


**Education**




**Terminal degree:** MD  
**Year of terminal degree:** 2006,  
 Yale School of Medicine  
**Additional degree:** MSHP  
**Year of additional degree:** 2013,  
 University of Pennsylvania

**Faculty appointments**




**Primary appointment:**  
 David E. Longnecker Associate  
 Professor of Anesthesiology &  
 Critical Care, University of  
 Pennsylvania  
**Secondary appointment:**  
 Associate Professor of Epidemiology

**Medical practice**



**Board certification:**  
 Anesthesiology (2011-2031)  
 Critical Care Medicine (2011-2031)  
**Medical license:** PA MD438631  
**Years in practice:** 12

**External committee service**




**International committees:** 2  
**National committees:** 14  
 NIH study section member (SIHH)

**Local service**




**University committees, #:** 1  
**School/hospital committees, #:** 5  
**Department committees, #:** 4

**Local teaching**




**Training programs supported, #:** 6  
**Courses directed (current), #:** 3  
**Recurring lectures, #:** 3  
**Non-recurring lectures  
 in past 3 years, #:** 17

**Editorial positions**




**Editorial board memberships:**  
*Anesthesiology (associate editor),  
 Critical Care Medicine, Global  
 Implementation Research and  
 Applications (associate editor)*  
**Ad-hoc review journals, #:** 35

**Invited lectures (external)**




**Total invited lectures/talks, #:** 135  
**Grand Rounds & visiting professor  
 lectures, #:** 46  
**Keynote, plenary, named, or  
 endowed lectures, #:** 12

**Grants**



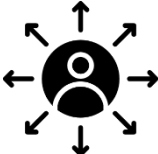
**Lifetime grant funding as PI/Co-PI:**  
 \$30,308,617  
**Current funding as PI/Co-PI:**  
 \$28,950,657  
**Grants with effort, #:** 11 (0.91 FTE)  
**Pending grants with effort, #:** 5

**Publications**




**Total publications, #:** 164  
**Peer-reviewed research pubs, #:** 81  
**Other peer-reviewed pubs, #:** 19  
**1<sup>st</sup>/senior/sole author pubs, #:** 87  
**Pubs since last promotion, #:** 73  
 (Abstracts excluded)

**Impact & leadership**



**h-index:** [28](#), [18](#) | **i-10 index:** [57](#)  
**RCR (research):** 2.55  
**Local leadership:** Executive Director,  
 PISCE@LDI; Vice Chair of Inclusion,  
 Diversity, and Equity  
**External leadership:** Vice President,  
 Anesthesia Patient Safety Foundation;  
 Board of Directors, Foundation for  
 Anesthesia Education & Research;  
 NASEM New Voices member (21-23)

**Mentees**



**Lifetime mentees, #:** 86  
 (excludes students, advisees,  
 research assistants)  
**Research mentees, #:** 76  
**Current primary or co-primary  
 mentees, #:** 17

- Instructors & faculty: 6
- PhD students, postdoctoral fellows: 2
- Residents, medical students: 5
- Undergraduate students: 4

UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE  
Curriculum Vitae

**Meghan Brooks Lane-Fall, MD, MSHP, FCCM**

**Office Address:** 309 Blockley Hall, 423 Guardian Drive, Philadelphia, PA 19104-4865 USA  
**Electronic mail:** [laneme@penntermine.upenn.edu](mailto:laneme@penntermine.upenn.edu)  
**Websites:** <https://www.med.upenn.edu/apps/faculty/index.php/g275/p8132810>  
<http://www.lanefall.info> (personal); <http://www.hatricc.us> (HATRICC-US study)  
**Citizenship status:** U.S. citizen  
**Previous name:** Meghan Brooks Lane  
**ORCID:** [0000-0001-7050-0017](https://orcid.org/0000-0001-7050-0017)

**PERSONAL STATEMENT**

I am a practicing physician-scientist with training in anesthesiology and critical care medicine who has been committed to the advancement of patient safety for fifteen years. My research agenda is centered on the rigorous study of strategies to support the safe and high-quality care of hospitalized patients. I employ principles from implementation science and human factors engineering, including qualitative and mixed methods, to promote the uptake and effective use of evidence-based practice in acute care. As a leader in implementation science, I work to advance the field through collaborative projects, advancing methodology, and building capacity. As a research mentor, I work with undergraduate, graduate, and post-graduate students, fellows, and early-stage faculty to build their capacity to conduct impactful, paradigm-shifting health services research. As a vice chair in anesthesiology, I foster inclusion, diversity, and equity in my department and in academic medicine more broadly through recruitment, retention, education, and professional development efforts, and by working with institutional partners to affect structural changes to ensure equity in the workplace and in clinical care.

**EDUCATION**

2001 AB with High Distinction (magna cum laude), University of California, Berkeley  
Majors: Molecular and Cell Biology – Cell and Developmental Biology  
Interdisciplinary Studies Field Major – Human Sexuality  
2006 MD, Yale University School of Medicine  
2013 MS in Health Policy Research, Perelman School of Medicine, University of Pennsylvania

**POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS**

2006-10 Categorical Resident in Anesthesiology, Hospital of the University of Pennsylvania  
2010-11 Fellow in Critical Care Medicine (Anesthesiology), Hospital of the University of Pennsylvania  
2011-13 Postdoctoral Research Fellow, Department of Anesthesiology and Critical Care, Perelman School of Medicine, University of Pennsylvania  
2011-13 Fellow, Center for Healthcare Improvement and Patient Safety, Perelman School of Medicine, University of Pennsylvania  
2015 Systems Engineering in Patient Safety Short Course, University of Wisconsin at Madison  
2016-17 National Institutes of Health/National Heart, Lung, and Blood Institute Programs to Increase Diversity Among Individuals Engaged in Health-Related Research – Research in Implementation Science for Equity  
2022 Qualitative Comparative Analysis (QCA), Summer School in Social Science Methods, Università della Svizzera italiana, Lugano, Switzerland  
2023 Introduction to Causal Data Analysis and Modeling with Coincidence Analysis (CNA), Prague University of Economics and Business, Prague, Czechia (course taught by University of Bergen faculty)

**ACADEMIC APPOINTMENTS**

2011-13 Clinical Associate (Instructor) in Anesthesiology, University of Pennsylvania  
2013-20 Assistant Professor of Anesthesiology and Critical Care at the Perelman School of Medicine, University of Pennsylvania  
2014- Senior fellow, Leonard Davis Institute of Health Economics, University of Pennsylvania  
2014-16 Associated faculty, Center for Integrative Science in Aging, Penn Nursing Science

- 2016-22 Co-director, Penn Center for Perioperative Outcomes Research and Transformation
- 2016-20 Assistant Director, Penn Center for Healthcare Improvement and Patient Safety
- 2016-18 Visiting Scholar, Christiana Care Health System Value Institute
- 2018- Core faculty, Cardiovascular Outcomes, Quality, and Evaluative Research (CAVOQER) Center, University of Pennsylvania
- 2019-21 Co-Medical Director, Trauma Surgery Intensive Care Unit, Penn Presbyterian Medical Center
- 2019- Senior Scholar, Penn Injury Science Center
- 2019- Senior Scholar, Penn Center for Clinical Epidemiology and Biostatistics, Clinical Epidemiology Unit
- 2019-20 Assistant Professor of Epidemiology at the Perelman School of Medicine, Department of Biostatistics, Epidemiology, and Informatics (secondary appointment)
- 2020- **David E. Longnecker Associate Professor of Anesthesiology and Critical Care at the Perelman School of Medicine, University of Pennsylvania (primary appointment)**
- 2020 Founder and Co-Medical Director, COVID-19 Perioperative ICU, Hospital of the University of Pennsylvania
- 2020- Associate Professor of Epidemiology at the Perelman School of Medicine (secondary appointment)
- 2020- Affiliated faculty, Palliative and Advanced Illness Research (PAIR) Center, University of Pennsylvania (Core faculty, 2017-2020)
- 2020-22 Director of Research and Scholarship, Penn Center for Healthcare Improvement and Patient Safety
- 2020-22 Director of Acute Care Implementation Research, Penn Implementation Science Center at the Leonard Davis Institute of Health Economics, University of Pennsylvania
- 2020- Vice Chair of Inclusion, Diversity, and Equity and member of Anesthesia Leadership Team, Department of Anesthesiology and Critical Care, University of Pennsylvania
- 2022- Executive Director of the Penn Implementation Science Center at the Leonard Davis Institute of Health Economics
- 2023- Co-lead, Accelerate Health Equity, University of Pennsylvania/Independence Blue Cross

#### **LICENSURE AND SPECIALTY CERTIFICATION**

- 2009-24 Pennsylvania State Board of Medicine (PA MD438631)
- 2011-26 Drug Enforcement Administration
- 2011-31 American Board of Anesthesiology; participating in Maintenance of Certification
- 2011-31 American Board of Anesthesiology (Critical Care Medicine)
- 2011 Advanced Cardiovascular Life Support
- 2012 Institute for Healthcare Improvement Open School Certificate of Completion
- 2014-16 Advanced Trauma Life Support
- 2020-22 New Jersey Office of General Counsel Emergency Medical License (COVID-19 related)

#### **AWARDS, HONORS AND MEMBERSHIP IN HONORARY SOCIETIES**

- 1998 Harper Puziss Scholarship, University Students' Cooperative Association
- 1998 Undergraduate Research Apprenticeship Program, UC Berkeley
- 2000 American Heart Association Western Undergraduate Research Program
- 2001 Phi Beta Kappa academic honor society, UC Berkeley
- 2002-06 Special Scholarship, Yale University School of Medicine
- 2003 Summer Research Fellowship, Yale University School of Medicine
- 2005 Short-term Research Fellowship, Yale University School of Medicine
- 2006 Alpha Omega Alpha medical honor society (lifetime member), Yale University School of Medicine
- 2007-12 Dripps Scholarship, Department of Anesthesiology and Critical Care, University of Pennsylvania
- 2008 American Society of Anesthesiologists Committee on Professional Development Mentorship Award
- 2011 Philadelphia County Medical Society Vanitha Appadorai Vaidya, MD Award for Humaneness in Medicine (Honorable Mention)
- 2011 AcademyHealth/Aetna Foundation Minority Scholars Program
- 2011 Fellow of the Year, Rhoads 5 Surgical Intensive Care Unit, Hospital of the University of Pennsylvania
- 2011 Patient Safety Advocate Award, Hospital of the University of Pennsylvania
- 2014 Nomination for Best Professor, Brain and Behavior Part 2, Perelman School of Medicine

- 2015 Elected to membership, Association of University Anesthesiologists
- 2016 University of Pennsylvania Health System Overall Winner for Quality and Patient Safety Award, Handoffs and Transitions in Critical Care (Team Lead)
- 2017 Fellow's Teaching Award for Clinical Excellence in Critical Care Teaching, University of Pennsylvania Medical Center Division of Traumatology and Surgical Critical Care
- 2018-19 Top Peer Reviewer in Clinical Medicine, Publons, Web of Science Group
- 2019- Fellow, American College of Critical Care Medicine
- 2019 Emerging Scholar, Leonard Davis Institute of Health Economics, University of Pennsylvania
- 2020 Installed as the David E. Longnecker Associate Professor of Anesthesiology and Critical Care
- 2020 Nominated for the Boards of Directors of the Foundation of Anesthesia Education and Research (FAER) and the American Board of Anesthesiology; elected to FAER Board
- 2020 Elected to scientific honor society Sigma Xi
- 2021 National Academies of Science, Engineering, and Medicine New Voices Program, 2021-23 cohort
- 2022 Society of Critical Care Medicine Presidential Citation for service to SCCM
- 2022 Crawford Long Annual Lecturer, Emory University Department of Anesthesiology
- 2022 Fellow's Teaching Award for Clinical Excellence in Critical Care Teaching, University of Pennsylvania Medical Center Division of Traumatology and Surgical Critical Care
- 2022 Nominated for 2023 Miegunyah Distinguished Visiting Fellowship, University of Melbourne; Melbourne, Australia

## **MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES AND OTHER PROFESSIONAL ACTIVITIES**

### *International*

- 2016-2021 StEP (Standardized Endpoints in Perioperative care) initiative
- 2018- Global Implementation Society, founding member
- 2019- Prato Collaboration, founding member

### *National*

- 2007- American Society of Anesthesiologists
  - *Member, Committee on Performance and Outcomes Measurement, 2010-2016 (Chair, Workgroup on quality measures, 2014-2015)*
  - *Member, Committee on Health and Public Policy, 2015-2017*
  - *Member, Committee on Research, 2017-2021*
  - *Member, Committee on Professional Diversity, 2017-2021*
  - *Member, Ad-hoc Committee to select Anesthesiology Editor-in-Chief, 2023*
- 2009- Society of Critical Care Medicine
  - *Tele-ICU committee, 2016-2018*
  - *Research Section Mentoring Subcommittee, 2016-2017*
  - *Scientific Review Committee, 2019-present (Vice chair 2022)*
  - *Chair, Research Section Committee on ICU Quality & Patient Safety, 2019-2021*
  - *Member, Choosing Wisely: the Next 5 taskforce, 2019-2020*
  - *Member, Quality and Safety Committee, 2019-2022*
  - *Co-chair, 2022 Annual Congress*
  - *Program Committee, 2019-2023*
  - *Research Section Steering Committee Member at Large (elected position), 2021-2022*
  - *Member, Discovery Steering Committee, 2022*
  - *Member, Critical Care Medicine Editor-in-Chief selection task force, 2023-2024*
- 2011- AcademyHealth
  - *Surgical and Perioperative Care Interest Group, 2016-2021 (Secretary, 2017-2018; Steering Committee, 2018-2021)*
  - *Planning Committee Member, 2023 AcademyHealth/NIH Conference on the Science of Dissemination and Implementation in Health*
- 2011- Society of Critical Care Anesthesiologists
- 2012- Sisters of the Academy
  - *Intensive Grantsmanship Workshop Committee, 2013-2015*

- 2015- Multicenter Handoff Collaborative, founding member
  - *Steering Committee, 2015-2022*
  - *Chair, Research Workgroup, 2017-2019; co-chair, 2019-2022*
- 2015- Association of University Anesthesiologists
  - *Scientific Advisory Board, 2018-2021*
  - *Leadership Advisory Board, 2020-2023*
- 2017- Anesthesia Patient Safety Foundation
  - *Member, Board of Directors, 2017-present*
  - *Member, Policy and Procedures Committee, 2018-2020*
  - *Member, Communications Team, 2018-present*
  - *Member, Alumni Grant Academy, 2018-present*
  - *Chair, Pierce Lecture Selection Committee, 2020-present*
  - *Vice President and Executive Committee member, 2021-present*
  - *Member, Scientific Evaluation Committee, 2022-present*
  - *Founding Chair, Patient Safety Priority Group Ad-hoc Committee, 2023-present*
- 2020-22 Anesthesia Research Council
- 2021-22 American Board of Anesthesiology Committee on Research
- 2021-23 National Academies of Science, Engineering, and Medicine New Voices program (cohort 2)
- 2021- Foundation for Anesthesia Education and Research
  - *Board of Directors, 2021-present*
  - *Finance Committee, 2021-2022*
  - *Pipeline Committee, 2022-present*
- 2022 National Academy of Medicine Workshop Series Planning Committee Member, Accelerating the Use of Findings from Patient-Centered Outcomes Research in Clinical Practice to Improve Health and Health Care

*Regional/Local*

- 2012- Pennsylvania Society of Anesthesiologists
- 2014- Penn Institute for Translational Medicine and Therapeutics

**ACADEMIC AND INSTITUTIONAL COMMITTEES AND ROLES**

- 1998 Campus Committee on HIV/AIDS, UC Berkeley
- 2000 Steering Committee, Berkeley Free Clinic, Berkeley, CA
- 2001 Secretary, Board of Directors, Berkeley Free Clinic, Berkeley, CA
- 2002-06 Human Investigations Committee, Yale School of Medicine
- 2008-15 Patient Safety Steering Committee, Hospital of the University of Pennsylvania
- 2013-19 Clinical Competence Committee (residency), Department of Anesthesiology and Critical Care, Perelman School of Medicine (PSOM)
- 2015-18 Call committee, Department of Anesthesiology and Critical Care, PSOM
- 2015- Alliance of Minority Physicians, Perelman School of Medicine, University of Pennsylvania (Faculty steering committee, 2020-present)
- 2015- Clinical Competence Committee (anesthesia critical care fellowship), PSOM
- 2016-17 Co-chair, Graduate Medical Education Handoff Task Force, Penn Medicine
- 2016-20 Medical Faculty Senate Steering Committee, PSOM (Chair, 2019-2020)
- 2017-18 Work-Life Integration Committee, Department of Anesthesiology and Critical Care, PSOM
- 2017- Quality and Safety Oversight Committee, Department of Anesthesiology and Critical Care, PSOM
- 2017-19 Health Equity Taskforce, Workforce Subcommittee, PSOM
- 2018-21 Women in Anesthesia founding faculty member, Dept of Anesthesiology and Critical Care, PSOM
- 2018-19 Education Research Council, Department of Anesthesiology and Critical Care, PSOM
- 2018- Alpha Omega Alpha selection committee, PSOM
- 2018-20 FOCUS on Health & Leadership for Women seminar planning group
- 2018-19 Penn Anesthesia Art Program, Department of Anesthesiology and Critical Care, PSOM
- 2018-21 Healthcare Quality & Patient Safety Certificate Program Curriculum and Admissions Committees

- 2018-19 Professionalism Task Force (undergraduate medical education focus), PSOM
- 2018-19 ICU Transition Task Force, Department of Anesthesiology and Critical Care, PSOM
- 2019- Founding steering committee member, Anna T. Meadows Society for Clinician Educators
- 2019-21 Disaster Preparedness Officer, Department of Anesthesiology and Critical Care
- 2019-21 Clinical Liaison for Penn Presbyterian Medical Center, Penn Center for Evidence-based Practice
- 2019-21 Critical Care Alliance, Penn Medicine
- 2020 COVID-19 Task Force, Department of Anesthesiology and Critical Care
- 2020 Critical Care Committee COVID-19 Task Force, Penn Medicine
- 2020 COVID-19 Observational Studies Review Group, Penn Medicine
- 2020 Internal review committee, PSOM Program on Diversity and Inclusion
- 2020- Committee on Academic Freedom and Responsibility, Perelman School of Medicine
- 2020- Committee on Appointments and Promotions, Department of Anesthesiology and Critical Care
- 2020- University Faculty Senate Committee on Faculty Development, Diversity, and Equity
- 2020- IDEA (Inclusion, Diversity, Equity, and Antiracism) Committee, co-chair, Department of Anesthesiology and Critical Care
- 2021 Selection Committee, Executive Director for Penn FOCUS on Health and Leadership for Women
- 2021 University Research Foundation Grant Reviewer, Biomedical Research Panel
- 2021-22 Internal Review for Children’s Hospital of Philadelphia Department of Anesthesiology and Critical Care
- 2022-23 Perelman School of Medicine Strategic Planning working group member, “Leading with Humanity in Everything that We Do”
- 2023 Selection Committee, Chief of Traumatology, Surgical Critical Care, and Emergency Surgery, Department of Surgery

**MAJOR ACADEMIC AND CLINICAL TEACHING RESPONSIBILITIES (UNIVERSITY OF PENNSYLVANIA)**

*Mentoring (see pages after CV for a list of mentees)*

- 2011- Physician mentor, Penn Women’s Biomedical Society and Elizabeth Blackwell Society
- 2012- Research mentor, Summer Undergraduate Minority Research Program, Leonard Davis Institute of Health Economics
- 2016- Clinical mentor, Department of Anesthesiology and Critical Care
- 2016-19 Faculty mentor, Center for Healthcare Improvement and Patient Safety fellowship
- 2016- Faculty mentor, Master of Science in Health Policy Research
- 2018-21 Dissertation committee member, Jason Saucier (PhD student, Vanderbilt University)
- 2019- Faculty mentor, Master of Science in Clinical Epidemiology
- 2020- Faculty member, Graduate Group in Epidemiology and Biostatistics
- 2020- Peer faculty mentor, Joanna Abraham, PhD, Washington University in St. Louis
- 2020- Faculty research mentor, Penn Access Summer Scholars program
- 2022- Dissertation committee member, Ross Perfetti (PhD student, University of Pennsylvania)
- 2022- Faculty research mentor, Get Experience in Aging Research Undergraduate Program (GEAR UP)

*Training program leadership*

- 2018- Director, Penn Implementation Science Institute (4-day implementation science bootcamp; served as Co-Director with Rinad Beidas, PhD from 2018-2022)
- 2019-23 Co-lead, Research Education Component, Center for Improving Care Delivery for the Aging (CICADA), NIA Resource Center for Minority Aging Research (details in Grants)
- 2020-23 Co-Program Director, Transforming the Generation and Adoption of PCOR into Practice (T-GAPP), AHRQ K12 program (detailed in Grants)
- 2021- T32 Steering Committee Member, NIH/NHLBI training grant in critical care health services research (PI: Scott Halpern)
- 2022- Training Program Director, Behavioral Economics to Transform Trial Enrollment Representativeness (BETTER) Center, AHA Strategically Focused Research Network (detailed in Grants)
- 2022- Director, Penn Implementation Science Certificate
- 2023- Co-PI and Co-Director, Center for Improving Care Delivery for the Aging (CICADA), NIA Resource Center for Minority Aging Research (details in Grants)

*Non-recurring academic and teaching responsibilities*

- 2010 Grand Rounds, Department of Anesthesiology and Critical Care, "Insurance and Racial Differences in Long-term Acute Care Utilization After Critical Illness"
- 2011 Resident and Fellow Lecture, Surgical Intensive Care Unit, "Thromboelastography"
- 2012 Research in Progress Seminar, Department of Anesthesiology and Critical Care, "Quality of Documentation in Anesthesia at HUP"
- 2013 Resident lecture, "Post-operative analgesia"
- 2013 Grand Rounds, Department of Anesthesiology and Critical Care, "Teamwork and Communication in Perioperative Care"
- 2013 Research in Progress, Penn Center for Healthcare Improvement and Patient Safety, "Cardiothoracic intensive care unit staffing models"
- 2013 Children's Hospital of Philadelphia Patient Safety Webinar, "Attending handoffs in the ICU"
- 2014 Research in Progress Seminar, Department of Anesthesiology and Critical Care, "Handoffs and Transitions in Critical Care: The HATRICC studies"
- 2014 Research in Progress, Penn Center for Healthcare Improvement and Patient Safety
- 2015 Grand Rounds, Department of Anesthesiology and Critical Care
- 2015 Faculty discussant, Healthcare Leadership and Quality track resident presentations
- 2015 "How did that tube get there? Indications for Intubation and Mechanical Ventilation", Respiratory Care Week, Hospital of the University of Pennsylvania
- 2017 Lecture, Penn Implementation Science Winter Institute, "Evolution of Aims to Project: Implementation science applied to perioperative handoffs"
- 2017 Workshop, "Finding Mentors for Work and Life", FOCUS on Health and Leadership for Women Lunchtime Seminar Series
- 2018 Lecture, Master of Science in Health Policy Research, "Introduction to QI Research"
- 2018 Grand Rounds, Department of Anesthesiology and Critical Care
- 2019 Lecture, Penn Implementation Science Center at the Leonard Davis Institute of Health Economics (PISCE@LDI), "How to choose a framework for your implementation science question"
- 2019 Lecture, CCEB Seminar Series, "Acute care implementation science: narrowing the evidence-to-practice gap for our most vulnerable patients"
- 2020 Keynote address, Alpha Omega Alpha induction ceremony, Perelman School of Medicine
- 2020 Lecture, "Implementation science: its relevance for and application to medical education", Children's Hospital of Philadelphia Medical Education Forum
- 2020 Lecture, Frontiers 517: The Science of Value Based Healthcare, "Why it takes so long to get evidence into practice and what we can do about it: an introduction to implementation science"
- 2020 Lecture and workshop, "Finding your Voice and Building your Scientific and/or Career Brand Authentically", FOCUS on Health and Leadership for Women Lunchtime Seminar
- 2020 Lecture, "Forging a path as a clinician-scientist at the intersection of implementation science and quality improvement, or how to thrive when you don't quite fit anywhere", FOCUS Lunchtime Seminar Series
- 2020 Panel discussion, "Creating a novel ICU during a pandemic", Core Topics in ICU Administration Series, Multidisciplinary Critical Care Conference
- 2020 Lecture, "Qualitative and mixed methods research in implementation science", Children's Hospital of Philadelphia Qualitative Research Affinity Group
- 2020 Lecture and workshop, "Finding your Voice and Building your Scientific and/or Career Brand Authentically", FOCUS on Health and Leadership for Women Lunchtime Seminar
- 2020 Grand Rounds, Department of Anesthesiology and Critical Care, "Inclusion, Diversity, Equity, and Penn Anesthesia"
- 2021 Grand Rounds, Department of Obstetrics and Gynecology (with Rinad Beidas, PhD)
- 2021 Lecture, "Disparities and inequities in perioperative care", anesthesiology residency
- 2021 Lecture, "Diversifying leadership spaces", Perelman School of Medicine Frontiers Course.
- 2021 Lecture, "Implementation science", CHOP DNP Community Forum, presented with Rosemary Polomano, PhD, RN, FAAN
- 2021 Lecture, "Quality improvement, implementation science, and the learning health system", HPR 600, Master of Science in Health Policy Research

- 2021 Invited talk, "Leveraging Implementation Science to Improve Handoffs and Transitions in Critical Care", with Rebecca Trotta, PhD, RN, Penn Annual Nursing Research Conference (virtual)
- 2022 Lecture, "The Morass of Mixed Methodology in Implementation Science: Lessons from Hybrid Effectiveness-Implementation Trials", DBEI/CCEB Research Day
- 2022 Lecture, "Training opportunities in implementation science" with Amanda Bettencourt, Penn Implementation Science Center at the Leonard Davis Institute of Health Economics (virtual)
- 2023 Lecture, "Changing clinician and organizational behavior with implementation science," CHOP Center for Childhood Cancer Research

*Recurring academic and teaching responsibilities (aside from training program leadership)*

- 2011-17 Lecturer, Critical Care Nursing Course, "Delirium", quarterly
- 2011-16 Instructor, Fundamentals of Critical Care Series, Office of Life Support Education, quarterly
- 2012-18 Interviewer, medical student admissions
- 2012-15 Facilitator, SICU video review for quality improvement, bi-monthly
- 2012-16 Instructor, Advanced Trauma Life Support, Office of Life Support Education, Penn Medicine
- 2012-21 Interviewer, residency program, Anesthesiology and Critical Care
- 2012-19 Medical Student Lecture, "Sedatives and Hypnotics", annual
- 2014-19 Faculty preceptor, Penn Nursing Science research course, 1-2 times/year
- 2014-15 Instructor, Handoff workshops for Adult Cardiothoracic Anesthesia fellows
- 2012-19 Anesthesia resident lecture, "Handoffs in anesthesia", annual
- 2014- Critical care fellow lecture, "Sedatives, hypnotics and analgesics in the ICU", annual
- 2014-17 Critical care fellow lecture, "Quality Improvement in the Intensive Care Unit", annual
- 2015-22 Lecturer, Penn Nursing multidisciplinary pain course, "Pain in critically ill patients", annual
- 2015-20 Lecturer, Penn Surgical Critical Care Service, "Research, Reference, and Productivity Tools", annual
- 2015-18 Lecturer, Leadership in the Complex Healthcare System course, Penn Nursing Science, "Multidisciplinary research and quality improvement", annual
- 2015-19 Lecturer, Master of Science in Health Policy Research, "Electronic Survey Tools", annual
- 2015-20 Faculty facilitator, Doctoring, Perelman School of Medicine, 2-4 times/month
- 2015-16 Medical student lecture, "Critical Care, Or: How I Learned to Stop Worrying and Love the Vent", Perelman School of Medicine, University of Pennsylvania, quarterly
- 2015-18 Small group facilitation, anesthesiology residency program, quarterly
- 2017-19 Lecturer, Penn Nursing NURS 650, Systems Thinking in Patient Safety, "Human Factors: A Clinician's Perspective", annual
- 2017-18 Lecture, "Conscious sedation for cardiology fellows", Penn Cardiology fellowship, annual
- 2017-22 Course co-director, HPR 611: Implementation Science in Health and Healthcare, Perelman School of Medicine, 1.0 CU, annual
- 2018 Small group leader, UCSF Introduction to Implementation Science Theory and Design (virtual), weekly
- 2018- Course Director, Implementation Science Institute, Perelman School of Medicine. 0.5 CU, annual (co-directed with Rinad Beidas, PhD from 2018-22)
- 2018-21 Lecturer, EPID 534, "Acute care qualitative research opportunities and challenges", annual
- 2019- Lecturer, PUBH 400, "Confessions of a post-positivist: qualitative research in acute care", annual
- 2020- Lecture, EPID 640, "Implementation research: an overview for EPID 640"
- 2020- Course Director, HPR 612: Advanced Topics in Implementation Science in Health, Perelman School of Medicine, 0.5 CU, annual (co-directed with Rinad Beidas, PhD from 2020-22)
- 2023- Course director, IMP 6000: Foundations in Implementation Science, Perelman School of Medicine, 1.0 CU, annual

**OTHER ACADEMIC EXPERIENCE AND COMMUNITY SERVICE**

- 1999-2001 Peer Educator, University Health Services, UC Berkeley
- 1999-2002 HIV counselor and phlebotomist, Berkeley Free Clinic, Berkeley CA
- 2000-02 HIV Prevention Services Coordinator, Berkeley Free Clinic, Berkeley, CA
- 2002-06 Medical Student Peer Advocate, Yale School of Medicine
- 2003 Instructor, Minority Medical Education Program, Yale School of Medicine
- 2005 Fundraising for Hurricane Katrina response, Yale School of Medicine



- 2016 Faculty discussant, American Medical Women's Association pre-medical student panel, Annual Meeting, Miami, FL
- 2016-17 Co-chair, Anesthesia Patient Safety Foundation Stoelting Conference Planning Committee
- 2017- NIH Loan Repayment Program Ambassador
- 2017- Abstract reviewer, AcademyHealth Annual Research Meeting and Surgical and Perioperative Care Interest Group
- 2017 Abstract reviewer, International Anesthesia Research Society
- 2017 Abstract reviewer, AAMC Lean-Serve-Lead Conference
- 2017-18 Webmaster, Penn Anesthesiology Critical Care Division
- 2018- Abstract reviewer, Society of Critical Care Medicine Annual Congress
- 2020 Track Co-Chair, AcademyHealth/NIH 13<sup>th</sup> Annual Conference on the Science of Dissemination and Implementation in Health (Track: Clinical Care Settings: Patient-Level Interventions)
- 2021- Data Safety Monitoring Board member, Penn Implementation Science Center for Cancer Control (Penn ISC<sup>3</sup>)
- 2021 Track Co-Chair, AcademyHealth/NIH 14<sup>th</sup> Annual Conference on the Science of Dissemination and Implementation in Health (Track: Clinical Care Settings: Patient-Level Interventions)
- 2021- Data Safety Monitoring Board Member, TECTONICS Clinical Trial (PI: Michael Avidan, Washington University in St. Louis)
- 2022- Advisory group member, ECLIPSE (Excellence in Pediatric Implementation Science) subgroup of the PALISI (Pediatric Acute Lung Injury and Sepsis Investigators) Network
- 2022 Track Co-Chair, AcademyHealth/NIH 15<sup>th</sup> Annual Conference on the Science of Dissemination and Implementation in Health (Track: Clinical Care Settings: Patient-Level Interventions)
- 2023 Planning committee member, AcademyHealth/NIH 16<sup>th</sup> Annual Conference on the Science of Dissemination and Implementation in Health

**LEADERSHIP EXPERIENCE, TRAINING, AND DEVELOPMENT (may be duplicated from other sections)**

- 2000-02 HIV Prevention Services Coordinator, Berkeley Free Clinic, Berkeley, CA
- 2000-01 President, Rochdale Village, University Students' Cooperative Association, Berkeley, CA
- 2012 AAMC Minority Faculty Career Development Seminar (repeated in 2014)
- 2013- Principal Investigator, Lane-Fall lab (generally 2-10 research trainees)
- 2016-20 Harold Amos Medical Faculty Development Program, Robert Wood Johnson Foundation
- 2016-22 Co-director, Penn Center for Perioperative Outcomes Research and Transformation
- 2017 Edward S. Cooper Society Leadership Program, Wharton School at the University of Pennsylvania
- 2018-23 1:1 executive coaching with Vector Group Consulting, 1-2 times monthly
- 2018 Course participant, Penn HPR 670: Health Care, Strategic Leadership & Business Acumen
- 2019-21 Co-Medical Director, Trauma Surgery Intensive Care Unit, Penn Presbyterian Medical Center
- 2019 AAMC Leadership and Management Foundations
- 2020- Director of Research and Scholarship, Penn Center for Healthcare Improvement and Patient Safety
- 2020-22 Director of Acute Care Implementation Research, Penn Implementation Science Center at the Leonard Davis Institute of Health Economics, University of Pennsylvania
- 2020- Vice Chair of Inclusion, Diversity, and Equity and member of Anesthesia Leadership Team, Department of Anesthesiology and Critical Care, University of Pennsylvania
- 2021 Participant, "Using the Past to Inform the Future: Taking a Proactive Approach to the Opportunities of Mid-Career", development program by Penn FOCUS program
- 2021-23 National Academies of Science, Engineering, and Medicine New Voices member
- 2021- Vice President, Anesthesia Patient Safety Foundation
- 2022- Executive Director, Penn Implementation Science Center at the Leonard Davis Institute of Health Economics
- 2022 AAMC Mid-Career Minority Faculty Leadership Seminar
- 2023- Co-lead, Accelerate Health Equity, University of Pennsylvania/Independence Blue Cross

**DIVERSITY, INCLUSION, AND EQUITY-RELATED EXPERIENCE (may be duplicated from other sections)**

- 2000-02 HIV Prevention Services Coordinator, Berkeley Free Clinic, Berkeley, CA
- 2002-06 Member, Student National Medical Association, Yale School of Medicine

- 2003 Instructor, Minority Medical Education Program, Yale School of Medicine
- 2011- Physician mentor, Penn Women's Biomedical Society and Elizabeth Blackwell Society
- 2012- Research mentor, Summer Undergraduate Minority Research Program, Leonard Davis Institute of Health Economics
- 2012- Member, Sisters of the Academy
- 2016 Faculty discussant, American Medical Women's Association pre-medical student panel, Annual Meeting, Miami, FL
- 2017-21 American Society of Anesthesiologists Committee on Professional Diversity
- 2017-18 Work-Life Integration Committee, Department of Anesthesiology and Critical Care, PSOM
- 2017-19 Health Equity Taskforce, Workforce Subcommittee, PSOM
- 2017 Workshop, "Finding Mentors for Work and Life", FOCUS on Health and Leadership for Women Lunchtime Seminar Series
- 2018- Women in Anesthesia founding faculty member, Dept of Anesthesiology and Critical Care, PSOM
- 2020 Faculty research mentor, Penn Access Summer Scholars program
- 2020- Vice Chair of Inclusion, Diversity, and Equity, Department of Anesthesiology and Critical Care, University of Pennsylvania
- 2020- IDEA (Inclusion, Diversity, Equity, and Antiracism) Committee, ex-officio member, Department of Anesthesiology and Critical Care
- 2020- Faculty Steering Committee, Penn/CHOP Alliance of Minority Physicians
- 2020- University Faculty Senate Committee on Faculty Development, Diversity, and Equity
- 2020- Leadership Advisory Board, Association of University Anesthesiologists
- 2020 Internal review committee, Perelman School of Medicine Program on Diversity and Inclusion
- 2021 CAVEAT (COVID-19 Acceptance: Vaccine Education and Adoption Taskforce) initiative to increase COVID-19 vaccine uptake, Penn Medicine
- 2021 Application reviewer, Penn Summer Undergraduate Minority Research Program, University of Pennsylvania Leonard Davis Institute of Health Economics

## EDITORIAL POSITIONS

- 2012- Ad-hoc Reviewer (dates for each journal available upon request): *A&A Practice, AAMC MedEdPORTAL, Academic Medicine, Anesthesia & Analgesia, Anesthesiology, American Journal of Respiratory and Critical Care Medicine, American Psychologist, Annals of the American Thoracic Society, Annals of Surgery, ATS Scholar, BMC Anesthesiology, BMC Health Services Research, BMC Medical Education, BMJ Open, BMJ Quality & Safety, British Journal of Anaesthesia, Critical Care Medicine, Critical Care Nurse, Global Implementation Research and Applications, Human Factors, Implementation Science, Implementation Science Communications, International Journal of Obstetric Anesthesia, JAMA, JAMA Network Open, Joint Commission Journal on Quality and Patient Safety, Journal of Clinical Anesthesia, Journal of Critical Care, Pediatrics, Perioperative Medicine, PLOS One, Respiratory Care, Scientific Reports, Simulation in Healthcare, Teaching and Learning in Medicine*. Review records since late 2017 are available at: <https://www.webofscience.com/wos/author/rid/L-9854-2013>
- 2018-20 Assistant Editor, *Anesthesia Patient Safety Foundation Newsletter*
- 2018-19 Associate Editor, *BMC Health Services Research*
- 2018 Guest Editor, *Anesthesiology Clinics*, "Quality Improvement and Implementation Science"
- 2018 Associate Editor, *Miller's Anesthesia* (textbook; 9<sup>th</sup> edition)
- 2019- Associate Editor, *Anesthesiology*
- 2019- Founding Steering Committee and Associate Editor, *Global Implementation Research and Applications*
- 2019-21 Editorial Board, *Anesthesia & Analgesia* (Assistant Editor, 2019-20, Associate Editor, 2020-21)
- 2021- Editorial Board, *Critical Care Medicine*

## GRANT AND AWARD REVIEW SERVICE

- 2014-20 Early Career Reviewer, National Institutes of Health
- 2015-18 Reviewer, AcademyHealth Diversity Scholars Network Scholarship
- 2016, 2020 Ad-hoc grant reviewer, PSI foundation, Ontario, Canada
- 2018-20 Grant reviewer, Foundation for Anesthesia Education and Research (reviews conducted as part of the American Society of Anesthesiologists Committee on Research)

2019	Grant reviewer, Society of Critical Care Medicine SCCM-Weil Research Grant
2019	Grant reviewer, Society of Critical Care Medicine Patient Safety First! Award
2020	Ad-hoc member, NIH Dissemination and Implementation Research in Health (DIRH) study section
2020	Ad-hoc member, NIH IMPOWR Special Emphasis Panel
2021-	Standing member of NIH study section Science of Implementation in Health and Healthcare (SIHH); co-chair of study section in February 2022, October 2022, June 2023
2022	Grant reviewer, Foundation for Anesthesia Education and Research / Anesthesia Patient Safety Foundation Mentored Research Training Grant

## LECTURES BY INVITATION

### PODIUM PRESENTATIONS AND WORKSHOPS AT SCIENTIFIC MEETINGS:

1. "Insurance and racial differences in long-term acute care utilization after critical illness", 5<sup>th</sup> annual Pennsylvania Anesthesiology Resident Research Competition, Philadelphia, PA, May 2010.
2. "Electronic Health Records and Physician Monitoring", Video presentation to Chinese Society of Anesthesiologists, China, September 2013.
3. "Bedside procedures: Endotracheal intubation", American College of Surgeons, Washington, DC, October 2013.
4. "Bedside procedures: Anesthetic considerations", American College of Surgeons, Washington, DC, October 2013.
5. "Quality and Safety Training in Anesthesia Fellowships", Society of Academic Anesthesiology Associations, Philadelphia, PA, November 2013.
6. "Implementation science in perioperative care: OR to ICU handoffs", AcademyHealth Perioperative Care and Pain Management Interest Group, Minneapolis, MN, June 2015.
7. "How do clinicians handle information during OR to ICU handoffs?", oral presentation at Children's Hospital of Philadelphia Mid-Atlantic Informatics Symposium, Philadelphia, PA, October 2015.
8. "Handoffs and Transitions in Critical Care (HATRICC): Mixed-methods evaluation and standardization of OR to ICU handoffs in a mixed surgical population", oral presentation at the American Society of Anesthesiologists Annual Meeting, San Diego, CA, October 2015.
9. "Patient Handoffs: Feedback, Evaluation, and Monitoring Tools", workshop with Lee Ann Riesenber, PhD, RN (University of Alabama at Birmingham), Accreditation Council on Graduate Medical Education Annual Educational Conference, National Harbor, MD, February 2016.
10. "The Science of Handoffs", oral presentation at the Association of University Anesthesiologists Annual Meeting, San Francisco, CA, May 2016.
11. "Building Dynamic Multidisciplinary Research", oral presentation at the International Anesthesia Research Society Annual Meeting, San Francisco, CA, May 2016.
12. "Transparency, Privacy, and Personal Disclosures in Guideline Development Panels", Guidelines International Network Conference, Philadelphia, PA, September 2016.
13. "Evidence supporting clinician acceptance of a standardized handoff process: findings from a hybrid effectiveness-implementation study of operating room to intensive care unit handoffs", oral presentation at the AcademyHealth/NIH 9th Annual Conference on the Science of Dissemination and Implementation, Washington, DC, December 2016.
14. "Barriers and facilitators of adherence to a standardized handoff intervention according to different clinician types: findings from a hybrid effectiveness-implementation study of operating room to intensive care unit handoffs", oral presentation at the AcademyHealth/NIH 9th Annual Conference on the Science of Dissemination and Implementation, Washington, DC, December 2016.
15. "Adopting the human factors perspective in handoff research", workshop with Lee Ann Riesenber, PhD, RN, Human Factors and Ergonomics Society Healthcare Annual Meeting, New Orleans, LA, March 2017.
16. "Communication across the perioperative continuum", Perioperative Medicine Summit, Fort Lauderdale, FL, March 2017.
17. "What do we know about anesthesia handoffs?" International Anesthesia Research Society Annual Meeting, Washington, DC, May 2017.
18. "What is a handoff?" Anesthesia Patient Safety Foundation Stoelting Conference, Phoenix, AZ, September 2017.
19. "Perioperative handoffs: what the evidence says (and doesn't say)" American Association of Nurse Anesthetists Nurse Anesthesia Annual Congress, Seattle, WA, September 2017.

20. "Implementation science principles applied to the standardization of perioperative handoffs", Robert Wood Johnson Foundation Harold Amos Medical Faculty Development Program Annual Meeting, Washington, DC, October 2017.
21. "Assessment of Inter-provider Communication", workshop with Joshua Davis, MD (Penn State Hershey), International Conference on Communication in Healthcare, Baltimore, MD, October 2017.
22. "Why Does It Take So Long to Get Evidence into Practice? A Primer on Implementation Science", American Medical Women's Association Annual Conference, Philadelphia, PA, March 2018.
23. "Building an Interdisciplinary Research Team for Implementation Science Research", International Anesthesia Research Society Annual Conference, Chicago, IL, April 2018.
24. "The Role of Implementation Science in Patient Safety", International Anesthesia Research Society Annual Conference, Chicago, IL, April 2018.
25. "Breaking the Mold: diversifying the emerging critical care workforce", American Thoracic Society Annual Conference, San Diego, CA, May 2018.
26. "Transferring care from one provider to another", Nurse Anesthesia Faculty Assoc., Hilton Head, SC, May 2018.
27. "Communication for safety", Nurse Anesthesia Faculty Associates, Hilton Head, SC, May 2018.
28. "Cognitive, Physical, and Emotional Recovery Strategies After Trauma-Related ICU Experience", podium presentation with mentee David Rub, National Summit on Post-Acute Care Safety and Quality, Washington, DC, October 2018.
29. "The Bumpy Road from Scientific Discovery to Clinical Implementation", panel presentation with Mark Neuman, MD, MSc, American Society of Anesthesiologists annual meeting, San Francisco, CA, October 2018.
30. "Harnessing implementation science lessons to guide impactful quality improvement: bridging the gap", panel presentation, American Society of Anesthesiologists annual meeting, San Francisco, CA, October 2018.
31. "ICU resource utilization in the opioid crisis", Society of Critical Care Medicine Annual Congress, San Diego, CA, February 2019.
32. "Handoffs and Patient Safety: ED or OR to ICU and ICU to OR", Society of Critical Care Medicine Annual Congress, San Diego, CA, February 2019.
33. "PeriAnesthesia Handoffs: How can we support safe communication before, during, and after surgery?" American Society of PeriAnesthesia Nurses 38<sup>th</sup> National Conference, Nashville, TN, May 2019.
34. "Gender and racial diversity in the US anaesthesia and critical care workforce", British Journal of Anaesthesia Symposium on Women in Anaesthesia Research, Prato, Italy, June 2019.
35. "CHIPS: Customizing handoff implementation post-surgery; an implementation study in 6 US hospitals – rationale and progress to date", 5<sup>th</sup> Collaborative Clinical Trials in Anaesthesia Meeting, Prato, Italy, June 2019.
36. "Qualitative research and quality improvement", University of Toronto Excellence in Quality Improvement Program, Toronto, ON, Canada, July 2019.
37. "Safety culture: the importance of teamwork", Oral presentation at the XXXIII Colombian Congress of Anesthesiology, Bucaramanga, Colombia, August 2019.
38. "Handoffs in anesthesia and perioperative care", Oral presentation at the XXXIII Colombian Congress of Anesthesiology, Bucaramanga, Colombia, August 2019.
39. "The HATRICC Study - Using Hybrid Effectiveness-implementation Designs to Understand and Improve Handoffs", Oral presentation at the American Society of Anesthesiologists Annual Meeting, Orlando, FL, October 2019.
40. "Opioid-Free Anesthesia – Is It Possible in the ICU?" Oral presentation at the American Society of Anesthesiologists Annual Meeting, Orlando, FL, October 2019.
41. "Orientation to the Science of Dissemination and Implementation", with Rinad Beidas, Cara Lewis, and Byron Powell, AcademyHealth/NIH 12<sup>th</sup> Annual Conference on the Science of Dissemination and Implementation in Health, Arlington, VA, December 2019.
42. "Handoffs in Anesthesia and Perioperative Care", "Opioid Management in the ICU", "Barriers to Implementation of Evidence-based OR Anesthesia Practices", "Quality Improvement and Implementation Science", Anesthesia Camp 2020, Grand Cayman, BWI, January 2020.
43. "Models and Frameworks of Implementation Practice and Science", Society for Maternal Fetal Medicine President's Workshop, Dallas, TX, February 2020.
44. "Potions or Poisons? Acetaminophen/Paracetamol, COX-2 Inhibitors, and NSAIDs", Society of Critical Care Medicine Annual Congress, Orlando, FL, February 2020.

45. "Implementation Science in the ICU 2.0: Beyond Barriers and Facilitators", American Thoracic Society International Conference, Philadelphia, PA, May 2020 (*canceled due to COVID-19*).
46. "Invasive or noninvasive support: when, where, and how", Society of Critical Care Medicine "COVID-19: What's Next" conference, September 2020 (virtual).
47. "Managing Information Overload", part of "APSF Panel: Ten Patient Safety Issues We've Learned from the COVID Pandemic", American Society of Anesthesiologists Annual Meeting, October 2020 (virtual).
48. "The role of palliative care among racial and ethnic disparities in critical care", part of "Recognizing and Addressing Racial and Ethnic Disparities in Critical Care", American Society of Anesthesiologists Annual Meeting, October 2020 (virtual).
49. "The science of diversity", part of "AUA - The Science of Leadership: Creating Highly Functional Teams in the 21<sup>st</sup> Century", American Society of Anesthesiologists Annual Meeting, October 2020 (virtual).
50. "Implementation Science of Precision Medicine: Strategies for Optimizing Adoption and Program Evaluation", Precision Medicine Leadership Summit – Pharmacogenomics, November 2020 (virtual).
51. Session chair, "Strategies: Testing the 'How' of Patient-Level Interventions", 13<sup>th</sup> annual Conference on the Science of Dissemination and Implementation in Health, December 2020 (virtual).
52. "How to be a Parent, Clinical Juggler and Research Magician during a Pandemic (or on any other given day): Childcare, Children's education, Clinical Duties.... Where is my Research?" (panelist), Society of Critical Care Medicine 2021 Annual Conference, February 2021 (virtual).
53. "Implementation science and FH: What could go wrong?" Familial Hypercholesterolemia Global Summit, March 2021 (virtual).
54. "Implementation Science and the Anaesthesiologist", Australian and New Zealand College of Anaesthetists and Faculty of Pain Medicine Annual Scientific Meeting, April/May 2021 (virtual).
55. "Clinical handover and communication", Australian and New Zealand College of Anaesthetists and Faculty of Pain Medicine Annual Scientific Meeting, April/May 2021 (virtual).
56. "Leadership Advisory Board Panel I: Toward Diversity, Inclusivity and Excellence at the AUA", panel presentation, Association of University Anesthesiologists Annual Meeting, May 2021 (virtual).
57. "Navigating Leadership While Under-Represented in Medicine: Battling Imposter Syndrome and Staying True to Yourself", panel presentation in "Leadership Beyond the Bedside in the ICU – the Leadership Shadow You Cast", Society of Critical Care Anesthesiologists Annual Meeting, May 2021 (virtual).
58. "How to survive and thrive in a flawed system: advice for early career women faculty in academic medicine", Resource, Advice, Insight, Support, and Empowerment for Early-Career Women Faculty (RAISE-ECHO), May 2021 (virtual).
59. "Impostor Phenomenon and How to Manage It", Women in Anesthesiology, May 2021 (virtual).
60. "Clinician Safety: Impact on a Diverse Workforce", Anesthesia Patient Safety Foundation Annual Stoelting Conference, Phoenix, AZ, September 2021.
61. "Real life cases of tele-ICU", European Society of Intensive Care Medicine 34<sup>th</sup> Annual Congress, "ESICM Lives 2021", October 2021 (virtual).
62. "Post-pandemic public health imperatives and the role of the anesthesiologist", part of "The first wave surge of COVID-19 brought out the value of our specialty. How do we maintain those gains?" American Society of Anesthesiologists Annual Meeting, San Diego, CA, October 2021.
63. "What is Implementation Science?", Cardiothoracic Surgical Trials Network Implementation Science Symposium, October 2021 (virtual).
64. "Funding Opportunities and Building a Team", part of "eSAS: Keys to Success as an Academic Anesthesiologist", American Society of Anesthesiologists Annual Meeting, San Diego, CA, October 2021.
65. "Do Perioperative Handoffs Cause Harm? What's the Evidence?", part of "Do Perioperative Handoffs Really Cause Harm? If So, What Can We Do About It?", American Society of Anesthesiologists Annual Meeting, San Diego, CA, October 2021.
66. "DEI efforts in anesthesia: applying what we know to achieve the change we seek", Society of Academic Associations of Anesthesiology and Perioperative Medicine Annual Meeting, November 2021 (virtual).
67. "ICU patient handoffs/transfers", lecture for online Continulus library, November 2021 (virtual).
68. "Quality improvement, learning health systems, and implementation science: different names for the same concept?" Implementation Science Center for Cancer Control Equity (ISCCCE) Learning Community, December 2021 (virtual).

69. "What is the future of reimbursement for surgical critical care services?", Society of Critical Care Anesthesiologists Annual Meeting, March 2022 (virtual).
70. "How implementation science can help move the needle on equitably transforming health and health care", 2022 NorthWest SPOR Collaborative Forum, October 2022 (virtual).
71. Workshop panelist, Raising Anesthesiology Diversity and Anti-Racism, American Society of Anesthesiologists Annual Meeting, New Orleans, LA, October 2022.
72. Featured panelist, "PCOR Infrastructure to Accelerate Progress Toward an Integrated Learning Health System (LHS)", Patient Centered Outcomes Research Institute Annual Meeting, October 2022 (virtual).
73. "Intersection of ethics & equity in implementation science", part of Promoting Inclusive Excellence in Career Development for SDOH and Implementation Research Virtual Workshop, National Heart Lung and Blood Institute, December 2022 (virtual).
74. Featured panelist, "Continue the Conversation: Orientation to the Science of Dissemination and Implementation", 15<sup>th</sup> Annual AcademyHealth/NIH Conference on the Science of Dissemination and Implementation in Health, Washington, DC, December 2022.
75. Featured panelist, "Educational Leadership Luncheon: Early Career Development: Road Map to a Successful Career and Expanding Connections", SCCM Annual Congress, San Francisco, CA, January 2023.
76. Featured panelist, "Building Capacity in Implementation Science for Climate Adaptation," part of the NIH/NIEHS Satellite on Implementation Science for Climate Adaptation in LMICs, April 2023 (virtual).
77. "Implementing and evaluating complex interventions: hybrid effectiveness-implementation trials and other innovative study designs" part of "Tackling brain and muscle dysfunctions in ARDS survivors," National Heart, Lung, and Blood Institute, April 2023 (virtual).
78. "Perioperative handovers: Getting them right", inaugural virtual Anaesthesia Patient Safety Symposium 2023 (APSS 2023), jointly organised by Persatuan Kakitangan Anestesiologi Hospital Umum Sarawak, Malaysian Society of Anaesthesiologists and College of Anaesthesiologists, Academy of Medicine of Malaysia, May 2023 (virtual).
79. Moderator, "Climate Change, Threats to Human Health, and Health System Resilience", National Academies of Science, Engineering, and Medicine New Voices One Health Webinar Series, June 2023 (virtual).

#### VISITING PROFESSORSHIPS, GRAND ROUNDS:

80. "Handoffs and Transitions in Critical Care: The HATRICC Studies", Massachusetts General Hospital Grand Rounds, Department of Anesthesiology, Boston, MA, March 2014.
81. "Handoffs in anesthesia and critical care", Stanford Grand Rounds, Department of Anesthesiology, Palo Alto, CA, September 2014.
82. "Quality and safety training for the next generation of anesthesiologists", Cornell University Department of Anesthesiology Grand Rounds, New York, NY, October 2014.
83. "Handoffs in anesthesia and critical care", University of Alabama at Birmingham Department of Anesthesiology Grand Rounds, Department of Anesthesiology, Birmingham, AL, November 2014.
84. "Quality and safety training for the next generation of anesthesiologists", University of Alabama at Birmingham Department of Anesthesiology Grand Rounds, Department of Anesthesiology, Birmingham, AL, November 2014.
85. "Implementation and effectiveness of standardized OR to ICU handoffs", University of Pittsburgh Medical Center Department of Critical Care CRISMA conference, Pittsburgh, PA, September 2015.
86. "Neither clinical nor basic science research: how an academic anesthesiologist chose a third path in health services research", Vanderbilt University School of Medicine Department of Anesthesiology BH Robbins resident research seminar, Nashville, TN, February 2016.
87. "Handoffs in anesthesia and critical care: scientific challenges and emerging evidence", Vanderbilt University School of Medicine Department of Anesthesiology Grand Rounds, Nashville, TN, February 2016.
88. "Post-intensive care syndrome", Multi-Departmental Critical Care Core Curriculum Conference Series, University of Maryland Shock Trauma Center, April 2016.
89. "Handoffs in anesthesia and critical care: scientific challenges and emerging evidence", Beth Israel Deaconess Medical Center, Department of Anesthesia, Critical Care and Pain Medicine Grand Rounds, Boston, MA, September 2016.
90. "Handoffs in perioperative care: Learning how to support clinician workflow", Combined Surgery and Anesthesia Grand Rounds, Christiana Care Health System, Newark, DE, January 2017.

91. "Knowing what works is not the same as getting it done: Implementation science applied to perioperative handoffs", Oregon Health & Science University Department of Anesthesiology and Perioperative Medicine Grand Rounds, Portland, OR, March 2017.
92. "Implementation science comes to surgery: assessing and standardizing postoperative handoffs in the Christiana Care Health System", Innovative Discoveries Series, Delaware CTR Accelerating Clinical and Translational Research, Christiana Hospital, Newark, DE, January 2018.
93. "A critical evaluation of perioperative handoffs: what the literature says and practical next steps", Ochsner Medical Center Anesthesiology Grand Rounds, New Orleans, LA, January 2018.
94. "Improving operating room to ICU handoffs with implementation science", University of Washington Department of Anesthesiology Grand Rounds, Seattle, WA, November 2018.
95. "When is evidence ready to implement? Challenges in perioperative care implementation", University of California San Francisco Philip R. Lee Institute for Health Policy Studies Emerging Scholar Lecture, May 2019.
96. "Perioperative handoffs: balancing evidence, workflow, and context", Westchester Medical Center Department of Anesthesiology Grand Rounds, Valhalla, NY, May 2019.
97. "Perioperative handoffs: challenges and opportunities", Reading Hospital Department of Anesthesiology Grand Rounds, West Reading, PA, August 2019.
98. "Lessons from the far end of the translational spectrum: implementation science and perioperative handoffs", Mayo Clinic Department of Anesthesiology Grand Rounds, Rochester, MN, October 2019.
99. "Research, educational, and administrative tracks in academic medicine", Mayo Clinic Department of Anesthesiology Resident Conference, Rochester, MN, October 2019.
100. "Selection of outcomes to characterize handoff effectiveness", Research conference, University of Chicago Department of Anesthesiology, Chicago, IL, November 2019.
101. "What implementation science has to teach anesthesia and perioperative care", University of Chicago Joint Grand Rounds, Center for Healthcare Delivery Science and Innovation and the Department of Anesthesia and Critical Care, Chicago, IL, November 2019.
102. "Learning from front-line providers in implementing structured perioperative handoffs: original research from the Handoffs and Transitions in Critical Care (HATRICC) study", University of Maryland Medical Center Grand Rounds, Department of Anesthesiology, Baltimore, MD, January 2020.
103. "Handoffs across the continuum of anesthesia care: how primary and secondary data add value to perioperative care research", Stanford University Medical Center Grand Rounds, Department of Anesthesiology, Palo Alto, CA, March 2020.
104. "Pragmatic studies in good times and bad: REGAIN and the intubateCOVID US provider registry", Washington University in St. Louis Grand Rounds, Department of Anesthesiology, St. Louis, MO, April 2020 (virtual; co-presentation with Mark Neuman, MD, MSc).
105. "The power of qualitative and mixed methods in acute care implementation science", Fred Hutchinson Cancer Research Center, Cancer Policy Research Affinity Group Research Seminar, Seattle, WA, August 2020 (virtual).
106. "Improving handoffs for better perioperative care: supporting communication through human factors engineering and implementation science", Boston Children's Hospital Grand Rounds, Department of Anesthesiology, Critical Care, and Pain Medicine, Boston, MA, September 2020 (virtual).
107. "The science of clinician behavior change applied to perioperative handoffs: lessons from the Handoffs and Transitions in Critical Care (HATRICC) study", Washington University in St. Louis Grand Rounds, Department of Anesthesiology, St. Louis, MO, October 2020 (virtual).
108. "Acute care qualitative and mixed methods research: words can be data too", BH Robbins Research Seminar, Vanderbilt University Medical Center, Department of Anesthesiology, Nashville TN, November 2020 (virtual).
109. "Using implementation science to promote evidence-based OR to ICU handoffs", Vanderbilt University Medical Center Grand Rounds, Department of Anesthesiology, Nashville, TN, November 2020 (virtual).
110. "Managing Information Overload in the COVID-19 Era", University of Miami Miller Medical School Grand Rounds, Department of Anesthesiology, Perioperative Medicine, and Pain Management, Miami, FL, December 2020 (virtual).
111. "It's not 'just' a handoff: using quantitative and qualitative methods to understand and improve perioperative communication", University of Arkansas for Medical Sciences Grand Rounds, Department of Anesthesiology, Little Rock, AR, February 2021 (virtual).
112. "We've started the conversation about DE&I – what comes next?", Nemours/Alfred I. duPont Hospital for Children Grand Rounds, Department of Anesthesiology, Wilmington, DE, February 2021 (virtual).

113. "Making it easier to do the right thing: implementation science in perioperative care", Wake Forest School of Medicine Grand Rounds, Department of Anesthesiology, Winston-Salem, NC, March 2021 (virtual).
114. "Implementation Science, Human Factors Engineering, and the Improvement of Perioperative Handoffs." University of Kansas Medical Center Grand Rounds, Department of Anesthesiology, Kansas City, KS, May 2021 (virtual).
115. "Diversity, equity, and inclusion in health care: moving past statements to durable action", Bryn Mawr Hospital Medicine Grand Rounds, June 2021 (virtual).
116. "Perioperative handoffs: translating evidence into the real world", Westchester Medical Center Grand Rounds, Department of Anesthesiology, Westchester, NY, August 2021 (virtual).
117. "Handoffs and Transitions in Critical Care –Understanding Scalability: unpacking design in a hybrid trial", Implementation Research Institute, September 2021 (virtual).
118. "Dispatches from the far end of the translational research spectrum: implementation science and the improvement of perioperative handoffs", Johns Hopkins University School of Medicine Grand Rounds, Department of Anesthesiology, Baltimore, MD, January 2022 (virtual).
119. "Diversity, equity, and inclusion in health care: moving past statements to durable action", Lankenau Hospital Medicine Grand Rounds, January 2022 (virtual).
120. "Qualitative and mixed methods research in anesthesia: challenges and opportunities", UCSF Department of Anesthesia and Perioperative Care Research Conference, San Francisco, CA, April 2022.
121. "Implementation science meets human factors engineering in perioperative care: lessons learned from perioperative handoffs", UCSF Department of Anesthesia and Perioperative Care Grand Rounds, San Francisco, CA, April 2022.
122. "Using Maslow's Hierarchy to Support Women in Medicine and Science", Texas Tech University Health Sciences Center Women in Medicine Conference, El Paso, TX, September 2022.
123. "Implementation science in critical care: advancing evidence-based practice in an evidence-challenged setting", Mount Sinai Department of Medicine Division of Pulmonary, Critical Care and Sleep Medicine Grand Rounds, New York, NY, October 2022 (virtual).
124. "Hard fought lessons learned from critical care implementation science", University of Pittsburgh Department of Critical Care Medicine Grand Rounds, Pittsburgh, PA, November 2022.
125. "Changing behavior in anesthesia and perioperative care through implementation science", Duke University Department of Anesthesiology Grand Rounds, Raleigh-Durham, NC, January 2023 (virtual).

**KEYNOTE ADDRESSES, PLENARY LECTURES, AND NAMED LECTURESHIPS:**

126. Ralph A. Peck Memorial Grand Rounds Lecture, "Mixed methods research comes to anesthesia: Improving OR to ICU handoffs" and "Quality Improvement in Action: How an Adverse Event Revealed Differences in Resident Knowledge about Sedation", Medical College of Wisconsin Department of Anesthesiology, Milwaukee, WI, Jan 2017.
127. "When implementation can't wait: the use of hybrid effectiveness-implementation designs in hospital-based research", keynote presentation at the UCSF Research in Implementation Science for Equity Symposium, San Francisco, CA, July 2018.
128. "Why it takes so long to get evidence into practice and what we can do about it: an introduction to implementation science", keynote address at the American Medical Women's Association Ideas to Action West Coast Regional Conference, Portland, OR, October 2018.
129. "The Science of Changing Behavior in the Perioperative Period: the Handoffs and Transitions in Critical Care HATRICC study", Patricia Kapur Grand Rounds, University of California Los Angeles Department of Anesthesiology, Los Angeles, CA, February 2021 (virtual).
130. "A failure to communicate: Interpersonal interactions and detection of the deteriorating patient", opening keynote speaker, Australian and New Zealand College of Anaesthetists and Faculty of Pain Medicine Annual Scientific Meeting, April 2021 (virtual).
131. "Perioperative implementation science", Evidence Based Perioperative Medicine (EBPOM) Visiting Professor Plenary Lecture, 20<sup>th</sup> EBPOM World Congress in Evidence Based Perioperative Medicine 2021, July 2021 (virtual).
132. Keynote address, "Advancing Environmental Health Equity through Implementation Science", National Institute of Environmental Health Sciences, February 2022.



133. “The rise of qualitative and mixed methods in anesthesia research”, Crawford Long Memorial Lecture, Emory University Department of Anesthesiology, Atlanta, GA, March 2022 (virtual).
134. “Evidence-based medicine and implementation science: rethinking assumptions in service of equity”, inaugural J. Sanford Schwartz Lecture, Department of Medicine, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA, May 2022.
135. “Looking beyond individuals: fostering organizational change in diversity, equity, and inclusion”, University of Arizona College of Medicine Tucson Spark Lecture, Tucson, AZ, June 2022 (virtual).
136. “First, do no harm to anyone: how patient safety aligns with inclusion, diversity, and equity”, keynote address for Alpha Omega Alpha induction ceremony and Grand Rounds, Department of Internal Medicine, University of Chicago, Chicago, IL, February 2023.
137. “Diversity and inclusivity in critical care medicine,” plenary address for the 16<sup>th</sup> annual Southeastern Critical Care Summit, Emory University, Atlanta, GA, August 2023.

UPCOMING INVITED PRESENTATIONS:

- |          |  |
|----------|--|
| Nov 2023 | Grand Rounds speaker, Yale University Department of Anesthesiology, New Haven, CT  |
| Jan 2024 | Invited speaker, Keystone Seminar Series, National Institute of Environmental Health Sciences Division of Extramural Research & Training, Durham, NC     |
| Apr 2024 | Grand Rounds speaker, University of Vermont Department of Anesthesiology, Burlington, VT   |
| Jun 2024 | Desmond Jordan Memorial Lecture, Departments of Anesthesiology and Surgery, Columbia University Vagelos College of Physicians and Surgeons, New York, NY |
| Sep 2024 | Grand Rounds speaker, University of Minnesota Department of Anesthesiology, Minneapolis, MN  |

GRANTS

***Current grants that include funded effort:***

*As Principal Investigator or MPI*

1. “Handoffs and Transitions in Critical Care – Understanding Scalability”, 1R01HL153735, \$3,595,226, NIH/NHLBI, 9/2020-6/2025; 19% effort (Role in grant: PI).
2. “Transforming the Generation and Adoption of PCOR into Practice (T-GAPP)”, K12HS026372, \$1,948,620, AHRQ 9/30/2018-9/29/2023, 10% effort, (Role: Co-PI (contact) with David Asch, my role started 12/2020).
3. “Identifying facilitators and barriers of diversity and representativeness in RCTs”, project #1 in the larger center grant “Behavioral Economics to Transform Trial Enrollment Representativeness (BETTER) Center”, 962544, American Heart Association, \$1,095,372, 4/1/22-3/31/26; 10% effort (Role in grant: Project MPI (contact); Center PI: Scott Halpern).
4. “Achieving maternal equity and transforming health through implementation science and training (AMETHIST@Penn)”, NIH/NICHHD, 1U24HD113146, \$19,011,382, 8/15/2023-6/30/2030, 20% effort (Role in grant: MPI (contact) with Rebecca Feldman Hamm).
5. “Center for Improving Care Delivery for the Aging”, NIH/NIA, 2P30AG059302, \$3,300,057, 9/1/2023-6/30/2028, 10% effort (Role in grant: MPI with Rachel Werner (contact) and Allison Willis).

*As Co-Investigator or Collaborator*

1. “Randomized controlled trial of a novel digital health solution to enable remote fetal monitoring in high risk pregnancies”, NIH/NICHHD, 1R01HD105446, 9/20/2021-8/31/2024, 1-5% effort (Role in grant: Co-investigator).
2. “A randomized controlled trial of concentrated investment in Black neighborhoods to address structural racism as a fundamental cause of poor health”, NIH/OD, 1U01OD033246, 9/23/2021-8/31/2026, 10% effort (Role in grant: Co-investigator).
3. “Trajectories of Recovery after total IntraVenous vs inhalational anestHesia for major surgery”, PCORI 21106, 1/1/2022-10/31/2027, 0-10% variable effort (Role in grant: Co-investigator; PIs: Sachin Kheterpal, Michael Avidan).
4. “A multicenter pragmatic randomized trial evaluating effectiveness and safety of outpatient Foley catheter for cervical ripening in nulliparous women: a Type 1 hybrid effectiveness-implementation study”, NIH/NICHHD, 1R01HD109229, 9/21/2022-6/30/2027; 1-5% effort (Role in grant: Co-investigator; PI: Lisa Levine).
5. “Penn Center for AIDS Research – Core H” (implementation science core), NIH/NIAID, 5P30AI045008-25, 7/1/2023-6/30/2024, 5% effort (Role in grant: Core Co-Director).

6. "IC-CSRisk Study: Implementation of Calculated Cesarean Section Risk during labor induction, a multi-site stepped-wedge randomized rollout trial", NIH/NICHD, 1R01HD113618, 1/1/2024-12/31/2028, 10% effort (Role in grant: Co-investigator; PI: Rebecca Hamm).

**Current grants that do not include funded effort:**

1. "Fidelity and adaptation of breast cancer resource-stratified treatment guidelines in Botswana", 1K01TW011481, Fogarty International Center/ National Cancer Institute, 05/2020-02/2024, 0% effort (Role in grant: Consultant/co-mentor; PI: Yehoda Martei, MD, MSCE [mentee]).
2. "Early respiratory care in amyotrophic lateral sclerosis patients at high-risk for respiratory failure", 1K23HL151879, National Heart, Lung, and Blood Institute; 2020-2024; 0% effort (Role in grant: Co-mentor; PI: Jason Ackrivo [mentee]).
3. "Get Experience in Aging Research Undergraduate Program (GEAR UP)", NIH/NIA, 1R25AG069719, 4/2022-3/2027, 0% effort (Role in grant: Mentor; PIs Norma Coe, Hans-Peter Kohler, Rachel Werner).
4. "The Role of Intraoperative Transesophageal Echocardiography During Isolated Coronary Artery Bypass Graft Surgery", NIH/NHLBI, 1K23HL166964-01A1, 8/2023-7/2028, 0% effort (Role in grant: Co-Mentor; PI Emily MacKay).

**Pending or pending review:**

1. "Evaluating the relationship between skin color and pulse oximeter accuracy in children", NIH/NHLBI, 1R01HL171313, 12/1/2023-11/30/2027, 2.5% effort (Role in grant: Co-investigator; PI: Michael O'Byrne and Halley Ruppel [contact]).
2. "Patient-Oriented Research and Training to Accelerate Learning (Penn PORTAL)", AHRQ, 1P30HS029745, 9/1/2023-8/31/2028, 7% effort (Role in grant: MPI with M. Kit Delgado and Scott Halpern [contact]).
3. "Development of an equity in labor outcomes dashboard: an implementation strategy for disparities-focused obstetric interventions", NIH/NICHD, R21 number pending, 4/1/2024-3/31/2026, 2.5% effort (Role in grant: Co-investigator; PI: Rebecca Hamm).
4. "University of Pennsylvania Prevention Research Center", CDC, 1U48DP006801, 9/30/2024-9/29/2029, 13-14% variable effort (Role in grant: MPI with Karen Glanz [contact] and Oluwadamilola Fayanju).
5. "Penn Center for AIDS Research – Core H" (implementation science core), NIH/NIAID, 5P30AI045008-26, 7/1/2024-6/30/2029, 5% effort (Role in grant: Core Co-Director).

**Past (most recent first):**

1. "Center for Improving Care Delivery for the Aging (CICADA)", 1P30AG059302-05, \$2,245,755, NIH/NIA, 9/2018-6/2023; 5% effort (Role in grant: Co-investigator; PIs: Rachel Werner and Allison Willis)
2. "Handoffs and Transitions in Critical Care – Acute care Implementation Research Ethics (HATRICC-AIRE)", 3R01HL153735-02S1, NIH/NHLBI, \$144,646, 9/10/2021-7/31/2022 (Role in grant: PI).
3. "A telehealth solution to improve community access to fetal monitoring in high risk pregnancies: a feasibility pilot study", 22826, Penn Institute for Translational Medicine and Therapeutics Community Engagement and Research Core, 2021-2022, \$20,000 (Role in grant: Co-investigator).
4. "Mapping the epidemiology of perioperative driving safety and behavior", Anesthesia Patient Safety Foundation / Foundation for Anesthesia Education and Research, 7/2020-6/2022; 0% effort, \$300,000 (Role in grant: mentor/co-investigator; PI: Timothy Gaulton, MD, MSCE [mentee]).
5. "Handoff Effectiveness Research in periOperative environments (HERO) Collaborative Research Conference", R13HS027769-0, Agency for Healthcare Research and Quality, \$50,000, 3/1/2021-2/28/2022; 0% effort (Role in grant: Co-investigator; PI: Philip Greilich).
6. "Characterizing the trajectory, complications, and biological mechanisms of the long-term health consequences of critical illness related to COVID-19: the Penn-KCL 'Long-COVID' Research Platform", 21880, \$400,000, Penn Institute for Translational Medicine and Therapeutics, 2/2021-1/2022; 0.5% effort (Role in grant: MPI with Michael Harhay (contact), Nuala Meyer).
7. "Rethinking the Clinical Prediction of Blood Transfusion Requirements by Integrating Machine Learning", American Society of Anesthesiologists Committee on Professional Diversity Mentoring Award, 2020-2021, 0% effort, \$2,000 (Role in grant: Mentor; PI: Carlos Estrada Alamo, MD, MBA [mentee]).
8. "Context-specific standardization of operating room to intensive care unit handoffs", Grant number 73312, \$420,000, Robert Wood Johnson Foundation Harold Amos Medical Faculty Development Program, 7/2016-12/2020, 5% effort (Role in grant: PI)

9. "Penn TeleICU Value and Opportunity (Penn TIVO)", \$85,832, Penn Medicine, 11/2019-10/2020; 10% effort (Role in grant: PI)
10. Provost's Faculty Opportunity Fund, University of Pennsylvania Office of the Provost, 1/2014-12/2018, 10-50% variable effort over the grant period (Role in grant: PI)
11. "Optimizing handoffs from the operating room to the intensive care unit", \$55,802, NIH Loan Repayment Program; National Institute on Minority Health and Health Disparities (NIMHD), 7/2015-7/2017, 0% effort (Role in grant: PI)
12. "Handoffs and Transitions in Critical Care", \$5,000, Penn Center for Undergraduate Research and Fellowships, 06/2016-08/2016, 0% effort (Role in grant: PI)
13. "Characterizing patient-centered outcomes after severe traumatic injury", \$19,200, University of Pennsylvania McCabe Fund Pilot Award, 7/2015-6/2016, 0% effort (Role in grant: PI)
14. "Characterizing patient-centered outcomes after severe traumatic injury", \$1,980, Penn Presbyterian Medical Center Bach Fund, 7/2015-6/2016, 0% effort (Role in grant: PI)
15. "Optimizing handoffs from OR to ICU", \$150,000, Anesthesia Patient Safety Foundation Safety Scientist Career Development Award, 7/2014-6/2016, 33% effort (Role in grant: PI)
16. "Understanding the relationship between intensive care unit physician and nurse staffing patterns and short-term outcomes in cardiac surgery patients", \$70,000, NIH Loan Repayment Program; National Institute on Minority Health and Health Disparities (NIMHD), 7/2013-6/2015, 0% effort (Role in grant: PI)
17. "Handoffs and Transitions in Critical Care", \$5,500, Penn Center for Undergraduate Research and Fellowships, 06/2014-08/2014, 0% effort (Role in grant: PI)
18. "Training in critical care health policy research", NIH National Heart, Lung, and Blood Institute, T32HL098054, 8/2011-8/2013; 80% effort (Role in grant: Trainee; PI: David Asch)
19. American Society of Anesthesiologists Committee on Professional Diversity Mentoring Award, \$2,000, 2010 (Role in grant: mentee; mentor: John E. Ellis, MD)

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2. **Lane-Fall MB**, Iwashyna TI, Cooke CR, Benson NM, Kahn JM. Insurance and racial differences in long-term acute care utilization after critical illness. *Critical Care Medicine*, 40(4):1143-1149, April 2012. [PMID: 22020247](#). Accompanied by editorial.
3. **Lane-Fall MB**, Brooks AK, Wilkins SA, Davis JJ, Riesenbergl L. Addressing the mandate for handoff education: A focused review and recommendations for anesthesia resident curriculum development and evaluation. *Anesthesiology*, 120(1):218-29, Jan 2014. [PMID: 24212196](#). (First two authors share first-authorship credit.)
4. **Lane-Fall MB**, Speck RM, Ibrahim SA, Shea JA, McCunn M, Bosk CL. Are attendings different? Intensivists explain their handoff ideals, perceptions, and practices. *Annals of the American Thoracic Society*, 11(3):360-66, Mar 2014. [PMID: 24328937](#).
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11. Gutsche JT, Mikkelsen M, McCarthy F, Miano T, Vernick W, Ramakrishna H, Patel P, Augoustides J, Szeto W, Desai N, **Lane-Fall M,** Williams M. Venovenous Extracorporeal Life Support in Hemodynamically Unstable Patients with ARDS. *Anesthesia & Analgesia*, 124(3):846-8, Mar 2017. [PMID: 27749338](#). (Response published in *Anesthesia & Analgesia*, 125(2):706-707. [PMID: 28654432](#).)
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15. Dunn Lopez K, O'Rourke J, **Lane-Fall M**, Abraham J. "Improving Handoffs Using a Systems Framework and Simulation." Comprehensive Healthcare Simulation Series: Improving Healthcare Systems, Deutsch E, Gurnaney H, Perry S (eds), Springer, 2021. ISBN 978-3-030-72973-8.
16. Duffy CC and **Lane-Fall MB**. "An Overview of Common Improvement Methodologies and Their Background." Perioperative Quality Improvement. Peden CJ, Fleisher LA, Englesbe M (eds), McGraw-Hill, 2022. ISBN-13: 978-0323833998.
17. Duffy CC and **Lane-Fall MB**. "Human Factors and Perioperative Improvement: Handover Checklists and Protocols for Safe and Reliable Care Transitions." Perioperative Quality Improvement. Peden CJ, Fleisher LA, Englesbe M (eds), McGraw-Hill, 2022. ISBN-13: 978-0323833998.

#### LAY PRESS (PRINT, ONLINE, OR OTHER MEDIA):

1. **Lane, M**. Weekly columnist, *Daily Californian* newspaper, University of California at Berkeley, 1999-2000.
2. **Lane-Fall M**. "Their ties could be your neck." *Philadelphia Inquirer*, October 26, 2012.
3. **Lane-Fall M**. "Why patients deserve full disclosure about treatment." *Philadelphia Inquirer*, December 29, 2013.
4. **Lane-Fall M**. "The complexities of race and racism in healthcare." *Philadelphia Inquirer*, January 27, 2014.
5. **Lane-Fall M**. "Patient handoffs: a high-stakes game of telephone." Blog post on Leonard Davis Institute of Health Economics Voices Blog. November 20, 2014. <http://ldi.upenn.edu/voices/2014/11/20/patient-handoffs-a-high-stakes-game-of-telephone>
6. Agarwala A and **Lane-Fall M**. "The evidence base for optimal conduct of handoffs." *Anesthesia Patient Safety Foundation Newsletter*, 32(3): 36-39, October 2017. Available at: [https://www.apsf.org/newsletters/html/2017/Oct/05\\_EvidenceBase.htm](https://www.apsf.org/newsletters/html/2017/Oct/05_EvidenceBase.htm)
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8. **Lane-Fall MB**, Gerlach AT, Hravnak M, Khanna AK. "Clinical spotlight: research support for early career investigators." *Critical Connections (Society of Critical Care Medicine)*, June 2018. Available at: <http://www.sccm.org/Communications/Critical-Connections/Archives/2018/Research-Support-for-Early-Career-Investigators?zs=GKdid1&zl=Sei35>
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10. **Lane-Fall M** and Fleisher L. "Implementation science and quality improvement: two different fields with aligned goals." Webinar for Elsevier's *Anesthesiology Clinics*, November 8, 2018.
11. **Lane-Fall M**. "This physician knows what a ventilator shortage means during COVID-19 – and how we all can help." *Philadelphia Inquirer*, March 23, 2020.
12. Feldman J and **Lane-Fall M**. APSF Statement on Pulse Oximetry and Skin Tone. *APSF Newsletter*, June 2021.
13. Methangkool E, Harbell MW, **Lane-Fall MB**. The Present and Future Champions of Patient Safety. *ASA Monitor* 85:30-42, October 2021. Available at: <https://doi.org/10.1097/01.ASM.0000795176.25982.81>.
14. **Lane-Fall MB**. Why diversity, equity, and inclusion matter for patient safety. *ASA Monitor* 85:42, November 2021. Available at: <https://doi.org/10.1097/01.ASM.0000798588.38346.fc>.

#### INTERVIEWS:

1. Guest appearance on radio show "Information is the Best Medicine." 900 AM WURD Philadelphia, Host: Glenn Ellis. February 22, 2014.
2. Interviewed for "The doctor won't see you now: Patients in American hospitals often get away with asking for caregivers based on race", by Elijah Wolfson. Al Jazeera America, July 3, 2014. Available at: <http://america.aljazeera.com/articles/2014/7/3/the-doctor-won-tseeyounow.html>
3. Interviewed for "Key steps can help patients recover from a stay in the ICU", by Judith Graham. Kaiser Health News, September 15, 2016. Available at: <http://khn.org/news/key-steps-can-help-patients-recover-from-a-stay-in-the-icu/>
4. Interviewed for OpenAnesthesia "Ask the expert", October 2017. Available at: <http://www.openanesthesia.org/ask-the-expert/>
5. Interviewed for "Reinvent and reap the rewards of improved handoffs—Part 1", by Cynthia Saver. OR Manager, December 17, 2019. Available at: <https://www.ormanager.com/reinvent-reap-rewards-improved-handoffs-part-1/>
6. Interviewed for Anesthesia Success podcast entitled, "Leadership and Contingency Planning for COVID at UPenn with Dr. Meghan Lane-Fall", March 21, 2020. Available at: <https://anesthesiasuccess.com/special-episode-leadership-and-contingency-planning-for-covid-at-upenn-w-dr-meghan-lane-fall/>
7. Guest appearance on radio show "Radio Times with Marty Moss-Coane." WHYY Philadelphia, Host: Marty Moss-Coane. April 8, 2020. Available at: <https://whyy.org/episodes/medical-ethics-in-a-pandemic/>

ABSTRACTS AND POSTER PRESENTATIONS (Abstracts leading to publications marked with \*):

1. Hoh R, **Lane M**, Christiansen M, Hellerstein M: Effects of interrupting and re-initiating antiretroviral therapy on fasting lipids, insulin and glucose in HIV-infected patients. Universitywide AIDS Research Program, University of California, 19th Annual AIDS Investigators' Meeting, 5th Annual Conference on AIDS Research in California: Sacramento, CA February 2002.
2. **Lane M**, Margolis A, Rybin D, Colson E: Yale University School of Medicine: 2006 student thesis abstracts - Mother Knows Best: Maternal Experience and Choice of Infant Sleep Position. Yale Journal of Biology and Medicine 79(2), June 2006.
3. \***Lane-Fall M**, Benson N, Cooke C, Iwashyna T, Kahn J: Insurance and racial differences in long-term acute care utilization after critical illness. Poster presented at the Society of Critical Care Medicine Annual Congress: Miami, FL 2010 Jan.
4. \***Lane-Fall M**, McCunn M, Speck R, Bosk C: Changing the captain of the ship: Attending handoffs in the intensive care unit. Poster presented at the Association of University Anesthesiologists Annual Meeting, May 2012, Cleveland, OH.
5. \***Lane-Fall M**, Speck RM, McCunn M, Bosk C: Attending handoffs in the intensive care unit. Poster presented at the American Society of Anesthesiologists Annual Meeting, October 2012, Washington, DC.
6. **Lane-Fall M**, **Brennan K**, Levy W: Identification of intraoperative anesthetic record documentation failures. Poster discussion at the American Society of Anesthesiologists Annual Meeting, October 2012, Washington, DC.
7. \*Pisa M, Collins T, Robertson M, Sicoutris C, Bushan N, Saucier J, Martin A, Reilly P, **Lane-Fall M**, Kohl B: Use of a Critical Care Nurse Practitioner-Driven Outreach Initiative to Reduce Readmission Mortality. Poster presented at the Society of Critical Care Medicine Annual Meeting, January 2013, San Juan, Puerto Rico.
8. \***Lane-Fall M**, Spivey J, Mullen-Fortino M, Kohl B, Reilly P, Pascual J: Novel integration of critical event video review for performance improvement in the intensive care unit. Poster presented at the Academy for Healthcare Improvement Research Conference, April 2013, Arlington, VA.
9. \*Clark K, Guidi J, Upton M, Faust H, Betesh J, Feeley, D, Hanish A, **Lane-Fall M**, Mikkelsen M, Schweickert W, Smith K, Tait G, Vanzandbergen C, Umscheid C, Fuchs B: Provider Perception of the Effectiveness of an Early Warning System for Sepsis in an Academic Medical Center. Poster presented at the Children's Hospital of Philadelphia Annual Mid-Atlantic Healthcare Informatics Symposium, April 2013, Philadelphia, PA.
10. \***Lane-Fall M**, He X, Wiltse Nicely K, Fleisher L, Neuman M: There is more than one way to make a team: Physician and nurse staffing patterns in Pennsylvania cardiac surgery intensive care units. Poster presented at the AcademyHealth Annual Research Meeting, June 2014; San Diego, CA. (In-progress findings also presented at Association of University Anesthesiologists Annual Meeting, April 2014, Palo Alto, CA and Society of Critical Care Anesthesiologists Annual Meeting, October 2013, San Francisco, CA).

11. \*Hochman B, Barry M, **Lane-Fall M**, Allen S, Holena D, Smith B, Kaplan L, Pascual J: Handoffs in the intensive care unit: are off hours a vulnerable time? Oral presentation at the Southwestern Surgical Congress, April 2015, Monterey, CA. Published in the Journal of the American College of Surgeons, 2015; 221(4, Supplement 1):S43.
12. \***Lane-Fall M**, Collard M, Turnbull A, Halpern S, Shea J: ICU attending handoff practices explained: results from a national survey of academic intensivists. Poster presented at the AcademyHealth Quality and Value Interest Group Meeting, June 2015, Minneapolis, MN.
13. \***Lane-Fall M**, Collard M, Gutsche J, Pascual J, Peifer H, Barry M, Beidas R, Halpern S, Barg F, Fleisher L: Handoffs and Transitions in Critical Care (HATRICC): Mixed-methods evaluation and standardization of OR to ICU handoffs in a mixed surgical population. Oral presentation at the American Society of Anesthesiologists Annual Meeting, October 2015, San Diego, CA.
14. \***Lane-Fall M**, Miano T, Aysola J, Augoustides J: Diversity in the Emerging Intensivist Workforce: Trends in Critical Care Fellows from 2004-2014. Research Snapshot Presentation at the Society of Critical Care Medicine Annual Congress, February 2016, Orlando, FL. Published in Critical Care Medicine, Dec 2015, 43(12 Suppl 1): 167.
15. \***Lane-Fall M**, Pascual J, Collard M, Jablonski J, Beidas R, Gutsche J, Fleisher L, Barg F: Developing a standard OR to ICU handoff process. Research Snapshot Presentation at the Society of Critical Care Medicine Annual Congress, February 2016, Orlando, FL. Published in Critical Care Medicine, Dec 2015, 43(12 Suppl 1): 239-240.
16. \*Ramaswamy T, **Lane-Fall M**, Brown S, Fleisher L, Neuman M: Nighttime intensivist staffing in Pennsylvania cardiac surgery ICUs. Research Snapshot Presentation at the Society of Critical Care Medicine Annual Congress, February 2016, Orlando, FL. Published in Critical Care Medicine, Dec 2015, 43(12 Suppl 1): 329.
17. Burson R, Arriaga A, Clapp J, **Lane-Fall M**, Gordon E, Harris D, Fleisher L: Towards a culture of change: policy adoption to address communication and professionalism in an anesthesiology department. Poster presentation at the Accreditation Council on Graduate Medical Education Annual Educational Conference, February 2016, National Harbor, MD.
18. Cobb B and **Lane-Fall M**: Risk Factors for the use of General Anesthesia for Cesarean sections: A systematic review. Poster presentation at the Society of Obstetric Anesthesia and Perinatology, May 2016, Boston, MA.
19. \***Lane-Fall M**, Pascual J, Gutsche J, Di Taranti L, Buddai S, Barg F, Fleisher L: Handoff standardization in two mixed surgical intensive care units improves teamwork and information exchange: preliminary findings from the Handoffs and Transitions in Critical Care (HATRICC) study. Poster presentation at the International Anesthesia Research Society Annual Meeting; 2016 May 21-24; San Francisco, CA.
20. Mosquera D, Di Taranti L, **Lane-Fall M**: Monday morning: ICU physicians' perspectives on how attending handoffs impact patient families. Poster presentation at the International Anesthesia Research Society Annual Meeting, May 2016, San Francisco, CA.
21. Plash M, Brooks A, **Lane-Fall M**, Riesenber L: Handoff curriculum in anesthesia residency programs: a national survey of program directors. Poster presentation at the International Anesthesia Research Society Annual Meeting, May 2016, San Francisco, CA.
22. \*Davis J, **Lane-Fall M**, Riesenber L: What every graduating resident needs to know about quality and safety: A narrative analysis of 26 sets of ACGME milestones. Accepted for poster presentation, American Board of Medical Societies Conference, September 2016, Cleveland, OH.
23. \***Lane-Fall M**, Beidas R, Di Taranti L, Choudhary M, Thonduparambil D, Fleisher L, Barg F: Barriers and facilitators of adherence to a standardized handoff intervention according to different clinician types: findings from a hybrid effectiveness-implementation study of operating room to intensive care unit handoffs. Poster slam presentation at the AcademyHealth/NIH 9th Annual Conference on the Science of Dissemination and Implementation in Health, December 2016, Washington, DC.
24. \***Lane-Fall M**, Beidas R, Di Taranti L, Buddai S, Torres Hernandez E, Watts J, Fleisher L, Barg F: Evidence supporting clinician acceptance of a standardized handoff process: findings from a hybrid effectiveness-implementation study of operating room to intensive care unit handoffs. Oral presentation at the AcademyHealth/NIH 9th Annual Conference on the Science of Dissemination and Implementation in Health, December 2016, Washington, DC.
25. \*Davis J, **Lane-Fall M**, Riesenber L: What every graduating resident needs to know about quality and safety: A narrative analysis of 26 sets of ACGME milestones. Poster presentation at the American College of Medical Quality Annual Conference, March-April 2017, Washington, DC.

26. Garcia H, Murphy S, Zhou E, Hoenisch K, Chin A, Han J, Weiss S, **Lane-Fall M**, Milas B: Standardization of OR to CTSICU handoff in an academic hospital. Poster presentation at the Society of Cardiovascular Anesthesiologists Annual Meeting, April 2017, Orlando, FL.
27. \*Perfetti A, Di Taranti L, Buddai S, **Lane-Fall M**: Evaluating a standardized handoff process: Mixed-methods findings from the Handoffs and Transitions in Critical Care (HATRICC) Study. Poster display at the BMJ International Forum on Quality and Safety in Healthcare, April 2017, London, England.
28. Cobb B, Hsu N, Month R, **Lane-Fall M**: Does socioeconomic status predict anesthesia type for Cesarean sections? Poster presentation at the Society for Obstetric Anesthesia and Perinatology Annual Meeting, May 2017, Bellevue, WA.
29. Burson R, Di Taranti L, Buddai S, **Lane-Fall M**: Patient- and Caregiver-Reported Outcomes During Critical Illness Recovery: A Systematic Review. Poster discussion at the American Thoracic Society International Conference, May 2017, Washington, DC.
30. \*Perfetti A, Di Taranti L, Buddai S, Choudhary M, Massa S, Peifer H, Thonduparambil D, Wang C, **Lane-Fall M**: Clinician Perspectives on a Standardized Handoff Process: Qualitative Findings from the Handoffs and Transitions in Critical Care (HATRICC) Study. Poster discussion at the American Thoracic Society International Conference, May 2017, Washington, DC.
31. Buddai S, Di Taranti L, Adenwala A, Aeppli S, Choudhary M, George D, Koilor C, Linehan M, Peifer H, Rub D, Kaplan L, Johnson N, **Lane-Fall M**: Characterizing Intensive Care Unit Patient and Family Experiences of Recovery After Traumatic Injury. Poster presentation at the American Thoracic Society International Conference, May 2017, Washington, DC.
32. Peifer H, Collard M, Di Taranti L, Barg F, **Lane-Fall M**: A Tale of Two Units: Standardization of OR to ICU handoffs in two different intensive care units. Poster presentation at the American Society of Anesthesiologists Annual Meeting, October 2017, Boston, MA.
33. Koilor C, Peifer H, **Lane-Fall M**: The family view of trauma ICU recovery: early results from a longitudinal qualitative study. Research Snapshot Presentation at the Society of Critical Care Medicine Annual Congress, February 2018, San Antonio, TX.
34. \*Adenwala A, Davis J, **Lane-Fall M**: Defining familial interactions and networks (DEFINE): an exploratory study on family networks and surrogate decision making in the ICU. Poster presentation at the International Anesthesia Research Society Annual Meeting, April-May 2018, Chicago, IL.
35. \*Cobb B, **Lane-Fall M**, Onuoha O, Month R, Neuman M: Do obstetric anesthesiologists provide more guideline-concordant care for patients undergoing cesarean delivery? Poster presentation at the International Anesthesia Research Society Annual Meeting, April-May 2018, Chicago, IL.
36. Gaulton T, **Lane-Fall M**: Obesity and End of Life Decision Making. Poster presentation at the American Thoracic Society International Conference, May 2018, San Diego, CA.
37. **Lane-Fall M**, Peifer H, Wang C, Beidas R, Barg F: Same intervention, different settings: Context explains differential effectiveness of a handoff protocol in two intensive care units. Poster presentation at the Research in Implementation Science for Equity Symposium, University of California San Francisco, July 2018, San Francisco, CA.
38. \*Gold A, Leong R, Feduska E, **Lane-Fall M**, Pascual J, Rock K: Leveraging telemedicine for QI video review of critical ICU events - A novel educational tool. Poster presentation at the Pennsylvania Society of Critical Care Medicine Challenges in Critical Care Medicine Conference, August 2018, Hershey, PA.
39. \*Clapp JT, Diraviam SP, **Lane-Fall MB**, Fleisher LA: The clinical "stranger" effect: examining communication between consultants and care teams. Poster presentation at the 16<sup>th</sup> International Conference on Communication in Healthcare, September 2018, Porto, Portugal.
40. Rub D, **Lane-Fall MB**: Cognitive, physical, and emotional recovery strategies after trauma-related ICU experience. Podium presentation at the National Summit on Post-Acute Care Safety and Quality, October 2018, Washington, DC.
41. Meisarah M, Mosquera D, Burton K, **Lane-Fall M**: Multifaceted assessment of operating room to post-anesthesia care unit handoffs: challenges to communication include variability in relevant information and personal relationships. Poster presentation at the American Society of Anesthesiologists Annual Meeting, October 2018, San Francisco, CA.
42. \*Warshauer A, Vella MA, Tortorello G, Fernandez-Moure J, Giacalone J, Chen B, Cabulong A, Chreiman K, Sims C, Schwab CW, Reilly PM, **Lane-Fall M**, Seamon MJ: What happens to gunshot wound survivors? A comprehensive

- assessment of long-term outcomes after firearm injury. Oral presentation at the Pennsylvania Committee on Trauma/Pennsylvania Trauma Systems Foundation Fall Conference, October 2018, Harrisburg, PA.
43. Greysen H, Greysen S, Naylor M, Shi, C, Rosin, R, **Lane-Fall M**: Innovation is not a guarantee of implementation success: clinical nurses adhere more to a standard education strategy than to gamification. Oral presentation at the AcademyHealth/NIH Annual Conference on the Science of Dissemination and Implementation in Health, December 2018, Washington, DC.
  44. \*Massa S, Peifer H, **Lane-Fall M**: Multidisciplinary differences in communication approaches during OR-to-ICU handoffs. Research snapshot presentation at the Society of Critical Care Medicine Annual Congress, February 2019, San Diego, CA.
  45. \*Gold A, Leong R, Feduska E, **Lane-Fall M**, Pascual J, Rock K: Leveraging telemedicine for QI video review of critical ICU events: a novel educational tool. Research snapshot presentation at the Society of Critical Care Medicine Annual Congress, February 2019, San Diego, CA.
  46. Jacoby S, Webster J, Asamoah N, Twomey C, Morrison C, **Lane-Fall M**, Richmond T: The feasibility of technology-assisted health monitoring for long-term recovery outcomes after serious traumatic injury. Oral presentation at the Society for Advancement in Violence and Injury Research Annual Conference, April 2019, Cincinnati, OH.
  47. Gordon E, Valentine E, Raiten J, Falk S, **Lane-Fall M**: A standardized curriculum employing mixed small groups improves resident preparedness for quality improvement initiatives. Oral presentation at the Association of American Medical Colleges' Northeastern Group on Educational Affairs Annual Conference, April 2019, Philadelphia, PA.
  48. Park Y, Huffenberger A, **Lane-Fall M**: Tele-Critical Care Interventions Vary by Intensive Care Unit Type: a retrospective analysis. Poster presentation at the 2019 Pennsylvania Anesthesiology Resident Research Conference, Pittsburgh, PA.
  49. \*McDonald M, Henry M, Gallagher C, **Lane-Fall M**, MacKay E, Miano T, Gutsche J: The effect of sedation on long-term psychological impairment following extracorporeal life support. Poster presentation at the Society of Critical Care Anesthesiologists Annual Meeting, May 2019, Montreal, QC, Canada.
  50. Veith JM, Moghbeli K, Feng R, **Lane-Fall M**, Kerlin MP, Fuchs BD, Mikkelsen ME: Initial tidal volume set and use of low tidal volume ventilation in acute respiratory distress syndrome. Poster presentation at the American Thoracic Society International Conference, May 2019, Dallas, TX.
  51. \*Diraviam SP, Clapp JT, **Lane-Fall MB**, Szymczak JE, Muralidharan M, Chung JJ, Gutsche JT, Curley MAQ, Berns JS, Fleisher LA: The contingent role of the nephrology consultant in the intensive care unit: a qualitative study of interdisciplinary interaction. Poster presentation at the AcademyHealth Annual Research Meeting, June 2019, Washington, DC.
  52. Park Y, Huffenberger A, **Lane-Fall M**: Tele-Critical Care Interventions Vary by Intensive Care Unit Type: a retrospective analysis. Poster presentation at the 2019 American Society of Anesthesiologists annual meeting, October 2019, Orlando, FL.
  53. \*Srinivasan T, Klaiman T, **Lane-Fall M**, Kerlin M: Applying CFIR to understand factors underlying low utilization of prone positioning for acute respiratory distress syndrome. Poster presentation at the 12<sup>th</sup> annual AcademyHealth/NIH Conference on the Science of Dissemination and Implementation, December 2019, Arlington, VA.
  54. Beidas R, Kimberly J, Shea J, Marx D, **Lane-Fall M**: Building capacity in implementation science in academic institutions. Poster presentation at the 12<sup>th</sup> annual AcademyHealth/NIH Conference on the Science of Dissemination and Implementation, December 2019, Arlington, VA.
  55. Bass GD, Levy EP, Westover JE, Ndebele-Ngwenya P, Taichman RB, Costa DK, Weiss CH, **Lane-Fall MB**, Kerlin MP: Determinants of low tidal volume ventilation, lower inspiratory pressures, and prone positioning in acute respiratory distress syndrome (ARDS): A systematic review. Accepted for poster presentation at the American Thoracic Society International Conference, May 2020, Philadelphia, PA (not presented due to COVID-19). [Available on the ATS website.](#)
  56. Ginestra J, Klaiman T, Oredoko F, Silvestri J, Srinivasan T, Szymanski S, Tran T, **Lane-Fall M**, Kerlin MP: Determinants of utilization of prone positioning for severe acute respiratory distress syndrome. Accepted for poster presentation at the American Thoracic Society International Conference, May 2020, Philadelphia, PA (not presented due to COVID-19). [Available on the ATS website.](#)



57. \*Heins S, Gordon EK, Clapp JT, Gaulton TG, **Lane-Fall MB**, Aysola J, Baranov D, Fleisher LA: Anesthesia residency selection: the role of the interview. Virtual poster presentation at the American Society of Anesthesiologists Annual Meeting, October 2020.
58. Hamm RE, Beidas RS, **Lane-Fall MB**, Levine LD: Clinician training level and intervention penetration in team-based care: Secondary analysis of a hybrid effectiveness-implementation trial in obstetrics. 13th Annual Conference on the Science of Dissemination and Implementation, Virtual poster presentation, December 2020.
59. \*Hamm RE, Beidas RS, **Lane-Fall MB**, Levine LD: Daily weekday audit and feedback to providers for an inpatient intervention in obstetrics: Is there sustained impact over the weekend? 13th Annual Conference on the Science of Dissemination and Implementation, Virtual poster presentation, December 2020.
60. Hamm RE, Beidas RS, **Lane-Fall MB**, Levine LD: Acceptability and feasibility of implementing a calculator to predict cesarean risk in obstetrics: A qualitative evaluation of the clinician perspective. 13th Annual Conference on the Science of Dissemination and Implementation, Virtual poster presentation, December 2020.
61. Taichman R, Bass G, Levy E, Westover J, Ndebele-Ngwenya P, Costa D, Weiss C, Prasad Kerlin M, **Lane-Fall M**: A "sixth domain" in the consolidated framework for implementation research (CFIR): A systematic review of evidence-based therapies in ARDS informs a patient factors domain. 13th Annual Conference on the Science of Dissemination and Implementation, Virtual poster presentation, December 2020.
62. \*Mergler B, Goldshore M, **Lane-Fall M**, Hadler R: Validation of the Patient Dignity Inventory to assess dignity-related distress in the critically ill. Society of Critical Care Medicine 50<sup>th</sup> Annual Congress. Virtual poster presentation, February 2021. Received Star Research award.
63. Gaulton TG, **Lane-Fall M**, Berra L, Cereda M. Noninvasive Oxygenation Strategies for Obese Patients with Acute Hypoxemic Respiratory Failure: A Survey of Critical Care Anesthesiologists. Poster presentation at the Society of Critical Care Anesthesiologists Annual Meeting, May 2021 (virtual).
64. Russell GC, Christakos A, Mapp AM, Hicks LS, **Lane-Fall MB**. The addition of a PACU transfer to the flow of ICU-bound postoperative patients is not associated with increased complication rates. Poster presentation at the joint annual meetings of the Association of University Anesthesiologists, Society of Critical Care Anesthesiologists, and International Anesthesia Research Society, May 2021 (virtual).
65. \*Levy E, Silvestri JA, Klaiman T, Tran T, **Lane-Fall MB**, Kerlin MP: Strategies to Improve Utilization of Prone Positioning for ARDS. Poster presentation at the American Thoracic Society International Conference, May 2021 (virtual).
66. Trainor A, Bass GD, Hayes M, Stevens JP, Sandsmark DK, Dabrowski CL, Magdamo BA, Durkin B, Kaplan LJ, Mikkelsen ME, **Lane-Fall MB**, Schwartzstein RM, Maley JH: Persistent Dyspnea and Accompanying Negative Emotions After COVID-19 Associated Respiratory Failure. Poster presentation at the American Thoracic Society International Conference, May 2021 (virtual).
67. \*Maley JH, Sandsmark DK, Trainor A, Bass GD, Dabrowski CL, Magdamo BA, Durkin B, Hayes M, Quinn T, Schwartzstein RM, Stevens JP, Kaplan LJ, Mikkelsen ME, **Lane-Fall MB**: Long-Term Impairment in Cognition, Mental Health, and Physical Function Following COVID-19-Associated Respiratory Failure. Oral presentation at the American Thoracic Society International Conference, May 2021 (virtual).
68. \*Chesley CF, Anesi G, Schaubel D, **Lane-Fall M**, Halpern S. Differences in Intensive Care Unit Triage for Racial and Ethnic Minorities with Sepsis and Acute Respiratory Failure. Oral presentation at the American Thoracic Society International Conference, May 2021 (virtual). Received Abstract Scholarship.
69. **Lane-Fall M**, Hastie M, Yarabarla V, Kleid M, Miltiades A, Wiener-Kronish J, Pian-Smith M. Gender and patterns of academic achievement in United States academic anesthesiology chairpersons. Oral presentation, American Society of Anesthesiologists annual meeting, October 2021 (virtual).
70. \*Perfetti AR, Buddai S, Jacoby S, **Lane-Fall M**. Traumatic injury and ICU recovery: challenges and opportunities for families. Poster presentation, 10th Annual Johns Hopkins Critical Care Rehabilitation Virtual Conference, November 2021 (virtual).
71. Estrada Alamo C, Diatta F, **Lane-Fall M**. Artificial intelligence and the future of anesthesiology: Qualitative findings from a national survey of physician anesthesiologists. Poster presentation, Society for Technology in Anesthesia Virtual Annual Meeting, January 2022.
72. Conn Busch J, Wu J, Muralidharan M, **Lane-Fall M**. Systematic review of OR to ICU handoff standardization interventions highlights need for focus on sustainability and patient outcomes. Virtual poster presentation, International Anesthesia Research Society, March 2022.
73. Edelson JB, Huang J, Birati EY, Connelly J, Kilbaugh T, Rossano JW, O'Connor MJ, Burstein DS, Edwards JJ, Wittlieb-Weber C, Lin KY, **Lane-Fall M**, Maeda K. Mobilized Pediatric Patients on Venous-Arterial ECMO Have

Improved Outcomes. Oral presentation, International Society for Heart and Lung Transplant 42<sup>nd</sup> Annual Meeting, April 2022.

74. [Yarabarla V](#), Mylarapu A, **Lane-Fall M**. Characterizing Methods For Assigning Gender, Race, and Ethnicity In Anesthesiology And Surgery Workforce Research. Virtual poster presentation at the American Society of Anesthesiologists Annual Meeting, October 2022, New Orleans, LA.
75. \*[Conn Busch J](#), Wu J, Anglade E, Peifer H, **Lane-Fall M**. So Many Ways to Be Wrong: Completeness And Accuracy In Operating Room To Intensive Care Unit Handoffs. Virtual oral presentation at the American Society of Anesthesiologists Annual Meeting, October 2022, New Orleans, LA.
76. Ashiru B, Cronin KM, Potestio CP, Pukenas EW, Burden AR, McEniry B, **Lane-Fall MB**. Enriching Future Physician Scientists: Student Led, Faculty Mentored Data Collection For HATRICC-US Trial. Oral presentation at the American Society of Anesthesiologists Annual Meeting, October 2022, New Orleans, LA.
77. [Edelson J](#), **Lane-Fall M**, Huang J, Wang Z, Mercer-Rosa LM, Mitchell J, Paridon S, O'Connor MJ, Rossano J, O'Byrne M. Neighborhood childhood opportunity index is associated with impaired exercise performance in pediatric heart transplant patients. Meeting abstract at the Scientific Sessions of the American Heart Association / Resuscitation Science Symposium, November 2022, Chicago, IL.
78. [Watach A](#), Bae C, Balachandran M, Schwab R, **Lane-Fall M**. Utilizing workflow mapping and stakeholder engagement to enhance implementation planning of an e-health practice improvement innovation in a sleep center. Poster presentation at the 15<sup>th</sup> Annual AcademyHealth/NIH Conference on the Science of Dissemination and Implementation in Health, December 2022, Washington, DC.
79. \*Ruppel H, Makeneni S, Faerber JA, **Lane-Fall M**, Foglia EE, O'Byrne ML, Bonafide CP. Investigating pulse oximetry accuracy in children across race and skin pigmentation: a pilot study. Accepted for presentation, Eastern Nursing Research Society, March 2023, Philadelphia, PA.

#### THESES:

1. **Lane, M**. Sexually Transmitted Disease Risk in African-American Women: Analysis and Policy Recommendations. Honors Thesis in Interdisciplinary Studies, UC Berkeley, 2001.
2. **Lane, M**. [Mother knows best: Maternal experience and choice of infant sleep position](#). MD thesis, Yale School of Medicine, 2006.

#### SCHOLARSHIP RELATED TO INCLUSION, DIVERSITY, AND EQUITY (duplicated from above sections):

1. **Lane-Fall M**. Piece of My Mind: Accommodating bigotry (peer-reviewed commentary). *JAMA*, 311(2):139-40, Jan 2014. [PMID: 24399550](#).
2. **Lane-Fall M**. "The complexities of race and racism in healthcare." Philadelphia Inquirer, January 27, 2014.
3. Interviewed for "The doctor won't see you now: Patients in American hospitals often get away with asking for caregivers based on race", by Elijah Wolfson. Al Jazeera America, July 3, 2014. Available at: <http://america.aljazeera.com/articles/2014/7/3/the-doctor-won-tseeyounow.html>
4. **Lane-Fall MB**, Miano TA, Aysola J, Augoustides JGT. Diversity in the Emerging Critical Care Workforce: Analysis of Demographic Trends in Critical Care Fellows from 2004-2014. *Critical Care Medicine*, 45(5): 822-827, May 2017. [PMID: 28282303](#).
5. [Cobb B](#), Hsu N, Month R, **Lane-Fall M**: Does socioeconomic status predict anesthesia type for Cesarean sections? Poster presentation at the Society for Obstetric Anesthesia and Perinatology Annual Meeting, May 2017, Bellevue, WA.
6. **Lane-Fall MB**, Fleisher LA. Untangling the Web of Health Care Access and Racial Disparities After Coronary Artery Bypass Grafting. *Journal of Cardiothoracic and Vascular Anesthesia* 33(7):1899-1900, July 2019. [PMID: 30685158](#).
7. **Lane-Fall MB**, Gordon EKB, Valentine EA, Black SA, Kapur PA, Fleisher LA. Fostering belonging in academic anaesthesiology: faculty and department chair perspectives on supporting women anaesthesiologists. *British Journal of Anaesthesia*, 124(3):e155-e159, March 2020. [PMID: 31973823](#).
8. Feldman J and **Lane-Fall M**. APSF Statement on Pulse Oximetry and Skin Tone. APSF Newsletter, June 2021.
9. Carr RM, **Lane-Fall MB**, South E, Brady D, Momplaisir F, Guerra CE, Montoya-Williams D, Dalembert G, Lavizzo-Mourey R, Hamilton R. Academic careers and the COVID-19 pandemic: reversing the tide. *Science Translational Medicine* 13(584):eabe7189, March 2021. [PMID: 33692133](#).
10. Armstead V, Bucklin B, Bustillo M, Hastie MJ, **Lane-Fall M**, Lee A, Leffert L, Mackensen GB, Minhaj M, Sakai T, Straker T, Thenuwara K, Whitlock E, Whittington R, Wiener-Kronish J, Wong C. Letter to the Editor: On the

importance of language in reports discussing racial inequities.” *Anesthesia & Analgesia* 132(6): e117-e118, June 2021. [PMID: 34032683](#).

11. **Lane-Fall MB**, Butler P, Mahoney K. Promoting racial justice and equity in academic medicine: moving beyond the honeymoon period. *JAMA* 326(7):603-604, August 2021. [PMID: 34402824](#).
12. **Lane-Fall M**, Hastie M, [Yarabarla V](#), Kleid M, Miltiades A, Wiener-Kronish J, Pian-Smith M. Gender and patterns of academic achievement in United States academic anesthesiology chairpersons. Oral presentation, American Society of Anesthesiologists annual meeting, October 2021 (virtual).
13. Myers JS, **Lane-Fall M**, Soong C. No One Left Behind: A Case for More Inclusivity in Authorship for Quality Improvement and Implementation Research. *BMJ Quality and Safety* 30(10):779-781, October 2021. [PMID: 34016688](#).
14. **Lane-Fall MB**. Why diversity, equity, and inclusion matter for patient safety. *ASA Monitor*, November 2021.
15. [Chesley CF](#), **Lane-Fall MB**. What socioeconomic disadvantage means for critical illness recovery, clinical care, and research. *Critical Care Medicine* 50(5):876-78, May 2022. [PMID: 35485586](#).
16. [Chesley CF](#), **Lane-Fall M**. Prioritizing Equity When Resources are Scarce: Innovating Solutions During the COVID Pandemic. *American Journal of Respiratory and Critical Care Medicine* 206(3):377-378, August 2022. [PMID: 35580062](#).
17. [Chesley CF](#), **Lane-Fall MB**, Panchanadam V, Harhay MO, Wani AA, Mikkelsen ME, Fuchs BD. Racial disparities in occult hypoxemia and clinically based mitigation strategies to apply in advance of technological advancements. *Respiratory Care* 67(12):1499-1507, December 2022. [PMID: 35679133](#).
18. [Chesley CF](#), Anesi GL, Chowdhury M, Schaubel D, Liu VX, **Lane-Fall MB**, Halpern SD. Characterizing Equity of Intensive Care Unit Admissions for Sepsis and Acute Respiratory Failure. *Annals of the American Thoracic Society* 19(12):2044-2052, December 2022. [PMID: 35830576](#).
19. Ruppel H, Makeneni S, Faerber JA, **Lane-Fall M**, Foglia EE, O’Byrne ML, Bonafide CP. Investigating pulse oximetry accuracy in children across race and skin pigmentation: a pilot study. Accepted for presentation, Eastern Nursing Research Society, March 2023, Philadelphia, PA.
20. Ruppel H, Makeneni S, Faerber JA, **Lane-Fall MB**, Foglia EE, O’Byrne ML, Bonafide CP. Evaluating the accuracy of pulse oximetry in children according to race. In press, *JAMA Pediatrics*.
21. [Chesley CF](#), Chowdhury M, Small DS, Schaubel D, Liu VX, **Lane-Fall MB**, Halpern SD, Anesi GL. Determining disparities in length of stay among severely ill patients with sepsis and acute respiratory failure: a matched cohort across 27 hospitals. Accepted for publication, *JAMA Network Open*.

## Mentees of Meghan Lane-Fall, MD, MSHP, FCCM

### Current primary or co-primary research mentees

Name	Mentoring period	Position(s) during mentoring period	Scholarly products, achievements during mentoring period
1. Christopher Koilor	2016-present	SUMR scholar; undergraduate & post-baccalaureate student; research assistant; medical student	1 research publication, 2 research abstracts (1 as 1 <sup>st</sup> author); matriculated to medical school (Temple University)
2. Ross Perfetti	2016-present	Post-baccalaureate student; MD/PhD student, Harvard University/University of Pennsylvania	2 manuscripts (1 as 1 <sup>st</sup> author), 2 first author research abstracts; matriculated to MD/PhD program in Anthropology, now ABD
3. Christopher Chesley, MD, MSCE	2018-present	Fellow, Pulmonary Medicine and Critical Care; Postdoctoral research fellow; Instructor in Pulmonary and Critical Care Medicine	Two 1 <sup>st</sup> author research abstracts (1 received an award); 1 <sup>st</sup> author research manuscript, 1 <sup>st</sup> author peer reviewed commentary; received NIH Loan Repayment Program grant and F32 awards; NIH K01 award with fundable score (15)
4. Jonathan Edelson, MD	2020-present	Assistant Professor of Cardiology, Children's Hospital of Philadelphia	Accepted and matriculated into MSCE training program; awarded extramural grant as PI; multiple 1 <sup>st</sup> author publications; received internal pilot grant, submitted K award proposal
5. Rebecca Hamm, MD, MSCE	2020-present	Assistant Professor of Obstetrics and Gynecology, University of Pennsylvania	NIH R01 as sole PI; Co-PI on 7-year NIH cooperative agreement; NIH K award, co-investigator on multiple NIH grants, multiple published papers
6. Bat-Zion "Betsy" Hose, PhD	2021-present	Research specialist, postdoctoral fellow	Co-authored manuscript; defended PhD dissertation
7. Nwadiogo Ejiogu, MD, MA	2021-present	OB anesthesia fellow, Assistant Professor of Anesthesiology and Critical Care at UPenn	Appointed to standing faculty at UPenn, received internal Provost's grant
8. Julian Conn Busch	2021-present	University of Chicago medical student, University of Pennsylvania research fellow, Penn anesthesiology resident	One first authored research manuscript; two first authored research abstracts; matched into anesthesiology residency at Penn
9. Yuvaram Reddy, MBBS, MPH	2021-present	Instructor of Medicine then Assistant Professor of Medicine, Renal-Electrolyte & Hypertension Division, University of Pennsylvania	First authored research abstracts and commentaries; intramural and extramural grant funding as PI; submitted VA career development award proposal
10. Varun Yarabarla	2021-present	Medical student, Pennsylvania College of Osteopathic Medicine (Georgia campus)	First authored research abstract accepted for poster presentation; two manuscripts (one first authored) in peer review

Name	Mentoring period	Position(s) during mentoring period	Scholarly products, achievements during mentoring period
11. Blake Mergler, MD	2021-present	Anesthesiology resident, University of Pennsylvania	Awarded competitive resident research rotation; first authored research abstract accepted to national meeting
12. James Tang	2021-present	Undergraduate student, School of Nursing, University of Pennsylvania	Completed summer research apprenticeship program (PURM)
13. Ashna Patel	2021-present	Undergraduate student, Wharton School, University of Pennsylvania	
14. Andrew Kim	2022-present	Undergraduate student, Wharton School and School of Nursing, University of Pennsylvania	
15. Ana Glassman	2022-present	Undergraduate student, University of Pennsylvania	Completed summer research apprenticeship program (SUMR)
16. LauraEllen Ashcraft, PhD, MSW	2022-present	Staff scientist, University of Pennsylvania	Starting standing faculty position at the University of Pennsylvania, effective January 2024
17. Amanda O'Halloran, MD	2022-present	Assistant Professor of Anesthesiology and Critical Care, Children's Hospital of Philadelphia	Matriculated to Penn's Master of Science in Health Policy Research
18. Lauren de la Ossa	2023-present	Medical student, Perelman School of Medicine, University of Pennsylvania	
19. Sammy Dhaliwal, PhD, MSc	2023-present	Clinical health psychology	Writing K award application

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#### Current secondary research mentees

Name	Mentoring period	Position(s) during mentoring period	Scholarly products, achievements during mentoring period
18. Emily MacKay, DO, MSHP	2016-present	Postdoctoral fellow (clinical and research); Assistant Professor of Anesthesiology and Critical Care, University of Pennsylvania	Completed T32 fellowship; awarded 2-year extramural career development award; NIH K award funded; multiple 1 <sup>st</sup> author research publications
19. Geoffrey Bass, MD, MBA	2018-present	Hospitalist, pulmonary critical care fellow, Assistant Professor of Clinical Medicine, University of Pennsylvania	1 <sup>st</sup> author research abstract; accepted faculty position at Penn Perelman School of Medicine; 1 <sup>st</sup> author research manuscript under review
20. Jason Ackrivo, MD, MSCE	2019-present	Instructor of Medicine; Assistant Professor of Medicine, University of Pennsylvania	Awarded NHLBI K23 application; multiple 2 <sup>nd</sup> author research publications
21. Elinore Kaufman, MD, MSHP	2019-present	Trauma surgery fellow; Assistant Professor of Surgery, University of Pennsylvania	Received pilot grant funding as PI; published >20 papers, including 4 as first author; received K12 grant

Name	Mentoring period	Position(s) during mentoring period	Scholarly products, achievements during mentoring period
22. Yehoda Martei, MD, MSCE	2019-present	Assistant Professor of Medicine, University of Pennsylvania	Awarded NCI K01 career development grant
23. Catherine Chen, MD, MPH	2020-present	Assistant Professor of Anesthesiology, UCSF	Awarded K08 application
24. Emily Vail, MD, MSc	2020-present	Assistant Professor of Anesthesiology and Critical Care, University of Pennsylvania	Multiple 1 <sup>st</sup> author research publications; awarded internal K12 grant
25. Rodrigo Daly Guris, MD	2021-present	Assistant Professor of Anesthesiology and Critical Care, Children's Hospital of Philadelphia	First author research review manuscript
26. Caoimhe C. Duffy, MD, MSc	2021-present	Assistant Professor of Anesthesiology and Critical Care, University of Pennsylvania	First authored peer-reviewed research manuscripts
27. Katelin Hoskins, PhD, MS	2022-present	Assistant Professor, School of Nursing, University of Pennsylvania	Created course on ethics and equity in implementation science

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#### Former research mentees

Name	Mentoring period	Position during mentoring period	Scholarly products, achievements during mentoring period	Current or last known position
28. Xu "Sophie" He, MD	2012-2013	SUMR scholar, undergraduate student	3 research abstracts, 2 published manuscripts	Ophthalmologist, Kaiser Permanente, Timonium, MD
29. Kristin Brennan, MD	2012-2013	Resident	1 research abstract	Anesthesiologist, Riverside Anesthesia Associates
30. Tyler Chavez, MD	Summer 2014	SUMR scholar, undergraduate student	2 published manuscripts	Orthopedic surgery resident at UNM
31. Hannah Peifer	2014-2018	PURM scholar, undergraduate student	3 published manuscripts, 2 research abstracts (1 as first author)	Medical student, Brown University
32. Meredith Collard	2014-2016	Post-baccalaureate student	4 published manuscripts, 3 research abstracts, book chapter	Nurse anesthetist, Texas
33. Benjamin Cobb, MD, MSHP	2014-2018	Resident, then research fellow	3 published manuscripts (2 as 1 <sup>st</sup> author), 2 1 <sup>st</sup> author research abstracts; resident research scholarship, AcademyHealth scholarship	Chair of anesthesia, Bon Secours Southside Regional Medical Center
34. Mark Barry, MD	2014-2015	Medical student	3 published manuscripts (1 as first author), 1 research abstract	Resident (surgery), UCSF
35. Megan Linehan, DO	2014-2016	Medical student	1 published manuscript, 2 research abstracts	Interventional pain physician, Philadelphia Pain Practice
36. Enrique Torres Hernandez	Summer 2015	SUMR scholar, undergraduate student	1 published manuscript, 1 research abstract	MD/PhD student, UT Health San Antonio

Name	Mentoring period	Position during mentoring period	Scholarly products, achievements during mentoring period	Current or last known position
37. Jerome Watts	2015-2017	SUMR scholar, undergraduate student	1 published manuscript, 1 research abstract	Medical student, Howard University College of Medicine
38. Laura Di Taranti, MD	2015-2017	Post-baccalaureate student; research staff	2 published manuscripts, 2 research abstracts	Emergency medicine resident, Cooper Healthcare
39. Sruthi Buddai	2015-2022	Post-baccalaureate student; research staff	1 published manuscript, 1 research abstract (1 <sup>st</sup> author), accepted into Dartmouth MD/MBA program	Resident, Yale University
40. Mahrukh Choudhary	2015-2018	Undergraduate student	1 published manuscript, 2 research abstracts	Emergency medicine resident, Albert Einstein Medical Center
41. Savannah Aepli, MD	2015-2017	Medical student	Summer student research grant; 1 research abstract	Resident (anesthesiology), Johns Hopkins University
42. Adam Adenwala, MD	2015-2017	Medical student, then resident	Led research project, 1 research abstract	Anesthesiologist, private practice
43. Tara Ramaswamy, MD	2015-2017	Medical student	1 published manuscript, 1 first author research abstract	Critical care medicine fellow, Massachusetts General Hospital
44. Joshua Davis, MD	2015-2017	Medical student	1 published manuscript, 2 research abstracts (both 1 <sup>st</sup> author), awarded American Board of Medical Specialties Visiting Scholar designation	Emergency medicine physician, Wichita, KS
45. Kimberly Allen, BSN, RN	2015-2016	Undergraduate nursing student, Penn	1 published manuscript	Medical student, University of Chicago
46. Bridget Perrin Pulos, MD	2015-2016	Resident, Penn	Received ASA CPOM Mentoring Award to support research; 1 published manuscript	Senior Associate Consultant in Anesthesiology, Mayo Clinic
47. Sarah Vander Veen, APRN, BSN, RN	2015-2016	Undergraduate nursing student, Penn	Co-authored research publication	Advanced practice nurse in critical care pediatrics, Nemours Children's Health System
48. Diana Mosquera, MD	2014-2019	Resident, instructor, assistant professor	2 research abstracts (1 as 1 <sup>st</sup> author), received full scholarship for Wharton MBA program	Associate Chief Medical Officer and Assistant Professor of Anesthesiology, Albany Medical Center
49. Lauren Nakazawa (Pieczynski), MD	2015-2016	Resident, Penn	First author research manuscript	Assistant Professor of Anesthesiology, Critical Care, and Pain Medicine, UTHealth Houston
50. David Rub, MD	2015-2019	Medical student	2 research abstracts (1 as 1 <sup>st</sup> author), award for best meeting abstract	Resident (pediatrics), Children's Hospital of Philadelphia

Name	Mentoring period	Position during mentoring period	Scholarly products, achievements during mentoring period	Current or last known position
51. Randall Burson	2015-2020	Post-baccalaureate student and research staff; MD/PhD student	Led systematic review, 1 research abstract (1 <sup>st</sup> author); matriculated to MD/PhD program in Anthropology	MD/PhD student, University of Pennsylvania
52. Cecilia Wang, RN	2016-2019	Undergraduate student	1 research abstract; Received Vagelos undergraduate research grant	Clinical nurse, UCLA (submatriculated to DNP nurse anesthesia program, University of Pennsylvania)
53. Scott Massa	2016-2019	Undergraduate student	4 published manuscripts (1 as 1 <sup>st</sup> author), 2 research abstracts (1 as 1 <sup>st</sup> author); Received undergraduate research grant	Medical student, New York University
54. Shazia Siddique, MD, MSHP	2016-2019	Research/clinical fellow; Instructor of Medicine	NIH K08 award; 2 first author manuscripts, 2 first author abstracts	Assistant Professor of Medicine, University of Pennsylvania
55. Evanie Anglade	2017-2019	SUMR scholar, undergraduate student	Received merit scholarship	Medical student, Rutgers Robert Wood Johnson Medical School
56. Charlotte Woods-Hill, MD, MSHP	2017-2021	Postdoctoral fellow, assistant professor	Awarded NHLBI K23 application; 1 first author paper accepted	Assistant Professor of Anesthesiology and Critical Care, Children's Hospital of Philadelphia
57. Madhavi Muralidharan	2017-2019	Research staff	3 published manuscripts (1 as 1 <sup>st</sup> author)	Medical student, University of Pennsylvania
58. Joshua Veith, MD	2017-2019	Research/clinical fellow	2-1 <sup>st</sup> author research abstracts	Staff physician, Cleveland Clinic
59. William Jackson III	Summer 2018	SUMR scholar, undergraduate student		Medical student, Northwestern University
60. Mark Meisarah, MD	2018-2019	Medical student	1 research abstract (1 <sup>st</sup> author)	Resident in anesthesiology, Columbia University
61. Jason Saucier, CRNP, PhD	2018-2020	PhD student	Completed PhD program	Lead advanced practice provider, Surgical Critical Care Service, Penn Medicine
62. Anna Krupp, PhD, RN, CCNS, CCRN	2018-2019	Postdoctoral research fellow	3 published manuscripts (2 as 1 <sup>st</sup> author)	Assistant Professor of Nursing, University of Iowa
63. Heather Greysen, CRNP, PhD	2018-2019	Postdoctoral research fellow, instructor	2 published papers (1 as 1 <sup>st</sup> author); 1 first author research abstract	Instructor, School of Nursing, University of Pennsylvania
64. Yangseon Park, MD	2018-2020	Resident in anesthesiology	2-1 <sup>st</sup> author research abstracts	Fellow in Critical Care Medicine, Penn
65. Timothy Gaulton, MD, MSCE	2018-2022	Assistant Professor of Anesthesiology and	Awarded extramural career development grant (APSF-FAER); multiple 1 <sup>st</sup> author publications	Assistant Professor of Anesthesiology, Massachusetts General Hospital



Name	Mentoring period	Position during mentoring period	Scholarly products, achievements during mentoring period	Current or last known position
		Critical Care, University of Pennsylvania		
66. Tilaye Seblework	2019-2020	SUMR scholar; Penn undergraduate student	Completed qualitative research project	Penn undergraduate nursing student
67. Jasmine Wu	2019-2021	Penn undergraduate student	Received two undergraduate research grants	Undergraduate student, University of Pennsylvania
68. Athena (Tina) Christakos, MD	2019-2021	Anesthesiology resident, University of Pennsylvania	Awarded competitive resident research rotation; co-authored research manuscript	Assistant Professor of Clinical Anesthesiology and Critical Care, University of Pennsylvania
69. Carlos Estrada Alamo, MD, MBA	2019-2022	Anesthesiology resident, University of Pennsylvania	Awarded professional society grant, first author research abstract accepted for poster presentation	Research Fellow in Clinical Intelligence & Informatics Management, Virginia Mason Franciscan Health
70. Gina Cotter Russell	2020-2021	Penn Medical Student	Submitted 1 <sup>st</sup> author research abstract; received award for medical student research in anesthesiology	Anesthesiology resident, Duke School of Medicine
71. India Jackson	2020-2021	PASS scholar; SUMR scholar	Data collection for HATRICC-us project	Undergraduate student, Howard University
72. Jason Maley	2020-2022	Instructor of Medicine, Beth Israel Deaconess	Multiple 1 <sup>st</sup> author research publications	Instructor of Medicine, Beth Israel Deaconess
73. Sophie Sax	Summer 2021	Penn undergraduate student	Completed summer research internship program (PURM)	Undergraduate student, University of Pennsylvania
74. Canada Montgomery	2021-2022	Penn medical student, MSHP student	Matched into neurosurgery residency	Penn medical student

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**Clinical mentees** (all mentored at University of Pennsylvania hospitals; current mentees in **bold** font)

Name	Mentoring period	Position during mentoring period	Current or last known position
75. Michael Stentz, MD, MS	2016-2017	Fellow in critical care medicine (anesthesiology)	Assistant Professor of Anesthesiology, University of Michigan
76. Toby Steinberg, MD	2016-2018	Resident in anesthesiology	Assistant Professor of Anesthesiology, Medical University of South Carolina
77. Miguel Yaport, MD	2017-2018	Resident in anesthesiology	Assistant Professor of Anesthesiology, Tufts
78. Lynn Adamma Pauls, MD	2017-2020	Resident in anesthesiology	Staff Anesthesiologist, Integrated Anesthesia Associates, LLC, Hartford, CT

<b>Name</b>	<b>Mentoring period</b>	<b>Position during mentoring period</b>	<b>Current or last known position</b>
Yangseon Park, MD (duplicated above in research)	2017-2020	Resident in anesthesiology	Assistant Professor, Baylor Health
79. Danielle Pulton, MD	2017-2018	Resident in anesthesiology	Assistant Professor, Temple University
Timothy Gaulton, MD, MSCE (duplicated above in research)	2017-2018	Fellow in critical care medicine (anesthesiology)	Assistant Professor of Anesthesiology, Massachusetts General Hospital
80. Andrea Luncheon-Hilliman, MD	2018-2019	Fellow in critical care medicine (anesthesiology)	Assistant Professor of Anesthesiology, Perioperative Medicine and Pain Medicine, Mount Sinai
81. Charles Gartman, DO	2018-2021	Resident in anesthesiology	Fellow, cardiothoracic anesthesiology, University of Pennsylvania; accepted faculty position at University of Pennsylvania
82. Sarah Kumar, MD	2019-2020	Fellow in critical care medicine (anesthesiology)	Assistant Professor of Anesthesiology and Critical Care, University of Pennsylvania
Carlos Estrada Alamo, MD, MBA (duplicated above in research)	2019-2022	Resident in anesthesiology	Information & Intelligence Management Fellow, Virginia Mason Franciscan Health
83. Ksenia Guvakova, MD	2020-	Assistant Professor of Clinical Anesthesiology	(current mentee)
Emily Vail, MD, MSc (duplicated above in research)	2020-	Assistant Professor of Anesthesiology and Critical Care	(current mentee)
84. Hazel Werlhof, MD	2021-	Assistant Professor of Clinical Anesthesiology and Critical Care	(current mentee)