

LISA H. MERCK MD MPH MA FACEP

Virginia Commonwealth University / Medical College of Virginia
 Department of Emergency Medicine
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RESEARCH FOCUS and SPECIALIZATION:

- Collaborative Clinical Trials in Acute Care Research
- Critical Care
- Pediatric and Adult Neurological Emergencies
- Epidemiology and Health Policy
- Fundamentals of Informed Consent
- Applications of Novel Technology in Clinical Trial Execution

EDUCATION:

Undergraduate	Reed College, Portland, OR (1991-1995) Bachelor of Arts, Psychology, 1995
Medical School	The Chicago Medical School, North Chicago, IL (7/1998-6/2002) Medical Doctor, 2002
Masters of Public Health	Oregon Health and Sciences University, Portland, Oregon (6/1997-6/2002) Masters of Public Health, Epidemiology and Biostatistics, 2002
Master of the Arts	Brown University, Providence, RI (7/2018) Master of Arts, ad eundem (upon academic promotion)

COMPLETED POSTGRADUATE TRAINING 6/2002-11/2008:

General Surgery Internship PGY I	2002-2003	Duke University Medical Center
Neurosurgery Resident PGY II-III	2002-2005	Duke University Medical Center
Emergency Medicine Residency	2006-2008	University of North Carolina at Chapel Hill

POST GRADUATE HONORS AND AWARDS:

2023	Tenure, Professor of Emergency Medicine, Virginia Commonwealth University School of Medicine, Richmond, VA
2019 - 2022	Teaching Scholar, Office of the Provost, University of Florida, Gainesville, FL
2021	Elected by the Society for Academic Emergency Medicine to serve as a liaison to the NIH

Center for Scientific Review.

- 2020 Recipient, International Critical Care Congress, Society of Critical Care Medicine - *Star Research Achievement Award*. For abstract, Outcome Prediction with Computer-Assisted Volumetry and ABC/2 in Traumatic Intra-Axial Hemorrhage. Owen Leary, Tyler Harder, David Liu, Stefan Jung, Maria Braileanu, Jason W Allen, Derek Merck, David W. Wright, Lisa H. Merck, Orlando, FL 2/2020.
- 2020 Recipient, International Critical Care Congress, Society of Critical Care Medicine - *Star Research Achievement Award*. For abstract, Patient-Specific Prognostication After TBI Is Related to Bleed Phenotype and Anatomic Location. Tyler Harder, Owen Leary, David Liu, Derek Merck, David W Wright, Lisa H. Merck, Orlando, FL 2/2020.
- 2019 Recipient, *Master of Arts, ad eundem*, Brown University, Providence, RI
- 2018 Recipient, *Outstanding Investigator Award*, Department of Emergency Medicine, Warren Alpert Medical School of Brown University, Providence, RI
- 2018 Acceptance to Association of American Medical Colleges (AAMC) *Mid-Career Women Faculty Leadership Development Seminar*, Atlanta, GA
- 2018 *Certificate of Outstanding Contribution in Reviewing*, American Journal of Emergency Medicine
- 2017 Recipient, Neurocritical Care Society International Conference, *Top Scored Abstract*, for: *Goal Directed Therapy in the ProTECTIII Clinical Trial: The Effect of Physiologic Transgressions on Patient Mortality after Traumatic Brain Injury*. Lisa Merck MD MPH, Sharon Yeatts PhD, Geoff Manley MD PhD, Robert Silbergleit MD, Robin Conwit MD, Qi Pauls MS, Michael Frankel MD, Peter Le Roux MD, Yuko Palesch PhD, David Wright MD.
- 2017 Recipient, Neurocritical Care Society, International Conference, *Top Scored Abstract*, for: *Goal Directed Therapy in the ProTECTIII Clinical Trial: The Effect of Physiologic Transgressions on Patient Functional Outcome after Traumatic Brain Injury*. Lisa Merck MD MPH, Sharon Yeatts PhD, Geoff Manley MD PhD, Robert Silbergleit MD, Robin Conwit MD, Qi Pauls MS, Michael Frankel MD, Peter Le Roux MD, Yuko Palesch PhD, David Wright MD.
- 2015 Recipient, *Translational Impact Award*, Department of Emergency Medicine, Warren Alpert Medical School of Brown University
- 2015 Recipient, *Barnet Fain Quality Award, Honorable Mention*, Rhode Island Hospital Comprehensive Stroke Center
- 2014 Nominated and chosen for *Clinical Trials Methodology Course Cohort*, via R25 grant NINDS, University of Michigan
- 2013 Fellow, American College of Emergency Physicians
- 2011 Emory University Informed Consent for Computed Tomography practice referenced in: *Radiation Safety in Imaging, Best Practices in Health Care The Joint Commission Perspectives in Patient Safety*. May 2011, Vol 11, Issue 5 Joint Commission on Accreditation of Health Care Organizations

In reference to, *Informed Consent for Computerized Tomography*

- 2011 Recipient, *Clinical and Translational Science Award for Informed Consent for Computed Tomography*. Emory University Research Development Course, Emory University Hospital, Atlanta, Georgia
- 2010 Nominated and chosen to attend the *Navigating the Waters* course, CORD (Council of Emergency Medicine Residency Directors), Orlando, Florida
- 2007 Recipient, *Stroke Mini-Fellowship for Emergency Medicine Residents*. Grant from Novo Nordisk, Protein Design Labs, and Concentric Inc. 5/2007 New York, New York
- 2005 Recipient, *General Surgery/Transplant Surgery Education Fund Grant*, Duke University Medical Center, Durham, North Carolina
- 2001 Recipient, National Health Service Core/Department of Health and Human Services, SEARCH Program of Chicago, IL; stipend awarded for clinical care within underserved region of Chicago

PROFESSIONAL DEVELOPMENT, LICENSES, & BOARD CERTIFICATION:

2010 – Active License:	American Board of Emergency Medicine
2022 – Active License:	Commonwealth of Virginia, Medical Board
2019 – Active License:	Florida Medical Board
2007 – Active License:	North Carolina Medical Board
2008 – Active License:	Georgia Medical Board
2012 – 2020 License:	Rhode Island Medical Board

ACADEMIC APPOINTMENTS & LEADERSHIP ROLES:

Virginia Commonwealth University, Medical College of Virginia, Richmond, VA

5/2022 – current	Professor of Emergency Medicine Vice Chair of Research, Department of Emergency Medicine Assistant Dean, Acute Care Research & Clinical Trials, College of Medicine Medical Director, Acute Clinical Research, Virginia Commonwealth University Health System
6/2023 – current	Tenured Professor of Emergency Medicine, Virginia Commonwealth University School of Medicine

University of Florida College of Medicine, Gainesville, FL

7/2021 – 7/2022	Director, Clinical Trials Collaborative
7/2019 – 7/2021	Vice Chair of Emergency Medicine Research
7/2019 – 4/2022	Associate Professor, Department of Emergency Medicine
5/2021 – 4/2022	Affiliate Associate Professor, Department of Neurology, Neurocritical Care
4/2020 – 6/2022	Affiliate Associate Professor, Dept. of Health Outcomes and Biomedical Informatics

Medical School of Brown University, Providence, RI

- 8/2019 – current Adjunct Associate Professor of Neurosurgery
 6/2016 – current Mentor, Scholarly Concentration, Translational Research in Medicine
 7/2018 – 7/2019 Associate Professor of Emergency Medicine, Diagnostic Imaging, and Neurosurgery
 1/2016 – 7/2019 Director, Division of Emergency Neurosciences & Critical Care Research,
 Department of Emergency Medicine
 7/2012 – 6/2018 Assistant Professor of Emergency Medicine, Diagnostic Imaging, and Neurosurgery

Tufts University, Clinical and Translational Science Institute, Boston, MA

- 7/2017 – current: Adjunct Associate Professor of Medicine, Division of Clinical Care
 Research Institute for Clinical Research and Health Policy Studies
 Scholar, Tufts Clinical and Translational Science Institute

Emory University School of Medicine, Atlanta, Georgia

- 11/2008 – 6/2012: Assistant Professor of Emergency Medicine
 Core Faculty, Division of Emergency Neurosciences

HOSPITAL APPOINTMENTS / CLINICAL SERVICE:

- 05/2022 – current Attending Physician: Virginia Commonwealth University Medical Center
 Main Hospital, Richmond, Virginia
 07/2019 – 04/2022 Attending Physician: Shands Hospital, Gainesville, FL
 07/2012 – 07/2019 Attending Physician: Rhode Island Hospital & The Miriam Hospital, Providence, RI
 11/2008 – 07/2012 Attending Physician: Emory University Hospital, Emory Midtown Hospital,
 & Grady Memorial Hospital, Atlanta, GA

OTHER PROFESSIONAL APPOINTMENTS:**INTERNATIONAL:**

- 2023 – current *Journal of Clinical and Translational Science*, Cambridge Univ Press, Guest Editor.
 2023 – current International Initiative for Traumatic Brain Injury Research (InTBIR): Clinical Trials
 Working Group; Combined Neuroimaging and Biomarkers Working Group
 2022 – current InTBIR: Imaging Working Group
 2021 – current National Institutes of Health (NIH), National Heart, Lung, and Blood Institute (NHLBI):
 Novel Experimental COVID Therapeutic Agents Targeting RAAS, (NECTAR).
 Executive Committee: Accelerating COVID-19 Therapeutic Interventions and Vaccines
 (ACTIV4d) Master Protocol for Clinical Trials targeting host tissue and the renin -
 angiotensin - aldosterone system (RAAS) in hospitalized patients with COVID-19
 2017 – current NIH, National Institute of Neurological Disorders and Stroke (NINDS): Brain Oxygen
 Optimization in Severe Traumatic Brain Injury - Phase 3 Clinical Trial (BOOST-3),
 Executive Committee
 2015 – current NIH/NINDS: Brain Oxygen Optimization in Severe Traumatic Brain Injury-Phase 3
 Clinical Trial (BOOST-3), Co-Lead, Clinical Standardization Team
 2021 – 2023 International Stroke Conference, Abstract Review Committee

2016 – 2019 2013	International Stroke Conference, Abstract Review Committee Scientific Research Department Brain Foundation of the Netherlands, The Hague, Grant Review
2011 – 2013	International Stroke Conference, Abstract Review Committee
<u>NATIONAL:</u>	
2023 – current	National Institutes of Health (NIH), National Institute of Neurological Disorders and Stroke (NINDS), National Heart, Lung, and Blood Institute (NHLBI): The Strategies to Innovate Emergency Care Clinical Trials Network (SIREN): Education, Training, and Collaboration Working Group
2023 – current	National Neurotrauma Society – Abstract Review Committee
2023 – current	Co-Director, SIREN Extracorporeal Cardiopulmonary Resuscitation (ECPR) Workgroup
2021 – current	Study Steering & Executive Committee: Novel Experimental COVID Therapies Affecting Host Response (NECTAR). Clinical trials targeting macro-, micro- immuno-thrombosis, vascular hyperinflammation, hypercoagulability, and renin- angiotensin-aldosterone system (RAAS) in hospitalized patients with COVID-19 (ACTIV-4 Host Tissue) NIH/NHLBI
2021 – current	Center for Women in Academic Medicine & Science, member
2019 – current	Dept of Health and Human Services (DHHS), Agency for Healthcare Research and Quality (AHRQ), Health Care Research Training (HCRT) Study Section Member
2019 – current	NIH/NINDS/NHLBI: SIREN Steering Committee
2018 – current	Association of American Medical Colleges (AAMC): Group on Women in Medicine and Science (GWIMS), member
2018 – current	NIH/NINDS/NHLBI: SIREN / NETT Operations Committee
2018 – current	NIH/NINDS/NHLBI: Brain Oxygen Optimization in Severe TBI Phase 3 (BOOST3) Clinical Trial Executive Committee
2018 – current	NIH/NINDS/NHLBI: Lead, Electronic Data Capture Committee, SIREN clinical trials network
2017 – 2023	NIH/NINDS: External Oversight Board, for the Network for Excellence in Neuroscience Clinical Trials (NeuroNEXT)
2023	AHRQ National Research Service Award, Institutional Research Training T32 Study Section; Special Emphasis Committee
2021 – 2022	Society for Critical Care Medicine Membership Committee, Florida Chapter
2021 – 2022	Co-Chair: Society for Academic Emergency Medicine, Neurologic Emergencies Interest Group
2020	AHRQ: Patient Centered Outcomes Research (PCOR) Grants and Cooperative Agreements to Evaluate Health System and Healthcare Professional Responsiveness to COVID-19, Study Section Member, Department of Health and Human Services
2020 – 2022	PCOR: Healthcare Worker Exposure Response and Outcomes (HERO), Ancillary Sub- Committee, Publications
2019 – 2020	Department of Defense (DoD), Scientific Reviewer for the 2019 Peer Reviewed Medical Research Program
2019 – 2020	Neurotrauma, National Trauma Research Action Plan (NTRAP) The NTRAP project is supported by a grant from the Department of Defense, managed by the Coalition for National Trauma Research (CNTR)
2019 – 2020	DoD: United States Army Medical Research and Materiel Command, Military Medical Research and Development. (MRMC Combat Casualty Care [CCC]), Scientific Reviewer
2018 – 2019	NIH/NINDS: Scientific Reviewer, StrokeNet Clinical Trials and Biomarker

2018 – 2019	Studies for Stroke Treatment, Recovery, and Prevention Clinical and Translational Research Institute (CTSI): Chair, Tufts Emergency Medicine Expert Panel
2014 – 2019	Society for Academic Emergency Medicine, Ethics Committee
2018	Society for Academic Emergency Medicine, National Meeting Abstract Review
2018 – 2020	Society for Academic Emergency Medicine, Research Committee
2017	DoD: Congressionally Directed Medical Research Programs (CDMRP) - Scientific Reviewer, Combat Casualty Care Research Program (CCCRP)
2017 – 2019	CTSI: Tufts, Tufts Medical Center - Emergency Medicine Expert Panel
2015 – 2016	Department of Health and Human Services (DHHS), NIH: Scientific Reviewer, Health Services Organization and Delivery Study Section (HSOD), Healthcare Delivery and Methodologies Integrated Review Group
2015	DoD: Congressionally Directed Medical Research Programs - Scientific Reviewer, Clinical Trials Section
2014 – 2015	DHHS, NIH: Scientific Reviewer, Health Services Organization and Delivery Study Section (HSOD), Healthcare Delivery and Methodologies Integrated Review Group
2009 – 2019	NIH/NINDS: Very Early Administration of Progesterone for Acute Traumatic Brain Injury (ProTECT III) - Clinical Standardization Team
2015 – 2016	Chair, Society for Academic Emergency Medicine, Neurologic Emergency Research Interest Group
2014 – 2015	Vice Chair, Society for Academic Emergency Medicine, Neurologic Emergency Research Interest Group
2014 – 2015	National Task Force, Patient Centered Outcomes Research, Society for Academic Emergency Medicine, Consensus Conference on Diagnostic Imaging in the ED: A Research Agenda to Optimize Utilization
2013 – 2014	Society for Academic Emergency Medicine: Neurological Emergencies Committee, Consensus Conference on Gender Specific Medicine
2012	Society for Academic Emergency Medicine- Member, Research Committee
2011 –	Ad-hoc Reviewer, Journal of Neurotrauma, Mary Ann Leibert Inc.
2011 –	Ad-hoc Reviewer, Academic Emergency Medicine, Wiley Blackwell
2011 –	Ad-hoc Reviewer, Annals of Emergency Medicine, Elsevier
2011 –	Ad-hoc reviewer, West J of Emergency Medicine, Dept of EM, UC Irvine
2010 –	Society for Academic Emergency Medicine, Neurologic Emergencies Interest Group
2009	Society for Academic Emergency Medicine, Task Force: Residents as Researchers 2009 Ad-hoc reviewer, Emergency Medicine Reports, AHC Media LLC
2010 – 2012	Ad-hoc reviewer, Critical Care, BioMed Central
2010 –	Ad-hoc Reviewer, American Journal of Emergency Medicine, Elsevier

HOSPITAL / DEPARTMENTAL COMMITTEES & ACTIVITIES:

2024 – current	Nominated to Virginia Commonwealth University (VCU) School of Medicine (SOM) Leadership Academy, VCU SOM Office of Faculty Affairs and Faculty Development
2023 – current	Virginia Commonwealth University (VCU) - Virginia Commonwealth University Health Systems (VCUHS) Collaboration Taskforce
2022 – current	Advanced Resuscitation Cooling Therapeutics and Intensive Care Leadership Committee (ARCTIC), VCUHS - Core Clinical Faculty
2022 – current	Emergency Medicine Faculty Search Committee, VCU
2022 – current	Director, Clinical Trials Collaborative, VCUHS/VCU
2022 – current	Lead, Research Operations Committee, Department of Emergency Medicine, VCU

2020 – 2022	One Florida Clinical Research Consortium
2020 – 2022	Co-chair, Wellness Committee Dept of Emergency Medicine, University of Florida
2020 – 2021	COVID Response Command Center, University of Florida
2019 – 2021	Faculty Search Committee, Dept of Emergency Medicine, University of Florida
2019 – 2021	Chair, Research Committee, Dept of Emergency Medicine, University of Florida
2019 – 2022	Promotion and Tenure Committee, Dept of Emergency Medicine, University of Florida
2018	Peer review, University Emergency Medicine Foundation, Faculty Academic Development Award, Brown University
2018 – 2019	2% Working Group, Dept of Emergency Medicine Brown University
2018 – 2019	Revenue Enhancement Committee, Dept of Emergency Medicine Brown University
2017 – 2018	Trauma Committee, Rhode Island Hospital
2014 – 2019	Institutional Review Board, Rhode Island Hospital
2014 – 2019	Rapid Response Team, Institutional Review Board, Rhode Island Hospital
2013 – 2019	Stroke Committee, Rhode Island Hospital
2012 – 2013	Emergency Department MRI Committee, Rhode Island Hospital, Providence, RI
2009 – 2010	Grady Trauma Committee, Grady Memorial Hospital, Atlanta, GA
2003 – 2005	Emergency Management Sub-Committee, Duke University Medical Center, Durham, NC

UNIVERSITY COMMITTEE & COUNCIL SERVICE:

2024 – current	Clinical Operations Service Agreement (COSA) / Clinical Education and Research Service Agreement Review Committee, VCU/VCUHS, Richmond, VA
2023 – current	Member, One VCU Human Research and Clinical Trials - Initiative (HRCT-I) Advisory Council, VCU/VCUHS, Richmond, VA
2023 – current	Co-Chair, Operations Sub-Committee, HRCT-I, VCU/VCUHS, Richmond, VA
2023 – current	Member, Regulatory Sub-Committee, HRCT-I, VCU/VCUHS, Richmond, VA
2023 – current	Member, Chair's Interdepartmental Research Collaboration, VCU/VCUHS, Richmond, VA
2023 – current	Member, Center for Rehabilitation Science and Engineering (CERSE), Research Capacity Building Council, VCU, Richmond, VA
2023 – current	Grant reviewer, MD-PhD Wright Scholar Grant Review Panel, VCU, Richmond, VA
2022 – current	Director, Research, Education, and Mentorship cycle (REM cycle), VCU/VCUHS, Richmond, VA
2022	Member, Thesis Review Committee, Clinical and Translational Sciences, Master of Science (MS) VCU, Richmond, VA
2022 – current	Chair, Research Committee, Department of Emergency Medicine, VCU, Richmond, VA
2022 – current	Member, Operations Committee, Wright Center for Clinical and Translational Research, VCU, Richmond, VA
2022 – current	Member, Faculty Executive Committee, VCU, School of Medicine, Richmond, VA
2022 – current	Director, Clinical Trials Collaborative VCU/VCUHS, Richmond, VA
2021 – 2022	University of Florida / Florida State University CTSA Scientific Review Committee
2020 – 2022	Steering and Advisory Committee, University of Florida Traumatic Brain Injury Center
2020 – 2022	COVID-19 Scientific Review Committee and Peer Assistance Working Group (SRCWG)
2020 – 2022	Institutional Review Board-01, University of Florida, Gainesville, FL
2015 – 2019	Pediatric Emergency Medicine Research Committee, Brown University, Providence, RI
2014 – 2019	Institutional Review Board, Rhode Island Hospital (for Brown University health sciences research), Providence, RI
2012	University Research Council, Review Committee, Emory University, Atlanta, GA
2009 – 2012	Institutional Review Board, Emory University, Atlanta, GA
2009 – 2012	Center for Injury Control, Emory University, Atlanta, GA
2009 – 2012	Emergency Medicine Wellness Committee, Emory University, Atlanta, GA
2008 – 2012	Emergency Medicine Research Committee, Emory University, Atlanta, GA

2006 – 2007 Resident Quality Council, University of North Carolina, Chapel Hill, NC
 2000 Institutional Review Board, The Chicago Medical School, North Chicago, IL
 2000 Student Council Constitution Committee, The Chicago Medical School, North Chicago, IL
 1999 – 2000 Student Council, The Chicago Medical School, North Chicago, IL
 1999 – 2001 President, Clinical Research Interest Group, The Chicago Medical School, North Chicago, IL
 1998 – 1999 President, Emergency Medicine Clinical Research Interest Group, The Chicago Medical School, North Chicago, IL
 1991 – 1995 Student Chair, Wellness Committee/HIV counseling center development, Reed College, Portland, OR

GRANTS & CLINICAL RESEARCH:

Active:

2023 – 2027 SIREN | CORE-EM Hub Alliance
 Network for Emergency Care Clinical Trials: Strategies to Innovate EmeRgENcy Care Clinical Trials Network (SIREN)
 NIH NHLBI NINDS U24NS100673-06 (MPI: Merck- contact, Wright, Papa, Selker, Mosier, Jones)
 2/1/2023 – 1/31/28
 Role: Multiple Principal Investigator, contact-PI

2023 – 2028 Patterns of Survivors' Recovery Trajectories in the ICECAP trial (POST-ICECAP)
 NIH K00021632 (PI Meurer)
 06/01/2023-05/31/2028
 Role: Hub PI, Site Co-Principal Investigator

2022 – 2024 Feasibility Study of a Single Platform Solution (SPS) for Blood Testing of TBI Biomarkers
 Army Medical Research and Materiel Command (AMRMC); TBIPHRP; W81XWH22C0059
 (PI: William Haskins PhD)
 W81XWH22C0059-LM (sub PI: Lisa Merck MD MPH)
 9/26/22-9/26/24
 Role: Clinical PI

2018 – 2023 Brain Oxygen Optimization in Severe Traumatic Brain Injury-Phase 3 (BOOST-3) CCC
 NIH / NINDS U01NS099046-01A1 (MPI: Barsan, Dias, Shutter, Yeatts)
 International, 60 center, adult and pediatric randomized clinical trial to assess the effect of Pbt02 in goal directed therapy for severe TBI.
 07/01/2018 – 11/30/2023
 Direct Cost: Administrative effort (20% FTE) and per pt reimbursement
 Roles: Hub Principal Investigator; Executive Committee; Co-Director, National Clinical Standardization Team

2021 – 2023 Accelerating COVID-19 Therapeutic Interventions and Vaccines (ACTIV4d).
 Master Protocol for Clinical Trials targeting host tissue and the renin-angiotensin - aldosterone system (RAAS) in hospitalized patients with COVID-19.
Novel Experimental COVID Therapeutic Agents targeting RAAS, (NECTAR).
 CONNECTS Master Protocol for Clinical Trials Targeting Macro-, Micro-immuno-thrombosis, Vascular Hyperinflammation, and Hypercoagulability and Renin-angiotensin-aldosterone System (RAAS) in Hospitalized Patients With

COVID-19 (ACTIV-4 Host Tissue).
 NHLBI NCT04924660 (PI: Collins)
 8/1/2021 – 09/30/24
 Direct cost: Administrative effort (20% FTE) and per pt reimbursement
 Role: Site Co-Investigator, Executive Committee

2019 – 2024 Influence of cooling duration on efficacy in cardiac arrest patients (ICECAP)
 NIH / NINDS / NHLBI 1UG3HL145269-01A1 (MPI: Meurer, Romergryko, Silbergleit)
 9/19/2019 – 6/31/2024
 Direct cost: per pt reimbursement
 Role: Hub Principal Investigator, Site Principal Investigator

2023 – 2030 Wright Regional Center for Clinical and Translational Science
 National Center for Advancing Translational Sciences: UM1TR004360 (FG Moeller)
 5/1/2023-4/30/2030
 Project Goal: The overall goal is to develop methods that overcome roadblocks in
 clinical and translational science (CTS) to support equitable advancement of
 translational science across our rural and diverse region that can be deployed
 throughout the CTSA network
 Direct cost: Administrative effort (10% FTE)
 Role: Site Co-Investigator, Operations Committee

2019 – Biomarkers in the Brain Oxygen Optimization in Severe TBI Trial (Bio-BOOST)
 DOD, USAMRAA W81XWH1910829 (MPI: Diaz, Korley)
 Direct cost: per pt reimbursements
 Role: Hub Principal Investigator

2022 – Transforming Research and Clinical Knowledge in TBI (TRACK-TBI): Clinical
 Evaluation of the i-STAT TBI Test
 Abbot Pharmaceuticals, Univ of California San Francisco (UCSF), (Manley)
 11/2022 – TBD
 Role: Site Principal Investigator

2022 – TRACK-TBI NET, Transforming Research and Clinical Knowledge in
 Traumatic Brain Injury Clinical Trials Network
 Multi-Arm Multi-Stage Adaptive Platform Trial for Acute Treatment TBI
 TBIDT-MOD1 UCSF (Manley)
 11/2022 – TBD UCSF (Manley)
 Role: Site co-investigator / Clinical PI

2022 – AdvanceBox
 Nimbus Research Laboratory, LLC
 Non-clinical PI at Lifespan, in kind
 Community resource architecture to assist in bystander life support measures

Grants in preparation:

2022 – Automated Recording of TCD in the BOOST3 Clinical Trial (ART in BOOST).
 Shraddha Mainali, Danilo Cardim, Aarti Sarwal, Lisa H Merck, Sharon D
 Yeatts, Marek Czosnyka, Lori Shutter. *Submission in process to NINDS.*

2022 – **Observation Pathway for TBI to Improve Prognosis (OPT-In).** Lisa H. Merck, David Cifu, David Wright, Kevin Wang, Chris Butson, Will Haskins.
In review, DoD

Prior research:

2017 – 2022 SIREN | CORE-EM Hub Alliance
Network for Emergency Care Clinical Trials: Strategies to Innovate Emergency Care Clinical Trials Network (SIREN)
NIH NHLBI NINDS 1 U24 NS100673-01 (MPI: Wright-contact, Merck, Papa, Selker, Cairns, Jones)
07/15/2017 – 12/31/2022
Role: Multiple Principal Investigator

2021 – 2022 Early intervention augmenting GABA-ergic pathways: The VIGAB-STAT IIa VIGABatrin in post-anoxic STATUS epilepticus. Outcomes after cardiac arrest depend on the severity of global brain injury resulting from the ongoing injury due to gaps between brain energy supply and demand (secondary brain injury). Our overarching goal is to improve outcomes of individuals who experience refractory seizures after cardiac arrest via an open-label trial using Vigabatrin. The goal of this study is to demonstrate that vigabatrin can be absorbed when given in the post-cardiac arrest period.
American Heart Association (PI: Maciel)
Role: Site Co-investigator, Faculty Mentor

2020 – 2022 Epidemiology of COVID-19 in First Responders
CTSI: Rapid-Response Translational Research Projects to Address COVID-19 Pandemic UL1TR001429, NIH NCATS (MPI: Merck, Morris)
4/29/20 – 6/1/22
Role: MPI

2020 – 2021 COVID-19 Among Children in North Central Florida
CTSI: Rapid-Response Translational Research Projects to Address COVID-19 Pandemic UL1TR001429, NIH NCATS (MPI: Nelson, Morris)
6/1/20 – 6/1/22
Role: Site Co-Investigator

2021 – 2022 Accelerating COVID-19 Therapeutic Interventions and Vaccines (ACTIV4c)
A multicenter, adaptive, prospective, randomized trial evaluating the efficacy and safety of antithrombotic strategies in patients with COVID-19 following hospital discharge.
NINDS, NHLBI, BARDA, OWS, HHS (PI: Ortel)
4/29/21 – 8/30/22
Direct cost: per pt reimbursement
Role: Site Principal Investigator

2021 – 2022 CoVPN 3006 A randomized controlled study to assess SARS CoV-2 infection, viral shedding, and subsequent potential transmission in university students immunized with Moderna COVID-19 Vaccine
NIH / NIAID
Role: Site Co-investigator

- 2021 – 2022 Kinetics of Antibody, B Cell and T Cell Responses to SARS-CoV-2 mRNA Vaccines in Solid tumor and Lymphoma Patients.
Comparative Diagnostic and Population Medicine College of Veterinary Medicine
University of Florida Veterinary Medicine (PI: Maureen T. Long DVM PhD)
Role: Co-investigator
- 2021 – 2022 Multi-arm Optimization of Stroke Thrombolysis (MOST): a single blinded, randomized controlled adaptive, multi-arm, adjunctive-thrombolysis efficacy trial in ischemic stroke. (MOST)
NINDS U01 NS100699 (MPI: Adeoye, Grotta)
6/11/21- 2/2024
Direct cost: per pt reimbursement
Role: Site Principal Investigator
- 2021 – 2022 Sensor Evaluation of Neurologic Status in Emergencies (SENSE Device), SENSE-003. A Prospective, Two-Stage, Non-randomized, Multi-center Within Patient Comparison Study to Evaluate the SENSE Device's Ability to Monitor Intracranial Hemorrhage.
SENSE Diagnostics (PI: Opeolu Adeoye)
Direct cost: per pt reimbursement
Role: Site Principal Investigator
- 2020 – 2021 Accelerating COVID-19 Therapeutic Interventions and Vaccines (ACTIV4b)
COVID-19 Outpatient Thrombosis Prevention Trial: A multicenter adaptive randomized placebo-controlled platform trial evaluating the efficacy and safety of antithrombotic strategies in COVID-19 adults not requiring hospitalization at time of diagnosis.
NHLBI (PI: Connors)
9/1/20-9/1/21
Direct cost: per pt reimbursement
Role: Site Principal Investigator
- 2020 – 2021 Clinical-trial of COVID-19 Convalescent Plasma in Outpatients (C3PO)
A multicenter, two arm, randomized, single-blind trial clinical trial to determine if receiving one dose of convalescent plasma (CP) for mild COVID-19 illness prevents illness progression.
7/1/20 – 12/31/22
NIH NHLBI NINDS U24NS100659, U24NS100655 (MPI: Callaway; Durkalski-Mauldin; Korley, MD, PhD)
Direct cost: per patient reimbursement
Role: Site Principal Investigator
- 2020 – 2021 A Phase 2/3 Randomized, Placebo-Controlled, Double-Blind Clinical Study to Evaluate the Efficacy, Safety, and Pharmacokinetics of MK-4482 in Hospitalized Adults with COVID-19 (MK-4482)
Merck, Sharp, & Dohme Corp
10/23/2020-10/22/2021
Direct Cost: Per pt reimbursement
Role: Site Co-investigator
- 2020 – 2021 A Randomized Controlled Trial of Losartan with COVID-19 (ALPS-COVID)
Bill and Melinda Gates Foundation (Tignanelli and Puskarich)

- University of Minnesota, IND 148365
4/15/20 – 5/15/21
Total Award: per pt reimbursement
Direct cost: per pt reimbursement
Role: Site Principal Investigator
- 2020 – 2021 A Phase 3, Randomized, Double-Blind, Placebo-Controlled, Multicenter Study to Assess the Efficacy and Safety of Ruxolitinib in Participants With COVID-19-Associated ARDS Who Require Mechanical Ventilation (RUXCOVID-DEVENT)
Incyte Corporation: INCB018424-369
5/24/20 – 4/30/21
Direct cost: per pt reimbursement
Role: Site Principal Investigator
- 2020 – 2021 R10933-10987-COV-2067: A Master Protocol Assessing the Safety, Tolerability, and Efficacy of Anti-Spike (s) SARS-CoV-2 Monoclonal Antibodies for the Treatment of Ambulatory Patients with COVID-19
Regeneron Pharmaceuticals: Grant #: HHSO100201700020C
10/1/20 – 3/31/21
Total Award: Per pt reimbursement
Role: Site Co-investigator
- 2018 – 2020 Artificial Intelligence for Modeling and Treatment of Stroke and Traumatic Brain Injury (AIM Study)
NIH/NCATS 5U24TR001609-02 (Hanley)
Johns Hopkins - Tufts Trial Innovation Center Subaward #2003844252 (MPI: D Merck and L Merck)
05/01/2018 – 04/30/2020
Role: Principal Investigator
- 2020 – 2021 Preventing COVID-19 Infections: Healthcare Worker Exposure Response and Outcomes (HERO) Registry and Hydroxychloroquine (HERO-HCQ) Trial
PCORI COVID 19-2020-001 (Adrian Hernandez)
3/31/20 – 6/30/21
Role: Site Principal Investigator, Publications Committee
- 2017 – 2020 Established Status Epilepticus Treatment Trial (ESETT)
NIH / NINDS 1U01NS088034 (Kapur)
09/30/2014 – 08/31/20
Direct cost/year: per patient enrollment
This study is designed to determine the most effective and/or the least effective treatment of ESE among patients older than two years by comparing three arms: fosphenytoin (FOS), levetiracetam (LEV), and valproic acid (VPA).
Role: Site Principal Investigator (effort per pt enrollment)
- 2018 – 2019 Tufts Clinical and Translational Science Institute
NIH/NCATS UL1TR002544 (Selker)
NIH Sub 102188-00001(Merck)
Chair, Tufts Clinical and Translational Research Institute, Emergency Medicine Expert Panel
09/01/2018-04/30/2023

Role: Co-Investigator

- 2018 – 2019 The ACCESS Trial, Access to the cardiac catheterization laboratory in patients without ST-segment elevation myocardial infarction resuscitated from out-of-hospital ventricular fibrillation cardiac arrest
NIH/NHLBI 5U01HL133818-02 (Aufderheide and Yannopoulos)
9/15/2016-5/31/2021
Direct cost/year: per patient enrollment
Determine survival to hospital discharge with Modified Ranking Scale Score ≤ 3 in adult 18-75 years old) patients resuscitated from out-of-hospital VT/VF cardiac arrest who do not have ST-segment elevation on emergency department 12-lead ECG (no-STEMI) randomized to receive either: 1) initial CCL admission, or 2) initial ICU admission.
Role: Site Principal Investigator
- 2019 Randomized, Controlled, Single-blind Study of Probable Benefit of the *Neuro-Spinal Scaffold*™ for Safety and Neurologic Recovery in Subjects with Complete Thoracic AIS A Spinal Cord Injury as Compared to Standard of Care In Vivo Therapeutics: InVivo-100-105
Role: Site Co-Investigator
- 2018 Spring
Vertex Pharmaceuticals Incorporated VX15-210-101
A Phase 2b/3, Double-blind, Randomized, Placebo-controlled, Multicenter Study to Assess the Efficacy and Safety of VX-210 in Subjects with Acute Traumatic Cervical Spinal Cord Injury
IND Number: 11,672
Role: Site Co-Investigator
- 2018 – 2019 Southern New England Partnership in Stroke Research, Innovation, and Treatment (SPIRIT)
NIH/NINDS 1U24NS107215-01 (Sheth, Alberts, Furie)
8/15/2018 – 7/31/2019
Role: Site Co-Investigator
- 2016 – 2017 ProTECT3D
NIH / NINDS 5 U01 NS062778-05REV (Wright)
Subaward T721754 (MPI: Merck/Merck)
9/1/2016 – 6/30/2017 (NCE)
Role: Principal Investigator
- 2016 – 2017 PERSEUS: Targeted Delivery of Multi-Parametric Telemetry Clinical Messages to Mitigate Alarm Fatigue
AHRQ R18 HS022860 (Kobayashi)
10/01/2014 – 09/30/2017
Role: Site Co-Investigator
- 2013 – 2017 Progesterone for the Treatment of Traumatic Brain Injury (ProTECTIII) NIH / U01NS062778 (Wright)
07/01/2009 – 07/30/2017 (NCE)
Direct Award: individual administrative and per patient enrollment

The primary objective is to determine the effect of administering intravenous progesterone (initiated within 4 hours of injury and administered for 72 hours, followed by an additional 24 hour taper) vs. placebo for treating victims of moderate to severe (GCS 12-4) TBI.

Roles: National Clinical Standardization Team National Publications Committee
Site Principal Investigator

- 2017 – 2020 ESCAPE-NA1 Trial
A Multicenter, Randomized, Double-blinded, Placebo-controlled, Parallel Group, Single- dose Design to Determine the Efficacy and Safety of Intravenous NA-1 in Subjects with Acute Ischemic Stroke Undergoing Endovascular Thrombectomy
NoNO Inc. Krembil Research Institute (Hill)
3/1/2017 – 4/2020
Role: Site Co-Investigator
- 2016 – 2018 Endovascular Therapy Following Imaging Evaluation for Ischemic Stroke 3 (DEFUSE3)
NIH / NINDS 1U01NS092076-01A1 (Albers)
07/01/2016 – 08/31/2020
Direct cost/year: per patient enrollment
Role: Site Co-Investigator
- 2014 – 2018 Automated Ventricular Analysis: Medical Image Analysis in Hydrocephalus National Center for Advancing Translational Sciences
NIH / UL1 TR000430 (University of Chicago)
Role: Principal Investigator
- 2013 – 2017 Biomarkers of Injury and Outcome in ProTECT III (BIO-ProTECT)
NIH / 1R01 NS071867 (Frankel)
05/01/2011 – 04/30/17
Direct Cost/year: sub-award, per patient enrollment
The major goal of this study is to determine whether protein biomarkers of traumatic brain injury predict outcome and response to treatment with progesterone
Role: Site Principal Investigator
- 2013 – 2017 NETT - Neurological Emergencies Treatment Trials Hub / Spoke Network NIH / NINDS 1 U10 NS059032-01 (Baren)
09/01/2012 – 05/31/17
Direct cost/year: sub-award, per patient enrollment
This grant provides support to the Neurological Emergency Treatment Trial Network Collaborative NETT – GPSNJ Greater Philadelphia - Southern New Jersey
Role: Site Principal Investigator
- 2012 – 2018 Futility Study of Deferoxamine Mesylate in Intracerebral Hemorrhage(i-DEF)
National Institutes of Health (NIH) / U01 NS074425 (Beth Israel)
10/2014 – 08/2018
cost/year: sub-award, per patient enrollment
The purpose of this study is to determine whether treatment with Deferoxamine Mesylate is of sufficient promise to improve outcome before pursuing a larger clinical trial to examine its effectiveness as a treatment for intracerebral hemorrhage.
Direct Cost/year: subcontract, per-patient enrollment
Role: Site Co-Investigator

- 2010 – 2018 Platelet-Oriented Inhibition in new TIA and minor ischemic stroke(POINT)
NIH 1U01NS062835 (Johnston)
09/30/2009 – 06/30/2018
Direct Cost/year: subcontract, per-patient enrollment
The purpose of this study is to determine whether clopidogrel 75 mg/day by mouth after a loading dose of 600 mg is effective in improving survival free from major ischemic vascular events (ischemic stroke, myocardial infarction, and ischemic vascular death) at 90 days when initiated within 12 hours of TIA or minor ischemic stroke onset in patients receiving aspirin.
Role: Site Principal Investigator
- 2015 – 2016 ProTECT3D
NIH / NINDS 5 U01 NS062778-05REV (Wright)
Subaward T129489 (Merck)
12/30/2015 – 6/30/2016 (NCE)
Role: Principal Investigator
- 2010 – 2016 ATACH-II: Antihypertensive Treatment of Acute Cerebral Hemorrhage: A Phase III Randomized Multicenter Clinical Trial of Blood Pressure Reduction for Hypertension in Acute Intracerebral Hemorrhage.
NIH / U01 NS062091 (Qureshi)
08/01/2010 – 07/31/2016
Direct Cost/year: sub-award per patient enrollment
The purpose of this study is to definitively determine the efficacy of early, intensive, antihypertensive treatment using intravenous (IV) nicardipine initiated within 3 h of onset of ICH and continued for the next 24 h in subjects with spontaneous supratentorial ICH. Direct Cost/year: sub-award, per patient enrollment.
Role: Site Principal Investigator
- 2014 – 2016 Validation of ShuntCheck-Micro-Pumper, a noninvasive diagnostic procedure NIH / NINDS SBIR #5R44NS067772-04 (Fritz, Swoboda)
07/01/2014 – 06/30/2016
Direct Cost/year: per patient enrollment
Role: Site Principal Investigator
- 2015 – 2016 RELAX AHF2, A multicenter, randomized, double-blind, placebo controlled phase IIIb study to evaluate the efficacy, safety and tolerability of Serelaxin when added to standard therapy in acute heart failure patients.
Novartis Pharmaceuticals CRLX030A2301 (Metra and Teerlink)
09/01/2015 – 06/01/2016
Role: Site Co-Investigator
- 2014 – 2015 IntelliSport: Musculoskeletal and Closed Head Injury Prevention in Athletic Training
Intel Corporation (Merck, L)
08/01/2014 – 04/01/2015
Role: Principal Investigator
- 2011 – 2012 Informed Consent for Computerized Tomography
Supported in part by PHS Grant UL1 RR025008 (Merck)

Clinical and Translational Science Award Program National Institutes of Health,
National Center for Research Resources
08/01/2011 – 08/01/2012
Role: Principal Investigator

2010 – 2012 High-Dose Albumin Therapy for Neuroprotection in Acute Ischemic Stroke (ALIAS) NIH / U01NS040406 (Ginsberg)
07/01/2000 – 05/31/2015
Direct Cost/year: per-patient payments
Role: Emory Site Co-Investigator

2009 – 2012 Neurological Emergency Treatment Trial Network (NETT)
NIH / U10NS059032 (Wright)
01/01/2009 – 05/31/2017
The major goal of this project is to build a research network of investigators at metro-Atlanta hospitals for clinical trials to develop effective treatments for patients with neurological emergencies.
Role: Co-Investigator, NETT-SEC

2009 – 2012 Traumatic Brain Injury Studies at Grady Memorial Hospital
DoD W81XWH-09-2-0145 (Haley)
09/1/2009 – 4/20/2011 (NCE)
Department of Defense, Telemedicine and Advanced Technology Research Center
1. Investigation and Comparison of DETECT, ANAM, and Neuropsychological Testing in the Detection of Mild Traumatic Brain Injury

2010 – 2011 Rapid Anticonvulsant Medications Prior to Arrival Trial (RAMPART)
NIH / U01NS056975 (sub-award with University of Michigan)
08/01/2007 – 05/31/2015
Direct Cost/year: per patient payment
Role: Emory Site Co-Investigator (indirect support via NETT award)

OTHER RESEARCH EFFORT & RESEARCH EFFORT IN KIND:

2020 – 2022 Determination of risk factors and clinical course for infection with coronavirus or other possible emerging pathogens that may be identified concurrently
Role: PI First Responder COVID Testing, University of Florida, Gainesville

2012 – 2016 Prognosis and Decision Making in Intracerebral Hemorrhage: Family Perspectives.
NIH 1K23AG038731-01A1 (University of Michigan)
Role: Site Co-Investigator

2009 – 2011 Utilization of Informed Consent for Computerized Tomography.
Emory University School of Medicine, Departments of Emergency Medicine and Radiology, Atlanta, Georgia

2006 – 2008 Effect of Emergency Department overcrowding on time to critical testing: EKG and Head CT. University of North Carolina at Chapel Hill, Department of Emergency Medicine, Chapel Hill, North Carolina

- 2005 – 2006 Evaluation of subdural hematoma in the neonatal population. University of North Carolina at Chapel Hill, Department of Computer Science/Medical Imaging, Neurodevelopment, Chapel Hill, North Carolina
- 2005 – 2006 Three-dimensional imaging of the neonatal brain. University of North Carolina at Chapel Hill, Department of Computer Science/Medical Imaging, Neurodevelopment, Chapel Hill, North Carolina
- 2002 – 2005 The development of myelomeningocele in post-operative tethered cord patients, a review of the literature. Duke University Medical Center, Durham, North Carolina
- 1999 – 2002 Chiari-pseudotumor Syndrome. Clinical Research Extern- Section of Pediatric Neurosurgery, The University of Chicago Children's Hospital, Chicago, Illinois
- 2001 – 2002 MPH Thesis- Asthma Protocols in an Urban Emergency Department. Mount Sinai Hospital, Chicago, IL and the Oregon Health and Sciences University, Portland, OR
- 1996 – 1998 Clinical case and research assistant- Department of Neurological Surgery, Oregon Health and Sciences University, Portland, Oregon
- 1997 – 1998 Cognitive effects of cerebral spinal fluid shunt failure in hydrocephalic children. Epidemiology and Biostatistics Intern- Department of Neurological Surgery, Oregon Health and Sciences University, Portland, Oregon
- 1997 – 1998 Expansion of dialysis parameters in End-Stage Renal Disease. Epidemiologic Consultant- Optimal Renal Care, Southern California Kaiser Permanente Medical Group, and the Health Care Financing Administration
- 1996 – 1997 Breast and Cervical Cancer Project. Research Assistant- Multnomah County Health Department, Portland, Oregon
- 1996 – 1997 Review of HIV legislation on identification and treatment of high-risk pediatric populations in California and Oregon. Research Assistant- Multnomah County Health Department, Portland, Oregon

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Original Publications in Peer-reviewed Journals:

1. George, T.M., **Fagan L.H.**, Adult tethered cord syndrome in patients with post-repair myelomeningocele: an evidence-based outcome study. *J. Neurosurgery: Ped* 102:150-156, 2005. PubMed PMID: 16156223.
2. **Fagan LH**, Ferguson S, Yassari R, Frim DM. The Chiari pseudotumor cerebri syndrome: symptom recurrence after decompressive surgery for Chiari malformation type I. *Pediatric Neurosurgery*. 2006;42(1):14-9. PubMed PMID: 16357496.

3. Looney CB, Smith JK, **Merck LH**, Wolfe HM, Chescheir NC, Hamer RM, Gilmore JH. Intracranial hemorrhage in asymptomatic neonates: prevalence on MR images and relationship to obstetric and neonatal risk factors. *Radiology*. 2007 Feb; 242(2):535-41. PubMed PMID: 17179400.
4. **Merck LH**, Hauck MG, Houry DE, Lowery-North DW, Hemphill RR, Applegate KE. Informed Consent for Computed Tomography. *American Journal of Emergency Medicine*. 2011 Feb;29(2):230-2. Epub 2010 Nov 5. PubMed PMID: 21115314.
5. American College of Surgeons Trauma Quality Improvement Program Guidelines, Traumatic Brain Injury. H Gill Cryer MD FACS, Geoffrey T Manley MD PhD FACS, P David Adelson MD PhD FACS, Aziz S Alali MD, J Forrest Calland MD FACS, Mark Cipolle MD PhD, Christopher Cribbari MD FACS, Matthew L Davis MD FACS, Mark R Hemmila MD FACS, J Claude Hemphill MD, Michael Huang MD, Randeep Jawa MD, Todd Kilbaugh MD, Rosemary Kozar MD FACS, Andrew IR Maas MD PhD, **Lisa H Merck MD MPH FACEP**, Avery B Nathens MD FACS, Claudia Robertson MD, Phiroz Tarapore MD, Shelley Timmons MD PhD, Jamie Ullman MD, Alex Valadka MD, David W Wright MD FACEP. *Committee on Trauma Expert Panel 1/2015, American College of Surgeons*.
<https://www.facs.org/~media/files/quality%20programs/trauma/tqip/traumatic%20brain%20injury%20guidelines.ashx>
6. Wright DW, Espinoza TE, **Merck LH**, Ratcliff JR, Backster A, Stein DG. Gender Differences in Neurological Emergencies Part II: A Consensus Summary and Research Agenda on Traumatic Brain Injury. *Academic Emergency Medicine*, published first online, 24 Nov 2014 DOI:10.1111 / acem.12535. PubMed PMID: 25420582; PubMed Central PMCID: PMC4311997.
7. David W Wright MD, Sharon D Yeatts PhD, Robert Silbergleit MD, Yuko Y Palesch PhD, Vicki S Hertzberg PhD, Michael Frankel MD, Harriet Howlett-Smith RN, Erin M Bengelink MA, Geoff Manley MD PhD, **Lisa H Merck MD MPH**, Scott Janis PhD, William Barsan MD. Very Early Administration of Progesterone for Acute Traumatic Brain Injury. *New England Journal of Medicine*, published first online, 12/10/2014 DOI: 10.1056/NEJMoa1404304.
8. Joseph B Miller MD MS, Laura Heitsch MD, Matthew S Siket MD MS, Jon W Schrock MD, Charles R Wira III MD, Christopher Lewandowski MD, Tracy E Madsen MD ScM, **Lisa H Merck MD MPH**, David W Wright MD. The 2015 ACEP Clinical Policy on tPA for Stroke: What is Best for Our Patients? Efficacy in the First Three Hours. *Academic Emergency Medicine*, published first online 6/26/15 ISSN 1069-6563 1 doi: 10.1111/acem.12712 PII ISSN 1069-6563583. PubMed PMID: 2611336
9. Hemal K Kanzaria MD MSHPM, Aileen McCabe, Zachary Meisel MD MPH MSc, Annie LeBlanc PhD, Jason T Schaffer MD, M. Fernanda Bellolio MD, William Vaughan, **Lisa H Merck MD MPH**, Kimberly E Applegate MD MS, Judd E Hollander MD¹, Corita R Grudzen MD MSHS¹, Angela M Mills MD, Christopher R Carpenter MD MSc, and Erik P Hess MD MSc. Advancing Patient-Centered Outcomes in Emergency Diagnostic Imaging: A Research Agenda. *Academic Emergency Medicine*, Volume 22, Issue 12, pages 1435–1446, December 2015, published first online 11/2015 DOI:10.1111/acem.12832 2015. PubMed PMID: 26574729.
10. Amber K Sabbatini MD, **Lisa H Merck MD MPH**, Adam Froemming MD, William Vaughan, Michael D Brown MD MSc, Erik P Hess MD MSc, Kimberly Applegate MD, Nneka Comfere MD. Patient-Centered Communication and Multidisciplinary Care Coordination in Emergency Diagnostic Imaging: A Research Agenda. *Academic Emergency Medicine*, Volume 22, Issue 12, December 2015, Pages: 1427–1434; published first online 11/2015 DOI:10.1111/acem.12832 2015. PubMed PMID: 26575785.

11. **Lisa H Merck MD MPH**, Laura Ward MSPH, Esther Choo MD MPH, Kimberly Applegate MD MS, Douglas Lowery-North MSPH, Katherine Heilpern MD. Written Informed Consent for Computed Tomography of the Abdomen/Pelvis is Associated with Decreased CT Utilization in Low-Risk Emergency Department Patients. *Western Journal of Emergency Medicine: Integrating Emergency Care with Population Health* (WestJEM), Vol XVI no 7 Dec 2015. <http://escholarship.org/uc/item/7t36f8dt>. PMID: 26759646; PubMed Central PMCID: PMC4703183.
12. Bryan Choi MD MPH, Nicholas Asselin DO, Catherine C Pettit MD, Max Dannecker NREMT-I, Jason T Machan PhD, Derek L Merck PhD, **Lisa H Merck MD MPH**, Selim Suner MD, Kenneth A Williams MD, Gregory D Jay MD PhD, Leo Kobayashi MD. Simulation-based Randomized Comparative Assessment of Out-of-Hospital Cardiac Arrest Resuscitation Bundle Completion by Emergency Medical Service Teams using Standard Life Support or an Experimental Automation- Assisted Approach. *Simulation in Healthcare: Journal of the Society for Simulation in Healthcare* · Dec 2016, Vol 11(6): p365-375 DOI: 10.1097/SIH.0000000000000178.
13. Joseph Miller MD MS, **Lisa H Merck MD MPH**, Charles R Wira MD, William J Meurer MD MS, Jon W Schrock MD, Jason T Nomura MD, Matthew S Siket MD MS, Madsen TE, MD ScM, David W Wright MD, Peter D Panagos MD, Christopher Lewandowski MD, The Advanced Reperfusion Era: Implications for Emergency Systems of Ischemic Stroke Care. *Annals of Emergency Medicine*. 9/3/2016, e-published ahead of print: DOI: 10.1016/j.annemergmed.2016.06.042.
14. Krishna Murthy, Owen Leary, **Lisa H Merck**, Benjamin Kimia, Scott Collins, David W Wright, Jason W Allen, Derek Merck. Machine learning algorithm for automatic detection of CT-identifiable hyperdense lesions associated with traumatic brain injury. Proc. SPIE 10134, Medical Imaging 2017: Computer-Aided Diagnosis, 101342G (March 23, 2017); doi:10.1117/12.2254227, DOI link: <http://dx.doi.org/10.1117/12.2254227>.
15. Kurt Denninghoff, Tomas Nuño, Qi Pauls, Sharon D Yeatts, Robert Silbergleit, Yuko Y Palesch, **Lisa H Merck**, Geoff Manley, and David W Wright. Pre-hospital intubation is associated with favorable outcomes and lower mortality in ProTECTIII Trial. *Prehospital Emergency Care*, published online: 10 May 2017, DOI link: <http://dx.doi.org/10.1080/10903127.2017.1315201>.
16. Shellie L Asher MD, Kenneth V Iserson MD, **Lisa H Merck MD MPH**. Society for Academic Emergency Medicine Statement on Plagiarism. *Academic Emergency Medicine*. PMID 28628260 DOI: [10.1111/acem.13241](http://dx.doi.org/10.1111/acem.13241)
17. Denninghoff KR, Nuño T, Pauls Q, Yeatts SD, Silbergleit R, Palesch YY, **Merck LH**, Manley GT, Wright DW. Prehospital Intubation is Associated with Favorable Outcomes and Lower Mortality in ProTECT III. *Prehosp Emerg Care*. 2017 Sep-Oct;21(5):539-544. doi: 10.1080/10903127.2017.1315201. Epub 2017 May 10. PMID: 28489506; PMCID: PMC7225216.
18. Nuño T, Denninghoff KR, Pauls Q, Yeatts SD, Silbergleit R, Palesch YY, **Merck LH**, Manley G, Wright DW. Reply to: Prehospital Intubation: Further Confounders in Trial Results. *Prehosp Emerg Care*. 2018 Jul-Aug;22(4):537. doi: 10.1080/10903127.2017.1408729. Epub 2018 Jan 17. PMID: 29338483.
19. Charles R Wira III MD; Tracy E Madsen MD ScM; Bernard P Chang MD PhD; Jason T Nomura MD; Evie Marcolini MD; Nina T Gentile MD; Kraftin E Schreyer MD CMQ; **Lisa H Merck MD MPH**; Matthew Siket MD; Karen Greenberg DO FACOEP; Christopher G Zammit MD; Edward C Jauch MD MS; M Fernanda Bellolio MD MSc from the Society for Academic Emergency Medicine Neurological Emergencies Interest Group. *Emergency Medicine Stroke and Neurocritical Care Clinical Education*. Is

there a Neurologist in the House? A Summary of the Current State of Neurovascular Rotations for Emergency Medicine Residents. *First published: 05 October 2018* <https://doi.org/10.1002/aet2.10200>, © 2018 by the Society for Academic Emergency Medicine, doi: 10.1002/aet2.10200 ISSN 2472-5390 *Academic Emergency Medicine*.

20. Nicholas Asselin DO MS, Bryan Choi MD MPH, Catherine Pettit MD, Max Dannecker NREMT-I, Jason T Machan PhD, Derek L Merck PhD, **Lisa H Merck MD MPH**, Selim Suner, MD, Kenneth A Williams MD, Gregory D Jay MD PhD, Leo Kobayashi MD. Comparative Analysis of Emergency Medical Service Provider Workload during Simulated Out-of-Hospital Cardiac Arrest Resuscitation Using Standard versus Experimental Protocols and Equipment. *Simul Healthc*. 2018 Dec;13(6):376-386. doi: 10.1097/SIH.0000000000000339. PMID: 30407958; Epub ahead of print Nov 7, 2018 *Simulation in Healthcare*.
21. **Lisa H Merck MD MPH**, Sharon D Yeatts PhD, Geoff Manley MD PhD, Robert Silbergleit MD, Robin Conwit MD, Qi Pauls MS, Michael Frankel MD, Peter Le Roux MD, Yuko Palesch PhD, David W Wright MD. Goal Directed Therapy in the ProTECTIII Clinical Trial: The Effect of Physiologic Transgressions on Patient Mortality and Functional Outcome after Traumatic Brain Injury. *Crit Care Med*. 2019 Feb 5. doi: 10.1097/CCM.00000000000003680. PMID: 30730438.
22. Frankel M, Yeatts SD, Fan L, Jeromin A, Vos PE, Wagner AK, Lunney M, **Merck LH**, Hall CL, Palesch YY, Silbergleit R, Wright D. The Association of Very Early Serum levels of S100B, GFAP, UCH-L1, and SBDP with Outcome in ProTECT III. *JNeurotrauma*. 2019 Feb 22. doi: 10.1089/neu.2018.5809. [Epub ahead of print] PMID: 30794101.
23. Efficacy of Computed Tomography Utilization in the Assessment of Acute Traumatic Brain Injury in Adult and Pediatric Emergency Department Patients. Taneisha T Wilson MD ScM; **Lisa H Merck MD MPH FACEP**; Mark R Zonfrillo MD MSCE; Jonathan S Movson MD; Derek Merck PhD. *Rhode Island Medical Journal*, Nov 2019.
24. A Comparative Study of 2D Image Segmentation Algorithms for Traumatic Brain Lesions Using CT Data from the ProTECTIII Multicenter Clinical Trial. Shruti Jadon BS, Owen P Leary ScB, Ian Pan BS, Tyler J. Harder MSc BA, David W. Wright MD, **Lisa H Merck MD MPH**, Derek L. Merck PhD. *Proc. SPIE, Medical Imaging 2020. Proceedings Volume 11318, Medical Imaging 2020: Imaging Informatics for Healthcare, Research, and Applications; 113180Q (2020)* <https://doi.org/10.1117/12.2566332> Event: *SPIE Medical Imaging, 2020, Houston, Texas*.
25. Non-invasive Thermal Flow Evaluation of Ventriculoperitoneal Shunt Flow Improves Diagnostic Accuracy of Shunt Malfunction: A Prospective, Multi-Site, Operator-Blinded Study. Joseph R Madsen MD, Mustafa Q Hameed MD, Tehnaz P Boyle MD PhD, Mark I Neuman MD MPH, Eun-Hyoung Park PhD, Mandeep S Tamber MD PhD, Robert W Hickey MD, Gregory G Heuer MD, Joseph Zorc MD MSCE, Jeffery R Leonard MD, Julie C Leonard MD MPH, Robert Keating MD, James Chamberlain MD, David M Frim MD PhD, Paula Zakrzewshi RN MSN, Petra Klinge MD PhD, **Lisa H Merck MD MPH**, Joseph H Piatt MD, Jonathan E Bennett MD, David I Sandberg MD, Frederick A Boop MD. *Neurosurgery*, nyaa128, <https://doi.org/10.1093/neuros/nyaa128>. Published: 27 May 2020
26. Simpkins AN, Busl KM, Amorim E, Barnett-Tapia C, Cervenka MC, Dhakar MB, Etherton MR, Fung C, Griggs R, Holloway RG, Kelly AG, Khan IR, Lizarraga KJ, Madagan HG, Onweni CL, Mestre H, Rabinstein AA, Rubinos C, Dionisio-Santos DA, Youn TS, **Merck LH**, Maciel CB; Neurotherapeutics Symposium 2019. Proceedings from the Neurotherapeutics Symposium on Neurological Emergencies: Shaping the Future of Neurocritical Care. *Neurocrit Care*. 2020 Sep 21. doi: 10.1007/s12028-020-01085-0. Epub ahead of print. PMID: 32959201.

27. Computer-Assisted Measurement of Traumatic Brain Hemorrhage Volume is More Predictive of Functional Outcome and Mortality than Standard ABC/2 Method: An Analysis of CT Imaging Data from the ProTECTIII Trial. Owen P Leary ScB*, **Lisa H Merck MD MPH***, Sharon D Yeatts PhD, Ian Pan MS, David D Liu ScB, Tyler J Harder MS, Stefan Jung ScB, Scott Collins RT(R)(CT), Maria Braileanu MD, Ziya L Gokaslan MD, Jason W Allen MD PhD, David W Wright MD, Derek Merck PhD. *Journal of Neurotrauma*: <http://mc.manuscriptcentral.com/neurotrauma>; Nov 1, 2020. *supervising 1st author
28. T Yi, I Pan, S Collins, F Chen, R Cueto, B Hsieh, C Hsieh, JL Smith, L Yang, W Liao, **L Merck**, H Bai, D Merck, "DICOM Image ANalysis and Archive (DIANA): An Open-Source System for Clinical AI Applications", *Journal of Digital Imaging*, 2021 Dec;34(6):1405-1413. doi: 10.1007/s10278-021-00488-5. Epub 2021 Nov 2.
29. Effect of losartan on hospitalized patients with COVID-19-induced lung injury: A randomized clinical trial. Michael A Puskarich, Nicholas E Ingraham, **Lisa H Merck**, Brian E Driver, David A Wacker, Lauren P Black, Alan E Jones, Courtney V Fletcher, Andrew M South, Andrew C Nelson, Thomas A Murray, Christopher J Tignanelli. *Manuscript in peer review, preprint available*: doi: <https://doi.org/10.1101/2021.08.25.21262623>; medRxiv preprint August 28, 2021.
30. Brain Oxygen Optimization in Severe Traumatic Brain Injury (BOOST-3): A multicenter, randomized, blinded-endpoint, comparative effectiveness study of brain tissue oxygen and intracranial pressure monitoring versus intracranial pressure alone. Bernard F MD; Barsan W MD; Diaz-Arrastia R MD PhD; **Merck LH MD MPH**; Yeatts S PhD; Shutter L MD. *British Medical Journal Open*, BMJ Open 2022;12:e060188. doi:10.1136/bmjopen-2021-060188
31. Early Vigabatrin Augmenting GABA-ergic Pathways in Post-Anoxic Status Epilepticus (VIGAB-STAT) Phase IIa Clinical Trial Study Protocol. Carolina Maciel; Fernanda JP Teixeira; Katie J Dickinson; Jessica C Spana; **Lisa H Merck**; Alejandro A Rabinstein; Robert C Sergott; Guogen Shan; Guanhong Miao; Charles A Peloquin; Katharina M Busl; Lawrence J Hirsch. *Neurological Research and Practice*, Jan 25, 2022 4:4, <https://doi.org/10.1186/s42466-022-00168-x>.
32. Developing a National Trauma Research Action Plan (NTRAP): Results from the Neurotrauma Research Panel Delphi Survey. Stein DM, Braverman MA, Phuong J, Shipper E, Price MA, Bixby PJ, Adelson PD, Ansel BM, Cifu DX, DeVine JG, Galvagno SM, Gelb DE, Harris O, Kang CS, Kitagawa RS, McQuillan KA, Patel MB, Robertson CS, Salim A, Shutter L, Valadka AB, Bulger EM, Adelson PD, Ansel BM, Chesnut RM, Cifu DX, DeVine JG, Galvagno SM, Gelb DE, Giacino JT, Harris O, Hawryluk G, Kang CS, Kitagawa RS, Manley GT, McQuillan KA, **Merck LH**, Okonkwo DO, Patel MB, Robertson CS, Salim A, Shackelford CSA, Sheth KN, Shutter L, Stein DM, Valadka AB, Wade CE, Whyte J; And the NTRAP Neurotrauma Panel Group. *J Trauma Acute Care Surg*. 2022 Jan 6. doi: 10.1097/TA.0000000000003527. Epub ahead of print. PMID: 35001020.
33. Prolonged Automated Robotic TCD Monitoring in Acute Severe TBI: Study Design and Rationale. Shraddha Mainali MD, Danilo Cardim PhD, Aarti Sarwal MD, **Lisa H Merck MD MPH**, Sharon D Yeatts PhD, Marek Czosnyka PhD, Lori Shutter MD. *Neurocrit Care* (2022), Published 06 April 2022. <https://doi.org/10.1007/s12028-022-01483-6>
34. Michael A Puskarich MD MS; Nicholas E Ingraham MD; **Lisa H Merck MD MPH**; Brian E Driver MD; David A Wacker MD PhD; Lauren P Black MD MPH; Alan E Jones MD; Courtney V Fletcher PharmD; Andrew M South MD MS; Thomas A Murray PhD; Christopher Lewandowski MD; Joseph Farhat MD; Justin L Benoit MD MS; Michelle H Birois MD MS; Kartik Cherabuddi MD; Jeffrey G Chipman MD; Timothy W Schacker MD; Faheem W Guirgis MD; Helen T Voelker BA; Joseph S Koopmeiners PhD; Christopher J Tignanelli MD MS; for the Angiotensin Receptor Blocker Based Lung

- Protective Strategies for Inpatients With COVID-19 (ALPS-IP) Investigators. Efficacy of Losartan in Hospitalized Patients With COVID-19–Induced Lung Injury: A Randomized Clinical Trial. *JAMA Netw Open*. 2022;5(3):e222735. doi:10.1001/jamanetworkopen.2022.2735.
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7. Transient Neurological Symptoms with MRI Evidence of Infarction in an Emergency Department Observation Unit (EDOU). Matthew S Siket, Brian Silver, Todd A Seigel, Gino Paolucci, John A Pezzullo III, Jeffrey Rogg, Frantz J Gibbs, **Lisa H Merck**. *Stroke*, February 2014, Vol 45, Suppl 1.
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Emergency Department Patients. **Lisa H Merck**, Laura Ward, Michael Holdsworth, Debra Houry Kimberly Applegate, Douglas Lowery-North, Katherine Heilpern. *Academic Emergency Medicine* [1069-6563] 2014 vol:21 iss:5 S1 pg:S192-S192.

9. Sex Differences in Clinical Presentation and Outcome: Patients Admitted to a Transient Ischemic Attack Emergency Department Observation Unit. Tracy E Madsen, **Lisa H Merck**, Matthew S Siket, Gino Paolucci, My T Tran, Brian Silver. *Stroke*, 2015; 46:ATP217.
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ABSTRACTS:

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4. 2010 Clinical Heterogeneity in the Treatment of Traumatic Brain Injury at Level I Trauma Centers. **Lisa H Merck MD, MPH**, Geoffrey T Manley MD, PhD, Harriet Howlett-Smith RN, CCRC, Anna Marie Calcaterra and David W Wright MD. Society for Academic Emergency Medicine - National Annual Meeting, May 2010, Phoenix, Arizona.
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6. 2012 Predictors of Positive Findings in Abdominal Computerized Tomography in the Emergency Department. **Lisa H Merck MD MPH**, Kate Heilpern MD, Debra Houry MD MPH, Michael Holdsworth MD, Laura A Ward MSPH, Kimberly Applegate MD MS, Douglas W Lowery-North MD MSPH. American College of Emergency Physicians, National Annual Meeting, October 2012, Denver, Colorado.
7. 2012 When Do We Order CT to Assess Abdominal and Pelvic Pain? A Predictive Model of Computerized Tomography Utilization in the Emergency Department. Michael Holdsworth MD, Laura A Ward MSPH, Douglas W Lowery-North MD MSPH, Kate Heilpern MD, Debra Houry MD MPH, Kimberly E Applegate MD MSPH, **Lisa H Merck MD MPH**. American College of Emergency Physicians, National Annual Meeting, October 2012, Denver, Colorado.
8. 2012 Informed Consent for Computerized Tomography via Video Educational Module in the Emergency Department. **Lisa H Merck MD MPH**, Michael Holdsworth BS BA, Joshua Keithley BS, Debra Houry MD MPH, Laura A Ward MSPH, Kimberly E Applegate MD MSPH, Douglas W Lowery-North MD MSPH, Kate Heilpern MD FACEP. Society for Academic Emergency Medicine National Annual Meeting, May 2012, Chicago, Illinois.
9. 2012 Electronic Medical Records and Compliance with Goal-Directed Therapy in Traumatic Brain Injury. Jordan P Kaylor MD, Leon L Haley MD MHSA, David W Wright MD, Samuel L Chang MD, **Lisa H Merck**. American College of Emergency Physicians, National Annual Meeting, October 2012, Denver, Colorado.
10. 2014 Transient Neurological Symptoms with MRI Evidence of Infarction in an Emergency Department Observation Unit (EDOU). Matthew S Siket, Brian Silver, Todd A Seigel, Gino Paolucci, John A Pezzullo III, Jeffrey Rogg, Frantz J Gibbs, **Lisa H Merck**. International Stroke Conference, February 2014, San Diego, California.
11. 2014 Implementation of a Magnetic Resonance Imaging Protocol for Patients with Transient Ischemic Attack in an Emergency Department Observation Unit. Matthew Siket, Todd Siegel, Gino Paolucci, **Lisa Merck**, Frantz Gibbs, John Pezzullo III, Jeffrey Rogg, Brian Silver. Society for Academic Emergency Medicine National Annual Meeting, May 2014, Dallas, Texas.

12. 2014 Written Informed Consent for Computerized Tomography Decreases CT Utilization in Low Risk Emergency Department Patients. **Lisa H Merck**, Laura Ward, Michael Holdsworth, Debra Houry, Kimberly Applegate, Douglas Lowery-North, Katherine Heilpern. Society for Academic Emergency Medicine National Annual Meeting, May 2014, Dallas, Texas.
13. 2014 Written Informed Consent for Computerized Tomography Decreases CT Utilization in Low-Risk Emergency Department Patients. **Lisa H Merck**, Laura Ward, Michael Holdsworth, Debra Houry, Kimberly Applegate, Douglas Lowery-North, Katherine Heilpern. New England, Society for Academic Emergency Medicine Regional Conference Yale University, March 2014, New Haven, Connecticut.
14. 2014 Implementation of a Magnetic Resonance Imaging Protocol for Patients with Transient Ischemic Attack in an Emergency Department Observation Unit. Matthew Siket, Todd Siegel, Gino Paolucci, **Lisa Merck**, Frantz Gibbs, John Pezullo III, Jeffrey Rogg, Brian Silver. Society for Academic Emergency Medicine Regional Conference Yale University, March 2014, New Haven, Connecticut.
15. 2015 Biomarkers of Injury and Outcome In Protect III (BIO-ProTECT). Michael Frankel, Sharon D. Yeatts, Liqiong Fan, Andreas Jeromin, Pieter E. Vos, Amy K. Wagner, Harriet Smith, Bethany Lane, Michael Lunney, Casey L Hall, **Lisa H Merck**, Yuko Y Palesch, Robert Silbergleit, David W Wright. Society for Academic Emergency Medicine, May 2015, San Diego, California.
16. 2015 The Diagnosis, Etiologic Classification, and Safe Discharge of Ischemic Strokes with Transient Symptoms from an Emergency Department Observation Unit. Matthew S Siket, Idara U Ndon, Janette R Baird, Tracy E Madsen, **Lisa H Merck**, Anthony M Napoli, Gino Paolucci, Todd A Seigel, Virginia M Tran, Brian Silver. International Stroke Conference, February 2015, Nashville, Tennessee.
17. 2015 Sex Differences in Clinical Presentation and Outcome: Patients Admitted to a Transient Ischemic Attack Emergency Department Observation Unit. Tracy E Madsen, **Lisa H Merck**, Matthew S Siket, Gino Paolucci, My T Tran, Brian Silver. International Stroke Conference, February 2015, Nashville, Tennessee.
18. 2015 Clinical Predictors of Stroke, TIA and Mimic among Patients with Transient Neurological Dysfunction Admitted to an Emergency Department Observation Unit. Matthew S Siket, Virginia M Tran, Janette R Baird, Tracy E Madsen, **Lisa H Merck**, Anthony M Napoli, Gino Paolucci, Todd A Seigel, Brian Silver. International Stroke Conference, February 2015, Nashville, Tennessee.
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21. 2016 **Lisa H Merck MD MPH**, David W Wright MD, Owen Leary, Michael P Lunney MPH NRP, Scott Collins RT(R)(CT), Jason Allen MD PhD, Sharon Yeatts PhD, Derek Merck PhD. Case Series: 3D Image Analysis in Traumatic Brain Injury. Radiologic Society of North America; December 2016, Chicago, IL.
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23. 2017 Tehnaz Boyle, Joseph Madsen, Mark Neuman, Mandeep Tamber, Robert W. Hickey, Gregory Heuer, Jeffrey Leonard, Julie C. Leonard, Robert Keating, James Chamberlain, David Frim, Paula Zakrzewski, Petra Klinge, **Lisa Merck**, Joseph Piatt, Jonathon Bennett, David Sandberg, Frederick Boop, Joseph Zorc. ShuntCheck versus Neuroimaging for Diagnosing Ventricular Shunt Malfunction in the Emergency Department. Pediatric Academic Societies meeting; May 2017, San Francisco, CA.
24. 2017 Owen Leary*, **Lisa H Merck MD MPH***, David W Wright MD, Maria Braileanu MD, Scott Collins RT(R)(CT), Jason W Allen MD PhD, Sharon Yeatts PhD, Derek Merck PhD. 3D Illustration to Quantify Volume of Traumatic Intraparenchymal Hemorrhage. *Lisa H Merck is supervising first author. World Intracranial Hemorrhage Conference; Baltimore Maryland, May 2017.
25. 2017 Kobayashi L, Collins S, **Merck LH**, Merck DL. Exploratory Applications of Augmented Reality for Patient Education in Emergency Medicine. Society for Academic Emergency Medicine, National Conference; Orlando, Florida, May 2017.
26. 2017 Derek Merck PhD, David W Wright MD, Owen Leary, Sean O'Donnell, Scott Moody, Maria Braileanu MD, Scott Collins RT(R)(CT), Jason W Allen MD PhD, Kurt R Denninghoff MD, Sharon Yeatts PhD, **Lisa H Merck MD MPH**. 3D Illustration Offers a More Precise Method to Quantify Bleed Volume after Traumatic Brain Injury when Compared to Standard Methods. Society for Academic Emergency Medicine, New England Research Directors Regional Conference; Worcester, MA. April 2017.
27. 2017 Kurt Denninghoff, Tomas Nuño, Qi Pauls, Sharon D Yeatts, Robert Silbergleit, Yuko Y Palesch, **Lisa H Merck**, Geoff Manley, and David W Wright. Pre-hospital intubation is associated with favorable outcomes and lower mortality in ProTECTIII Trial. Society for Academic Emergency Medicine, Western Regional Conference; Stanford, CA. April 2017.
28. 2017 Kurt Denninghoff, Tomas Nuño, Qi Pauls, Sharon D Yeatts, Robert Silbergleit, Yuko Y Palesch, **Lisa H Merck**, Geoff Manley, and David W Wright. Pre-hospital intubation is associated with favorable outcomes and lower mortality in ProTECTIII Trial. Society for Academic Emergency Medicine, National Conference; Orlando, Florida. May 2017.
29. 2017 Keshavamurthy, Krishna Nand, Owen Leary, **Lisa H Merck**, Benjamin Kimia, Scott Collins, David W Wright, Jason Allen, and Derek Merck. Machine Learning Algorithm for Automatic Detection of CT-Identifiable Hyperdense Lesions Associated with Traumatic Brain Injury. Poster presentation, Mind/Brain Research Day, Brown University, Providence, RI, March 2017.
30. 2017 Leary, Owen*, **Lisa Merck***, David Wright, Maria Braileanu, Scott Collins, Jason Allen,

Sharon Yeatts, and Derek Merck. 3D Illustration to Quantify Volume of Traumatic Intraparenchymal Hemorrhage. Poster presentation, Mind/Brain Research Day, Brown University, Providence, RI, March 2017. *supervising first author

31. 2017 Derek Merck PhD, David W Wright MD, Owen Leary, Maria Braileanu MD, Scott Collins RT(R)(CT), Jason W Allen MD PhD, Sharon D Yeatts PhD, **Lisa H Merck MD MPH**. 3D Illustration to Quantify Volume of Subdural and Epidural Hematomas. Neurocritical Care Society, International Conference: Kona, Hawaii, October 2017.
32. 2017 **Lisa H Merck MD MPH**, Sharon D Yeatts PhD, Geoff Manley MD PhD, Robert Silbergleit MD, Robin Conwit MD, Qi Pauls MS, Michael Frankel MD, Peter Le Roux MD, Yuko Palesch PhD, David W Wright MD. Goal Directed Therapy in the ProTECTIII Clinical Trial: The Effect of Physiologic Transgressions on Patient Mortality after Traumatic Brain Injury. Neurocritical Care Society, International Conference: Kona, Hawaii, October 2017
33. 2017 **Lisa H Merck MD MPH**, Sharon D Yeatts PhD, Geoff Manley MD PhD, Robert Silbergleit MD, Robin Conwit MD, Qi Pauls MS, Michael Frankel MD, Peter Le Roux MD, Yuko Palesch PhD, David W Wright MD. Goal Directed Therapy in the ProTECTIII Clinical Trial: The Effect of Physiologic Transgressions on Patient Functional Outcome after Traumatic Brain Injury. Neurocritical Care Society, International Conference: Kona, Hawaii, October 2017.
34. 2018 Owen P Leary, Sharon Yeatts, Casey Poore, David W Wright, Jason W Allen, Qi Pauls, **Lisa H Merck**. Progesterone Therapy & Clinical Outcomes in Diffuse Axonal Injury: A Retrospective Analysis of Data from the ProTECTIII Trial. NeuroTrauma, The 3rd Joint Symposium of the International and National Neurotrauma Societies and American Association of Neurological Surgery / Congress of Neurological Surgeons Section on Neurotrauma and Critical Care. Toronto, Canada, August 2018.
35. 2018 Tomas Nuño, PhD, Kurt Denninghoff, MD, **Lisa Merck, MD MPH**, Qi Pauls, MS, Sharon Yeatts, PhD, Yuko Palesch, PhD, Robert Silbergleit, MD, Geoffrey Manley, MD PhD, and David Wright, MD. Racial/ethnic minority participation in clinical research: Assessment of Exception from Informed Consent in ProTECT III. American Public Health Association, San Diego, CA, November 2018.
36. 2018 Ian Pan, Owen Leary, Stefan Jung, Krishna Nand Keshavamurthy, Jason Allen, David Wright, **Lisa H Merck**, and Derek Merck. Deep Learning for Automatic Detection and Segmentation of Acute Epidural and Subdural Hematomas in Head CT. Abstract / Research presentation, Radiological Association of North America (RSNA), Chicago, IL, November 2018.
37. 2019 The Relationship Between Magnitude of International Normalized Ratio and Outcome After Traumatic Brain Injury. Fiona Chen; Qi Pauls, MS; Sharon D Yeatts, PhD; David W Wright, MD; Rie Calcaterra; **Lisa H Merck, MD MPH**. Society for Academic Emergency Medicine, National Conference; Las Vegas, Nevada. May 2019.
38. 2019 The Relationship Between Magnitude of International Normalized Ratio and Outcome After Traumatic Brain Injury. Fiona Chen; Qi Pauls, MS; Sharon D Yeatts, PhD; David W Wright, MD; Rie Calcaterra; **Lisa H Merck, MD MPH**. New England Regional Meeting of the Society for Academic Emergency Medicine, Worcester, MA, 3/2019.
39. 2019 Efficacy of Computed Tomography Use in Assessing Traumatic Brain Injury in Adult and

- Pediatric Patients. Taneisha Wilson, **Lisa H Merck**, Marc Zonfrillo, John Movson, Derek Merck. New England Regional Meeting of the Society for Academic Emergency Medicine, Worcester, MA, 3/2019.
40. 2019 Volume of Subdural and Epidural Hematoma Measured by Computer-Assisted Estimation is More Predictive of Patient Mortality and Functional Disability than ABC/2. Owen P Leary, Tyler J Harder, Ian Pan, Derek Merck, David W Wright, **Lisa H Merck**. *Invitation to present at the National Neurotrauma Symposium / American Association of Neurological Surgery / Congress of Neurological Surgery Joint Section on Neurotrauma and Critical Care, Pittsburgh, PA 7/2019.*
41. 2019 The Relationship Between Magnitude of International Normalized Ratio and Outcome After Traumatic Brain Injury. Fiona Chen; Qi Pauls, MS; Sharon D Yeatts, PhD; David W Wright MD; Rie Calcaterra; **Lisa H Merck, MD MPH**. Brown Emergency Medicine Symposium, Providence, RI 5/2019.
42. 2019 Volume of Subdural Hematoma and Epidural Hematoma Measured by Computer-Assisted Estimation Is More Predictive of Mortality and Functional Disability than ABC/2. Owen P Leary, Tyler J Harder, Ian Pan, Derek Merck, David W Wright, **Lisa H Merck**. National Neurotrauma Society, Pittsburgh, PA. 2019 Trainee Competition Winner “Best Poster on Cranial Trauma” from the AANS/CNS Joint Section on Trauma and Critical Care.
43. 2019 Promotion of Gender and Under Represented Minority Inclusivity in Translational Research for Acute Neurological Disorders. Alexis N Simpkins, MD PhD, MSCR; **Lisa H Merck MD MPH FACEP** Katharina Busl MD MS; Carolina Maciel MD MSCR. Association of American Medical Colleges Annual Meeting Phoenix Arizona 9/2019.
44. 2020 A Comparative Study of 2D Image Segmentation Algorithms for Traumatic Brain Lesions Using CT Data from the ProTECTIII Multicenter Clinical Trial. Shruti Jadon BS, Owen P Leary ScB, Ian Pan MS, Tyler J Harder MS, David W Wright MD, **Lisa H Merck MD MPH**, Derek L Merck PhD. *Oral presentation*, The International Society for Optics and Photonics (SPIE), Houston, TX 2/2020.
45. 2020 T Yi, I Pan, F Chen, R Cueto, S Collins, J Smith, H Bai, D Merck, **L Merck**. Identification of Intracranial Hemorrhage Using an Original Artificial Intelligence System. New England Research Directors Regional Meeting 2020, Worcester, MA.
46. 2020 Leary O, Harder T, Liu D, Jung Stefan, Braileanu M, Allen J, Merck D, Wright D, **Merck L**: Outcome Prediction With Computer-Assisted Volumetry and ABC/2 in Traumatic Intra-Axial Hemorrhage. Presented as abstract no. 39 at the 2020 Society of Critical Care Medicine Critical Care Congress in Orlando, FL. Published: Crit Care Med 2020: 48(1): 20.
47. 2020 Harder T, Leary O, Liu D, Merck D, Wright D, **Merck L**: Patient-Specific Prognostication After TBI Is Related to Bleed Phenotype and Anatomic Location. Presented as abstract no. 40 at the 2020 Society of Critical Care Medicine Critical Care Congress in Orlando, FL. Published: Crit Care Med 2020: 48(1): 20.
48. 2021 Tyler J Harder, Owen P Leary, David Liu, Derek Merck, David W Wright, **Lisa H Merck**. Distinct Radiographic Phenotypes of Elevated Intracranial Pressure on Non-Contrast Head CT Predict Mortality and Functional Outcome in Moderate-to-Severe TBI North Central Florida Society for Neuroscience, Regional Meeting 2021, Gainesville FL.

49. 2021 Deployment of Novel SARS-CoV-2 Testing in First Responders, Front Line Providers, and Essential Personnel During the COVID-19 Pandemic. C Montero, M Balakrishnan, J Loeb, R. Cueto, MT Long, J Lednicky, DAT Cummings, J Morris, K Cherabuddi, A Tyndall, **LH Merck**. EPI Research Day, Virtual Conference, University of Florida.
50. 2021 Perception of access to personal protective equipment in first responders and essential workers across North Florida. J Antoine, A Zeinomar, M Beck, M Solly, C Montero, M Balakrishnan, M Chowdhury, K Cherabuddi, J Morris, A Tyndall, **LH Merck**. American Public Health Association, October, 2021 Denver CO.
51. 2021 Epidemiology of SARS-CoV-2 in First Responders and Essential Personnel across North Florida. M Balakrishnan, C Montero, J Loeb, M Chowdhury, M Solly, MT Long, L Bryan, J Lednicky, DAT Cummings, J Morris, K Cherabuddi, A Tyndall, **LH Merck**. American Public Health Association, October, 2021 Denver, CO.
52. 2022 Association of Craniotomy, Decompressive Hemicraniectomy, and External Ventricular Drain (EVD) Placement with Patient Mortality and 6-Month Functional Outcome Following Moderate to Severe TBI: Secondary Analysis of the ProTECTIII Dataset. Leary O, Harder T, Yang Z, Lucke-Wold B, Still M, Zhang M, Yeatts S, Wright D, Merck D, **Merck L**. June, 2022 Atlanta, GA, National Neurotrauma Society and AANS/CNS Joint Section on Neurotrauma and Critical Care.

SEMINARS & LECTURES:

International:

Journal Club, *Society for Critical Care Medicine*. **Lisa H Merck MD MPH FACEP**, discussed “The Effect of Goal Directed Therapy on Patient Morbidity and Mortality after Traumatic Brain Injury, Results from the ProTECTIII Clinical Trial,” with Tamas Szakmany MD PhD EDIC DESA, moderator. *Critical Care Medicine Webinar 5/23/2019*.

National:

1. 2011 Decompressive Craniectomy in Diffuse Traumatic Brain Injury. Neurological Emergencies Treatment Trial Network, National Tele-conference/Journal Club.
2. 2014 Gender Differences in Neurological Emergencies: A Consensus Summary and Research Agenda on Traumatic Brain Injury. Gender-Specific Research in Emergency Care: Investigate, Understand, and Translate How Gender Affects Patient Outcomes. Society for Academic Emergency Medicine, National Consensus Conference, May 2015, Dallas, Texas, Lisa H Merck MD MPH and NETT investigators.
3. 2014 Cognitive Function and Traumatic Brain Injury. Neurological Emergencies Treatment Trial Network, Journal Club, national tele-conference.
4. 2014 Progesterone in the Treatment of Acute Traumatic Brain Injury. David W Wright, MD, Sharon D Yeatts, PhD, Robert Silbergleit, MD, Yuko Y Palesch, PhD, Vicki S Hertzberg, PhD, Michael Frankel, MD, Harriet Howlett-Smith, RN, Erin M Bengelink, MA, Geoff Manley, MD, PhD, Lisa H Merck, MD MPH, Scott Janis, PhD, William Barsan, MD. Results of the ProTECTIII

clinical trial, presented at the Neurocritical Care Society National Conference, September 2014, Seattle, WA

5. 2015 Automated Ventricular Analysis. American Academy of Neurology-National Institute for Neurological Disorders and Stroke. Clinical Trials Methodology Cohort, April 2015, Washington DC.
6. 2015 The STITCH (TRAUMA) trial - Surgery for Traumatic Intracranial Hemorrhage. Neurological Emergencies Treatment Trial Network, Journal Club, national tele-conference, September 2015.
7. 2018 University of Florida, Department of Emergency Medicine Grand Rounds. Traumatic Brain Injury: Special Considerations in Clinical Research. Sept. 13th, 2018. The Shands Auxillary Conference Center, University of Florida, Gainesville, Florida.
8. 2019 Clearing Up the Confusion: Emergency Department Management of Glasgow Coma Score 15 Brain Bleeds. Invited Didactic Session, Society for Academic Emergency Medicine; May 17, 2019, Las Vegas, Nevada.
9. 2019 Brain Oxygen Optimization in Severe TBI, Phase 3 Clinical Standardization Team Training for the SIREN Network. Lisa H Merck MD MPH and Lori Shutter MD FNCs FCCM for the BOOST3 CST, March 20, 2019, Atlanta, GA.
10. 2019 Looking into the Future: Unanswered Questions for Future Research and Collaboration. June 11, 2019. Neurotherapeutics Symposium, University of Rochester, Rochester, NY
11. 2019 Young Investigator Session, Facilitator. Neurotherapeutics Symposium, University of Rochester, Rochester, NY. June 11, 2019.
12. 2020 Clinical Imaging and Data Research Repository (CIDRR) consortium meeting. University of Florida, 1, 2020. Gainesville, Florida.
13. 2021 Special Considerations in Traumatic Brain Injury. Grand Rounds, Virginia Commonwealth University, Richmond, VA. October 10, 2021.
14. 2023 Seminar Director and Faculty, NIH SIREN Research Fellow Didactic National Lecture Series (monthly occurrence)
15. 2023 CFR 50.24 Exception from Informed Consent, lecture to the NIH SIREN Research Fellow Didactic National Lecture Series

Regional:

1. 2009 Traumatic Brain Injury, An Overview. Lecture, Georgia College of Emergency Physicians, Regional Annual Meeting, June 2009, Hilton Head, South Carolina.
2. 2010 Clinical Heterogeneity in the Treatment of Traumatic Brain Injury at Level I Trauma Centers. Plenary Session, Southeastern Society for Academic Emergency Medicine, Feb 2010, Birmingham, Alabama.
3. 2020 T Yi, I Pan, F Chen, R Cueto, S Collins, J Smith, H Bai, D Merck, **L Merck**. Identification of

Intracranial Hemorrhage Using an Original Artificial Intelligence System. New England Research Directors Regional Meeting 2020, Worcester, MA.

4. 2020 Florida Medical School Virtual Research Symposium. Epidemiology of COVID-19 in First Responders & Front-Line Providers. **Lisa H Merck MD MPH**, J Glenn Morris MD MPH & TM, Derek Merck PhD, Julia Gibson BS, Cindy Montero MS, John Lednický PhD, Maha El Badry PhD, Tara Sabo-Attwood PhD, Joseph H Bisesi PhD, Anthony T Maurelli PhD, Christopher P Barnes AA, Philip Chase BSME, Kevin S Hanson MD, Nicole Iovine MD PhD, Kartik Cherabuddi MD, Adrian Tyndall MD MPH. 6/10/20, Virtual Symposium.
5. 2023 TBI Management and the BOOST3 Clinical Trial (NALS/Trauma), EMS Continuing Education Virtual Instructor Lead Training, State of Virginia

Local:

1. 2000 Chiari malformation. Neurological Surgery Conference, Oregon Health and Sciences University, Portland, Oregon.
2. 2001 Chiari malformation. Neurological Surgery Conference, University of Chicago, Chicago, Illinois.
3. 2002 Compliance with Asthma Protocols in an Urban Emergency Department. Thesis Defense, Oregon Health Sciences University, Portland, Oregon.
4. 2004 Spinal Injury. Neurological Surgery Resident Lecture, Duke University Medical Center, Durham, North Carolina.
5. 2006 Approach to Lumbar Puncture. Lecture for Medical Students in Emergency Medicine, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.
6. 2006 Approach to Central Line Placement. Lecture/Laboratory for Medical Students in Emergency Medicine, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.
7. 2006 Management of Stroke. Medical Student Teaching Lecture, Department of Emergency Medicine, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.
8. 2006 Perinatal Seizure. Joint Pediatric Intensive Care and Emergency Medicine Conference, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.
9. 2006 Diagnosis and Initial Management of Traumatic Spinal Injury. Emergency Medicine Resident Lecture, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.
10. 2007 Steroid Therapy in Spinal Cord Injury. Joint Emergency Department and Trauma Surgery Conference. University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.
11. 2007 Ectopic Pregnancy. Joint Obstetrics and Emergency Medicine Conference. University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.
12. 2007 Wound Management. Medical Student Lecture/Laboratory, Department of Emergency Medicine, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

13. 2007 Trauma in the Emergency Department. Lecture for Medical Students in Emergency Medicine, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.
14. 2007 The Interpretation of Chest Radiographs. Lecture for Medical Students in Emergency Medicine, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.
15. 2008 Neurovascular Emergencies. Emergency Medicine Department, Grand Rounds Lecture. University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.
16. 2010 Neurological Exam and Signs of Increased Intracranial Pressure in Adults and Children. Emergency Medicine Resident Lecture, Emory University, Atlanta, Georgia.
17. 2010 Neuroradiology for the Emergency Physician. Emergency Medicine Resident Lecture, Emory University, Atlanta, Georgia.
18. 2010 Anatomy of the Spine, Anatomy of Spine Trauma, and Steroids in Spinal Cord Injury. Emergency Medicine Resident Lecture, Emory University, Atlanta, Georgia.
19. 2010 Narrative and Reflection in Clinical Medicine. Emergency Medicine Resident Lecture and Small Group Conference, Emory University, Atlanta, Georgia.
20. 2010 Clinical Heterogeneity in the Treatment of Traumatic Brain Injury at Level I Trauma Centers. Emergency Medicine Resident Lecture, Emory University, Atlanta, Georgia.
21. 2011 Introduction to Neurological Emergencies, Increased Intracranial Pressure, and Neuroradiology in Adults and Children. Emergency Medicine Resident Lecture, Emory University, Atlanta, Georgia.
22. 2011 Informed Consent for Computerized Tomography. Abstract presentation, Emory Health Care Quality Conference, Emory University, Atlanta, Georgia.
23. 2011 Treatment of Neurological Emergencies. Emergency Department Nursing Seminar, Grady Memorial Hospital, Atlanta Georgia.
24. 2012 Introduction to Neurological Emergencies, Increased Intracranial Pressure, and Neuroradiology in Adults and Children. Emergency Medicine Resident Lecture, Brown University, Providence, Rhode Island.
25. 2013 Goal Directed Therapy for Traumatic Brain Injury. Neurosurgery Resident Lecture, Brown University, Providence, Rhode Island.
26. 2013 Goal Directed Therapy and Exception from Informed Consent in the ProTECTIII Trial. Emergency Medicine Resident Lecture, Brown University, Providence, Rhode Island.
27. 2013 Neurointensive Care and Goal Directed Therapy in Traumatic Brain Injury and the ProTECTIII Clinical Trial. Neurocritical Care Nursing / Midlevel Provider lecture at Rhode Island Hospital.
28. 2013 Goal Directed Therapy in Traumatic Brain Injury, Polytrauma, and the ProTECTIII Clinical Trial. Critical Care Nursing lecture in Trauma ICU at Rhode Island Hospital.

29. 2014 Exception From Informed Consent, 21CFR50.24 - Responsible Conduct of Research Lecture, Department of Emergency Medicine, Brown University, Providence, Rhode Island.
30. 2015 Exception From Informed Consent, 21CFR50.24, and the ESETT Clinical Trial - Responsible Conduct of Research Lecture, Department of Emergency Medicine Brown University, Providence, Rhode Island.
31. 2015 Asselin N, Choi B, Pettit CC, Dannecker M, Jones MS, **Merck L**, Suner S, Williams K, Jay GD, Kobayashi L. Interim results of pre-hospital provider workload assessment during simulation testing of experimental device-assisted cardiac arrest resuscitation. Lifespan Research Celebration, Providence, Rhode Island.
32. 2016 Understanding Research Relationships. Responsible Conduct of Research Lecture, Department of Emergency Medicine Brown University, September 2016, Providence, Rhode Island.
33. 2016 The Identification and Treatment of Increased Intracranial Pressure in Adults and Children. Educational Lecture, Department of Emergency Medicine Brown University, May 2016. Providence, Rhode Island.
34. 2017 Conducting Research. **Merck L** and Jay G. Research Education Lecture Series, Department of Emergency Medicine Brown University, Providence, Rhode Island.
35. 2017 Traumatic Brain Injury, Epidemiology and Advances in Clinical Care. Neuroscience Graduate Program in House Seminar, Brown University, Providence, Rhode Island.
36. 2018 Research in Emergency Medicine. Emergency Medicine Resident Lecture and Panel Discussion. Brown University, Providence, Rhode Island.
37. 2018 History and Ethics of Informed Consent and Exception From Informed Consent in Emergency Research, Department of Engineering. Engineering 2910G - Translational Engineering and Entrepreneurship. Brown University, Providence, Rhode Island.
38. 2018 Conducting Research. **Merck L** and Jay G. Research Curriculum Course, for graduate medical education fellow with Brown University, Department of Emergency Medicine Brown University, Providence, Rhode Island.
39. 2018 Traumatic Brain Injury: Special Considerations in Clinical Research. Resident education lecture, Department of Emergency Medicine Brown University, Providence, Rhode Island.
40. 2019 Exception from Informed Consent, Special Considerations in Emergency Research. University of Florida Institutional Review Board, Annual Retreat, Gainesville, Florida.
41. 2020 SIREN Steering Committee Annual Meeting, Electronic Data Capture Working Group Summary. Clearwater, Florida.
42. 2020 Influence of cooling duration on efficacy in cardiac arrest patients (ICECAP), Investigator Meeting. Ancillary Study Presentation: Clinical Imaging and Data Research Repository (CIDRR), Clearwater, Florida.
43. 2020 Traumatic Brain Injury: Special Considerations in Clinical Research. Resident education lecture. Department of Emergency Medicine University of Florida at Gainesville.

44. 2020 Seminar, Clinical and Translational Science Institute: Translational Science of COVID-19: Epidemiology of COVID-19 in First Responders and Frontline Providers. University of Florida, Gainesville.
45. 2021 Special Considerations in Acute Traumatic Brain Injury Research, Lisa Merck, Christopher Robinson, Carolina Maciel. The University of Florida Brain Center, Brain Building Lecture Series, University of Florida, Gainesville.
46. 2022 Research Introduction, Emergency Medicine Residency Lecture, Virginia Commonwealth University, Richmond, VA.
47. 2022 Informed Consent in Emergency Clinical Research, VCU Human Research Protection Program, Virginia Commonwealth University, Richmond, VA.
48. 2022 All Fellows Education Series, Speaker Panel: The Science and Art of Promotion in Academics. VCU Health Systems, Virginia Commonwealth University, Richmond, VA
49. 2023 Exception from Informed Consent, CFR50.24, Emergency Medicine Resident Conference, Virginia Commonwealth University, Richmond, VA
50. 2023 Traumatic Brain Injury, Emergency Medicine Resident Conference, Virginia Commonwealth University, Richmond, VA
51. 2023 The BOOST3 Clinical Trial, Surgical Trauma Attending Conference, Virginia Commonwealth University, Richmond, VA
52. 2023 Acute Care Clinical Trial Execution, TBI, CCTR801 Clinical Practicum Lecture, Virginia Commonwealth University, Richmond, VA

Seminar Director:

- 2023 - National, Seminar Director and Faculty, NIH SIREN Research Fellow Didactic Monthly Lecture Series, “*Siren calls*”.
- 2023 - Local, Emergency Medicine Resident Conference, *Research Incubator*, monthly lecture and conference series, Virginia Commonwealth University, Richmond, VA

FORMAL TEACHING (GRADUATE MEDICAL EDUCATION & MEDICAL SCHOOL):

- 2022- current Professor of Emergency Medicine
Core Faculty, Department of Emergency Medicine Residency
Vice Chair of Research, Department of Emergency Medicine
Assistant Dean, Acute Care Research & Clinical Trials, College of Medicine
Medical Director, Acute Clinical Research, Virginia Commonwealth University Health Systems
- 2019 – 2022 Associate Professor of Emergency Medicine
Affiliate Associate Professor of Neurology | Neurocritical Care
Affiliate Associate Professor of Health Outcomes and Biomedical Informatics
University of Florida at Gainesville, College of Medicine

- 2019 – current Adjunct Associate Professor of Neurosurgery
Alpert Medical School, Brown University, Providence, RI
- 2023 – current Lead faculty/Director: Research, Education, and Mentorship cycle (the *REM* cycle). The *REM* cycle is a collaboration between trainees / principal investigators to facilitate cross-campus research and mentorship. Weekly didactic and project driven meetings are inclusive of participants from undergraduate, graduate, and medical school campuses.
- 2023 – current Seminar Director and Faculty: SIREN Calls – a national monthly didactic series for early-stage investigators, fellows, and collaborators within the U01 SIREN clinical trial network (NIH Network for Emergency Care Clinical Trials: Strategies to Innovate EmeRgENcy Care Clinical Trials Network).
- 2023 – current Lecturer, *Research Incubator*. Monthly emergency medicine resident, fellow, and medical student didactic series in research education, VCU, Richmond, VA
- 2022 – current Faculty, Senior Emergency Medicine Clerkship, MEDI-42004, Emergency Medicine – AI, Department of Emergency Medicine, VCU, Richmond, VA
- 2023 – current Faculty Mentor, Honors Summer Undergraduate Research Program, Wright Center for Clinical and Translational Research, VCU, Richmond, VA
- 2019 – 2021 Adjunct Associate Professor of Emergency Medicine, Neurosurgery, and Diagnostic Imaging Alpert Medical School, Brown University, Providence, RI
- 2019 - 2022 Faculty, Senior Emergency Medicine Clerkship MDC7710
University of Florida College of Medicine, Gainesville, FL
- Class section: 345G
Class section: 3472
Class section: 347D
Class section: 347H
- 2018 – 2019 Associate Professor of Emergency Medicine, Neurosurgery, and Diagnostic Imaging Alpert Medical School, Brown University, Providence, RI
- 2017 – 2018 Assistant Professor of Emergency Medicine, Neurosurgery, and Diagnostic Imaging Alpert Medical School, Brown University, Providence, RI
- 2016 – 2019 Director, Translational Research in Medicine, Scholarly Concentration Alpert Medical School of Brown University, Providence, RI
- 2018 – 2019 Clinical Instructor, Med Ed BIOL3640 and Med Ed BIOL3650 Doctoring Course, Preclinical program designed to combine instruction and assessment in both clinical skills and professional development.
Alpert Medical School of Brown University, Providence, RI
- 2012 – 2017 Assistant Professor of Emergency Medicine and Diagnostic Imaging Alpert Medical School, Brown University, Providence, RI

2017	Instructor, Lifespan Medical Simulation Center, Code / Cardiopulmonary Arrest Response Training. Alpert Medical School of Brown University, Providence, RI
2015	Instructor, Clinical Skills Doctoring Course, Clinical Skills Assessment, Lumbar Puncture Session. Alpert Medical School of Brown University, Providence, RI
2014	Instructor, Medical Student Suturing Laboratory. Alpert Medical School of Brown University, Providence, RI
2014	Oral Board Examiner, Resident Physician Oral Board Exams. Alpert Medical School of Brown University, Providence, RI
2013	Oral Board Examiner, Resident Physician Oral Board Exams. Alpert Medical School of Brown University, Providence, RI
2010 – 2011	Instructor, Safe a Life and Protect Your Own Emory University School of Medicine, Atlanta, Georgia
2009	Instructor, Resident Airway Course, Emergency Medicine Residency Emory University School of Medicine, Atlanta, Georgia
2009 – 2012	Instructor, Procedural Skills in Emergency Medicine Emory University School of Medicine, Atlanta, Georgia

Academic Mentees:

2023 – current	Michael Joyce MD, Associate Professor of Emergency Medicine, Virginia Commonwealth University. SIREN Fellow, NIH Clinical Trial Execution in ICECAP, BOOST3, and DoD sponsored BioBOOST.
2023 – current	Megan Donahue MD MPH, Assistant Professor of Emergency Medicine, Virginia Commonwealth University. SIREN Fellow, NIH Clinical Trial Execution in ICECAP, POSTICECAP, & BOOST3.
2022 – current	Stephanie DeMasi MD, Assistant Professor of Emergency Medicine, Critical Care Fellow, Virginia Commonwealth University; NIH Clinical Trial Execution in ICECAP & BOOST3. <u>2023</u> : Emergency Medicine Faculty, Vanderbilt University. <ul style="list-style-type: none"> ▪ T32 NIH NIGMS: Investigation of the Ideal Neuromuscular Blocking Agent for Rapid Sequence Intubation.
2022 – current	Ridina Lilova MS2, VCU MD PhD Trainee, Medical Scientist Training Program, Mentorship in clinical trial design, execution, and research ethics (CFR 50.24 EFIC).
2022 – current	Naomi Carter MS1, VCU MD PhD Trainee, Medical Scientist Training Program, Mentorship in clinical trial design, execution, and research ethics (CFR 50.24 EFIC).

- 2022 – current Noah Hillerbrand MD Emergency Medicine Resident, PGY1, VCU Resident Trainee, Mentorship in clinical trial design, execution, and research ethics (CFR 50.24 EFIC).
- 2018 – 2021 Fiona Chen MD Medical School: Brown University, Providence, RI MD ‘21
Translational Research in Clinical Medicine Scholarly Concentration, Mentee 2018-2021
Emergency Medicine Residency: Emergency Medicine, UCSF
- 2018 T35 HL094308 NIH National Heart, Lung, Blood Institute.
Project: Identifying Radiographic Biomarkers for the Prognostication of Traumatic Brain Injury.
 - 2019 1st place: Brown Emergency Medicine Research Symposium. The Relationship Between Magnitude of International Normalized Ratio and Outcome after Traumatic Brain Injury.
 - 2021 Dr Alexander Greene Medical Student of the Year Award: Emergency Medicine Resident Association, SAEM.
- 2018 – current Tyler Harder MS; MD, Harvard Affiliated Emergency Medicine Residency at Beth Israel Deaconess Medical Center, Boston, MA (*current*).
Clinical Research Mentee, 2018-current
Research Assistant, 2018 - 2019
Medical School: Alpert Medical School of Brown University, Providence, RI ‘23
Translational Research in Clinical Medicine Scholarly Concentration:
- 2020 Research Award: Critical Care Congress, Society of Critical Care Medicine, Orlando, FL 2/2020: Patient-Specific Prognostication After TBI Is Related to Bleed Phenotype and Anatomic Location.
- 2015 – current Owen Leary BS; MD PhD candidate ‘28
Program for Liberal Medical Education, Brown University, Providence, RI
Medical School: Warren Alpert Medical School of Brown University, Providence, RI
Translational Research in Clinical Medicine Scholarly Concentration:
- 2020 Research Award: Critical Care Congress, Society of Critical Care Medicine, Orlando, FL 2/2020: Outcome Prediction with Computer-Assisted Volumetry and ABC/2 in Traumatic Intra-Axial Hemorrhage.
 - 2019 First Place, Trainee Competition Winner Best Poster on Cranial Trauma
AANS/CNS Joint Section on Trauma and Critical Care: Volume of SDH & EDH Measured by Computer-Assisted Estimation Is More Predictive of Mortality and Functional Disability than ABC/2, National Neurotrauma Society, Pittsburgh, PA.
- 2020 – 2022 Carolina B. Maciel MD MSCR, Assistant Professor of Neurology and Neurosurgery, University of Florida at Gainesville.
- American Heart Association Innovative Project Award, 11/2020, VIGAB STAT Feasibility of delivering vigabatrin (VGB) within 48 hours of onset of post-anoxic status epilepticus due to cardiac arrest.
 - NINDS R25, Clinical Trials Methodology Course Cohort, University of Michigan, 2021. VIGAB STAT Phase IIb planning
- 2021– 2022 Torben Becker MD PhD, Assistant Professor of Emergency Medicine and Critical Care Medicine, University of Florida at Gainesville.

- SAEM Foundation/Global EM Academy Research Pilot Grant Award, Increasing Access to Pre-Emergency Care and Treatment in Ghana.

- 2018 – 2019 Ian Pan, MD
Medical School: Alpert Medical School of Brown University, Providence, RI '20
Residency: Diagnostic Imaging Brigham and Women's Hospital, Boston, MA
Translational Research in Clinical Medicine Scholarly Concentration Mentee:
 Advanced Image Analysis in Traumatic Brain Injury and Stroke. Artificial Intelligence in Medicine.
- 2018 RSNA Trainee Research Prize: Radiologic Society of North America for abstract, Predicting Thyroid Nodule Malignancy with Efficient Convolutional Neural Networks.
 - 2018 1st Place, RSNA Pneumonia Detection Challenge: Drs Ian Pan and Cadrin-Chenevert placed #1 (out of 1,400 submissions from 85 countries).
- 2019 – 2021 Robert Cueto, MD candidate '25
Research Assistant Mentee 2019 - 2021
Medical school matriculation, 2021, University of Florida, Gainesville, FL
- 2020 – 2021 Miranda Solly MD
Medical School: University of Florida at Gainesville.
 Research in: COVID 19 Epidemiology in First Responders and Front-Line Providers.
- 2013 – 2018 Jena Lerch BSN, PhD
Research Assistant Mentee, Brown University (2013 – 2018)
BSN, Rhode Island College, 2018
Doctor of Nursing Practice, Florida International University, 2022
- 2015 – 2016 Erin O'Donnell PA
Research Assistant Mentee, Brown University (2015-2016).
Physician's Assistant, University of Saint Joseph, West Hartford, CT (2019).
Hasbro Pediatric Emergency Medicine PA Program, Providence, RI
- 2014 – 2019 Madeline Cosgriff
Research Intern, Assistant, & Mentee, Brown University, Providence, RI
Project: AI in Pediatric Hydrocephalus. Alpert Medical School of Brown University, Providence, RI
- 2014 – 2015 Michael Lunney MPH
Graduate Student, Georgia State University, Athens, GA
Project: Master of Public Health, Concentration in Health Management and Policy.
Thesis: Effect of progesterone administration in traumatic subarachnoid hemorrhage. Atlanta, GA
- 2013 – 2015 My (Virginia) Tran MD
Research Assistant Mentee, Brown University
Medical School, Harvard Medical School, Boston, MA.
Residency Match: Emergency Medicine Highland Hospital, CA

- 2011 – 2012 Michael Holdsworth MD
Medical Student mentee, Emory University
Project: Use of Informed Consent for Computerized Tomography, Emory University School of Medicine, Atlanta, Georgia.
Residency Match: Emergency Medicine/Pediatric Emergency Medicine – University of Maryland Medical Center, Baltimore, MD
- 2011 – 2012 Jordan Kaylor MD
Medical Student mentee, Emory University
Project: The Effect of Electronic Charting and Physiologic Monitoring on Treatment of Traumatic Brain Injury in an Urban Emergency Department, Emory University School of Medicine, Atlanta, Georgia.
Residency Match: Emergency Medicine – Northwestern Memorial Hospital, Chicago, Illinois
- 2011 – 2012 Joshua Keithley MD
Medical Student mentee, Emory University
Project: Use of a Video Educational Module as an Adjunct to Written Informed Consent for Computerized Tomography, Emory University School of Medicine, Atlanta, Georgia.
Residency Match: Emergency Medicine – John Peter Smith Hospital, Fort Worth, TX
- 2010 – 2011 Margaret Gipson MD
Medical Student mentee, Emory University
Project: Informed Consent for Computerized Tomography, Emory University School of Medicine, Atlanta, Georgia.
Residency Match: Emergency Medicine – Carolinas Medical Center, Charlotte, NC
- 2010 – 2011 Samuel Chang MD
Medical Student mentee, Emory University
Project: Goal Directed Therapy for Traumatic Brain Injury, Emory University School of Medicine, Atlanta, Georgia.
Residency Match: Emergency Medicine – Carolinas Medical Center, Charlotte, NC
- 2009 – 2012 Heather Gunn MD
 Emergency Medicine Resident, Emory University School of Medicine, Atlanta, Georgia

REM Cycle Student Mentees:

- 2023 – current
- Michael Keller (VCU SOM Class of 2027)
 - Dylan Kelley (VCU SOM Class of 2027)
 - Nikhil Chandravel (VCU SOM Class of 2027)
 - Joanna Le Gallouder (VCU SOM Class of 2027)
 - Sebastian Gutierrez (VCU SOM Class of 2027)
 - Nancy Beinlich (VCU SOM Class of 2027)
 - Radina Lilova (VCU SOM MD/PhD Candidate)
 - Naomi Carter (VCU SOM MD/PhD Candidate)
 - Sreedhatri Kandlakunta (VCU Class of 2023)

Certification:

2010 -	Active Board Certification	American Board of Emergency Medicine
2022 -	Active License	Virginia Board of Medicine
2019 -	Active License	Florida Medical Board
2007 -	Active License	North Carolina Medical Board
2008 -	Active License	Georgia Medical Board
2012 - 2020	License	Rhode Island Medical Board
2002	USMLE Step II	Passed
2000	USMLE Step I	Passed
NIH Stroke Scale (NIHSS)		Certification
ABCD2 Training		Certification
Modified Rankin Scale (mRS)		Certification
BLS/ACLS/ATLS/PALS/NALS		Certification

Community Work and Public Service Education:

2023	Volunteer, Habitat for Humanity, Richmond, VA
2023	Panelist - Ethics. The Maggie L. Walker Governor's School for Government and International Studies, Honor Council - Richmond, VA
2023	WBTK, Spanish Radio interview Richmond, VA, Mount Rich Media, LLC; Traumatic Brain Injury research in Virginia, The BOOST3 clinical trial at VCU Health System.
2020 – 2022	Elected to serve on the School Advisory Council, Alachua County School District, FL
4/2020	Channel NBC Television Interview COVID-19 Testing initiative for first responders and emergency department employees in North Central Florida
4/2020	Channel ABC Television Interview COVID-19 Testing initiative for first responders and emergency department employees in North Central Florida
4/2020	NPR Radio interview Emergency Medicine COVID Response, and importance of personal protective equipment
12/20/19	NewsRadio WIOD - Radio interview Miami's News, Traffic, and Weather Station Traumatic Brain Injury research in Florida, The BOOST3 clinical trial at Shands Hospital.
2012 – 2015	Town Council: Environmental Conservation Commission, Barrington, RI
12/2015	Providence en Espanol News Article: Exception from Informed Consent and ESETT Rhode Island Hospital y Hasbro Children's Hospital participarán en un ensayo investigativo sobre medicinas anticonvulsivas administradas en salas de emergencia
11/2015	Newport Daily News

Clinical Trial Public Service Announcement Exception from Informed Consent and the ESETT clinical trial

- 11/2015 Rhode Island Medical Journal, Public Service Announcement
Exception from Informed Consent and the ESETT Clinical Trial
- 11/2015 The Independent, Public Service Announcement
Exception from Informed Consent and the ESETT Clinical Trial
- 7/2013 Latino Public Radio, Interview
Traumatic Brain Injury and Exception from Informed Consent
http://www.lprri.org/inicio/index.php?categoryid=65&p2_articleid=23534
- 8/2013 Exception from Informed Consent and Research in Traumatic Brain Injury. Conference
with Brain Trauma Survivors, Neurorestorative Care, Charlestown, RI
- 8/2013 Providence Journal Newspaper Interview
Traumatic Brain Injury and Exception from Informed Consent Research
- 8/2013 Channel 10 News, Interview
Traumatic Brain Injury and Exception from Informed Consent Research
- 7/2013 Rhode Island Medical Journal
The ProTECTIII Clinical Trial
<https://www.rimed.org/rimedicaljournal/2013-07/2013-07-55-news-briefs.pdf>

INDUSTRY CONSULTANT:

- 2018 – 2019 Shire Development LLC, EFIC design of clinical trials
- 2021 – 2023 Novartis, TBI Expert Panel
- 2021 – Gryphon Bio Inc, Medical Consultant in Clinical Trial Design

MEMBERSHIP IN SOCIETIES:

- 2021 – Society for Clinical Trials
- 2020 – Society for Critical Care Medicine
- 2013 – Neurocritical Care Society
- 2013 – National Neurotrauma Society
- 2013 – Society for Neurotrauma, Women in Neurotrauma Research
- 2012 – Academy of Women in Academic Emergency Medicine
- 2011 – Image Gently, The Alliance for Radiation Safety in Pediatric Imaging
- 2008 – American College of Emergency Physicians
- 2008 – Society for Academic Emergency Medicine