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

Virginia Commonwealth University / Medical College of Virginia
Department of Emergency Medicine
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Main Hospital, Ste. 500
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Richmond, VA 23298
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#### **RESEARCH FOCUS and SPECIALIZATION:**

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

## **EDUCATION:**

Undergraduate	Rec	ed	Colle	ge,	Portland,	OR	(1991-1995)

Bachelor of Arts, Psychology, 1995

Medical School The Chicago Medical School, North Chicago, IL (7/1998-6/2002)

Medical Doctor, 2002

Masters of Public Health Oregon Health and Sciences University, Portland, Oregon (6/1997-6/2002)

Masters of Public Health, Epidemiology and Biostatistics, 2002

Master of the Arts Brown University, Providence, RI (7/2018)

Master of Arts, ad eundem (upon academic promotion)

### COMPLETED POSTGRADUATE TRAINING 6/2002-11/2008:

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

#### **POST GRADUATE HONORS AND AWARDS:**

2023	Tenure, Professor of Emergency Medicine, Virginia Commonwealth University School of
	Medicine, Richmond, VA

2019 - 2022 Teaching Scholar, Office of the Provost, University of Florida, Gainesville, FL

Elected by the Society for Academic Emergency Medicine to serve as a liaison to the NIH

Center for Scientific Review.

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

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

# PROFESSIONAL DEVELOPMENT, LICENSES, & BOARD CERTIFICATION:

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

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

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

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

## University of Florida College of Medicine, Gainesville, FL

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

## Medical School of Brown University, Providence, RI

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

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

7/2017 – current: Adjunct Associate Professor of Medicine, Division of Clinical Care

Research Institute for Clinical Research and Health Policy Studies

Scholar, Tufts Clinical and Translational Science Institute

## Emory University School of Medicine, Atlanta, Georgia

11/2008 – 6/2012: Assistant Professor of Emergency Medicine

Core Faculty, Division of Emergency Neurosciences

### **HOSPITAL APPOINTMENTS / CLINICAL SERVICE:**

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

## **OTHER PROFESSIONAL APPOINTMENTS:**

## **INTERNATIONAL:**

2025 – current	Reviewer, Critical Care Medicine, Lippincott
2023 – current	International Initiative for Traumatic Brain Injury Research (InTBIR): Clinical Trials
	Working Group; Combined Neuroimaging and Biomarkers Working Group
2022 – current	InTBIR: Imaging Working Group
2017 – current	NIH, National Institute of Neurological Disorders and Stroke (NINDS): Brain Oxygen
	Optimization in Severe Traumatic Brain Injury - Phase 3 Clinical Trial (BOOST-3),
	Executive Committee
2015 – current	NIH/NINDS: Brain Oxygen Optimization in Severe Traumatic Brain Injury-Phase 3
	Clinical Trial (BOOST-3), Co-Lead, Clinical Standardization Team
2021 - 2025	National Institutes of Health (NIH), National Heart, Lung, and Blood Institute (NHLBI):
	Novel Experimental COVID Therapeutic Agents Targeting RAAS, (NECTAR).
	Executive Committee: Accelerating COVID-19 Therapeutic Interventions and Vaccines
	(ACTIV4d) Master Protocol for Clinical Trials targeting host tissue and the renin -
	angiotensin - aldosterone system (RAAS) in hospitalized patients with COVID-19
2023 - 2024	Journal of Clinical and Translational Science, Cambridge Univ Press, Guest Editor

2021 - 2023	International Stroke Conference, Abstract Review Committee
2016 – 2019	International Stroke Conference, Abstract Review Committee
2013	Scientific Research Department Brain Foundation of the Netherlands, The Hague, Grant Review
2011 - 2013	International Stroke Conference, Abstract Review Committee
NATIONAL	
NATIONAL:	
2024 – current	Department of Defense (DoD): Scientist Reviewer, FY24 Congressionally Directed
	Medical Research Programs Translational Research - Traumatic Brain Injury and
	Psychological Health Program (TBIPHRP).
2024 – current	Steering Committee: Enhancing Healthcare Delivery and Patient Outcomes:
	Noninvasive Wireless Thermal Sensors to Improve Ventricular Shunt Monitoring,
	Reduce Imaging, and Alleviate the Burden on Providers, Patients, and Families,
	Rhaeos, Inc
2023 - current	National Institutes of Health (NIH), National Institute of Neurological Disorders and
	Stroke (NINDS), National Heart, Lung, and Blood Institute (NHLBI):
	The Strategies to Innovate Emergency Care Clinical Trials Network (SIREN):
	Education, Training, and Collaboration Working Group
2023 – current	National Neurotrauma Society – Abstract Review Committee
2023 – current	Co-Director, SIREN Extracorporeal Cardiopulmonary Resuscitation (ECPR)
2021	Workgroup
2021 – current 2019 – current	Center for Women in Academic Medicine & Science, member NIH/NINDS/NHLBI: SIREN Steering Committee
2019 – current	Association of American Medical Colleges (AAMC): Group on Women in Medicine and
2016 – Current	Science (GWIMS), member
2018 – current	NIH/NINDS/NHLBI: SIREN / NETT Operations Committee
2018 – current	NIH/NINDS/NHLBI: Brain Oxygen Optimization in Severe TBI Phase 3 (BOOST3)
2016 – current	Clinical Trial Executive Committee
2018 – current	NIH/NINDS/NHLBI: Lead, Electronic Data Capture Committee, SIREN clinical
2010 Current	trials network
2021 - 2025	Study Steering & Executive Committee: Novel Experimental COVID Therapies
	Affecting Host Response (NECTAR). Clinical trials targeting macro-, micro-
	immuno-thrombosis, vascular hyperinflammation, hypercoagulability, and renin-
	angiotensin-aldosterone system (RAAS) in hospitalized patients with COVID-19
	(ACTIV-4 Host Tissue) NIH/NHLBI
2019 - 2024	Dept of Health and Human Services (DHHS), Agency for Healthcare Research and
	Quality (AHRQ), Health Care Research Training (HCRT) Study Section Member
2017 - 2023	NIH/NINDS: External Oversight Board, for the Network for Excellence in
	Neuroscience Clinical Trials (NeuroNEXT)
2023	AHRQ National Research Service Award, Institutional Research Training
	T32 Study Section; Special Emphasis Committee
2021 - 2022	Society for Critical Care Medicine Membership Committee, Florida Chapter
2021 - 2022	Co-Chair: Society for Academic Emergency Medicine, Neurologic Emergencies
2020	Interest Group
2020	AHRQ: Patient Centered Outcomes Research (PCOR) Grants and Cooperative
	Agreements to Evaluate Health System and Healthcare Professional Responsiveness to
2020 2022	COVID-19, Study Section Member, Department of Health and Human Services
2020 - 2022	PCOR: Healthcare Worker Exposure Response and Outcomes (HERO), Ancillary Sub-

	Committee, Publications
2019 - 2020	DoD: Scientific Reviewer for the 2019 Peer Reviewed Medical Research Program
2019 - 2020	Neurotrauma, National Trauma Research Action Plan (NTRAP) The NTRAP project is
	supported by a grant from the Department of Defense, managed by the Coalition for
	National Trauma Research (CNTR)
2019 - 2020	DoD: United States Army Medical Research and Materiel Command, Military Medical
	Research and Development. (MRMC Combat Casualty Care [CCC]), Scientific Reviewer
2018 - 2019	NIH/NINDS: Scientific Reviewer, StrokeNet Clinical Trials and Biomarker
	Studies for Stroke Treatment, Recovery, and Prevention
2018 - 2019	Clinical and Translational Research Institute (CTSI): Chair, Tufts Emergency Medicine
	Expert Panel
2014 - 2019	Society for Academic Emergency Medicine, Ethics Committee
2018	Society for Academic Emergency Medicine, National Meeting Abstract Review
2018 - 2020	Society for Academic Emergency Medicine, Research Committee
2017	DoD: Congressionally Directed Medical Research Programs (CDMRP) - Scientific
	Reviewer, Combat Casualty Care Research Program (CCCRP)
2017 - 2019	CTSI: Tufts, Tufts Medical Center - Emergency Medicine Expert Panel
2015 - 2016	Department of Health and Human Services (DHHS), NIH: Scientific Reviewer,
	Health Services Organization and Delivery Study Section (HSOD), Healthcare
	Delivery and Methodologies Integrated Review Group
2015	DoD: Congressionally Directed Medical Research Programs - Scientific
	Reviewer, Clinical Trials Section
2014 - 2015	DHHS, NIH: Scientific Reviewer, Health Services Organization and Delivery Study
	Section (HSOD), Healthcare Delivery and Methodologies Integrated Review Group
2009 - 2019	NIH/NINDS: Very Early Administration of Progesterone for Acute Traumatic Brain
	Injury (ProTECT III) - Clinical Standardization Team
2015 - 2016	Chair, Society for Academic Emergency Medicine, Neurologic Emergency
	Research Interest Group
2014 - 2015	Vice Chair, Society for Academic Emergency Medicine, Neurologic Emergency
	Research Interest Group
2014 - 2015	National Task Force, Patient Centered Outcomes Research, Society for Academic
	Emergency Medicine, Consensus Conference on Diagnostic Imaging in the ED: A
	Research Agenda to Optimize Utilization
2013 - 2014	Society for Academic Emergency Medicine: Neurological Emergencies
• • • •	Committee, Consensus Conference on Gender Specific Medicine
2012	Society for Academic Emergency Medicine- Member, Research Committee
2011 –	Ad-hoc Reviewer, Journal of Neurotrauma, Mary Ann Leibert Inc.
2011 –	Ad-hoc Reviewer, Academic Emergency Medicine, Wiley Blackwell
2011 –	Ad-hoc Reviewer, Annals of Emergency Medicine, Elsevier
2011 –	Ad-hoc reviewer, West J of Emergency Medicine, Dept of EM, UC Irvine
2010 –	Society for Academic Emergency Medicine, Neurologic Emergencies Interest Group
2009	Society for Academic Emergency Medicine, Task Force: Residents as Researchers 2009
2010 2012	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:**

2025-current	Virginia Commonwealth University (VCU) - Virginia Commonwealth University Health
	Systems (VCUHS) Trauma Multidisciplinary Patient Care Committee
2024	Virginia Commonwealth University (VCU) School of Medicine (SOM) Leadership
	Academy, VCU SOM Office of Faculty Affairs and Faculty Development
2023 – current	Virginia Commonwealth University (VCU) - Virginia Commonwealth University Health
	Systems (VCUHS) Collaboration Taskforce
2022 - current	Advanced Resuscitation Cooling Therapeutics and Intensive Care Leadership Committee
	(ARCTIC), VCUHS - Core Clinical Faculty
2022 - current	Emergency Medicine Faculty Search Committee, VCU
2022 - current	Director, Clinical Trials Collaborative, VCUHS/VCU
2022 - current	Lead, Research Operations Committee, Department of Emergency Medicine, VCU
2020 - 2022	One Florida Clinical Research Consortium
2020 - 2022	Co-chair, Wellness Committee Dept of Emergency Medicine, University of Florida
2020 - 2021	COVID Response Command Center, University of Florida
2019 - 2021	Faculty Search Committee, Dept of Emergency Medicine, University of Florida
2019 - 2021	Chair, Research Committee, Dept of Emergency Medicine, University of Florida
2019 - 2022	Promotion and Tenure Committee, Dept of Emergency Medicine, University of Florida
2018	Peer review, University Emergency Medicine Foundation, Faculty Academic
	Development Award, Brown University
2018 - 2019	2% Working Group, Dept of Emergency Medicine Brown University
2018 - 2019	Revenue Enhancement Committee, Dept of Emergency Medicine Brown University
2017 - 2018	Trauma Committee, Rhode Island Hospital
2014 - 2019	Institutional Review Board, Rhode Island Hospital
2014 - 2019	Rapid Response Team, Institutional Review Board, Rhode IslandHospital
2013 - 2019	Stroke Committee, Rhode Island Hospital
2012 - 2013	Emergency Department MRI Committee, Rhode Island Hospital, Providence, RI
2009 - 2010	Grady Trauma Committee, Grady Memorial Hospital, Atlanta, GA
2003 - 2005	Emergency Management Sub-Committee, Duke University Medical Center, Durham, NC

## **UNIVERSITY COMMITTEE & COUNCIL SERVICE:**

2024 - current	Standing Member, Institutional Review Board (IRB), VCU, Richmond, VA
2024 - current	Peer-Review Committee for Promotion and Tenure, Department of Emergency Medicine,
	VCU, Richmond, VA
2024 – current	Clinical Operations Service Agreement (COSA) / Clinical Education and Research
	Service Agreement Review Committee, VCU/VCUHS, Richmond, VA
2023 – current	Member, Chair's Interdepartmental Research Collaboration, VCU/VCUHS, Richmond, VA
2023 - current	Member, Center for Rehabilitation Science and Engineering (CERSE), Research Capacity
	Building Council, VCU, Richmond, VA
2023 - current	Grant reviewer, MD-PhD Wright Scholar Grant Review Panel, VCU, Richmond, VA
2022 - current	Director, Research, Education, and Mentorship cycle (REM cycle), VCU/VCUHS,
	Richmond, VA
2022 - current	Chair, Research Committee, Department of Emergency Medicine, VCU, Richmond, VA
2022 - current	Member, Operations Committee, Wright Center for Clinical and Translational Research,
	VCU, Richmond, VA
2022 - current	Member, Faculty Executive Committee, VCU, School of Medicine, Richmond, VA
2022 - current	Director, Clinical Trials Collaborative VCU/VCUHS, Richmond, VA

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2023 - 2024	Member, One VCU Human Research and Clinical Trials - Initiative (HRCT-I) Advisory
	Council, VCU/VCUHS, Richmond, VA
2023 - 2024	Co-Chair, Operations Sub-Committee, HRCT-I, VCU/VCUHS, Richmond, VA
2023 - 2024	Member, Regulatory Sub-Committee, HRCT-I, VCU/VCUHS, Richmond, VA
2022	Member, Thesis Review Committee, Clinical and Translational Sciences, Master of
	Science (MS) VCU, Richmond, VA
2021 - 2022	University of Florida / Florida State University CTSA Scientific Review Committee
2020 - 2022	Steering and Advisory Committee, University of Florida Traumatic Brain Injury Center
2020 - 2022	COVID-19 Scientific Review Committee and Peer Assistance Working Group (SRCWG)
2020 - 2022	Institutional Review Board-01, University of Florida, Gainesville, FL
2015 - 2019	Pediatric Emergency Medicine Research Committee, Brown University, Providence, RI
2014 - 2019	Institutional Review Board, Rhode Island Hospital (for Brown University health sciences
	research), Providence, RI
2012	University Research Council, Review Committee, Emory University, Atlanta, GA
2009 - 2012	Institutional Review Board, Emory University, Atlanta, GA
2009 - 2012	Center for Injury Control, Emory University, Atlanta, GA
2009 - 2012	Emergency Medicine Wellness Committee, Emory University, Atlanta, GA
2008 - 2012	Emergency Medicine Research Committee, Emory University, Atlanta, GA
2006 - 2007	Resident Quality Council, University of North Carolina, Chapel Hill, NC
2000	Institutional Review Board, The Chicago Medical School, North Chicago, IL
2000	Student Council Constitution Committee, The Chicago Medical School, North Chicago, IL
1999 - 2000	Student Council, The Chicago Medical School, North Chicago, IL
1999 - 2001	President, Clinical Research Interest Group, The Chicago Medical School, North Chicago, IL
1998 - 1999	President, Emergency Medicine Clinical Research Interest Group, The Chicago Medical
	School, North Chicago, IL
1991 - 1995	Student Chair, Wellness Committee/HIV counseling center development, Reed
	College, Portland, OR

#### **GRANTS & CLINICAL RESEARCH:**

#### **Active:**

2023 – current SIREN | CORE-EM Hub Alliance

Network for Emergency Care Clinical Trials: Strategies to Innovate EmeRgENcy Care

Clinical Trials Network (SIREN)

NIH NHLBI NINDS U24NS100673-06 (MPI: Merck- contact, Wright, Papa, Selker,

Mosier, Jones) 2/1/2023 – 1/31/28

Role: Multiple Principal Investigator, contact-PI

2024 – current Development of wireless, wearable flow sensors for continuous, long-term

tracking of cerebrospinal fluid dynamics in patients with hydrocephalus.

NIH NINDS 1UG3NS130338-01A1 (PI: Webb)

<u>Subaward</u>: Long-Term Tracking of Fluid Dynamics in Cerebrospinal Fluid Shunts with a Wireless Thermal Anisotropy Measurement Device During Activities of Daily Living

Including Sleep (Site PI, Merck)

9/01/2024 - 8/31/2025

Role: Site Principal Investigator

2024 – current Enhancing Healthcare Delivery and Patient Outcomes: Noninvasive Wireless

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Thermal Sensors to Improve Ventricular Shunt Monitoring, Reduce Imaging, and Alleviate the Burden on Providers, Patients, and Families NINDS NIH NIH NINDS 2R44NS121555-04 (PI Somera)

<u>Subaward</u>: Assessment of Flow in Cerebrospinal Fluid Shunts with a Wireless Thermal Anisotropy Measurement Device in Asymptomatic Patients (Site PI, Merck)

<u>Subaward</u>: Repeated Assessment of Flow in Cerebrospinal Fluid Shunts with a Wireless Thermal Anisotropy Measurement Device in an Emergent Setting (Site PI, Merck) 12/09/2024 - 11/30/2025

Role: Site PI, Steering Committee

2024 - 2025

Development of a Noninvasive, Wireless Telemedicine Flow Sensor for Patients with Hydrocephalus (PI Somera)

<u>Subaward</u>: Longitudinal Measurements of Flow in Cerebrospinal Fluid Shunts with a Wireless Thermal Anisotropy Measurement Device in People with Chronic Headaches (Site PI, Merck)

NSF SBIR Phase II FAIN 2037171

7/18/2024 - 5/31/2025

Role: Site Principal Investigator

2024 - current

Nimodipine Systemic Exposure and Outcomes Following Aneurysmal Subarachnoid Hemorrhage: A Prospective Multi-centre Observational Study (ASH-II Study)

The Canadian Society of Healthcare-Systems Pharmacy (CSHP) Research and Education

Foundation (PI Mahmoud) Role: Site Co-Investigator

2023 – current

Patterns of Survivors' Recovery Trajectories in the ICECAP trial (POST-ICECAP)

NIH K00021632 (PI Meurer) 06/01/2023-05/31/2028 Role: Hub PI, Site PI

2022 - current

Feasibility Study of a Single Platform Solution (SPS) for Blood Testing of TBI Biomarkers Army Medical Research and Material Command (AMRMC); TBIPHRP; W81XWH22C0059

(PI: William Haskins PhD)

W81XWH22C0059-LM (sub PI: Lisa Merck MD MPH)

9/26/22-3/26/25 Role: Clinical PI

2018 – current

Brain Oxygen Optimization in Severe Traumatic Brain Injury-Phase 3 (BOOST-3) CCC

NIH / NINDS U01NS099046-01A1 (MPI: Barsan, Dias, Shutter, Yeatts)

International, 60 center, adult and pediatric randomized clinical trial to assess the effect of Pbt02 in goal directed therapy for severe TBI.

07/01/2018 - 11/30/2025

Direct Cost: Administrative effort (20% FTE) and per pt reimbursement

Roles: Hub Principal Investigator; Executive Committee; Co-Director, National

Clinical Standardization Team

2019 - current

Influence of cooling duration on efficacy in cardiac arrest patients (ICECAP)

NIH / NINDS / NHLBI 1UG3HL145269-01A1 (MPI: Meurer, Romergryko, Silbergleit)

9/19/2019 - 8/31/2025

Direct cost: per pt reimbursement

Role: Hub Principal Investigator, Site Principal Investigator

2024 – current Multi-Arm Multi-Stage Adaptive Platform Trial for Acute Treatment TBI (APT-TBI-

01) TBIDT-MOD1 UCSF, TRACK-TBI NET, Transforming Research and Clinical

Knowledge in Traumatic Brain Injury Clinical Trials Network

UCSF / DoD NCT05826912 (PI Manley)

Direct cost: per pt reimbursement 12/2024 – 8/2029 UCSF (Manley)

Role: Site co-investigator

2023 – current Wright Regional Center for Clinical and Translational Science

National Center for Advancing Translational Sciences: UM1TR004360 (FG Moeller)

5/1/2023-4/30/2030

Project Goal: The overall goal is to develop methods that overcome roadblocks in clinical and translational science (CTS) to support equitable advancement of translational science across our rural and diverse region that can be deployed

throughout the CTSA network

Direct cost: Administrative effort (10% FTE) Role: Site Co-Investigator, Operations Committee

2019 – current Biomarkers in the Brain Oxygen Optimization in Severe TBI Trial (Bio-BOOST)

DOD, USAMRAA W81XWH1910829 (MPI: Diaz, Korley)

Direct cost: per pt reimbursements Role: Hub Principal Investigator

2022 – current TRACK-TBI NET, Transforming Research and Clinical Knowledge in

Traumatic Brain Injury Clinical Trials Network

Multi-Arm Multi-Stage Adaptive Platform Trial for Acute Treatment TBI

TBIDT-MOD1 UCSF (Manley) 11/2022 – TBD UCSF (Manley) Role: Site co-investigator / Clinical PI

#### **Grants in preparation:**

2024 – Observation Pathway for TBI to Improve ProgNosis (OPT-In). Lisa H.

Merck, David Cifu, David Wright, Kevin Wang, Will Haskins.

resubmission, DoD

2024 – ECPR-INSIGHT, Implementation of an optimized extracorporeal CPR

(ECPR) chain-of-survival bundle. Jarrod Mosier, Lisa Merck for the SIREN

investigators; application in preparation: NHLBI, NINDS

#### Prior research:

2024 – 2025 Assessment of flow in cerebrospinal fluid shunts with a wireless thermal

anisotropy measurement device in asymptomatic patients.

Protocol ID: Rhaeos 2023-03, RB Revision Date: January 25, 2024 Sponsor: Rhaeos, Inc., Evanston, IL

6/1/24 - 5/30/25

Role: Site Principal Investigator

2021 - 2024

Accelerating COVID-19 Therapeutic Interventions and Vaccines (ACTIV4d).

Master Protocol for Clinical Trials targeting host tissue and the renin-angiotensin -

aldosterone system (RAAS) in hospitalized patients with COVID-19.

Novel Experimental COVID Therapeutic Agents targeting RAAS, (NECTAR).

CONNECTS Master Protocol for Clinical Trials Targeting Macro-, Micro-

immuno-thrombosis, Vascular Hyperinflammation, and Hypercoagulability and Renin-angiotensin-aldosterone System (RAAS) in Hospitalized Patients With

COVID-19 (ACTIV-4 Host Tissue).

NHLBI NCT04924660 (PI: Collins)

8/1/2021 - 09/30/24

Direct cost: Administrative effort and per pt reimbursement

Role: Site Co-Investigator, Executive Committee

2022 - 2024

Transforming Research and Clinical Knowledge in TBI (TRACK-TBI): Clinical

Evaluation of the i-STAT TBI Test

Abbot Pharmaceuticals, Univ of California San Francisco (UCSF), (Manley)

11/2022 - 07/2024

Role: Site Principal Investigator

2017 - 2022

SIREN | CORE-EM Hub Alliance

Network for Emergency Care Clinical Trials: Strategies to Innovate EmeRgENcy Care

Clinical Trials Network (SIREN)

NIH NHLBI NINDS 1 U24 NS100673-01 (MPI: Wright-contact, Merck, Papa, Selker,

Cairns, Jones)

07/15/2017 - 12/31/2022

Role: Multiple Principal Investigator

2022 - 2024

AdvanceBox

Nimbus Research Laboratory, LLC Non-clinical PI at Lifespan, in kind

Community resource architecture to assist in bystander life support measures

2021 - 2022

Early intervention augmenting GABA-ergic pathways: The VIGAB-STAT IIa

VIGABatrin in post-anoxic STATus epilepticus. Outcomes after cardiac arrest depend on the severity of global brain injury resulting from the ongoing injury due to gaps between brain energy supply and demand (secondary brain injury). Our overarching goal is to improve outcomes of individuals who experience refractory seizures after cardiac arrest via an open-label trial using Vigabatrin. The goal of this study is to demonstrate that vigabatrin can be absorbed when given in the post-cardiac arrest period.

American Heart Association (PI: Maciel)

Role: Site Co-investigator, Faculty Mentor

2020 - 2022

Epidemiology of COVID-19 in First Responders

CTSI: Rapid-Response Translational Research Projects to Address COVID-19 Pandemic

UL1TR001429, NIH NCATS (MPI: Merck, Morris)

4/29/20 - 6/1/22

Role: MPI

2020 - 2021

COVID-19 Among Children in North Central Florida

CTSI: Rapid-Response Translational Research Projects to Address COVID-19 Pandemic

UL1TR001429, NIH NCATS (MPI: Nelson, Morris)

6/1/20 - 6/1/22

Role: Site Co-Investigator

2021 – 2022 Accelerating COVID-19 Therapeutic Interventions and Vaccines (ACTIV4c)

A multicenter, adaptive, prospective, randomized trial evaluating the efficacy and safety of antithrombotic strategies in patients with COVID-19 following hospital discharge.

NINDS, NHLBI, BARDA, OWS, HHS (PI: Ortel)

4/29/21 - 8/30/22

Direct cost: per pt reimbursement Role: Site Principal Investigator

2021 – 2022 CoVPN 3006 A randomized controlled study to assess SARS CoV-2 infection, viral

shedding, and subsequent potential transmission in university students immunized with

Moderna COVID-19 Vaccine

NIH / NIAID

Role: Site Co-investigator

2021 – 2022 Kinetics of Antibody, B Cell and T Cell Responses to SARS-CoV-2 mRNA Vaccines in

Solid tumor and Lymphoma Patients.

Comparative Diagnostic and Population Medicine College of Veterinary Medicine University of Florida Veterinary Medicine (PI: Maureen T. Long DVM PhD)

Role: Co-investigator

2021 – 2022 Multi-arm Optimization of Stroke Thrombolysis (MOST): a single blinded, randomized

controlled adaptive, multi-arm, adjunctive-thrombolysis efficacy trial in ischemic stroke.

(MOST)

NINDS U01 NS100699 (MPI: Adeoye, Grotta)

6/11/21-2/2024

Direct cost: per pt reimbursement Role: Site Principal Investigator

2021 – 2022 Sensor Evaluation of Neurologic Status in Emergencies (SENSE Device), SENSE-003. A

Prospective, Two-Stage, Non-randomized, Multi-center Within Patient Comparison Study to

Evaluate the SENSE Device's Ability to Monitor Intracranial Hemorrhage.

SENSE Diagnostics (PI: Opeolu Adeoye)

Direct cost: per pt reimbursement Role: Site Principal Investigator

2020 – 2021 Accelerating COVID-19 Therapeutic Interventions and Vaccines (ACTIV4b)

COVID-19 Outpatient Thrombosis Prevention Trial: A multicenter adaptive randomized placebo-controlled platform trial evaluating the efficacy and safety of antithrombotic

strategies in COVID-19 adults not requiring hospitalization at time of diagnosis.

NHLBI (PI: Conners) 9/1/20-9/1/21

Direct cost: per pt reimbursement

Role: Site Principal Investigator

2020 – 2021 Clinical-trial of COVID-19 Convalescent Plasma in Outpatients (C3PO)

A multicenter, two arm, randomized, single-blind trial clinical trial to determine if receiving one dose of convalescent plasma (CP) for mild COVID-19 illness prevents

Lisa H. Merck- page #13 Last updated 3/1/25

> illness progression. 7/1/20 - 12/31/22

NIH NHLBI NINDS U24NS100659, U24NS100655 (MPI: Callaway;

Durkalski-Mauldin; Korley, MD, PhD) Direct cost: per patient reimbursement Role: Site Principal Investigator

A Phase 2/3 Randomized, Placebo-Controlled, Double-Blind Clinical Study to Evaluate 2020 - 2021

the Efficacy, Safety, and Pharmacokinetics of MK-4482 in Hospitalized Adults with

COVID-19 (MK-4482)

Merck, Sharp, & Dohme Corp 10/23/2020-10/22/2021

Direct Cost: Per pt reimbursement

Role: Site Co-investigator

2020 - 2021A Randomized Controlled Trial of Losartan with COVID-19 (ALPS-COVID)

Bill and Melinda Gates Foundation (Tignanelli and Puskarich)

University of Minnesota, IND 148365

4/15/20 - 5/15/21

Total Award: per pt reimbursement Direct cost: per pt reimbursement Role: Site Principal Investigator

2020 - 2021A Phase 3, Randomized, Double-Blind, Placebo-Controlled, Multicenter Study to

Assess the Efficacy and Safety of Ruxolitinib in Participants With COVID-19-

Associated ARDS Who Require Mechanical Ventilation (RUXCOVID-DEVENT)

Incyte Corporation: INCB018424-369

5/24/20 - 4/30/21

Direct cost: per pt reimbursement Role: Site Principal Investigator

2020 - 2021R10933-10987-COV-2067: A Master Protocol Assessing the Safety, Tolerability, and

Efficacy of Anti-Spike (s) SARS-CoV-2 Monoclonal Antibodies for the Treatment of

Ambulatory Patients with COVID-19

Regeneron Pharmaceuticals: Grant #: HHSO100201700020C

10/1/20 - 3/31/21

Total Award: Per pt reimbursement

Role: Site Co-investigator

2018 - 2020Artificial 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 - 04/30/2020Role: Principal Investigator

2020 - 2021Preventing COVID-19 Infections: Healthcare Worker Exposure Response and

Outcomes (HERO) Registry and Hydroxychloroquine (HERO-HCQ) Trial

PCORI COVID 19-2020-001 (Adrian Hernandez)

3/31/20 - 6/30/21

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Role: Site Principal Investigator, Publications Committee

2017 – 2020 Established Status Epilepticus Treatment Trial (ESETT)

NIH / NINDS 1U01NS088034 (Kapur)

09/30/2014 - 08/31/20

Direct cost/year: per patient enrollment

This study is designed to determine the most effective and/or the least effective treatment of ESE among patients older than two years by comparing three arms:

fosphenytoin (FOS), levetiracetam (LEV), and valproic acid (VPA).

Role: Site Principal Investigator (effort per pt enrollment)

2018 – 2019 Tufts Clinical and Translational Science Institute

NIH/NCATS UL1TR002544 (Selker) NIH Sub 102188-00001(Merck)

Chair, Tufts Clinical and Translational Research Institute, Emergency Medicine

**Expert Panel** 

09/01/2018-04/30/2023 Role: Co-Investigator

2018 – 2019 The ACCESS Trial, Access to the cardiac catheterization laboratory in

patients without ST-segment elevation myocardial infarction resuscitated from out-of-

hospital ventricular fibrillation cardiac arrest

NIH/NHLBI 5U01HL133818-02 (Aufderheide and Yannopoulos)

9/15/2016-5/31/2021

Direct cost/year: per patient enrollment

Determine survival to hospital discharge with Modified Ranking Scale Score  $\leq$  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 TMfor 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 1UO1NS092076-01A1 (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.

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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 InteliSport: Musculoskeletal and Closed Head Injury Prevention in Athletic Training

Intel Corporation (Merck, L) 08/01/2014 – 04/01/2015 Role: Principal Investigator

2011 – 2012 Informed Consent for Computerized Tomography

Supported in part by PHS Grant UL1 RR025008 (Merck)

Clinical and Translational Science Award Program National Institutes of Health,

National Center for Research Resources

08/01/2011 – 08/01/2012 Role: Principal Investigator

2010 – 2012 High-Dose Albumin Therapy for Neuroprotection in Acute Ischemic Stroke (ALIAS) NIH

/ U01NS040406 (Ginsberg) 07/01/2000 – 05/31/2015

Direct Cost/year: per-patient payments Role: Emory Site Co-Investigator

2009 – 2012 Neurological Emergency Treatment Trial Network (NETT)

NIH / U10NS059032 (Wright) 01/01/2009 – 05/31/2017

The major goal of this project is to build a research network of investigators at metro-Atlanta hospitals for clinical trials to develop effective treatments for patients with neurological emergencies.

Role: Co-Investigator, NETT-SEC

2009 – 2012 Traumatic Brain Injury Studies at Grady Memorial Hospital

DoD W81XWH-09-2-0145 (Haley)

09/1/2009 - 4/20/2011 (NCE)

Department of Defense, Telemedicine and Advanced Technology Research Center

1. Investigation and Comparison of DETECT, ANAM, and Neuropsychological Testing in the Detection of Mild Traumatic Brain Injury

2010 – 2011 Rapid Anticonvulsant Medications Prior to Arrival Trial (RAMPART)

NIH / U01NS056975 (sub-award with University of Michigan)

08/01/2007 - 05/31/2015

Direct Cost/year: per patient payment

Role: Emory Site Co-Investigator (indirect support via NETT award)

# OTHER RESEARCH EFFORT & RESEARCH EFFORT IN KIND:

2025 –	Collaborator, Canadian Institutes of Health Research, Sustaining and Expanding the Canadian Emergency Department Research Network to Improve Pandemic and Health Emergencies Preparedness, <i>proposal in review</i>
2020 – 2022	Determination of risk factors and clinical course for infection with coronavirus or other possible emerging pathogens that may be identified concurrently Role: PI First Responder COVID Testing, University of Florida, Gainesville
2012 – 2016	Prognosis and Decision Making in Intracerebral Hemorrhage: Family Perspectives. NIH 1K23AG038731-01A1 (University of Michigan) Role: Site Co-Investigator
2009 – 2011	Utilization of Informed Consent for Computerized Tomography. Emory University School of Medicine, Departments of Emergency Medicine and Radiology, Atlanta, Georgia
2006 – 2008	Effect of Emergency Department overcrowding on time to critical testing: EKG and Head CT. University of North Carolina at Chapel Hill, Department of Emergency Medicine, Chapel Hill, North Carolina
2005 – 2006	Evaluation of subdural hematoma in the neonatal population. University of North Carolina at Chapel Hill, Department of Computer Science/Medical Imaging, Neurodevelopment, Chapel Hill, North Carolina
2005 – 2006	Three-dimensional imaging of the neonatal brain. University of North Carolina at Chapel Hill, Department of Computer Science/Medical Imaging, Neurodevelopment, Chapel Hill, North Carolina
2002 – 2005	The development of myelomeningocoele in post-operative tethered cord patients, a review of the literature. Duke University Medical Center, Durham, North Carolina
1999 – 2002	Chiari-pseudotumor Syndrome. Clinical Research Extern- Section of Pediatric Neurosurgery, The University of Chicago Children's Hospital, Chicago, Illinois
2001 – 2002	MPH Thesis- Asthma Protocols in an Urban Emergency Department. Mount Sinai Hospital, Chicago, IL and the Oregon Health and Sciences University, Portland, OR
1996 – 1998	Clinical case and research assistant- Department of Neurological Surgery, Oregon Health and Sciences University, Portland, Oregon
1997 – 1998	Cognitive effects of cerebral spinal fluid shunt failure in hydrocephalic children. Epidemiology and Biostatistics Intern- Department of Neurological Surgery, Oregon Health and Sciences University, Portland, Oregon
1997 – 1998	Expansion of dialysis parameters in End-Stage Renal Disease. Epidemiologic Consultant- Optimal Renal Care, Southern California Kaiser Permanente

	Medical Group, and the Health Care Financing Administration
1996 – 1997	Breast and Cervical Cancer Project. Research Assistant- Multnomah County Health Department, Portland, Oregon
1996 – 1997	Review of HIV legislation on identification and treatment of high-risk pediatric populations in California and Oregon. Research Assistant- Multnomah County Health Department, Portland, Oregon

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- 1. George, T.M., **Fagan L.H.**, Adult tethered cord syndrome in patients with post-repair myelomeningocele: an evidence-based outcome study. *J. Neurosurgery: Ped* 102:150-156, 2005. PubMed PMID: 16156223.
- 2. **Fagan LH**, Ferguson S, Yassari R, Frim DM. The Chiari pseudotumor cerebri syndrome: symptom recurrence after decompressive surgery for Chiari malformation type I. *Pediatric Neurosurgery*. 2006;42(1):14-9. PubMed PMID: 16357496.
- 3. Looney CB, Smith JK, Merck LH, Wolfe HM, Chescheir NC, Hamer RM, Gilmore JH. Intracranial hemorrhage in asymptomatic neonates: prevalence on MR images and relationship to obstetric and neonatal risk factors. *Radiology*. 2007 Feb; 242(2):535-41. PubMed PMID: 17179400.
- 4. **Merck LH**, Hauck MG, Houry DE, Lowery-North DW, Hemphill RR, Applegate KE. Informed Consent for Computed Tomography. *American Journal of Emergency Medicine*. 2011 Feb;29(2):230-2. Epub 2010 Nov 5. PubMed PMID: 21115314.
- 5. American College of Surgeons Trauma Quality Improvement Program Guidelines, Traumatic Brain Injury. H Gill Cryer MD FACS, Geoffrey T Manley MD PhD FACS, P David Adelson MD PhD FACS, Aziz S Alali MD, J Forrest Calland MD FACS, Mark Cipolle MD PhD, Christopher Cribrari MD FACS, Matthew L Davis MD FACS, Mark R Hemmila MD FACS, J Claude Hemphill MD, Michael Huang MD, Randeep Jawa MD, Todd Kilbaugh MD, Rosemary Kozar MD FACS, Andrew IR Maas MD PhD, Lisa H Merck MD MPH FACEP, Avery B Nathens MD FACS, Claudia Robertson MD, Phiroz Tarapore MD, Shelley Timmons MD PhD, Jamie Ullman MD, Alex Valadka MD, David W Wright MD FACEP. Committee on Trauma Expert Panel 1/2015, American College of Surgeons.

  https://www.facs.org/~/media/files/quality%20programs/trauma/tqip/traumatic%20brain%20in jury%20guidelines.ashx
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- 7. David W Wright MD, Sharon D Yeatts PhD, Robert Silbergleit MD, Yuko Y Palesch PhD, Vicki S Hertzberg PhD, Michael Frankel MD, Harriet Howlett-Smith RN, Erin M Bengelink MA,

- Geoff Manley MD PhD, **Lisa H Merck MD MPH**, Scott Janis PhD, William Barsan MD. Very Early Administration of Progesterone for Acute Traumatic Brain Injury. *New England Journal of Medicine*, published first online, 12/10/2014 DOI: 10.1056/NEJMoa1404304.
- 8. Joseph B Miller MD MS, Laura Heitsch MD, Matthew S Siket MD MS, Jon W Schrock MD, Charles R Wira III MD, Christopher Lewandowski MD, Tracy E Madsen MD ScM, **Lisa H Merck MD MPH**, David W Wright MD. The 2015 ACEP Clinical Policy on tPA for Stroke: What is Best for Our Patients? Efficacy in the First Three Hours. *Academic Emergency Medicine*, published first online 6/26/15 ISSN 1069-6563 1 doi: 10.1111/acem.12712 PII ISSN 1069-6563583. PubMed PMID: 2611336
- 9. Hemal K Kanzaria MD MSHPM, Aileen McCabe, Zachary Meisel MD MPH MSc, Annie LeBlanc PhD, Jason T Schaffer MD, M. Fernanda Bellolio MD, William Vaughan, Lisa H Merck MD MPH, Kimberly E Applegate MD MS, Judd E Hollander MD¹, Corita R Grudzen MD MSHS¹, Angela M Mills MD, Christopher R Carpenter MD MSc, and Erik P Hess MD MSc. Advancing Patient-Centered Outcomes in Emergency Diagnostic Imaging: A Research Agenda. *Academic Emergency Medicine*, Volume 22, Issue 12, pages 1435–1446, December 2015, published first online 11/2015 DOI:10.1111/acem.12832 2015. PubMed PMID: 26574729.
- 10. Amber K Sabbatini MD, **Lisa H Merck MD MPH**, Adam Froemming MD, William Vaughan, Michael D Brown MD MSc, Erik P Hess MD MSc, Kimberly Applegate MD, Nneka Comfere MD. Patient-Centered Communication and Multidisciplinary Care Coordination in Emergency Diagnostic Imaging: A Research Agenda. *Academic Emergency Medicine*, Volume 22, Issue 12, December 2015, Pages: 1427–1434; published first online 11/2015 DOI:10.1111/acem.12832 2015. PubMed PMID: 26575785.
- 11. **Lisa H Merck MD MPH**, Laura Ward MSPH, Esther Choo MD MPH, Kimberly Applegate MD MS, Douglas Lowery-North MSPH, Katherine Heilpern MD. Written Informed Consent for Computed Tomography of the Abdomen/Pelvis is Associated with Decreased CT Utilization in Low-Risk Emergency Department Patients. *Western Journal of Emergency Medicine: Integrating Emergency Care with Population Health* (WestJEM), Vol XVI no 7 Dec 2015. <a href="http://escholarship.org/uc/item/7t36f8dt">http://escholarship.org/uc/item/7t36f8dt</a>. 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.00000000000000178.
- 13. Joseph Miller MD MS, Lisa H Merck MD MPH, Charles R Wira MD, William J Meurer MD MS, Jon W Schrock MD, Jason T Nomura MD, Matthew S Siket MD MS, Madsen TE, MD ScM, David W Wright MD, Peter D Panagos MD, Christopher Lewandowski MD, The Advanced Reperfusion Era: Implications for Emergency Systems of Ischemic Stroke Care. *Annals of Emergency Medicine*. 9/3/2016, e-published ahead of print: DOI: 10.1016/j.annemergmed.2016.06.042.
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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: <a href="http://dx.doi.org/10.1080/10903127.2017.1315201">http://dx.doi.org/10.1080/10903127.2017.1315201</a>.

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- 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.000000000000339. PMID: 30407958; Epublished 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.
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- 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.

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- 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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- 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. <a href="https://coi.org/10.7301/Z0PZ56R5">https://coi.org/10.7301/Z0PZ56R5</a>; <a href="https://cropository.library.brown.edu/studio/item/bdr:697317/">https://cropository.library.brown.edu/studio/item/bdr:697317/</a>
- 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. *Acad Emergency Medicine* 5/2010, 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 S1 pg:S192-S192.

- 9. Sex Differences in Clinical Presentation and Outcome: Patients Admitted to a Transient Ischemic Attack Emergency Department Observation Unit. Tracy E Madsen, **Lisa H Merck**, Matthew S Siket, Gino Paolucci, My T Tran, Brian Silver. *Stroke*, 2015; 46:ATP217.
- David M Frim MD PhD, Joseph MR Madsen MD for the Shunt Check 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 RN 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
- 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.

<u>Video:</u> 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 DM, **Fagan LH**. 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 CB, Smith JK, **Fagan LH**, Hamer RM, Gilmore JH. 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.
- Owen Leary\*, **Lisa H Merck MD MPH**\*, David W Wright MD, Maria Braileanu MD, Scott Collins RT(R)(CT), Jason W Allen MD PhD, Sharon Yeatts PhD, Derek Merck PhD. 3D Illustration to Quantify Volume of Traumatic Intraparenchymal Hemorrhage. \*Lisa H Merck is supervising first author. World Intracranial Hemorrhage Conference; Baltimore Maryland, May 2017.
- 25. 2017 Kobayashi L, Collins S, **Merck LH**, Merck DL. Exploratory Applications of Augmented Reality for Patient Education in Emergency Medicine. Society for Academic Emergency Medicine, National Conference; Orlando, Florida, May 2017.
- 26. 2017 Derek Merck PhD, David W Wright MD, Owen Leary, Sean O'Donnell, Scott Moody, Maria Braileanu MD, Scott Collins RT(R)(CT), Jason W Allen MD PhD, Kurt R Denninghoff MD, Sharon Yeatts PhD, **Lisa H Merck MD MPH.** 3D Illustration Offers a More Precise Method to Quantify Bleed Volume after Traumatic Brain Injury when Compared to Standard Methods. Society for Academic Emergency Medicine, New England Research Directors Regional Conference; Worcester, MA. April 2017.
- 27. 2017 Kurt Denninghoff, Tomas Nuño, Qi Pauls, Sharon D Yeatts, Robert Silbergleit, Yuko Y Palesch, Lisa H Merck, Geoff Manley, and David W Wright. Pre-hospital intubation is associated with favorable outcomes and lower mortality in ProTECTIII Trial. Society for Academic Emergency Medicine, Western Regional Conference; Stanford, CA. April 2017.
- 28. 2017 Kurt Denninghoff, Tomas Nuño, Qi Pauls, Sharon D Yeatts, Robert Silbergleit, Yuko Y Palesch, Lisa H Merck, Geoff Manley, and David W Wright. Pre-hospital intubation is associated with favorable outcomes and lower mortality in ProTECTIII Trial. Society for Academic Emergency Medicine, National Conference; Orlando, Florida. May 2017.
- 29. 2017 Keshavamurthy, Krishna Nand, Owen Leary, **Lisa H Merck**, Benjamin Kimia, Scott Collins, David W Wright, Jason Allen, and Derek Merck. Machine Learning Algorithm for Automatic Detection of CT-Identifiable Hyperdense Lesions Associated with Traumatic Brain Injury. Poster presentation, Mind/Brain Research Day, Brown University, Providence, RI, March 2017.

30. 2017 Leary, Owen\*, **Lisa Merck**\*, David Wright, Maria Braileanu, Scott Collins, Jason Allen, Sharon Yeatts, and Derek Merck. 3D Illustration to Quantify Volume of Traumatic Intraparenchymal Hemorrhage. Poster presentation, Mind/Brain Research Day, Brown University, Providence, RI, March 2017. \*supervising first author

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

39. 2019 Efficacy of Computed Tomography Use in Assessing Traumatic Brain Injury in Adult and Pediatric Patients. Taneisha Wilson, **Lisa H Merck**, Marc Zonfrillo, John Movson, Derek Merck. New England Regional Meeting of the Society for Academic Emergency Medicine, Worcester, MA, 3/2019.

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

49. 2021 Deployment of Novel SARS-CoV-2 Testing in First Responders, Front Line Providers, and Essential Personnel During the COVID-19 Pandemic. C Montero, M Balakrishnan, J Loeb, R. Cueto, MT Long, J Lednicky, DAT Cummings, J Morris, K Cherabuddi, A Tyndall, LH Merck. EPI Research Day, Virtual Conference, University of Florida.

- 50. 2021 Perception of access to personal protective equipment in first responders and essential workers across North Florida. J Antoine, A Zeinomar, M Beck, M Solly, C Montero, M Balakrishnan, M Chowdhury, K Cherabuddi, J Morris, A Tyndall, **LH Merck**. American Public Health Association, October, 2021 Denver CO.
- 51. 2021 Epidemiology of SARS-CoV-2 in First Responders and Essential Personnel across North Florida. M Balakrishnan, C Montero, J Loeb, M Chowdhury, M Solly, MT Long, L Bryan, J Lednicky, DAT Cummings, J Morris, K Cherabuddi, A Tyndall, **LH Merck**. American Public Health Association, October 2021 Denver, CO.
- Association of Craniotomy, Decompressive Hemicraniectomy, and External Ventricular Drain (EVD) Placement with Patient Mortality and 6-Month Functional Outcome Following Moderate to Severe TBI: Secondary Analysis of the ProTECTIII Dataset. Leary O, Harder T, Yang Z, Lucke-Wold B, Still M, Zhang M, Yeatts S, Wright D, Merck D, Merck L. June 2022 Atlanta, GA, National Neurotrauma Society and AANS/CNS Joint Section on Neurotrauma and Critical Care.
- A Highly Scalable & Cost-Effective Sampling & Testing Solution for Brain Health & Injury. Devin Jackson, James Meabon, Elizabeth Colasurdo, Kristy Radeker, Anthony Adelizza, Katie Tehas, Ava Puccio, Raquel Gardner, John Williamson, Owen Leary, Tyler Harder, Radina L Lilova, Lisa H Merck, Amber Salter, Jeff Illiff, Elaine Peskind, Kevin Wang, and William Haskins. June 2024 San Francisco, CA, National Neurotrauma Society Symposium and American Association of Neurological Surgeons/CNS Joint Section on Neurotrauma & Critical Care.
- Association of diffuse axonal injury with outcome in moderate to severe traumatic brain injury patients. Radina L Lilova, Owen P Leary, Tyler J Harder, David W Wright, and **Lisa H Merck.** Presentation, Sept 2024, International Neurotrauma Society, Cambridge, UK.
- Association of diffuse axonal injury with outcome in moderate to severe traumatic brain injury patients. Radina L Lilova, Owen P Leary, Tyler J Harder, David W Wright, and **Lisa H Merck.** Presentation, Oct 2024, Neurocritical Care Society, San Diego, CA.
- Novel Blood Biomarkers of Diffuse Axonal Injury in Moderate-Severe Traumatic Brain Injury Patients. Radina L. Lilova BS, Devin Jackson PhD, Katie Tehas BS, Owen P. Leary BS, Tyler J. Harder MD MS, David W. Wright MD, Amber Salter PhD, William Haskins PhD, Lisa H. Merck MD MPH. Late-breaking presentation, Oct 2024, Neurocritical Care Society, San Diego, CA.
- 57. 2025 Blood Biomarkers are Related to Isolated Diffuse Axonal Injury and Patient Outcomes. Radina L Lilova BS; Devin Jackson PhD; Owen P Leary, BS; Tyler J Harder, MD MS; Katie Tehas, BS; David W Wright MD; Amber Salter PhD; William Haskins, PhD; Lisa H Merck MD MPH.

  \*\*Accepted for presentation\*, Feb 2025, Society for Critical Care Medicine, Critical Care Congress, Orlando, FL.

The Highlights and Hiccups of High-Density Data. Johnathan Beall, Sharon Yeatts, Ezekiel Lowelle, Jean-Christopher Arnaud, **Lisa H. Merck**. *Accepted for presentation*, Society for Clinical Trials's 2025 Annual Meeting, May 18-21 Vancouver, British Columbia, Canada.

- Value of TriNetX national database to inform characteristics of observation patients assessed for acute syncope. Sreedhatri Kandlakunta BS, **Lisa H. Merck MD MPH**, Megan Donohue MD MPH. *Accepted for presentation*, Association for Clinical and Translational Science, Translational Science 2025, April 15,16, Washington, DC.
- 60. 2025 Diabetic Ketoacidosis Patients Under Observation: Comparing Discharged and Admitted Patients Using TriNetX. Nancy Marie C. Beinlich BS, Lisa H. Merck MD MPH, Megan P. Donohue MD MPH. Accepted for presentation, Society for Academic Emergency Medicine, Philadelphia, PA, May 2025.

#### **SEMINARS & LECTURES:**

#### **International:**

Journal Club, *Society for Critical Care Medicine*. **Lisa H Merck MD MPH FACEP**, "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.

The Highlights and Hiccups of High-Density Data. Johnathan Beall, Sharon Yeatts, Ezekiel Lowelle, Jean-Christopher Arnaud, **Lisa H. Merck**. *Accepted for presentation*, Society for Clinical Trials's 2025 Annual Meeting, May 18-21 Vancouver, British Columbia, Canada.

#### 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.
13. 2021	Special Considerations in Traumatic Brain Injury. Grand Rounds, Virginia Commonweath University, Richmond, VA. October 10, 2021.
14. 2023	Seminar Director and Faculty, NIH SIREN Research Fellow Didactic National Lecture Series (monthly occurrence)
15. 2023	CFR 50.24 Exception from Informed Consent, lecture to the NIH SIREN Research Fellow Didactic National Lecture Series.
Regional:	
1. 2009	Traumatic Brain Injury, An Overview. Lecture, Georgia College of Emergency Physicians, Regional Annual Meeting, June 2009, Hilton Head, South Carolina.
2. 2010	Clinical Heterogeneity in the Treatment of Traumatic Brain Injury at Level I Trauma Centers. Plenary Session, Southeastern Society for Academic Emergency Medicine, Feb 2010, Birmingham, Alabama.
3. 2020	T Yi, I Pan, F Chen, R Cueto, S Collins, J Smith, H Bai, D Merck, L Merck. Identification of Intracranial Hemorrhage Using an Original Artificial Intelligence System. New England Research Directors Regional Meeting 2020, Worcester, MA.

4. 2020	Florida Medical School Virtual Research Symposium. Epidemiology of COVID-19 in First Responders & Front-Line Providers. <b>Lisa H Merck MD MPH</b> , J Glenn Morris MD MPH & TM, Derek Merck PhD, Julia Gibson BS, Cindy Montero MS, John Lednicky 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 Med, Nicole Iovine MD PhD, Kartik Cherabuddi MD, Adrian Tyndall MD MPH. 6/10/20, Virtual Symposium.
5. 2023	TBI Management and the BOOST3 Clinical Trial (NALS/Trauma), EMS Continuing Education Virtual Instructor Lead Training, State of Virginia.
6. 2024	Approaches to TBI: BLS/ALS/ATLS. EMS Continuing Education Virtual Instructor Lead Training, State of Virginia.
<u>Local:</u>	
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
28. 2013	Rhode Island Hospital.  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, <b>Merck L</b> , 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. <b>Merck L</b> 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. <b>Merck L</b> and Jay G. Research Curriculum Course, for graduate medical education fellow with Brown University, Department of Emergency Medicine Brown University, Providence, Rhode Island.
39. 2018	Traumatic Brain Injury: Special Considerations in Clinical Research. Resident education lecture, Department of Emergency Medicine Brown University, Providence, Rhode Island.
40. 2019	Exception from Informed Consent, Special Considerations in Emergency Research. University of Florida Institutional Review Board, Annual Retreat, Gainesville, Florida.
41. 2020	SIREN Steering Committee Annual Meeting, Electronic Data Capture Working Group Summary. Clearwater, Florida.
42. 2020	Influence of cooling duration on efficacy in cardiac arrest patients (ICECAP), Investigator Meeting. Ancillary Study Presentation: Clinical Imaging and Data Research Repository (CIDRR), Clearwater, Florida.
43. 2020	Traumatic Brain Injury: Special Considerations in Clinical Research. Resident education lecture. Department of Emergency Medicine University of Florida at Gainesville.

44. 2020	Seminar, Clinical and Translational Science Institute: Translational Science of COVID-19: Epidemiology of COVID-19 in First Responders and Frontline Providers. University of Florida, Gainesville.
45. 2021	Special Considerations in Acute Traumatic Brain Injury Research, Lisa Merck, Christopher Robinson, Carolina Maciel. The University of Florida Brain Center, Brain Building Lecture Series, University of Florida, Gainesville.
46. 2022	Research Introduction, Emergency Medicine Residency Lecture, Virginia Commonwealth University, Richmond, VA.
47. 2022	Informed Consent in Emergency Clinical Research, VCU Human Research Protection Program, Virginia Commonwealth University, Richmond, VA.
48. 2022	All Fellows Education Series, Speaker Panel: The Science and Art of Promotion in Academics. VCU Health Systems, Virginia Commonwealth University, Richmond, VA
49. 2023	Exception from Informed Consent, CFR50.24, Emergency Medicine Resident Conference, Virginia Commonwealth University, Richmond, VA
50. 2023	Traumatic Brain Injury, Emergency Medicine Resident Conference, Virginia Commonwealth University, Richmond, VA
51. 2023	The BOOST3 Clinical Trial, Surgical Trauma Attending Conference, Virginia Commonwealth University, Richmond, VA
52. 2023	Acute Care Clinical Trial Execution, TBI, CCTR801 Clinical Practicum Lecture, Virginia Commonwealth University, Richmond, VA
53. 2024	Emergency Medicine Research and CFR50.24 Exception from Informed Consent. Lecture to Pediatric Emergency Medicine Fellows, Virginia Commonwealth University, Richmond, VA
54. 2025	Mindfulness in Designing Clinical Trials for Populations with High Phenotypic Variability. Center for Rehabilitation Science and Engineering Research Grand Rounds, Virginia Commonwealth University, Richmond, VA

### **Seminar Director:**

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

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

2022 – current	Professor of Emergency Medicine Vice Chair of Research, Department of Emergency Medicine Assistant Dean, Acute Care Research & Clinical Trials, College of Medicine Medical Director, Acute Clinical Research, Virginia Commonwealth University Health Systems
2019 – 2022	Associate Professor of Emergency Medicine Affiliate Associate Professor of Neurology   Neurocritical Care Affiliate Associate Professor of Health Outcomes and Biomedical Informatics University of Florida at Gainesville, College of Medicine
2019 – current	Adjunct Associate Professor of Neurosurgery Alpert Medical School, Brown University, Providence, RI
2023 – current	Lead faculty/Director: Research, Education, and Mentorship cycle (the <i>REM</i> cycle). The <i>REM</i> cycle is a collaboration between trainees / principal investigators to facilitate cross-campus research and mentorship. Weekly didactic and project driven meetings are inclusive of participants from undergraduate, graduate, and medical school campuses.
2023 – current	Seminar Director and Faculty: SIREN Calls – a national monthly didactic series for early-stage investigators, fellows, and collaborators within the U01 SIREN clinical trial network (NIH Network for Emergency Care Clinical Trials: Strategies to Innovate EmeRgENcy Care Clinical Trials Network).
2023 – current	Lecturer, <i>Research Incubator</i> . Monthly emergency medicine resident, fellow, and medical student didactic series in research education, VCU, Richmond, VA
2022 – current	Faculty, Senior Emergency Medicine Clerkship, MEDI-42004, Emergency Medicine – AI, Department of Emergency Medicine, VCU, Richmond, VA
2023 – 2024	Faculty Mentor, Honors Summer Undergraduate Research Program, Wright Center for Clinical and Translational Research, VCU, Richmond, VA
2019 – 2021	Adjunct Associate Professor of Emergency Medicine, Neurosurgery, and Diagnostic Imaging Alpert Medical School, Brown University, Providence, RI
2019 – 2022	Faculty, Senior Emergency Medicine Clerkship MDC7710 University of Florida College of Medicine, Gainesville, FL
	Class section: 345G Class section: 3472 Class section: 347D Class section: 347H
2018 – 2019	Associate Professor of Emergency Medicine, Neurosurgery, and Diagnostic Imaging Alpert Medical School, Brown University, Providence, RI
2017 – 2018	Assistant Professor of Emergency Medicine, Neurosurgery, and Diagnostic Imaging Alpert Medical School, Brown University, Providence, RI

2016 – 2019	Director, Translational Research in Medicine, Scholarly Concentration Alpert Medical School of Brown University, Providence, RI
2018 – 2019	Clinical Instructor, Med Ed BIOL3640 and Med Ed BIOL3650 Doctoring Course, Preclinical program designed to combine instruction and assessment in both clinical skills and professional development.  Alpert Medical School of Brown University, Providence, RI
2012 – 2017	Assistant Professor of Emergency Medicine and Diagnostic Imaging Alpert Medical School, Brown University, Providence, RI
2017	Instructor, Lifespan Medical Simulation Center, Code / Cardiopulmonary Arrest Response Training. Alpert Medical School of Brown University, Providence, RI
2015	Instructor, Clinical Skills Doctoring Course, Clinical Skills Assessment, Lumbar Puncture Session. Alpert Medical School of Brown University, Providence, RI
2014	Instructor, Medical Student Suturing Laboratory. Alpert Medical School of Brown University, Providence, RI
2014	Oral Board Examiner, Resident Physician Oral Board Exams. Alpert Medical School of Brown University, Providence, RI
2013	Oral Board Examiner, Resident Physician Oral Board Exams. Alpert Medical School of Brown University, Providence, RI
2010 – 2011	Instructor, Safe a Life and Protect Your Own Emory University School of Medicine, Atlanta, Georgia
2009	Instructor, Resident Airway Course, Emergency Medicine Residency Emory University School of Medicine, Atlanta, Georgia
2009 – 2012	Instructor, Procedural Skills in Emergency Medicine Emory University School of Medicine, Atlanta, Georgia

### **Academic Mentees:**

2023-current

Michael Joyce MD, Associate Professor of Emergency Medicine, Virginia Commonwealth University. SIREN Fellow, NIH Clinical Trial Execution in ICECAP, BOOST3, and DoD sponsored BioBOOST.

2023-2024: Emergency Medicine Faculty

■ Fellow, SIREN | CORE-EM Hub Alliance in the Network for Emergency Care Clinical Trials: Strategies to Innovate EmeRgENcy Care Clinical Trials Network (SIREN) NIH NHLBI NINDS U24NS100673-06 (MPIs: Merck- contact, Wright, Papa, Selker, Mosier, Jones)

2023 – current

Megan Donahue MD MPH, Assistant Professor of Emergency Medicine, Virginia Commonwealth University. SIREN Fellow, NIH Clinical Trial Execution in ICECAP, POSTICECAP, & BOOST3.

2023-2024: Emergency Medicine / Internal Medicine Faculty

- 2023 Fellow, SIREN | CORE-EM Hub Alliance in the Network for Emergency Care Clinical Trials: Strategies to Innovate EmeRgENcy Care Clinical Trials Network (SIREN) NIH NHLBI NINDS U24NS100673-06 (MPIs: Merck- contact, Wright, Papa, Selker, Mosier, Jones).
- 2024 AAMC Early Career Women Faculty Leadership Development Seminar
- <u>2024 Public Health Institute Fellowship with Access Bridge</u>, Initiation of female contraception programs in the emergency department setting.

2022 – current

Stephanie DeMasi MD, Assistant Professor of Emergency Medicine, Critical Care Fellow, Virginia Commonwealth University; NIH Clinical Trial Execution in ICECAP & BOOST3.

2023: Emergency Medicine Faculty, Vanderbilt University.

- T32 NIH NIGMS: Investigation of the Ideal Neuromuscular Blocking Agent for Rapid Sequence Intubation.
- 2022 current

Ridina Lilova MS3G2, VCU MD PhD Trainee, Medical Scientist Training Program, Mentorship in clinical trial design for studies of traumatic brain injury and research ethics (CFR 50.24 EFIC). Mentorship in biomarker analyses of phenotype of TBI, such as diffuse axonal injury.

2024 - current

Rachel Mueller, Research Assistant / mentee in clinical research execution across critical care and neurological emergencies. Matriculated to Virginia Commonwealth University School of Dentistry, 2024.

2022 – current

Naomi Carter MS3G1, VCU MD PhD Trainee, Medical Scientist Training Program, Mentorship in clinical trial design, execution, and research ethics (CFR 50.24 EFIC).

2022 - current

Noah Hillerbrand MD Emergency Medicine Resident, PGY3, VCU Resident Trainee, Mentorship in clinical trial design, execution, and research ethics (CFR 50.24 EFIC). Matriculating to VCU Anesthesia / Critical Care Fellowship, 2025.

2018 - 2021

Fiona Chen MD <u>Medical School:</u> Brown University, Providence, RI MD '21 <u>Translational Research in Clinical Medicine Scholarly Concentration</u>, Mentee 2018-2021 <u>Emergency Medicine Residency</u>: Emergency Medicine, UCSF

- 2018 T35 HL094308 NIH National Heart, Lung, Blood Institute.
   Project: Identifying Radiographic Biomarkers for the Prognostication of Traumatic Brain Injury.
- 2019 1rst place: Brown Emergency Medicine Research Symposium. The Relationship Between Magnitude of International Normalized Ratio and Outcome after Traumatic Brain Injury.
- <u>2021 Dr Alexander Greene Medical Student of the Year Award:</u> Emergency Medicine Resident Association, SAEM.

2018 – current

Tyler Harder MS; MD, Harvard Affiliated Emergency Medicine Residency at Beth Israel Deaconess Medical Center, Boston, MA (current).

Clinical Research Mentee, 2018-current

Research Assistant, 2018 - 2019

<u>Medical School:</u> Alpert Medical School of Brown University, Providence, RI '23 Translational Research in Clinical Medicine Scholarly Concentration:

 2020 Research Award: Critical Care Congress, Society of Critical Care Medicine, Orlando, FL 2/2020: Patient-Specific Prognostication After TBI Is Related to Bleed Phenotype and Anatomic Location.

2015 – current

Owen Leary BS; MD PhD candidate '28

<u>Program for Liberal Medical Education</u>, Brown University, Providence, RI <u>Medical School:</u> Warren Alpert Medical School of Brown University, Providence, RI Translational Research in Clinical Medicine Scholarly Concentration:

- 2020 Research Award: Critical Care Congress, Society of Critical Care Medicine, Orlando, FL 2/2020: Outcome Prediction with Computer-Assisted Volumetry and ABC/2 in Traumatic Intra-Axial Hemorrhage.
- 2019 First Place, Trainee Competition Winner Best Poster on Cranial Trauma AANS/CNS Joint Section on Trauma and Critical Care: Volume of SDH & EDH Measured by Computer-Assisted Estimation Is More Predictive of Mortality and Functional Disability than ABC/2, National Neurotrauma Society, Pittsburgh, PA.

2020 - 2022

Carolina B. Maciel MD MSCR, Assistant Professor of Neurology and Neurosurgery, University of Florida at Gainesville.

- American Heart Association Innovative Project Award, 11/2020, VIGAB STAT Feasibility of delivering vigabatrin (VGB) within 48 hours of onset of post-anoxic status epilepticus due to cardiac arrest.
- NINDS R25, Clinical Trials Methodology Course Cohort, University of Michigan, 2021. VIGAB STAT Phase IIb planning

2021 - 2022

Torben Becker MD PhD, Assistant Professor of Emergency Medicine and Critical Care Medicine, University of Florida at Gainesville.

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

2018 - 2019

Ian Pan, MD

Medical School: Alpert Medical School of Brown University, Providence, RI '20 Residency: Diagnostic Imaging Brigham and Women's Hospital, Boston, MA Translational Research in Clinical Medicine Scholarly Concentration Mentee: Advanced Image Analysis in Traumatic Brain Injury and Stroke. Artificial Intelligence in Medicine.

- 2018 RSNA Trainee Research Prize: Radiologic Society of North America for abstract, Predicting Thyroid Nodule Malignancy with Efficient Convolutional Neural Networks.
- 2018 1rst Place, RSNA Pneumonia Detection Challenge: Drs Ian Pan and Cadrin-Chenevert placed #1 (out of 1,400 submissions from 85 countries).

2019 - 2021

Robert Cueto, MD candidate '25

Research Assistant Mentee 2019 - 2021 Medical school matriculation, 2021, University of Florida, Gainesville, FL 2020 - 2021Miranda Solly MD Medical School: University of Florida at Gainesville. Research in: COVID 19 Epidemiology in First Responders and Front-Line Providers. 2013 - 2018Jena Lerch BSN, PhD Research Assistant Mentee, Brown University (2013 – 2018) BSN, Rhode Island College, 2018 Doctor of Nursing Practice, Florida International University, 2022 2015 - 2016Erin O'Donnell PA Research Assistant Mentee, Brown University (2015-2016). Physician's Assistant, University of Saint Joseph, West Hartford, CT (2019). Hasbro Pediatric Emergency Medicine PA Program, Providence, RI 2014 - 2019Madeline Cosgriff Research Intern, Assistant, & Mentee, Brown University, Providence, RI Project: AI in Pediatric Hydrocephalus. Alpert Medical School of Brown University, Providence, RI 2014 - 2015Michael 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 - 2015My (Virginia) Tran MD Research Assistant Mentee, Brown University Medical School, Harvard Medical School, Boston, MA. Residency Match: Emergency Medicine Highland Hospital, CA 2011 - 2012Michael Holdsworth MD Medical Student mentee, Emory University Project: Use of Informed Consent for Computerized Tomography, Emory University School of Medicine, Atlanta, Georgia. Residency Match: Emergency Medicine/Pediatric Emergency Medicine – University of Maryland Medical Center, Baltimore, MD 2011 - 2012Jordan Kaylor MD Medical Student mentee, Emory University Project: The Effect of Electronic Charting and Physiologic Monitoring on Treatment of Traumatic Brain Injury in an Urban Emergency Department, Emory University School of Medicine, Atlanta, Georgia. Residency Match: Emergency Medicine – Northwestern Memorial Hospital, Chicago, Illinois 2011 - 2012Joshua Keithley MD

Medical Student mentee, Emory University

<u>Project:</u> Use of a Video Educational Module as an Adjunct to Written Informed Consent for Computerized Tomography, Emory University School of Medicine, Atlanta, Georgia. <u>Residency Match</u>: Emergency Medicine – John Peter Smith Hospital, Fort Worth, TX

2010 – 2011 Margaret Gipson MD

Medical Student mentee, Emory University

Project: Informed Consent for Computerized Tomography, Emory University School of

Medicine, Atlanta, Georgia.

Residency Match: Emergency Medicine - Carolinas Medical Center, Charlotte, NC

2010 – 2011 Samuel Chang MD

Medical Student mentee, Emory University

Project: Goal Directed Therapy for Traumatic Brain Injury, Emory University School of

Medicine, Atlanta, Georgia.

Residency Match: Emergency Medicine - Carolinas Medical Center, Charlotte, NC

2009 – 2012 Heather Gunn MD

Emergency Medicine Resident, Emory University School of Medicine, Atlanta, Georgia

#### Research Education & Mentorship (REM) Cycle Student Mentees:

2023 – current Michael Keller (VCU SOM Class of 2027)

Dylan Kelley (MD PhD candidate)

Nikhil Chandravel (VCU SOM Class of 2027) Joanna Le Gallouder (VCU SOM Class of 2027) Sebastian Gutierrez (VCU SOM Class of 2027) Nancy Beinlich (VCU SOM Class of 2027) Radina Lilova (VCU SOM MD/PhD Candidate) Naomi Carter (VCU SOM MD/PhD Candidate) Sreedhatri Kandlakunta (VCU Class of 2023)

Passed

#### **Certification:**

2000

2010 -	Active Board Certification	American Board of Emergency Medicine
2022 -	Active License	Virginia Board of Medicine
2019 -	Active License	Florida Medical Board
2007 -	Active License	North Carolina Medical Board
2008 -	Active License	Georgia Medical Board
2012 - 2020	License	Rhode Island Medical Board
2002	USMLE Step II	Passed

NIH Stroke Scale (NIHSS)

ABCD2 Training

Modified Rankin Scale (mRS)

BLS/ACLS/ATLS/PALS/NALS

Certification

Certification

Certification

USMLE Step I

# **Community Work and Public Service Education:**

2024	Brain Injury Association of Virginia, Community Consultation: Traumatic Brain Injury research and classification updates, Richmond, VA
2023 –	Volunteer, Habitat for Humanity, Richmond, VA
2023	Panelist - Ethics. The Maggie L. Walker Governor's School for Government and International Studies, Honor Council - Richmond, VA
2023	WBTK, Spanish Radio interview Richmond, VA, Mount Rich Media, LLC; Traumatic Brain Injury research in Virginia, The BOOST3 clinical trial at VCU Health System.
2020 - 2022	Elected to serve on the School Advisory Council, Alachua County School District, FL
4/2020	Channel NBC Television Interview COVID-19 Testing initiative for first responders and emergency department employees in North Central Florida
4/2020	Channel ABC Television Interview COVID-19 Testing initiative for first responders and emergency department employees in North Central Florida
4/2020	NPR Radio interview Emergency Medicine COVID Response, and importance of personal protective equipment
12/20/19	NewsRadio WIOD - Radio interview Miami's News, Traffic, and Weather Station Traumatic Brain Injury research in Florida, The BOOST3 clinical trial at Shands Hospital.
2012 - 2015	Town Council: Environmental Conservation Commission, Barrington, RI
12/2015	Providence en Espanol News Article: Exception from Informed Consent and ESETT Rhode Island Hospital y Hasbro Children's Hospital participarán en un ensayo investigativo sobre medicinas anticonvulsivas administradas en salas de emergencia
11/2015	Newport Daily News Clinical Trial Public Service Announcement Exception from Informed Consent and the ESETT clinical trial
11/2015	Rhode Island Medical Journal, Public Service Announcement Exception from Informed Consent and the ESETT Clinical Trial
11/2015	The Independent, Public Service Announcement Exception from Informed Consent and the ESETT Clinical Trial
7/2013	Latino Public Radio, Interview Traumatic Brain Injury and Exception from Informed Consent <a href="http://www.lprri.org/inicio/index.php?categoryid=65&amp;p2">http://www.lprri.org/inicio/index.php?categoryid=65&amp;p2</a> articleid=23534

8/2013	Exception from Informed Consent and Research in Traumatic Brain Injury. Conference with Brain Trauma Survivors, Neurorestorative Care, Charlestown, RI
8/2013	Providence Journal Newspaper Interview
	Traumatic Brain Injury and Exception from Informed Consent Research
8/2013	Channel 10 News, Interview
	Traumatic Brain Injury and Exception from Informed Consent Research
7/2013	Rhode Island Medical Journal
	The ProTECTIII Clinical Trial
	https://www.rimed.org/rimedicaljournal/2013-07/2013-07-55- news-briefs.pdf

# **INDUSTRY CONSULTANT:**

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

### **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