transplantation. *J Clin Anesth*. 2025 Mar 25;103:111822. doi: 10.1016/j.jclinane.2025.111822. Epub ahead of print. PMID: 40139028.

Cheruku S, **Ende HB**, **Wanderer JP**. Less Pain with the Same Gain: Paravertebral vs. Pectoralis-II Nerve Blocks after Nonmastectomy Breast Surgery. *Anesthesiology*. 2024 Dec 1;141(6):A16. doi: 10.1097/ALN.0000000000005265. Epub 2024 Nov 7. PMID: 39715503.

Clifton J, **Woodward S**, Hardcastle S, Ziga T, Lewis A, **Ende H**, **Bauchat J**. Investigating disparity in labor epidural analgesia management in black vs. white women: a retrospective case-control study (2018-2022). *Int J Obstet Anesth*. 2025 Jan 6;61:104327. doi: 10.1016/j.ijoa.2024.104327. Epub ahead of print. PMID: 39813737.

Cohen SP, Liu WL, Doshi TL, Wang EJ, van Gelderen E, Mawalkar R, Sivanesan E, Williams KA, Christo PJ, **Durbhakula S**, Treisman G, Hsu A. Difficult Encounters in Chronic Pain Patients: A Cohort Study. *Mayo Clin Proc*. 2024 Dec 4;S0025-6196(24)00410-5. doi: 10.1016/j.mayocp.2024.08.010. Epub ahead of print. PMID: 39641718.

Connell J, Anito MF, Kageha E, Caruso TJ, Jackson C, Sund G, **Kynes JM**, Nourian MM. Virtual reality for perioperative anxiety treatment in a resource-variable setting: an observational trial. *South Afr J Anaesth Analg*. 2024 Nov;30(6):180-184.

Delpire E. Chloride-Dependent Cation Transport via *SLC12* Carriers at Atomic Resolution. *Annu Rev Physiol*. 2025 Feb;87(1):397-419. doi: 10.1146/annurev-physiol-022624-020130. PMID: 39928503.

DeMasi SC, Self WH, Aggarawal NR, April MD, Andrea L, Barnes CR, Brainard J, Blinder V, Dagan A, Driver B, Doerschug KC, Douglas I, Exline M, Fein DG, Gaillard JP, Gandotra S, Gibbs KW, Ginde AA, Halliday SJ, Han JH, Herbert T, High K, **Hughes CG**, Khan A, Latimer AJ, Maiga AW, Mitchell SH, Muhs AL,

Mohamed A, Moskowitz A, Page DB, Palakshappa JA, Prekker ME, Qian ET, Resnick-Ault D, Rice TW, Russel DW, Schauer SG, Seitz KP, Shapiro NI, Smith LM, Sottile P, Stempek S, Trent SA, Vonderhaar DJ, Walker JE, Wang L, Whitson MR, Casey JD, Semler MW; Pragmatic Critical Care Research Group. Association Between Neuromuscular Blocking Agents and Outcomes of Emergency Tracheal Intubation: A Secondary Analysis of Randomized Trials. *Ann Emerg Med.* 2024 Oct 8;S0196-0644(24)00962-4. doi: 10.1016/j.annemergmed.2024.08.509. Epub ahead of print. PMID: 39387758.

Dember LM, Hsu JY, Mehrotra R, Cavanaugh KL, Kalim S, Charytan DM, Fischer MJ, Jhamb M, Johansen KL, Becker WC, Pellegrino B, Eneanya ND, Schrauben SJ, Pun PH, Unruh ML, Morasco BJ, Mehta M, Miyawaki N, Penfield J, Bernardo L, **Brintz CE**, Cheatle MD, Doorenbos AZ, Heapy AA, Keefe FJ, Krebs EE, Kuzla N, Nigwekar SU, Schmidt RJ, Steel JL, Wetmore JB, White DM, Kimmel PL, Cukor D. Pain Coping Skills Training for Patients Receiving Hemodialysis: The HOPE Consortium Randomized Clinical Trial. *JAMA Intern Med.* 2025 Feb 1;185(2):197-207. doi: 10.1001/jamainternmed.2024.7140. PMID: 39786400.

Devlin JW, Sieber F, Akeju O, Khan BA, MacLulich AMJ, Marcantonio ER, Oh ES, Agar MR, Avelino-Silva TJ, Berger M, Burry L, Colantuoni EA, Evered LA, Girard TD, Han JH, Hosie A, **Hughes C**, Jones RN, **Pandharipande PP**, Subramanian B, Trivison TG, van den Boogaard M, Inouye SK; Network for Investigation of Delirium: Unifying Scientists (NIDUS) Writing Group. Advancing Delirium Treatment Trials in Older Adults: Recommendations for Future Trials From the Network for Investigation of Delirium: Unifying Scientists (NIDUS). *Crit Care Med.* 2025 Jan 1;53(1):e15-e28. doi: 10.1097/CCM.0000000000006514. Epub 2024 Nov 22. PMID: 39774202.

Douville NJ, Bastarache L, Bertucci-Richter E, Patil S, Jewell ES, **Freundlich RE**, **Kertai MD**, Engoren MC. Genetic variants associated with sepsis- associated acute kidney injury. *PLoS One.* 2024 Dec 5;19(12):e0311318. doi: 10.1371/journal.pone.0311318. PMID: 39636799; PMCID: PMC11620412.

Douville NJ, **Kertai MD**, Sheetz KH. Expanding the All of Us Research Platform Into the Perioperative Domain. *JAMA Surg.* 2024 Dec 18. doi: 10.1001/jamasurg.2024.2343. Epub ahead of print. PMID: 39693078.

Doyal AS, **Wanderer JP**, **Ende HB**. PONV: Genetics Takes a Back Seat to the Usual Suspects. *Anesthesiology.* 2025 Jan 1;142(1):A16. doi: 10.1097/ALN.0000000000005295. Epub 2024 Dec 6. PMID: 39714296.

Falter F, Tisherman SA, Perrino AC, **Kumar AB**, Bush S, Nordström L, Pathan N, Liu R, Mebazaa A. Serial Lactate in Clinical Medicine - A Narrative Review. *J Intensive Care Med.* 2025 Feb 10;8850666241303460. doi: 10.1177/08850666241303460. Epub ahead of print. PMID: 39925111.

Flores-Conner N, **Brazil M**, **Whittle M**, Shah A, **Jelly C**. Severe Reversible Pulmonary Hypertension in a Patient with Shone Complex Presenting for Heart Transplantation. *J Cardiothorac Vasc Anesth.* 2024 Dec 27;S1053-0770(24)01010-3. doi: 10.1053/j.jvca.2024.12.037. Epub ahead of print. PMID: 39799048.

Grae LCM, **Kertai MD**, Abrams BA. Our Mission as Cardiothoracic Anesthesiologists ... Pushing Boundaries With Novelties in Technique and Approach to Patient Care. *Semin Cardiothorac Vasc Anesth.* 2024 Dec;28(4):193-194. doi: 10.1177/10892532241298939. Epub 2024 Nov 7. PMID: 39510543.

Gu Y, Panda K, Spelde A, **Jelly CA**, Crowley J, Gutsche J, Usman AA. Modernization of Cardiac Advanced Life Support: Role and Value of Cardiothoracic Anesthesiologist Intensivist in Post-Cardiac Surgery Arrest Resuscitation. *J Cardiothorac Vasc Anesth.* 2024 Sep 24;S1053-0770(24)00646-3. doi: 10.1053/j.jvca.2024.09.019. Epub ahead of print. PMID: 39426854.

Hao D, Caja KR, McBride MA, Owen AM, **Bohannon JK**, Hernandez A, Ali S, Dalal S, Williams DL, **Sherwood ER**. Trained Immunity Enhances Host Resistance to Infection in Aged Mice. *J Leukoc Biol.* 2024 Dec 26;qiae259. doi: 10.1093/jleuko/qiae259. Epub ahead of print. PMID: 39722231.

Hees JE, Cleveland WJ, Balzer C, **Riess ML**. Inhaled Argon Dilates Pulmonary Vasculature in Rat Isolated Lungs. *Can J Physiol Pharmacol*. 2024 Oct 8. doi: 10.1139/cjpp-2024-0135. Epub ahead of print. PMID: 39378515.

Jackson SS, Pinyavat T, Bayir H, **Smith HAB**. Sedation Strategies in Pediatric Intensive Care Unit Patients: Challenges in Management. *J Neurosurg Anesthesiol*. 2025 Jan 1;37(1):119-121. doi: 10.1097/ANA.0000000000000994. Epub 2024 Dec 2. PMID: 39882893.

Karakas E, **Strange K, Denton JS**. Recent advances in structural characterization of volume-regulated anion channels (VRACs). *J Physiol*. 2025 Feb 20. doi: 10.1113/JP286189. Epub ahead of print. PMID: 39977537.

Karlson C, Dickens H, Williams-Kirkwood W, Mascaro M, Jackson E, Carullo V, McNaul M, **Morris MC**. Temporal summation of pain in sickle cell disease: comparison of adolescents and young adults with chronic vs. infrequent pain. *J Pediatr Psychol*. 2024 Nov 8;jsae090. doi: 10.1093/jpepsy/jsae090. Epub ahead of print. PMID: 39514681.

Kehinde T, Biwott J, Sund G, **Kynes JM**. Machines matter too: including biomedical engineering partnerships in global health initiatives. *Lancet Glob Health*. 2024 Nov;12(11):e1905-e1909. doi: 10.1016/S2214-109X(24)00294-8. PMID: 39424578.

Kertai MD, Monroe TB, Cowan RL, **Bruehl S**. Mild cognitive impairment and postsurgical pain in older adults: A call for research. *J Clin Anesth*. 2024 Nov 1:111669. doi: 10.1016/j.jclinane.2024.111669. Epub ahead of print. PMID: 39488443.

Kertai MD, Rayl R, **Larach DB**, Shah AS, **Bruehl S**. Predicting Extent of Opioid Use Following Cardiac Surgery: A Pilot Study. *J Cardiothorac Vasc Anesth*. 2024 Nov 29:S1053-0770(24)00938-8. doi: 10.1053/j.jvca.2024.11.037. Epub ahead of print. PMID: 39694726.

Kiskaddon AL, Andrews J, Josephson CD, **Kuntz MT**, Tran D, Jones J, Kartha V, Do NL. Forty-eight-hour cold-stored whole blood in paediatric cardiac surgery: Implications for haemostasis and blood donor exposures. *Vox Sang*. 2024 Dec 19. doi: 10.1111/vox.13786. Epub ahead of print. PMID: 39701576.

Kjar A, Haschert MR, Zepeda JC, Simmons AJ, Yates A, Chavarria D, Fernandez M, Robertson G, Abdulrahman AM, Kim H, Marguerite NT, Moen RK, Drake LE, Curry CW, O'Grady BJ, Gama V, Lau KS, **Grueter B**, Brunger JM, Lippmann ES. Biofunctionalized gelatin hydrogels support development and maturation of iPSC- derived cortical organoids. *Cell Rep*. 2024 Oct 17;43(11):114874. doi: 10.1016/j.celrep.2024.114874. Epub ahead of print. PMID: 39423129.

Klein A, **Ende HB, Wanderer JP**. Safe or Skip? Association Between Intraoperative Midazolam in Elderly Patients and Rates of Postop Delirium. *Anesthesiology*. 2025 Feb 1;142(2):A16. doi: 10.1097/ALN.0000000000005345. Epub 2025 Jan 14. PMID: 39807908.

Larach DB, Liu K, **Baker TD, Mayo G**, Edwards DA, French B, Osmundson S, Brummett CM, **Bruehl S**. Providing surgeons with feedback on their patients' postoperative home opioid consumption to limit postsurgical opioid prescribing and reduce unused pills: a pilot randomized clinical trial. *Reg Anesth Pain Med*. 2024 Oct 9:rapm-2024-105976. doi: 10.1136/rapm-2024-105976. Epub ahead of print. PMID: 39384332.

Larach DB. Comments on: Buprenorphine for acute pain in older adults: A systematic review with meta-analysis. *Pain Med*. 2024 Oct 17:pnae106. doi: 10.1093/pm/pnae106. Epub ahead of print. PMID: 39418207.

Leahy B, Haines D, Abrams B, **Gelfand BJ, Kertai MD**. A Recurring Theme: Diverse Case Management for the Cardiothoracic Anesthesiologist. *Semin Cardiothorac Vasc Anesth*. 2025 Mar;29(1):5-7. doi: 10.1177/10892532251322672. PMID: 40022288.

Lewis K, Balas MC, Stollings JL, McNett M, Girard TD, Chanques G, Kho ME, **Pandharipande PP**, Weinhouse GL, Brummel NE, Chlan LL, Cordoza M, Duby JJ, Gélinas C, Hall-Melnychuk EL, Krupp A, Louzon PR, Tate JA, Young B, Jennings R, Hines A, Ross C, Carayannopoulos KL, Aldrich JM. A Focused Update to the Clinical Practice Guidelines for the Prevention and Management of Pain, Anxiety, Agitation/Sedation, Delirium, Immobility, and Sleep Disruption in Adult Patients in the ICU. *Crit Care Med*. 2025 Mar 1;53(3):e711-e727. doi: 10.1097/CCM.0000000000006574. Epub 2025 Feb 21. PMID: 39982143.

Lewis K, Balas MC, Stollings JL, McNett M, Girard TD, Chanques G, Kho ME, **Pandharipande PP**, Weinhouse GL, Brummel NE, Chlan LL, Cordoza M, Duby JJ, Gélinas C, Hall-Melnychuk EL, Krupp A, Louzon PR, Tate JA, Young B, Jennings R, Hines A, Ross C, Carayannopoulos KL, Aldrich JM. Executive Summary of a Focused Update to the Clinical Practice Guidelines for the Prevention and Management of Pain, Anxiety, Agitation/Sedation, Delirium, Immobility, and Sleep Disruption in Adult Patients in the ICU. *Crit Care Med*. 2025 Mar 1;53(3):e701-e710. doi: 10.1097/CCM.0000000000006573. Epub 2025 Feb 21. PMID: 39982138.

Long MT, Krause BM, de Jong A, Dollerschell JT, Brewer JM, Casey JD, Gaillard JP, Gandotra S, Ghamande SA, Gibbs KW, Ginde AA, **Hughes CG**, Janz DR, Khan A, Latimer A, Mitchell S, Page DB, Russell DW, Self WH, Semler MW, Stempel S, Trent S, Vonderhaar DJ, West JR, Halliday SJ; Pragmatic Critical Care Research Group (PCCRG). Diabetes Mellitus Is Not a Risk Factor for Difficult Intubation Among Critically Ill Adults: A Secondary Analysis of Multicenter Trials. *Crit Care Med*. 2025 Jan 1;53(1):e65-e73. doi: 10.1097/CCM.0000000000006460. Epub 2024 Oct 21. PMID: 39774203.

Lonsdale H, Eagle SS, Freundlich RE. Machine Learning Modeling for American Society of Anesthesiologists Physical Status Classification Assignment in Children. *Anesth Analg*. 2025 Jan 30. doi: 10.1213/ANE.0000000000007429. Epub ahead of print. PMID: 39883588.

Lyons MM, Auckley DH, Mokhlesi B, Charchafli JG, Myers JV, Yilmaz M, Williams LM, Khan MS, Card EB, **Gelfand BJ, Pilla MA**, Loftsgard TO, Sawyer AM, Matura LA, Carlucci MA, Sahni AS, Glaser KM, Al Ghussain DE, Brock GN, Bhatt NY, Magalang UJ, Rosen IM, Gali B. Physicians-in-training and advanced practice providers perceptions in managing perioperative obstructive sleep apnea: a multi-institutional survey. *J Clin Sleep Med*. 2024 Dec 31. doi: 10.5664/jcsm.11528. Epub ahead of print. PMID: 39745490.

Makkad B, Heinke TL, Sherifdeen R, Meng ML, Kachulis B, Grant MC, Popescu WM, Brodt JL, Khatib D, Wu CL, **Kertai MD**, Bollen BA. Practice Advisory for Postoperative Pain Management of Cardiac Surgical Patients: A Report by Society of Cardiovascular Anesthesiologists. *J Cardiothorac Vasc Anesth*. 2024 Oct 16;S1053-0770(24)00798-5. doi: 10.1053/j.jvca.2024.10.014. Epub ahead of print. PMID: 39855959.

Makkad B, Heinke TL, Sherifdeen R, Meng ML, Kachulis B, Grant MC, Popescu WM, Brodt JL, Khatib D, Wu CL, **Kertai MD**, Bollen BA. Practice Advisory for Postoperative Pain Management of Cardiac Surgical Patients: Executive Summary. A Report From the Society of Cardiovascular Anesthesiologists. *J Cardiothorac Vasc Anesth*. 2024 Oct 15;S1053-0770(24)00797-3. doi: 10.1053/j.jvca.2024.10.015. Epub ahead of print. PMID: 39551694.

Makkad B, Heinke TL, Sherifdeen R, Meng ML, Kachulis B, Grant MC, Popescu WM, Brodt JL, Khatib D, Wu CL, **Kertai MD**, Bollen BA. Practice Advisory for Postoperative Pain Management of Thoracic Surgical Patients: A Report from the Society of Cardiovascular Anesthesiologists. *J Cardiothorac Vasc Anesth*. 2024 Dec 12;S1053-0770(24)00942-X. doi: 10.1053/j.jvca.2024.12.004. Epub ahead of print. PMID: 39890582.

Makkad B, Heinke TL, Sherifdeen R, Meng ML, Kachulis B, Grant MC, Popescu WM, Brodt JL, Khatib D, Wu CL, **Kertai MD**, Bollen BA. Practice Advisory for Postoperative Pain Management of Thoracic Surgical Patients: Executive Summary: A Report by Society of Cardiovascular Anesthesiologists. *J Cardiothorac Vasc Anesth*. 2024 Dec 12;S1053-0770(24)00941-8. doi: 10.1053/j.jvca.2024.12.003. Epub ahead of print. PMID: 39864980.

Mehling WE, **Brintz CE**, Hartogensis W, Wolf C, Rogers K, Adler SR, Strigo IA, Hecht FM. Development and Initial Validation of Mindfulness-Based Pain Reduction (MBPR) in Patients With Chronic Low Back Pain. *J Pain Res.* 2025 Feb 18;18:785-801. doi: 10.2147/JPR.S507003. PMID: 39991526; PMCID: PMC11846508.

Morris MC, Moradi H, Aslani M, Sun S, Karlson C, Bartley EJ, **Bruehl S**, Archer KR, Bergin PF, Kinney K, Watts AL, Huber FA, Funches G, **Nag S**, Goodin BR. Haves and have-nots: socioeconomic position improves accuracy of machine learning algorithms for predicting high-impact chronic pain. *Pain.* 2024 Oct 11. doi: 10.1097/j.pain.0000000000003451. Epub ahead of print. PMID: 39451017.

Muhs AL, Seitz KP, Qian ET, Imhoff B, Wang L, Prekker ME, Driver BE, Trent SA, Resnick-Ault D, Schauer SG, Ginde AA, Russell DW, Gandotra S, Page DB, Gaillard JP, Smith LM, Latimer AJ, Mitchell SH, Johnson NJ, Ghamande SA, White HD, Gibbs KW, Palakshappa JA, Vonderhaar DJ, Janz DR, Whitson MR, Barnes CR, Dagan A, Moskowitz A, Krishnamoorthy V, Herbert JT, April MD, Joffe AM, **Walco JP**, **Hughes CG**, Shipley JK, Maiga AW, Lloyd BD, DeMasi SC, Self WH, Rice TW, Semler MW, Casey JD; Pragmatic Critical Care Research Group. Video versus Direct Laryngoscopy for Tracheal Intubation Following Cardiac Arrest: a Secondary Analysis of the DEVICE Trial. *Chest.* 2025 Jan 11:S0012-3692(25)00004-2. doi: 10.1016/j.chest.2024.12.031. Epub ahead of print. PMID: 39805516.

Owoyemi A, Okpara E, **Salwei M**, Boyd A. End user experience of a widely used artificial intelligence based sepsis system. *JAMIA Open.* 2024 Oct 7;7(4):00ae096. doi: 10.1093/jamiaopen/00ae096. PMID: 39386065; PMCID: PMC11458550.

Owoyemi A, Osuchukwu J, **Salwei ME**, Boyd A. Checklist Approach to Developing and Implementing AI in Clinical Settings: Instrument Development Study. *JMIRx Med.* 2025 Feb 20;6:e65565. doi: 10.2196/65565. PMID: 39977249; PMCID: PMC11867147.

Peeters LD, **Grueter BA**. Wrapping Our Minds Around Perineuronal Nets: Brevican Influences Nucleus Accumbens Parvalbumin Interneuron Synaptic and Behavioral Plasticity. *Biol Psychiatry.* 2024 Nov 1;96(9):686-688. doi: 10.1016/j.biopsych.2024.08.013. PMID: 39357966.

Perkins ZM, Smith DK, Yancey PG, Linton MF, **Smith LE**. High-Density Lipoprotein Anti-Inflammatory Capacity and Acute Kidney Injury After Cardiac and Vascular Surgery: A Prospective Observational Study. *Crit Care Med.* 2024 Oct 15. doi: 10.1097/CCM.0000000000006440. Epub ahead of print. PMID: 39404489.

Pilkington M, Pentz B, Short K, Marchand T, Aziz S, Lam JY, Spencer A, Brockel MA, Else S, McLuckie D, **Franklin A**, de Beer D, Raval MV, Scott M, Brindle ME. Enhanced Recovery After Surgery (ERAS) consensus recommendations for opioid-minimising pharmacological neonatal pain management. *BMJ Paediatr Open.* 2024 Oct 8;8(1):e002824. doi: 10.1136/bmjpo-2024-002824. PMID: 39384309; PMCID: PMC11474870.

Pope JE, Deer TR, Sayed D, Antony AB, Bhandal HS, Calodney AK, Chakravarthy K, Costandi S, Diep J, **Durbhakula S**, Fishman MA, Gilligan C, Goree JH, Guirguis M, Hagedorn JM, Hunter CW, Kallewaard JW, Kapural L, Lam CM, Li S, Mayrsohn B, Nijhuis H, Nikolic S, Petersen EA, Poree LR, Puri SK, Reece DE, Rosen SM, Russo MA, Shah JM, Staats PS, Verrills P, Vu CM, Levy RM, Mekhail N. The American Society of Pain and Neuroscience (ASPN) Guidelines and Consensus on the Definition, Current Evidence, Clinical Use and Future Applications for Physiologic Closed-Loop Controlled Neuromodulation in Chronic Pain: A NEURON Group Project. *J Pain Res.* 2025 Feb 3;18:531-551. doi: 10.2147/JPR.S475527. PMID: 39926188; PMCID: PMC11804234.

Qian ET, Brown RM, Jackson KE, Wang L, Stollings JL, **Freundlich RE**, **Wanderer JP**, Siew ED, Bernard GR, Self WH, Casey JD, Rice TW, Semler MW; Pragmatic Critical Care Research Group. Normosol-R versus Lactated Ringers in the Critically Ill: A Randomized Trial. *Chest.* 2025 Feb 17:S0012-3692(25)00165-5. doi: 10.1016/j.chest.2025.02.008. Epub ahead of print. PMID: 39971001.

Rajsic S, **Ende HB, Wanderer JP**. Covert Operation: On the Hunt for Periop Stroke. *Anesthesiology*. 2025 Mar 1;142(3):A16. doi: 10.1097/ALN.0000000000005371. Epub 2025 Feb 11. PMID: 39932339.

Reece EA, **Balser JR**, Bibbins-Domingo K, Fraser CM, Fried LP, Kurth A, Parikh S, Rutta RL, Woolley M, Yamamoto KR, Zerhouni E, Zoghbi HY, Dzau VJ. Four Opportunities To Revitalize The US Biomedical Research Enterprise. *Health Aff (Millwood)*. 2025 Feb;44(2):140-147. doi: 10.1377/hlthaff.2024.01001. Epub 2025 Jan 22. PMID: 39841931.

Roberts DA, Bastarache L, He J, Lewis A, Aka IT, Shotwell MS, **Reddy SK**, Hogan KJ, Biesecker LG, **Kertai MD**. Updating probability of pathogenicity for RYR1 and CACNA1S exon variants in individuals without malignant hyperthermia after exposure to triggering anesthetics. *Pharmacogenet Genomics*. 2025 Feb 1;35(2):65-72. doi: 10.1097/FPC.000000000000551. Epub 2025 Jan 2. PMID: 39745345; PMCID: PMC11695055.

Russo EM, McCoy AB, Mize D, Osterman T, Nelson S, **Wanderer J**, Wright A. Special Issue on Informatics Education: Vanderbilt Clinical Informatics Center Education Strategy: To Infinity and Beyond! *Appl Clin Inform*. 2024 Oct 17. doi: 10.1055/a-2443-8318. Epub ahead of print. PMID: 39419263.

Rutherford ME, Stone CA, Kahwash BM, **Brazil MS, Siegrist KK**. Successful implementation of a multidisciplinary safety protocol in patients with alpha-gal syndrome receiving parenteral anticoagulation: A case series. *JCA Advances*. 2024;1(3-4):100074. ISSN 2950-5534. <https://doi.org/10.1016/j.jcadva.2024.100074>.

Salwei ME, Anders S, Reale C, Slagle JM, Ricketts T, **Weinger MB**. Evaluating the Safety and Usability of an Over-the-Counter Medical Device for Adults With Mild to Moderate Hearing Loss: Formative and Summative Usability Testing. *JMIR Hum Factors*. 2025 Jan 20;12:e65142. doi: 10.2196/65142. PMID: 39834141; PMCID: PMC11769691.

Seyi-Olajide J, Ali A, Powell WF Jr, Samad L, Banu T, Abdelhafeez H, Maswime S, Abbas A, Ademuyiwa A, Ameh EA, Abib S, Aziz T, Bickler S, Bundy D, Chowdhury TK, Echeto MA, Evans F, Gathuya Z, Gray R, Hodges S, Jamison D, Klazura G, Lakhoo K, Martin B, Meara J, Nabukenya M, **Newton M**, Ozgediz D, Rai E, Philipo GS, Sykes A, Yap A. Surgery and the first 8000 days of life: a review. *Int Health*. 2024 Nov 18;ihae078. doi: 10.1093/inthealth/ihae078. Epub ahead of print. PMID: 39552326.

Shapiro JC, Casey JD, Qian ET, Seitz KP, Wang L, Lloyd BD, Stollings JL, **Freundlich RE**, Self WH, Rice TW, **Wanderer JP**, Semler MW; Pragmatic Critical Care Research Group. Oxygen Targets for Mechanically Ventilated Adults with Sepsis: Secondary Analysis of the PILOT Trial. *J Intensive Care Med*. 2025 Jan 9;8850666241299378. doi: 10.1177/08850666241299378. Epub ahead of print. PMID: 39784122.

Shaygan L, Patel N, Kucharski D, Truxillo T, Hackman D, Sanders JA, **Kertai MD**, Grichnik K, Hensley NB, Bollen BA, Rhee AJ. Quality Improvement Methodologies: An Application in Cardiac Anesthesiology. *J Cardiothorac Vasc Anesth*. 2025 Jan 8;S1053-0770(24)01000-0. doi: 10.1053/j.jvca.2024.12.023. Epub ahead of print. PMID: 39884905.

Siemer CP, Siemer LC, Friedman AL, Alvis BD. Noninvasive Hemodynamic Monitors, What Is New and Old. *Adv Anesth*. 2024 Dec;42(1):151-170. doi: 10.1016/j.aan.2024.07.011. Epub 2024 Aug 28. PMID: 39443047.

Starnes JR, Welch W, Henderson CC, Hudson S, Risney S, Nicholson GT, Doyle TP, Janssen DR, **Londergan BP**, Parra DA, Slaughter JC, Aliyu MH, Graves JA, Soslow JH. Pulse Oximetry and Skin Tone in Children. *N Engl J Med*. 2025 Feb 12. doi: 10.1056/NEJMc2414937. Epub ahead of print. PMID: 39938116.

Steel JL, **Brintz CE**, Heapy AA, Keefe F, Cheatle MD, Jhamb M, McNeil DW, Shallcross AJ, Kimmel PL, Dember LM, White DM, Williams J, Cukor D. Adapting a pain coping skills training intervention for people with chronic pain receiving maintenance hemodialysis for end stage Kidney disease. *J Behav Med*. 2024 Dec 3. doi: 10.1007/s10865-024-00534-x. Epub ahead of print. PMID: 39627496.

Stone AL, Garber J, Walker LS. The Children's Somatic Symptoms Inventory-8: Psychometric Properties of a Brief Measure of Somatic Distress. *Children (Basel)*. 2024 Oct 30;11(11):1326. doi: 10.3390/children11111326. PMID: 39594901; PMCID: PMC11593210.

Thomas PA, Ditta PV, Stocking SQ, Webb C, Meints SM, Owens MA, Quinn T, Aroke EN, **Morris MC**, Sorge RE, Goodin BR, Overstreet DS. The effects of neighborhood disadvantage and adverse childhood experiences on conditioned pain modulation in adults with chronic low back pain. *J Pain*. 2024 Oct 16;26:104706. doi: 10.1016/j.jpain.2024.104706. Epub ahead of print. PMID: 39424112.

Torsher LC, **Banerjee A**, Pivalizza EG. New in Advances in Anesthesia. *Adv Anesth*. 2024 Dec;42(1):xxi-xxii. doi: 10.1016/j.aan.2024.07.001. Epub 2024 Aug 6. PMID: 39443054.

Umutesi G, Mizero J, Riviello R, Nshimiyiryo A, Nshunguyabahizi M, Kamau J, Munyuzangabo M, Cubaka V, Mpanumusingo E, Gatete JD, Shyirambere C, **Newton MW**, Mubiligi JM, Kateera F, **Sileshi B**. Perioperative outcomes at three rural Rwandan district hospitals: a 28-day prospective observational cohort study. *BMJ Glob Health*. 2025 Mar 12;10(3):e017354. doi: 10.1136/bmjgh-2024-017354. PMID: 40081857; PMCID: PMC11907028.

Walsh CG, Ripperger MA, Novak L, **Reale C**, **Anders S**, Spann A, Kolli J, Robinson K, Chen Q, Isaacs D, Acosta LMY, Phibbs F, Fielstein E, Wilimitis D, Musacchio Schafer K, Hilton R, Albert D, Shelton J, Stroh J, Stead WW, Johnson KB. Risk Model-Guided Clinical Decision Support for Suicide Screening: A Randomized Clinical Trial. *JAMA Netw Open*. 2025 Jan 2;8(1):e2452371. doi: 10.1001/jamanetworkopen.2024.52371. PMID: 39752160.

Wang CC, DeBose-Scarlett A, Irlmeier R, Ye F, **Siegrist K**, Shah AS, **Kingeter M**. Safe Landing: Feasibility and Safety of Operating Room Extubation in Minimally Invasive Cardiac Valve Surgery. *J Cardiothorac Vasc Anesth*. 2024 Sep 19:S1053-0770(24)00609-8. doi: 10.1053/j.jvca.2024.09.014. Epub ahead of print. PMID: 39370310.

Wilkey BJ, Elliott T, Jones TE, Vasilopoulos T, Gelzinis T, Bellomy M, Brodt JL, Knight J, Geube MA, Fox JM, Racine CL, Tawil JN, Kozarek K, Subramani S, **Siegrist KK**, Kothary P, Peng YG, Miltiades AN, McCartney SL, Bottiger BA, Martin AK. Survey of Extracorporeal Life Support Application in Lung Transplantation. *Clin Transplant*. 2025 Feb;39(2):e70094. doi: 10.1111/ctr.70094. PMID: 39918447.

Wilson JM, Booker SQ, Goodin BR, Thomas PA, Sorge RE, Quinn TL, **Morris MC**, Aroke EN, Meints SM. The Intersectionality of Chronic Pain Stigma and Racial Discrimination in Black and White Adults with Chronic Low Back Pain. *Pain Med*. 2024 Nov 9:pnae114. doi: 10.1093/pm/pnae114. Epub ahead of print. PMID: 39520539.

Yashiro K, Iwaki Y, Urata H, Kokubo M, Mori T, Sekioka Y, Isami K, Kato J, Wieting J, McGowan KM, Bridges TM, Boutaud O, Engers DW, **Denton JS**, Kurata H, Lindsley CW. Discovery of ONO-2920632 (VU6011887): A Highly Selective and CNS Penetrant TREK-2 (TWIK-Related K⁺ Channel 2) Preferring Activator *In Vivo* Tool Compound. *ACS Chem Neurosci*. 2025 Feb 21. doi: 10.1021/acchemneuro.5c00032. Epub ahead of print. PMID: 39981749.

Scan the QR code to see additional department publications.



Department Leadership



Warren Sandberg, MD, PhD
Chair, Anesthesiology;
Chief of Staff, Vanderbilt
University Hospital



Susan Eagle, MD
Executive Vice Chair,
Anesthesiology;
Executive Medical Director,
Anesthesia Perioperative Services



Mark Rice, MD
Vice Chair Emeritus



Stephen Doherty, MMHC
Department Administrator



Bret Alvis, MD
Associate Division Chief,
Anesthesiology Critical Care
Medicine



Arna Banerjee, MD, MMHC
Assistant Vice Chair,
Anesthesiology Faculty Affairs



Christopher Canlas, MD
Division Chief,
Ambulatory Anesthesiology



Gordon Davis, MD
Medical Director, Vanderbilt
Wilson County Hospital



Eric Delpire, PhD
Director, Basic Science Research;
BH Robbins Director in
Anesthesiology Research



Amanda Dickert, CRNA, DNAP
Chief CRNA;
Director, Anesthesia Advanced
Practice Nursing



Holly Ende, MD
Division Chief,
Obstetric Anesthesiology



**Robert Freundlich, MD,
MS, MSCI**
Division Chief,
Informatics Research



Brian Gelfand, MD
Vice Chair, Educational Affairs



Travis Hamilton, DO, MMHC
Assistant Vice Chair, Off-Campus
Anesthesiology Operations



Jeana Havidich, MD, MS
Division Chief,
Pediatric Anesthesiology



Douglas Hester, MD
Division Chief,
Multispecialty Anesthesiology



Christopher Hughes, MD
Division Chief, Anesthesiology
Critical Care Medicine



Miklos Kertai, MD, PhD
Vice Chair,
Perioperative Medicine



Brad Koss, CRNA, DNAP
Associate Chief CRNA



Frederick Lombard, MBChB, FANZCA
Division Chief,
Cardiothoracic Anesthesiology;
Assistant Vice Chair,
VUH Anesthesia Clinical Operations



Bevan Londergan, MD
Division Chief, Pediatric
Cardiac Anesthesiology



Thomas Long, MD
Executive Vice Chair,
Pediatric Anesthesiology;
Anesthesiologist-in-Chief,
Monroe Carell Jr. Children's
Hospital at Vanderbilt



Letha Mathews, MBBS
Division Chief,
Neuroanesthesiology



Pratik Pandharipande, MD, MSCI
Vice Chair,
Anesthesiology Faculty Affairs;
James Tayloe Gwathmey Director
in Anesthesiology



Michael Pilla MD
Director, Anesthesiology
Residency Program



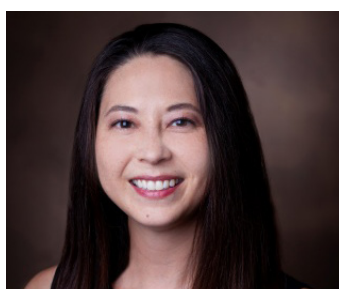
Amy Robertson, MD
Vice Chair, Clinical Affairs



Edward Sherwood, MD, PhD
Vice Chair, Research;
Cornelius Vanderbilt Chair in
Anesthesiology



Bantayehu Silesi, MD
Assistant Vice Chair,
Anesthesiology Faculty Affairs



Amanda Toye, MD
Division Chief, Pain Medicine



Ann Walia, MBBS
Chief, Veterans Affairs
Anesthesiology Service



Jackie Woodruff,
CRNA, DNAP
Associate Chief CRNA



Edward Yaghmour, MD
Assistant Vice Chair,
Perioperative Medicine;
Associate Division Chief,
Multispecialty Anesthesiology



VANDERBILT UNIVERSITY
MEDICAL CENTER

Department of Anesthesiology

**Department of Anesthesiology at
Vanderbilt University Medical Center
Office of the Chair
1211 21st Avenue South, 722 MAB
Nashville, TN 37212
615-936-1595
www.vumc.org/anesthesiology**