

**LISA H. MERCK MD MPH MA FACEP**

University of Florida | College of Medicine

Department of Emergency Medicine

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**RESEARCH FOCUS and SPECIALIZATION:**

- Collaborative Clinical Trials in Acute Care Research
- Critical Care in the Emergency Department
- Pediatric and Adult Neurological Emergencies
- Radiology Utilization and Safety in the Emergency Department
- Epidemiology and Health Policy
- Emerging Pathogens
- Fundamentals of Informed Consent
- Applications of Artificial Intelligence in the Execution of Clinical Trials

**EDUCATION:**

Undergraduate	Reed College, Portland, OR (1991-1995) Bachelor of Arts, Psychology, 1995
Medical School	The Chicago Medical School, North Chicago, IL (1998-2002) Medical Doctor, 2002
Masters of Public Health	Oregon Health and Sciences University, Portland, Oregon (1997-2002) Masters of Public Health, Epidemiology and Biostatistics, 2002
Master of the Arts	Brown University, Providence, RI (2019) Master of Arts, ad eundem (upon academic promotion)

**COMPLETED POSTGRADUATE TRAINING:**

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:**

2021	Elected by the Society for Academic Emergency Medicine to serve as a liaison to the NIH Center for Scientific Review.
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- 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 Recipient, *Certificate of Outstanding Contribution in Reviewing*, American Journal of Emergency Medicine, in recognition of the contributions made to the quality of the journal.
- 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 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.
- 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 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.
- 2015 Recipient, *Translational Impact Award*, Department of Emergency Medicine, The 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 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 work on Informed Consent for Computerized Tomography

- 2011 Recipient, *Clinical and Translational Science Award*, 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, educational stipend - *General Surgery/Transplant Surgery Education Fund*, 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
- 2000 National Award Winner, United States Achievement Academy, *Honors for clinical performance*

### **PROFESSIONAL LICENSES & BOARD CERTIFICATION:**

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|------------------------|--------------------------------------|
| 2010 – Active License: | American Board of Emergency 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           |

### **ACADEMIC APPOINTMENTS & LEADERSHIP ROLES:**

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| Associate Professor, Department of Emergency Medicine                                      | 2019 – current |
| Affiliate Associate Professor, Department of Health Outcomes and Biomedical Information    |                |
| Affiliate Associate Professor, Department of Neurology, Division of Neurocritical Care     |                |
| University of Florida, College of Medicine, Gainesville, FL                                |                |
| Director, Clinical Trials Collaborative  | 2021 – current |
| University of Florida, College of Medicine, Gainesville, FL                                |                |
| Vice Chair of Emergency Medicine Research  | 2019 – 2021    |
| University of Florida, College of Medicine, Gainesville, FL                                |                |
| Adjunct Associate Professor of Emergency Medicine,<br>Diagnostic Imaging, and Neurosurgery | 2019 – current |
| Alpert Medical School of Brown University, Providence, RI                                  |                |
| Associate Professor of Emergency Medicine,<br>Diagnostic Imaging, and Neurosurgery         | 2018 – 2019    |
| Alpert Medical School of Brown University, Providence, RI                                  |                |
| Director, Scholarly Concentration, Translational   | 2016 – 2019    |

## Research in Medicine, Brown University

Director, Division of Emergency Neurosciences and  
Critical Care Research 2016 – 2019  
Department of Emergency Medicine, Brown University

Director, Neurological Emergencies Research Program 2013 – 2015  
Department of Emergency Medicine, Brown University

Adjunct Associate Professor of Medicine 2017 – current  
Division of Clinical Care Research Institute for Clinical Research  
and Health Policy Studies  
Scholar, Tufts Clinical and Translational Science Institute  
Tufts University School of Medicine, Boston, MA

Assistant Professor of Emergency Medicine, Diagnostic Imaging, and 2017 – 2018  
Neurosurgery, Alpert Medical School of Brown University, Providence, RI

Assistant Professor of Emergency Medicine and Diagnostic Imaging, 2012 – 2017  
Alpert Medical School of Brown University, Providence, RI

Assistant Professor of Emergency Medicine 2008 – 2012  
Core Faculty, Division of Emergency Neurosciences  
Emory University School of Medicine, Atlanta, GA

**HOSPITAL APPOINTMENTS:**

Attending Physician: Shands Hospital, Gainesville, FL 2019 – current

Attending Physician: Rhode Island Hospital & The Miriam Hospital 2012 – 2019  
Providence, RI

Attending Physician: Emory University Hospital, Emory Midtown Hospital, 2008 – 2012  
& Grady Memorial Hospital, Atlanta, GA

**OTHER PROFESSIONAL APPOINTMENTS:****INTERNATIONAL:**

2021 – 2022 International Stroke Conference - Abstract Review Committee  
2016 – 2019 International Stroke Conference - Abstract Review Committee  
2017 – Brain Oxygen Optimization in Severe Traumatic Brain Injury-Phase 3 Clinical Trial  
(BOOST-3) – Executive Committee  
2015 – Brain Oxygen Optimization in Severe Traumatic Brain Injury-Phase 3 Clinical Trial  
(BOOST-3) – Co-Lead, Clinical Standardization Team  
2013 Scientific Research Department Brain Foundation of the Netherlands,  
The Hague - Grant Review  
2011 – 2013 International Stroke Conference - Abstract Review Committee

**NATIONAL:**

- 2021 – Society for Critical Care Medicine Membership Committee, Florida Chapter
- 2021 – Center for Women in Academic Medicine & Science, mentee
- 2021 – Co-Chair: Society for Academic Emergency Medicine, Neurologic Emergencies Interest Group
- 2021 – Study Steering Committee: Novel Experimental COVID Therapies Affecting Host Response (NECTAR). Clinical Trials targeting macro-, micro-immunothrombosis, vascular hyperinflammation, and hypercoagulability and renin-angiotensin-aldosterone system (RAAS) in hospitalized patients with COVID-19 (ACTIV-4 Host Tissue)
- 2020 Agency for Healthcare Research and Quality (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 – Healthcare Worker Exposure Response and Outcomes (HERO), Ancillary Subcommittee, Publications
- 2019 – 2022 Agency for Healthcare Research and Quality (AHRQ), Health Care Research Training (HCRT) Study Section Member, Dept of Health and Human Services
- 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 Department of Defense, United States Army Medical Research and Materiel Command, Military Medical Research and Development. (MRMC Combat Casualty Care [CCC]), Scientific Reviewer
- 2019 – SIREN / NETT Steering Committee
- 2018 – Group on Women in Medicine and Science (GWIMS), Association of American Medical Colleges
- 2018 – 2019 National Institutes of Health, National Institute of Neurological Disorders and Stroke (NINDS), Scientific Reviewer, StrokeNet Clinical Trials and Biomarker Studies for Stroke Treatment, Recovery, and Prevention
- 2018 – 2019 Chair, Tufts Clinical and Translational Research Institute, Emergency Medicine Expert Panel
- 2014 – 2019 Society for Academic Emergency Medicine, Ethics Committee
- 2018 – SIREN / NETT Operations Committee
- 2018 Society for Academic Emergency Medicine, National Meeting Abstract Review Committee
- 2018 – 2020 Society for Academic Emergency Medicine, Research Committee
- 2018 – BOOST3 Clinical Trial Executive Committee
- 2018 – Lead, Electronic Data Capture Committee, SIREN clinical trials network
- 2017 Department of Defense, Congressionally Directed Medical Research Programs (CDMRP) - Scientific Reviewer, Combat Casualty Care Research Program (CCCRP)
- 2017 – National Institutes of Health, National Institute of Neurological Disorders and Stroke, External Oversight Board, for the Network for Excellence in Neuroscience Clinical Trials (NeuroNEXT)
- 2017 – 2019 Tufts Clinical and Translational Research Institute, Tufts Medical Center - Emergency Medicine Expert Panel
- 2015 – 2016 National Institutes of Health, Department of Health and Human Services - Scientific Reviewer, Health Services Organization and Delivery Study Section (HSOD), Healthcare Delivery and Methodologies Integrated Review Group
- 2015 Department of Defense, Congressionally Directed Medical Research Programs - Scientific Reviewer, Clinical Trials Section

2014 – 2015	National Institutes of Health, Department of Health and Human Services - Scientific Reviewer, Health Services Organization and Delivery Study Section (HSOD), Healthcare Delivery and Methodologies Integrated Review Group
2009 – 2019	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
2010 – 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:**

2020 –	One Florida Clinical Research Consortium
2020 –	Co-chair, Wellness Committee Department of Emergency Medicine
2020	University of Florida COVID Response Command Center
2019 – 2021	Faculty Interview & Search Committee, Department of Emergency Medicine, University of Florida
2019 –	Chair, Research Committee, Department of Emergency Medicine, University of Florida
2019 –	Department of Emergency Medicine, Promotion and Tenure Committee, University of Florida
2018	Peer review for University Emergency Medicine Foundation, Faculty Academic Development Award, Brown University
2018 – 2019	2% Working Group, Department of Emergency Medicine Brown University
2018 – 2019	Revenue Enhancement Committee, Department of Emergency Medicine Brown University
2017	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 COMMITTEES:**

2021 –	Graduate Medical Education Research Committee (to create an integrated cross-departmental research curriculum for residents/fellows)
2021 –	University of Florida / Florida State University CTSA Scientific Review Committee
2020 –	Steering and Advisory Committee, University of Florida Traumatic Brain Injury Center
2020 –	COVID-19 Scientific Review Committee and Peer Assistance Working Group (SRCWG)

2020 – 2018	Institutional Review Board-01, University of Florida, Gainesville, FL Revenue Enhancement Team, Department of Emergency Medicine, Alpert Medical School of Brown University, Providence, RI
2015 – 2019	Pediatric Emergency Medicine Research Committee, Alpert Medical School of Brown University, Providence, RI
2012 – 2019	University Emergency Medicine Foundation Research Committee, Alpert Medical School of Brown University, Providence, RI
2012	University Research Council, Review Committee, Emory University, Atlanta, GA
2009 – 2012	Emory University Institutional Review Board, Emory University, Atlanta, GA
2009 – 2012	Emory 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:**

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 – 05/31/2022 Role: Multiple Principal Investigator
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 PbtO2 in goal directed therapy for severe TBI. 07/01/2018 – 06/30/2023 Direct Cost: per pt reimbursements Roles: Hub Principal Investigator, Executive Committee Co-Director, National Clinical Standardization Team
2021 –	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
2021 –	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

- 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 – 6/31/2020  
 Direct cost: per pt reimbursement  
 Role: Site Principal Investigator
- 2021 – 2024      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
- 2019 - 2023      Biomarkers in the Brain Oxygen Optimization in Severe TBI Trial (Bio-BOOST)  
 DOD, USAMRAA W81XWH1910829 (MPI: Diaz, Korley)  
 Direct cost: per pt reimbursements  
 Role: Site Principal Investigator
- 2021 -              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
- 9/1/20 – 9/1/21      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
- 4/29/21 – 8/30/22      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 – 8/30/21  
 Direct cost: per pt reimbursement  
 Role: Site Principal Investigator
- 8/1/2021 – 12/30/22      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).  
 NHLBI (PI: Self)  
 Direct cost: per pt reimbursement



Role: Site Principal Investigator

- 8/1/2021 – 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
- 10/23/20 – 10/22/21 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
- 4/29/20 – 6/1/22 Epidemiology of COVID-19 in First Responders  
CTSI: Rapid-Response Translational Research Projects to Address COVID-19 Pandemic  
UL1TR001429, NIH NCATS (MPI: Merck, Morris)  
Role: MPI
- 6/1/20 – 6/1/22 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)  
Role: Site Co-Investigator
- 7/1/20 – 12/31/22 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.  
NIH NHLBI NINDS U24NS100659, U24NS100655 (MPI: Callaway; Durkalski-Mauldin; Korley, MD, PhD)  
Direct cost: per patient reimbursement  
Role: Site Principal Investigator

### **GRANTS IN PREPARATION:**

- 2021 – IMPACT, Serum Biomarker Predictors of Neurologic Outcome within the ICECAP Multicenter Clinical Trial. Korley, Frederick; Rittenberger, Jon; Wang, Kevin; Kurz, Michael; Merck, Lisa; Donnino, Michael, *submitted*

**PRIOR RESEARCH:**

- 4/15/20 – 5/15/21 A Randomized Controlled Trial of Losartan with COVID-19 (ALPS-COVID)  
Bill and Melinda Gates Foundation (Tignanelli and Puskarich)  
University of Minnesota, IND 148365  
Total Award: per pt reimbursement  
Direct cost: per pt reimbursement  
Role: Site Principal Investigator
- 8/15/20 – 4/30/21 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
- 10/1/20 – 3/31/21 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  
6/10/2020 – 1/25/2021  
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
- 3/31/20-7/30/20 Preventing COVID-19 Infections: Healthcare Worker Exposure Response and  
Outcomes (HERO) Registry and Hydroxychloroquine (HERO-HCQ) Trial  
PCORI COVID 19-2020-001 (Adrian Hernandez)  
Role: Site Principal Investigator
- 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  $\leq 3$  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)  
Project Period: 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 – 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 Illinois and the Oregon Health and Sciences University, Portland, Oregon
- 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

**BIBLIOGRAPHY****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 C.B., Smith JK, **Merck L.H.**, Wolfe H.M., Chescheir N.C., Hamer R.M., Gilmore J.H. 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 Cibrari 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 I.R. 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 MD<sup>1</sup>, Corita R. Grudzen MD MSHS<sup>1</sup>, 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.000000000000178.

13. Joseph Miller MD MS, **Lisa H. Merck MD MPH**, Charles (Chas) 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](https://doi.org/10.1111/acem.13241)
17. 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. *Prehospital Emergency Care: Official Journal of the National Association of Ems Physicians and the National Association of State Ems Directors*. 1. PMID [29338483](https://pubmed.ncbi.nlm.nih.gov/29338483/) DOI: [10.1080/10903127.2017.1408729](https://doi.org/10.1080/10903127.2017.1408729)
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; and 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, United States](#)*
  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
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  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 1<sup>st</sup> author

28. T. Yi, I. Pan, S. Collins, F. Chen, R. Cueto, B. Hsieh, C. Hsieh, J. L. 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* (accepted for publication 4/21).

### **Corporate Authorship:**

1. Silbergleit, R., Lowenstein, D., Durkalski, V., Conwit, R. and the Neurological Emergency Treatment Trials (NETT) Investigators (2011). RAMPART (Rapid Anticonvulsant Medication Prior to Arrival Trial): A double-blind randomized clinical trial of the efficacy of intramuscular midazolam versus intravenous lorazepam in the prehospital treatment of status epilepticus by paramedics. *Epilepsia*, 52: 45–47. Role: Co-investigator, the Neurological Emergency Treatment Trials Network.
2. Intramuscular versus Intravenous Therapy for Prehospital Status Epilepticus. Robert Silbergleit, M.D., Valerie Durkalski, Ph.D., Daniel Lowenstein, M.D., Robin Conwit, M.D., Arthur Pancioli, M.D., Yuko Palesch, Ph.D., and William Barsan, M.D. for the NETT Investigators. *New England Journal of Medicine* 2012; 366:591-600 February 16, 2012. Role: Co-investigator, the Neurological Emergency Treatment Trials Network.
3. Silbergleit, R., Biros, M. H., Harney, D., Dickert, N., Baren, J. and on behalf of the NETT Investigators (2012). Implementation of the Exception From Informed Consent Regulations in a Large Multicenter Emergency Clinical Trials Network: The RAMPART Experience. *Academic Emergency Medicine*, 19: 448–454. Role: Co-investigator, the Neurological Emergency Treatment Trials Network.
4. The 60-Day Temperature-Dependent Degradation of Midazolam and Lorazepam in the Prehospital Environment. Jason T. McMullan, MD, Ashley Pinnawin, BS, Elizabeth Jones, MD, Kurt Denninghoff, MD, Nicholas Siewart, BA, Daniel W. Spaite, MD, Erin Zaleski, MA, and Robert Silbergleit, MD, on behalf of the Neurological Emergencies Treatment Trials investigators. *Prehosp Emerg Care*. 2013 Jan-Mar; 17(1): 1–7. Published online 2012 Nov 13. doi: 10.3109/10903127.2012.722177. Role: Co-investigator, the Neurological Emergency Treatment Trials Network.
5. Silbergleit, R., Lowenstein, D., Durkalski, V., Conwit, R. and on behalf of the NETT Investigators (2013). Lessons from the RAMPART study—and which is the best route of administration of benzodiazepines in status epilepticus. *Epilepsia*, 54: 74–77. Role: Co-investigator, the Neurological Emergency Treatment Trials Network.
6. High-dose albumin treatment for acute ischaemic stroke (ALIAS) part 2: a randomised, double-blind, phase 3, placebo-controlled trial. Myron D Ginsberg, Yuko Y Palesch, Michael D Hill, Renee H Martin, Claudia S Moy, William G Barsan, Bonnie D Waldman, Diego Tamariz, Karla J Ryckborst, for the ALIAS and Neurological Emergencies Treatment Trials (NETT) Investigators. *Lancet Neurol*, 2013; 12: 1049–58 Published Online September 27, 2013 [http://dx.doi.org/10.1016/S1474-4422\(13\)70223-0](http://dx.doi.org/10.1016/S1474-4422(13)70223-0). Role: Co-investigator, the Neurological Emergency Treatment Trials Network.
7. Welch, R. D., Nicholas, K., Durkalski-Mauldin, V. L., Lowenstein, D. H., Conwit, R., Mahajan, P. V., Lewandowski, C., Silbergleit, R. and For the Neurological Emergencies Treatment Trials (NETT) Network Investigators. (2015). Intramuscular midazolam versus

- intravenous lorazepam for the prehospital treatment of status epilepticus in the pediatric population. *Epilepsia*, 56(2), 254–262. Role: Co-investigator, the Neurological Emergency Treatment Trials Network.
8. Qureshi AI, Palesch YY, Barsan WG, Hanley DF, Hsu CY, Martin RL, Moy CS, Silbergleit R, Steiner T, Suarez JJ, Toyoda K, Wang Y, Yamamoto H, Yoon BW; ATACH-2 Trial Investigators and the Neurological Emergency Treatment Trials Network. [Intensive Blood-Pressure Lowering in Patients with Acute Cerebral Hemorrhage](#). *New England Journal of Medicine*. 2016 Jun 8. [Epub ahead of print] PubMed PMID: 27276234. Role: Site Principal Investigator, the Neurological Emergency Treatment Trials Network.
  9. S. Claiborne Johnston, M.D., Ph.D., J. Donald Easton, M.D., Mary Farrant, M.B.A., William Barsan, M.D., Robin A. Conwit, M.D., Jordan J. Elm, Ph.D., Anthony S. Kim, M.D., Anne S. Lindblad, Ph.D., and Yuko Y. Palesch, Ph.D., for the Clinical Research Collaboration, Neurological Emergencies Treatment Trials Network, and the POINT Investigators\* Clopidogrel and Aspirin in Acute Ischemic Stroke and High-Risk TIA. *New England Journal of Medicine*, 2018; This article was published on May 16, 2018, at NEJM.org. DOI: 10.1056/NEJMoa1800410. PMID: 29766750. Role: Site co-Principal Investigator, the Neurological Emergency Treatment Trials Network.
  10. Randomized Trial of Three Anticonvulsant Medications for Status Epilepticus. Jaideep Kapur, M.B., B.S., Ph.D., Jordan Elm, Ph.D., James M. Chamberlain, M.D., William Barsan, M.D., James Cloyd, Pharm.D., Daniel Lowenstein, M.D., Shlomo Shinnar, M.D., Ph.D., Robin Conwit, M.D., Caitlyn Meinzer, Ph.D., Hannah Cock, M.D., Nathan Fountain, M.D., Jason T. Connor, Ph.D., and Robert Silbergleit, M.D. for the NETT and PECARN Investigators\* [November 28, 2019](#) *New England Journal of Medicine*; this article was published on May 16, 2018, at NEJM.org. N Engl J Med 2019; 381:2103-2113, DOI: 10.1056/NEJMoa1905795. A list of the NETT and PECARN investigators is provided in the [Supplementary Appendix](#), available at NEJM.org. Role: Site Principal Investigator, the Neurological Emergency Treatment Trials Network.
  11. Efficacy of levetiracetam, fosphenytoin, and valproate for established status epilepticus by age group (ESETT): a double-blind, responsive-adaptive, randomized controlled trial James M Chamberlain, Jaideep Kapur Shlomo Shinnar, Jordan Elm, Maija Holsti, Lynn Babcock, Alex Rogers, William Barsan, James Cloyd, Daniel Lowenstein, Thomas P Bleck, Robin Conwit, Caitlyn Meinzer, Hannah Cock, Nathan B Fountain Ellen Underwood, Jason T Connor, Robert Silbergleit, **for the Neurological Emergencies Treatment Trials\*** and the Pediatric Emergency Care Applied Research Network investigators\*. *The Lancet*, Published Online March 20, 2020 See Online/Comment [https://doi.org/10.1016/S0140-6736\(20\)30674-7](https://doi.org/10.1016/S0140-6736(20)30674-7) \*Listed in the appendix (pp 2-8). Role: Site Principal Investigator, the Neurological Emergency Treatment Trials Network
  12. Early Convalescent Plasma for High-Risk Outpatients with Covid-19 (C3PO). F.K. Korley, V. Durkalski-Mauldin, S.D. Yeatts, K. Schulman, R.D. Davenport, L.J. Dumont, N. El Kassar, L.D. Foster, J.M. Hah, S. Jaiswal, A. Kaplan, E. Lowell, J.F. McDyer, J. Quinn, D.J. Triulzi, C. Van Huysen, V.L.W. Stevenson, K. Yadav, C.W. Jones, B. Kea, A. Burnett, J.C. Reynolds, C.F. Greineder, N.L. Haas, D.G. Beiser, R. Silbergleit, W. Barsan, and C.W. Callaway, **for the SIREN-C3PO Investigators\*** August 18, 2021, at NEJM.org. DOI: 10.1056/NEJMoa2103784. \*[Supplementary Appendix](#). Role: Site Principal Investigator, SIREN.

### **Workshop Proceedings & Federal Publications:**

1. **LH Merck**, quoted in: National Academies of Sciences, Engineering, and Medicine, 2020. Neuroscience data in the cloud: Opportunities and challenges: Proceedings of a workshop. Washington, DC: The National Academies Press. <https://doi.org/10.17226/25653>.
2. **LH Merck**, 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.

### **Books & Book Chapters:**

1. **Fagan, L.H.**, Asthma Protocols in an Urban Emergency Department. Thesis, 2002, Oregon Health Sciences University, Dept of Public Health, Preventive Medicine/Mt. Sinai Hospital, Chicago, Illinois.
2. Wright D, **Merck LH**: Head Trauma in Adults and Children. In Tintinalli JE, Stapczynski JS, Ma OJ, Cline DM, Cydulka R (eds): Emergency Medicine: A Comprehensive Study Guide, 7th edition. McGraw- Hill, Inc., 2010.
3. Wright D, **Merck LH**: Head Trauma in Adults and Children. In Tintinalli JE, Stapczynski JS, Ma OJ, Cline DM, Cydulka R (eds): Tintinalli's Emergency Medicine Manual, 7th Ed. (Pocket Edition). McGraw-Hill, Inc., 2011.
4. Wright D, **Merck LH**: Head Trauma. In Tintinalli JE, Stapczynski JS, Ma OJ, Cline DM, Cydulka R (eds): Emergency Medicine: A Comprehensive Study Guide, 8th edition. McGraw-Hill, Inc., 2015.
5. Wright D, **Merck LH**: Head Trauma. In Tintinalli JE, Stapczynski JS, Ma OJ, Cline DM, Cydulka R (eds): Emergency Medicine: A Comprehensive Study Guide, 9th edition. McGraw-Hill, Inc., 2019.

### **Digital Media Publications:**

1. Edward Walsh, Scott Collins, Owen Leary, Derek Merck, **Lisa Merck**, and Chester Sherwood. Bactrian Camel Brain Imaging. Brown University Digital Repository, 2016. Project Data DOI: <https://doi.org/10.7301/Z00C4SPV>.
2. Ibis Mummy CT Imaging. Merck PhD, Scott Collins RT(R)(CT), **Lisa Merck MD MPH**, Jen Thum MPhil, Julia Troche PhD, Owen Leary, John Cronan MD. This project was the result of a collaboration between Egyptology researchers from the Joukowsky Institute at Brown University and medical imaging researchers at Rhode Island Hospital and seeks to utilize diagnostic imaging techniques to confirm the identity of an unprovenanced 2000-year-old ibis mummy found at an archaeological site in Egypt. This unique application of imaging technology to archaeology research was sought because removing the wrapping from the mummy by hand would have risked irreversible damage to the delicate artifact. The study was used to confirm the presence of a mummified ibis inside the wrappings. Brown Digital Repository. Brown University Library. 2017; Project Data DOI:

<https://doi.org/10.7301/Z0PZ56R5>

3. Merck, Derek; Collins, Scott; **Merck, Lisa**, Thum Jen; Troche, Julia; Leary, Owen; Cronan, John. Ibis mummy CT imaging: abstract and presentation (2016). *Ibis Mummy CT Imaging*. Brown Digital Repository. Brown University Library. <https://doi.org/10.7301/Z0PZ56R5>; <https://repository.library.brown.edu/studio/item/bdr:697318/>
4. Rashleigh, Edward Patrick; Merck, Derek; Collins, Scott; **Merck, Lisa**; Thum Jen; Troche, Julia; Leary, Owen; Cronan, John. 3D print of the ibis mummy skeleton with supports (2017). *Ibis Mummy CT Imaging, Browniverse: 3D Models and Printing Digital Library*. Brown Digital Repository. Brown University Library. <https://repository.library.brown.edu/studio/item/bdr:69809/>
5. Derek Merck PhD, Scott Collins RT(R)(CT), **Lisa Merck MD MPH**, Jen Thum MPhil, Julia Troche PhD, Owen Leary, John Cronan MD. (2016). Ibis mummy CT imaging: 3D slicer files (2016). *Ibis Mummy CT Imaging, Browniverse: 3D Models and Printing Digital Library*. Brown Digital Repository. Brown University Library. <https://doi.org/10.7301/Z0PZ56R5>; <https://repository.library.brown.edu/studio/item/bdr:697315/>
6. Merck, Derek; Collins, Scott; **Merck, Lisa**, Thum Jen; Troche, Julia; Leary, Owen; Cronan, John. Ibis mummy CT imaging: CT scan 1 (2016). *Ibis Mummy CT Imaging*. Brown Digital Repository. Brown University Library. <https://doi.org/10.7301/Z0PZ56R5>; <https://repository.library.brown.edu/studio/item/bdr:697313/>
7. Merck, Derek; Collins, Scott; **Merck, Lisa**, Thum Jen; Troche, Julia; Leary, Owen; Cronan, John. Ibis mummy CT imaging: CT scan 2 (2016). *Ibis Mummy CT Imaging*. Brown Digital Repository. Brown University Library. <https://doi.org/10.7301/Z0PZ56R5>; <https://repository.library.brown.edu/studio/item/bdr:697314/>
8. Merck, Derek; Collins, Scott; **Merck, Lisa**, Thum Jen; Troche, Julia; Leary, Owen; Cronan, John. Ibis mummy CT imaging: STL files (2016). *Ibis Mummy CT Imaging, Browniverse: 3D Models and Printing Digital Library*. Brown Digital Repository. Brown University Library. <https://doi.org/10.7301/Z0PZ56R5>; <https://repository.library.brown.edu/studio/item/bdr:697316/>
9. Merck, Derek; Collins, Scott; **Merck, Lisa**, Thum Jen; Troche, Julia; Leary, Owen; Cronan, John. Ibis mummy CT imaging: temporal bone comparison (2016). *Ibis Mummy CT Imaging*. Brown Digital Repository. Brown University Library. <https://doi.org/10.7301/Z0PZ56R5>; <https://repository.library.brown.edu/studio/item/bdr:697317/>
10. Journal Club, Society of Critical Care Medicine. The Effect of Goal Directed Therapy on Patient Morbidity and Mortality after Traumatic Brain Injury, Results from the ProTECTIII Clinical Trial. **Merck, Lisa H.** Webinar 5/23/2019.

#### **Other Peer Reviewed:**

1. 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. *Academic Emergency Medicine*

May 2010, Vol 17, No 5, Suppl 1.

2. Physiologic Parameters in Goal Directed Therapy for Traumatic Brain Injury at a Level I Trauma Center. **Lisa H. Merck MD MPH**, Leon L Haley, Jr., MD MHSA, Samuel J. Chang BS, Patrick D. Kilgo MS, Lovette Lindon PhD, David W. Wright MD. *Academic Emergency Medicine* May 2011, Vol 18, No 5, Suppl 1, pS179.
3. 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. *Academic Emergency Medicine*, April 2012, Vol 19, S1 pages S1- S426.
4. 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**. *Annals of Emergency Medicine*. 2012; 60 (4) S107.
5. 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. *Annals of Emergency Medicine*. 2012; 60 (4) S49.
6. 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 MD MPH**. *Annals of Emergency Medicine*. 2012; 60 (4) S50.
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.
8. 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. *Academic Emergency Medicine* [1069-6563] 2014 vol:21 iss:5 SUPPL. 1 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.
10. David M. Frim MD PhD, Joseph MR. Madsen MD for the ShuntCheck Study Group [Tehnaz P. Boyle MD PhD, Mark I Neuman MD MPH, Mandeep S. Tamber MD PhD, Robert W. Hickey MD, Gregory G. Heuer MD, Joseph Zorc MD MSCE, Jeffrey R. Leonard MD, Julie C. Leomard MD MPH, Robert Keating MD, James Chamberlain MD, Pula Zakrzewski RM MSN, Petra Klinge MD PhD, **Lisa H. Merck MD MPH**, Joseph H. Piatt MD, Jonathan E. Bennett MD, David I. Sandberg MD, Fredrick A Boop MD. Thermal Flow Detection Improves Diagnostic Accuracy of Shunt Malfunction: Prospective, Multicenter, Operator-Blinded Study. *Journal of Neurosurgery* Apr 2016 / Vol. 124 / No. 4 / Pages A1146-A1209.
11. Leary OP, Harder T, Pan I, Merck D, Wright DW, Merck L. Volume of SDH & EDH measured by computer-assisted estimation is more predictive of mortality and functional disability than ABC/2; Published online in: "Abstracts from the 37th Annual National

Neurotrauma Symposium June 29 – July 3, 2019,” J Neurotrauma Vol 36(13), 27 June 2019, [doi.org/10.1089/neu.2019.29100.abstracts](https://doi.org/10.1089/neu.2019.29100.abstracts)

12. 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(120).
13. 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.

### **Scholarly Work Published in other Media:**

**Web:** <http://www.accessem.com/textbooks.aspx> Wright D, Merck LH: Head Trauma in Adults and Children. In Tintinalli JE, Stapczynski JS, Ma OJ, Cline DM, Cydulka R (eds) McGraw-Hill, Inc., 2010.

**Video:** Informed Consent for Computerized Tomography, Video. Written and directed by: Lisa H. Merck MD, MPH, produced by: Burton Fox, MS. Emory University, 2011.

### **INVITED PRESENTATIONS:**

#### **ABSTRACTS:**

1. 2001 Frim, D.M., **Fagan, L.H.** Pseudotumor Cerebri associated with treatment for Chiari Malformation Type I. Joint Section on Pediatric Neurosurgery of the American Association of Neurological Surgery and the Congress of Neurological Surgeons, November 2001, New York, New York.
2. 2005 Looney, C.B., Smith J.K., **Fagan L.H.**, Hamer R.M., Gilmore J.H. Intracranial hemorrhage in asymptomatic neonates: prevalence on 3.0 T MR scans and relationship to obstetric and neonatal risk factors. Radiologic Society of North America, November 2005, Chicago, Illinois.
3. 2008 Biese, K., Mehrotra, A., Cook, J., **Merck, L.**, Page, B. Emergency Department Crowding Increases Acquisition Time of Brain CT and ECG. Society for Academic Emergency Medicine, June 2008, Washington D.C.
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.
5. 2011 Physiologic Parameters in Goal Directed Therapy for Traumatic Brain Injury at a Level I Trauma Center. **Lisa H. Merck MD MPH**, Leon L Haley, Jr., MD MHSA, Samuel J. Chang BS, Patrick D. Kilgo MS, Lovette Lindon PhD, David W. Wright MD. Society for



Academic Emergency Medicine- National Meeting, May 2011, Boston, Massachusetts.

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 Pezullo 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.
19. 2015 Choi B, Asselin N, Pettit CC, Dannecker M, Jones MS, **Merck L**, Suner S, Williams K, Jay GD, Kobayashi L. Interim results of randomized controlled simulation testing of standard and automated device-assisted pre-hospital cardiac arrest resuscitation approaches. Presentation at the International Meeting on Simulation in Healthcare, January 2015, New Orleans, Louisiana.
20. 2016 Frim DM, Boyle T, Zorc J, Hickey R, Leonard J, Neuman M, Chamberlain J, Heuer G, Boop R, Sandberg D, Mandeep T, Klinge P, **Merck L**, Keating R, Leonard J, Piatt J, Bennett J, Chesler D, Hameed M, Anor T, Fritz F, Madsen J. Thermal Flow Detection Improves Diagnostic Accuracy of Shunt Malfunction: Prospective, Multicenter, Operator-Blinded Study. Accepted for presentation as a plenary session; American Association of Neurological Surgery Annual Scientific Meeting; April 2016, Chicago, Illinois.
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.
22. 2017 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. The International Society for Optics and Photonics (SPIE); February 2017, Orlando FL.
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. \*Dr. 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 3<sup>rd</sup> 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 Pan, Ian, 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**. *Accepted for presentation, 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**. *Accepted for presentation, American Public Health Association, October, 2021 Denver, CO.*

## 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. 13<sup>th</sup>, 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.

**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 M.Ed, Nicole Iovine MD PhD, Kartik Cherabuddi MD, Adrian Tyndall, MD MPH. 6/10/20, Virtual Symposium.

**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.

**FORMAL TEACHING (GRADUATE MEDICAL EDUCATION & MEDICAL SCHOOL):**

- 2019 – current      *Associate Professor of Emergency Medicine, Vice Chair for Research  
Affiliate Associate Professor of Neurology / Neurocritical Care  
Affiliate Associate Professor of Health Outcomes and Biomedical Informatics*  
University of Florida at Gainesville, College of Medicine.  
Specialty focus in Neurological Emergencies, Epidemiology, Clinical Research,  
and Medical Ethics

- 2019 – current ***Adjunct Associate Professor of Emergency Medicine, Neurosurgery, and Diagnostic Imaging*** Alpert Medical School, Brown University, Providence, RI
- 2020 ***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
- 2019 ***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:**

- 2021 – current Michael A. Pizzi DO MS PhD, Assistant Professor of Neurology and Neurosurgery, Division of Neurocritical Care, University of Florida at Gainesville. Multi-modal Measurements of Blood Brain Barrier Permeability after Traumatic Brain Injury, NINDS K08 application, *mentee*.
- 2020 – current Carolina B. Maciel MD MSCR, Assistant Professor of Neurology and Neurosurgery, University of Florida at Gainesville.
- American Heart Association Innovative Project Award, 11/2020, mentee. VIGAB STAT - feasibility of delivering vigabatrin (VGB) within 48 hours of onset of post-anoxic status epilepticus (PASE) due to cardiac arrest. The study will define pharmacokinetics of VGB, assess safety, and explore clinical outcomes / cessation of seizure.
- NINDS R25, Clinical Trials Methodology Course Cohort, University of Michigan, 2021, mentee. VIGAB STAT Phase IIb planning—dose exploration, adaptive design.
- 2020 – current Miranda Solly, MD Candidate '23, University of Florida at Gainesville. Research in: COVID 19 Epidemiology in First Responders and Front-Line Providers. Work accepted for presentation at American Public Health Association annual meeting, 10/2021.
- 2018 – current Fiona Chen, MD Candidate '21, Alpert Medical School of Brown University, Providence, RI. Residency Match: Emergency Medicine at the University of California at San Francisco, CA. *Translational Research in Clinical Medicine Scholarly Concentration, Mentee:*
- 2021 EMRA Award: Dr Alexander Greene Medical Student of the Year Award, Emergency Medicine Resident Association.
- 2019 1st Place, Abstract Presentation: Brown Emergency Medicine Symposium. The Relationship Between Magnitude of International Normalized Ratio and Outcome After Traumatic Brain Injury. Brown Emergency Medicine Symposium, Providence, RI 5/2019.
- 2018 Grant Award: NIH National Heart, Lung, Blood Institute (NHLBI) training grant, T35 HL094308. Project: Identifying Radiographic Biomarkers for the Prognostication of Traumatic Brain Injury. The overall goal of the grant is to provide medical students with the opportunity to have a mentored research experience under the guidance of Brown University faculty. Designated faculty trainers are the principal investigators for research programs focused on the

molecular basis and pathology of cardiovascular, pulmonary, and blood diseases and/or disease outcomes and prevention.

- 2018 – 2019 Ian Pan, MD 2020, Alpert Medical School of Brown University, Providence, RI. *Translational Research in Clinical Medicine Scholarly Concentration, Mentee: Projects: Advanced Image Analysis in Traumatic Brain Injury and Stroke. Artificial Intelligence in Medicine. Residency Match: Diagnostic Imaging Brigham and Women’s Hospital, Boston, MA.*
- 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: Ian Pan and Dr. Cadrin-Chenevert placed #1 (out of 1,400 submissions from 85 countries).
- 2018 – current Tyler Harder MS, MD Candidate, Alpert Medical School of Brown University, Providence, RI. *Translational Research in Clinical Medicine Scholarly Concentration, Mentee:*
- 2020 Research Award: Critical Care Congress, Society of Critical Care Medicine, Orlando, FL 2/2020, *for:* Patient-Specific Prognostication After TBI Is Related to Bleed Phenotype and Anatomic Location.
- 2019 – current Robert Cueto, Research Assistant in the Department of Emergency Medicine, University of Florida, Gainesville, FL. Medical School Acceptance, 2021, University of Florida, Gainesville, FL.
- 2013 – 2018 Jena Lerch BSN, Research Assistant in the Division of Emergency Neurosciences, Department of Emergency Medicine, Brown University. Jena completed a BSN at Rhode Island College, 2018, and is expected to graduate from the Doctor of Nursing Practice at Florida International University in 2022.
- 2016 – 2019 Krishna Nand Keshava Murthy, PhD Candidate, Department of Engineering, Brown University, Providence, RI; Imaging Data Scientist, Memorial Sloan Kettering Cancer Center, NY, NY.  
Project: Advanced Image Analysis in Traumatic Brain Injury.
- 2015 – 2016 Erin O’Donnell PA, Research Assistant, Division of Emergency Neurosciences. Matriculated to University of Saint Joseph, Physician’s Assistant Studies, West Hartford, CT. Graduation: 2019. Matriculated to Hasbro Pediatric Emergency Medicine PA program.
- 2015 – current Owen Leary, Clinical Research Mentee and Clinical Research Assistant BS MD candidate, Program for Liberal Medical Education (PLME), Brown University / Alpert Medical School of Brown University, Providence, RI.  
Projects: Advanced Image Analysis in Traumatic Brain Injury.
- 2020 Research Award: Critical Care Congress, Society of Critical Care Medicine, Orlando, FL 2/2020, *for:* 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” from the AANS/CNS Joint Section on Trauma and Critical Care (2019). For abstract, 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, 2019.

- 2014 – 2019 Madeline Cosgriff, visiting student intern, Carleton College, Northfield Minnesota.  
Project: 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, Division of Emergency Neurosciences. Matriculated to Harvard Medical School, Boston, MA. Graduation, 2019. Residency Match: Emergency Medicine Highland Hospital, CA 2019.
- 2011 – 2012 Michael Holdsworth MD, Medical Student, 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 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 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, Emory University  
Project: Informed Consent for Computerized Tomography, Emory University School of Medicine, Atlanta, Georgia. Residency Match: Emergency Medicine – Carolinas Medical Center, Charlotte, North Carolina
- 2010 – 2011 Samuel Chang MD, Medical Student, 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, North Carolina
- 2009 – 2012 Heather Gunn MD Emergency Medicine Residency, Emory University School of Medicine, Atlanta, Georgia

**Certification:**

2010 -	Active Board Certification	American Board of Emergency Medicine
2019 -	Active License:	Florida Medical Board
2012 - 2020	Active License:	Rhode Island Medical Board
2007 -	Active License:	North Carolina Medical Board
2008 -	Active License:	Georgia Medical Board
2005	USMLE Step III	Passed
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:**

2020 - current	Elected to serve on the School Advisory Council, Alachua County School District, FL
2014	Staying Safe and Healthy. Lecture to children at the Early Childhood Center, Jewish Alliance of Greater Rhode Island, Providence, RI
2013	Staying Safe and Healthy, Preventing Head Injury. Lecture to children at the Early Childhood Center, Jewish Alliance of Greater Rhode Island, Providence, RI
2013	Exception from Informed Consent and Research in Traumatic Brain Injury. Conference with Brain Trauma Survivors, Neurorestorative Care, Charlestown, RI
2012	Staying Safe and Healthy. Lecture to children at the Early Childhood Center, Jewish Alliance of Greater Rhode Island, Providence, RI
2012 – 2015	Town Council: Environmental Conservation Commission, Barrington, RI

**Media Public Service Education:**

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.
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.lpri.org/inicio/index.php?categoryid=65&p2\\_articleid=23534](http://www.lpri.org/inicio/index.php?categoryid=65&p2_articleid=23534)
- 8/2013 Providence Journal Newspaper Interview  
Traumatic Brain Injury
- 8/2013 Channel 10 News, Interview  
Traumatic Brain Injury
- 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 – Novartis, TBI Expert Panel

### **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  
2006 – 2008 Emergency Medicine Resident Association  
2006 – 2008 American College of Emergency Physicians, Resident Member