



# Joshua N. Goldstein MD, PhD

Professor of Emergency Medicine

Harvard Medical School

MGH Endowed Chair in Emergency Research

Massachusetts General Hospital

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## Summary

- Experienced academic physician with 15 years of experience providing high quality patient care, teaching fellows, residents, and students
- Experienced speaker –lectures nationally and internationally
- Board Certified (ABEM), ATLS, ACLS, and Disaster Preparedness Certified
- Experience managing a multidisciplinary clinical research program supported by over 10 years of NIH and industry funding.
- Published scholar with over 200 original research articles, abstracts, reviews, and book chapters
- Leadership positions in national organizations such as the American Heart Association and Neurocritical Care Society.

## Education

1992	B.S. (cum laude), Biopsychology, Tufts University
1992-2000	M.D., Ph.D., Molecular Biology and Biochemistry, University of Connecticut
2000-2001	Postdoctoral Fellow, Hemostasis and Thrombosis, Beth Israel Deaconess
2001-2005	Residency, Harvard Affiliated Emergency Medicine Residency Massachusetts General Hospital Brigham & Women's Hospital
2005-2006	Research Fellow, Vascular and Critical Care Neurology Massachusetts General Hospital Brigham & Women's Hospital
2005	Program in Clinical Effectiveness, Harvard School of Public Health
2011	Harvard Medical School Leadership Development Course
2012	NINDS Clinical Trials Methods Course
2015	NINDS Clinical Trials Advanced Methods Course: Adaptive Clinical Trial Design
2017-2018	MGPO Physician Leadership Development Program

## Academic Appointments

2005-2009 Instructor, Harvard Medical School  
2009-2013 Assistant Professor, Harvard Medical School  
2013-2018 Associate Professor, Harvard Medical School  
2018-current Professor, Harvard Medical School  
2018-current MGH Endowed Chair in Emergency Research

## Clinical Appointments

2005-2006 Attending Physician, Department of Emergency Medicine  
Brigham & Women's Hospital  
2006-current Attending Physician, Department of Emergency Medicine  
Massachusetts General Hospital  
2018 Attending Physician, Department of Emergency Medicine  
North Shore Medical Center  
2017-current Tele-Emergency Medicine Physician Consultant  
Nantucket Cottage Hospital  
2018-current Tele-Urgent Care Physician  
Partners Healthcare  
2019-current Tele-Emergency Medicine Physician Consultant  
Martha's Vineyard Hospital  
2019-current Physician, Partners Urgent Care, Woburn, MA

## Licensure and Certification

2002 Advanced Trauma Life Support (ATLS) Certification  
2003 Pediatric Advanced Life Support (PALS) Certification  
2003 Massachusetts Registered Physician  
2009 Disaster Management Course, DelValle Emergency Preparedness Training Institute of  
Boston  
2006-2026 Certification, American Board of Emergency Medicine  
2017 Advanced Cardiac Life Support (ACLS) Certification

## Administrative Responsibilities

### *Local*

#### **Brigham & Women's Hospital**

2003-2004 Quality Assurance Committee, Brigham & Women's Dept. of Emergency Medicine  
2005 Trauma Team Taskforce, Brigham & Women's Hospital

#### **Massachusetts General Hospital**

2007-current ED Liaison, MGH Acute Stroke Quality Taskforce  
2008-2009 EKG Safety Process

2008-2013 Partners Telestroke Program  
 2009-2010 Green Bed Project – LEAN project to improve ED throughput times  
 2010 ED Blood Product Transfusion Committee  
 2010-2013 Partners Care Redesign: Stroke Team  
 2011-2013 Content Advisor, Partners Clinical Care Pathway –Mild Traumatic Brain Injury  
 2011-2012 Advisor, Intracranial Neuroendovascular Care Redesign Team  
 2012-2015 Educational Director, Stroke Research Fellowship  
 2012-current Founder, Director, Center for Neurologic Emergencies, MGH  
 2012-2017 Hub Principal Investigator, Boston NETT Group (management of an NIH-funded regional group of academic medical centers to perform large multicenter trials).  
 2012-current Neurology Quality Assurance Committee  
 2012-2013 Member, Clinical Research Workgroup, Continuous Research Operations Improvement Taskforce  
 2017-current Thrombosis Subcommittee, MGH Pharmacy and Therapeutics Safety Committee  
 2017-current Hub Principal Investigator, New England SIREN Group (management of an NIH-funded regional group of academic medical centers to perform large multicenter trials).  
 2019 Faculty Search Committee, Department of Emergency Medicine  
 2019-current Emergency Medicine Residency Director Search Committee

### **Harvard Medical School**

2019-current HMS Promotions and Reappointments Committee  
 2019-current HMS Department of Emergency Medicine Executive Committee

### *National*

### **Neurocritical Care Society**

2006 Membership Committee  
 2009-2015 Annual Meeting Committee  
     2012-2013 Co-Chair, Workshop Committee  
     2013-2015 Chair, Workshop Committee  
 2012-current Annual Meeting Abstract Selection Committee  
 2016-2018 ENLS Protocols Subcommittee: Status Epilepticus Protocol  
 2019-current ENLS Protocols: Prehospital Workgroup

### **Society for Academic Emergency Medicine**

2008-2009 Industry Relations Committee  
     Subcommittee, evaluation and response to the AAMC Symposium on the Scientific Basis of Influence and Reciprocity  
 2006-current Neurologic Emergencies Interest Group  
     2010-2011 Chair, Neurologic Emergencies Interest Group  
 2010-current Annual Meeting Abstract Selection Committee

### **American Heart Association, Stroke Council**

2008-2015 Annual Meeting Abstract Selection Committee  
 2010-2013 Telestroke Subcommittee  
 2010-current Emergency Neurovascular Care subcommittee  
     2012-2013 Vice Chair  
     2013-2015 Chair

- 2011-2014 Program Committee, International Stroke Conference  
Chair, Emergency Medicine category
- 2014 ISC Pre-Conference Symposium Program Committee:  
Stroke in the Real World: Emergency Stroke Care 2014
- 2012-2015 Writing Group, Guidelines for the Management of Spontaneous ICH: 2015 Update
- 2015-2016 Planning Committee, New England Cerebrovascular Consortium Annual Summit
- 2015-2016 ISC Pre-Conference Symposium Program Committee:  
Stroke in the Real World: Systems of Care 2016
- 2015-current Get With the Guidelines-Stroke Clinical Workgroup
- 2016-2017 Writing Group, Treatment and Outcomes in Post-Thrombolysis Hemorrhage in  
Acute Ischemic Stroke
- 2016-2018 Committee on Scientific Sessions Program

**National Institute of Neurological Disorders and Stroke**

- 2011-2012 Member, Data Safety and Monitoring Board  
SHINE clinical trial (Phase III trial of intensive insulin therapy in stroke)
- 2014-2016 Domestic Site Manager, ATACH-II Clinical Trial  
Neurological Emergencies Treatment Trials Network

**Professional Societies**

- 1999-current American College of Emergency Physicians
- 2010-current Fellow, American College of Emergency Physicians
- 1999-current Society for Academic Emergency Medicine
- 2003-2014 American Academy of Emergency Medicine
- 2007-current Fellow, American Academy of Emergency Medicine
- 2005-current American Heart Association
- 2008-current Fellow, American Heart Association
- 2006-current Neurocritical Care Society
- 2015-current Fellow, Neurocritical Care Society
- 2006-current American Board of Emergency Medicine  
Board Certification

**Editorial Activities**

**Editor**

- 2008-current Editorial Board, International Journal of Emergency Medicine
- 2011-2015 Associate Editor, Academic Emergency Medicine
- 2015-2018 Associate Editor, Internal and Emergency Medicine

**Reviewer – multiple journals including**

- Academic Emergency Medicine
- Annals of Emergency Medicine
- Clinical Neurology and Neurosurgery
- Circulation
- European Journal of Neurology
- JAMA Neurology

Journal of Thrombosis and Hemostasis  
Nature Communications  
Neurocritical Care  
Neurology  
PLoS Medicine  
PLoS One  
Stroke  
Thrombosis and Hemostasis  
Transfusion

## Honors and Awards

2005 Partners in Excellence Award, Trauma Team Taskforce  
2006 Outstanding Attending Physician, Brigham & Women's Hospital  
Department of Emergency Medicine  
2007 Highlight Session of Special Topics  
American Academy of Neurology Annual Meeting  
2008 Best Emergency Medicine Presentation, MGH Clinical Research Day  
2009 Outstanding Attending Physician, Harvard Affiliated Emergency Medicine Residency  
2010 Partners in Excellence Award, Emergency Medical Care  
2010 Society for Academic Emergency Medicine Young Investigator Award  
2010 MGH Excellence in Action award, Emergency stroke care  
2010 Best Resident paper, American College of Emergency Physicians, awarded to a mentored resident  
2011 Academic Emergency Medicine Outstanding Reviewer  
2011 Partners in Excellence Award for Strategy Implementation: Care Redesign Teams  
2012 European Stroke Conference Young Investigator Award, awarded to a mentored fellow  
2012 Poster of Distinction, MGH Clinical Research Day  
2013 3<sup>rd</sup> Prize, Stroke Progress and Innovation Award, Stroke journal, awarded to a mentored fellow  
2014 Presidential Citation, Neurocritical Care Society  
2015 Nomination, Harvard Medical School Excellence in Mentoring Award  
2015 Nomination, MGH Nathaniel Bowditch Prize for Improving Quality of Care  
2016 Service Excellence Team Award- Brain Aneurysm Team, MGH  
2017 Top 50 Peer Reviewer - Annals of Emergency Medicine  
2017 Partners in Excellence Award - MGH, Comprehensive Stroke Quality Taskforce  
2018 Emergency Medicine Faculty Excellence in Patient Experience, MGH  
2018 Carlos A. Camargo Research Award, MGH  
2018 Top 50 Peer Reviewer, Senior Reviewer – Annals of Emergency Medicine  
2018 M.A. (Honorary), Harvard University  
2019 Top 2% Peer Reviewer, Senior Reviewer- Annals of Emergency Medicine

## Research Funding

2005 Co-Investigator, Medwave Inc.  
Blood pressure monitoring in the intensive care unit  
2005-2006 PI, Esther B. Kahn Award, Brigham & Women's Hospital  
Study of patient opinion of research involving exception from informed consent

2005-2006 Co-Investigator, FAST trial, Novo Nordisk Inc.  
Phase III randomized trial of recombinant Factor VIIa in intracerebral hemorrhage

2006 PI, Investigator Initiated Project, Novo Nordisk, Inc.  
Simulation in Neurocritical Care

2006-2007 Site PI, ATACH trial (NINDS R01NS044976)  
Phase II randomized trial of BP control in intracerebral hemorrhage

2006-2007 PI, Eleanor and Miles Shore 50<sup>th</sup> Anniversary Fellowship Award  
Harvard Medical School  
Study of hyperglycemia management in intracerebral hemorrhage

2007-2010 Co-Investigator, STILL trial, UCB Pharmaceuticals  
Randomized controlled trial of levetiracetam in acute seizure management

2008-2010 Site PI, DFO Trial (NINDS R01 NS057127)  
Phase I dose-ranging trial of deferoxamine in intracerebral hemorrhage

2008-2010 Steering committee member, site PI, 4Balance Trial, CSL Behring  
Phase III randomized trial of prothrombin complex concentrate for anticoagulant-associated hemorrhage. Led to FDA approval of novel agent.

2009-2010 Site PI, Acute Dizziness, Harvard Catalyst  
Multicenter observational study of dizziness in the emergency department

2009-2013 Steering committee member, site PI, 4Balance Trial, CSL Behring  
Phase III randomized trial of prothrombin complex concentrate for patients requiring emergency intervention or surgery while anticoagulated. Led to FDA approval of novel agent.

2009-2014 PI, K23 Career Development Award (NINDS K23 NS059774)  
Prospective observational study to develop a bedside prediction rule for hematoma expansion after intracerebral hemorrhage.

2009-2015 Site PI, STOP-IT trial (NINDS P50 NS044283)  
Phase II randomized trial of recombinant activated Factor VIIa for intracerebral hemorrhage using CTA Spot Sign to guide therapy.

2011-2015 PI, RESET study, CSL Behring  
Observational study of the efficacy and safety of plasma for anticoagulation reversal

2012-2014 Site PI, ProTECT III trial (NINDS 5U01 NS062778)  
Phase III randomized trial of progesterone for traumatic brain injury

2010-2016 Site PI, National Domestic Site Coordinator, ATACH-II trial (NINDS R01 NS062091)  
Phase III randomized controlled trial of blood pressure reduction for intracerebral hemorrhage

- 2011-2017 Co-Investigator, SCORE-IT (NINDS R01NS073344)  
Evaluation of CTA Spot Sign in guiding blood pressure management in intracerebral hemorrhage
- 2012-2017 PI, Boston NETT Group (NINDS 1U10 NS080369)  
New England Hub for the national Neurologic Emergencies Treatment Trials Network  
Coordination of efforts across disciplines (Trauma, EM, Neurology, Neurosurgery) at  
Massachusetts General Hospital, Brigham & Women's Hospital, Beth Israel Deaconess  
Medical Center, Tufts Medical Center, Boston Medical Center, Yale-New Haven Hospital,  
and Newton-Wellesley Hospital.
- 2012-current Site Co-PI, SHINE trial (NINDS 1U01 NS069498)  
Phase III randomized trial of intensive insulin therapy for ischemic stroke
- 2012-current Site Co-PI, I-SPOT trial (NINDS 1U01 NS079077)  
Ancillary trial examining coagulation markers and insulin therapy.
- 2012-current Site Co-PI, POINT trial (NINDS 1U01 NS062835)  
Phase III randomized trial of clopidogrel plus aspirin for transient ischemic attack and  
minor stroke.
- 2012-2016 Site PI, Hi-Def/iDEF trial (NINDS 1U01 NS074425)  
Phase II randomized trial of deferoxamine in intracerebral hemorrhage
- 2015-2018 Site PI, ANNEXA trial, Portola Pharmaceuticals  
Open label trial of Andexanet in patients receiving Factor Xa inhibitors
- 2015-current Site Co-PI, ESETT trial (NINDS 1U01 NS088034)  
Phase III randomized trial of antiepileptic therapy in patients with status epilepticus.
- 2015-2017 PI, Intracerebral Hemorrhage: Risk Factors and Outcomes (Pfizer).  
Investigator-Initiated study of hematoma growth and outcome in ICH.
- 2017-current Site PI, LEX-209 trial, Octapharma.  
Phase III randomized trial of Octaplex in reversal of anticoagulation in patients needing  
urgent or emergent surgery or interventional procedures.
- 2017-current PI, The MassSIREN Group (NINDS 1U24NS100651-01)  
New England Hub for the NIH funded SIREN network. This program coordinates various  
NIH funded clinical trials in neurologic, cardiac, traumatic, hematologic, and respiratory  
emergencies. The New England group includes Massachusetts General Hospital, Brigham  
& Women's Hospital, Beth Israel Deaconess Medical Center, Boston Medical Center,  
Umass Medical Center, and Yale-New Haven Hospital.
- 2019-current AVERT: Acute Video-oculography for Vertigo in Emergency Rooms for Rapid Triage  
NINDS  
Site PI

This is a multicenter clinical trial evaluating the use of video-oculography in diagnosing dizziness in the emergency department.

## Grant Review Activities

2011-2014 Reviewer, Clinical Brain-Human Studies, American Heart Association  
2015 Reviewer, US Army Medical Research and Material Command  
2015-2017 Reviewer, Swiss National Science Foundation  
2016 Reviewer, British Heart Foundation  
2019 Reviewer, NIH, Study Section NINDS ZRG1 ETTN H (11)

## Teaching

### Medical Students

2007 4<sup>th</sup> Year Comprehensive Exam (OSCE) Evaluator  
2008 2<sup>nd</sup> Year Comprehensive Exam (OSCE) Evaluator

### Residents, Fellows, Physician Assistants

2005 Course Facilitator, EM Residency Human Patient Simulation, GU Emergencies  
2005 Course Director, EM Residency Human Patient Simulation, Neurological Emergencies  
2006 Course Facilitator, EM Residency Human Patient Simulation, CV Emergencies  
2006 Course Director, EM Residency Human Patient Simulation, Neurological Emergencies  
2006 Course Director, Simulation in Neurocritical Care  
2007-2010 Course Director, Code and Airway Management for Neurointensivists  
Massachusetts General Hospital, Brigham & Women's Hospital  
2008 Lecturer, Megacode, ACLS  
2008 Lecture, Thrombolytics for Acute Stroke  
2008 Lecture, Headache Diagnosis and Management  
2009 Lecture, Stroke  
2009 Lecture, Dizziness in the ED  
2010 Lecture, Acute Stroke and ICH  
2010 Lecture, Dizziness in the ED  
2011 Discussant, Clinical Pathologic Case Conference  
2011 Lecture, Acute Stroke and ICH  
2011 Moderator, EM Journal Club  
2011 Course Director, Neurological Emergencies  
2012 Lecture, Acute Stroke and ICH  
2013 Lecture, Acute Stroke and ICH  
2014 Lecture, Acute Stroke and ICH  
2015 Lecture, Acute Stroke and ICH  
2015 Resident Report: Industry Relations and Medical Malpractice  
2016 Lecture, Acute Stroke and ICH  
2016 Lecture, Dizziness in the ED  
2016-2019 Course Director, Neurological Emergencies Simulation Session  
2017 Lecture, Neurologic Emergencies in the ED



2017	Lecture, Acute Intracerebral Hemorrhage
2018	Lecture, Dizziness in the ED
2019	Lecture, Anticoagulation Reversal
2019	Lecture, Neurologic Emergencies in the ED

## Lectures

### Local

2005	Emergency Medicine into the 21st Century	Acute Stroke Boston	Single presentation Harvard Medical School
2006	Emergency Medicine: Update and Current Practice	Acute Stroke, Acute Intracerebral Hemorrhage Boston	Two presentations Harvard Medical School
2006	Emergency Medicine into the 21st Century	Intracerebral Hemorrhage Boston	Single presentation Harvard Medical School
2006	Telestroke Grand Rounds	Blood Pressure Management in Acute Stroke Boston	Partners Telestroke
2007	Emergency Medicine: Update and Current Practice	Acute Stroke, Intracerebral Hemorrhage Boston	Two presentations Harvard Medical School
2007	Ischemic and hemorrhagic update: Current practices and future directions	Emergency Diagnosis and Management of Acute Stroke Boston	Single presentation Harvard Medical School
2008	Emergency Medicine: Update and Current Practice	Acute Stroke, Intracerebral Hemorrhage Boston	Four presentations Harvard Medical School
2008	Ischemic and hemorrhagic update: Current practices and future directions	Emergency Diagnosis and Management of Acute Stroke Boston	Single presentation Harvard Medical School
2008	Emergency Medicine into the 21st Century	Stroke and TIA: What should I be doing now? Boston	Single presentation Harvard Medical School
2009	Emergency Medicine: Update and Current Practice	Acute Stroke, Acute Intracerebral Hemorrhage Boston	Two presentations Harvard Medical School
2009	ACLS	Acute Coronary Syndrome	Single presentation

		Boston	Massachusetts General Hospital
2010	Emergency Medicine: Update and Current Practice	Stroke Boston	Single presentation Harvard Medical School
2010	Emergency Medicine: Update and Current Practice	Dizziness in the Emergency Department Boston	Single presentation Harvard Medical School
2010	Ischemic and hemorrhagic update: Current practices and future directions	Emergency Diagnosis and Management of Acute Stroke Boston	Single presentation Harvard Medical School
2010	Faculty Conference	Acute Stroke Cambridge	Single presentation Mount Auburn Hospital
2010	Emergency Medicine into the 21 <sup>st</sup> century	Acute Stroke Boston	Single presentation Harvard Medical School
2011	Ischemic and hemorrhagic update: Current practices and future directions	Emergency Diagnosis and Management of Acute Stroke Boston	Single presentation Harvard Medical School
2011	Emergency Medicine into the 21 <sup>st</sup> century	Acute Stroke, Acute Intracerebral Hemorrhage Boston	Two presentations Harvard Medical School
2011	Neurological Emergencies: The First Hours and it's Just You!	Course Co-Creator and Co-Director Boston	One full day case presentations, lectures, small group sessions Harvard Medical School
2011	Medicine Grand Rounds	Acute Stroke: Minimizing Time to Reperfusion Cambridge	Single lecture Mount Auburn Hospital
2011	Telestroke Grand Rounds	Acute Stroke: Minimizing Time to Reperfusion Boston	Single lecture Partners Telestroke
2012	Neurological Neurosurgical Intensive Care	Simulation: Airway and Intubation Boston	3 hour small group simulation sessions Harvard Medical School

2012	Neurological Emergencies: The First Hours and it's Just You!	Course Co-Creator and Co-Director Boston	One full day case presentations, lectures, small group sessions Harvard Medical School
2013	Emergency Medicine: Update and Current Practice	Stroke, Intracerebral hemorrhage Boston	Two presentations Harvard Medical School
2013	Ischemic and hemorrhagic update: Current practices and future directions	Emergency Diagnosis and Management of Acute Stroke Boston	Single presentation Harvard Medical School
2013	Neurological Emergencies: The First Hours and it's Just You!	Course Co-Creator and Co-Director; 3 Lectures: Hemorrhagic Stroke, Ischemic Stroke, Practical Aspects of tPA Administration. Boston	Two days of case presentations, lectures. Harvard Medical School
2013	Emergency Medicine into the 21 <sup>st</sup> century	Revascularization in Acute Stroke: 2013 Update Boston	Single presentation Harvard Medical School
2013	Emergency Medicine: Update and Current Practice	Acute Ischemic Stroke Boston	Single presentation Harvard Medical School
2014	Ischemic and hemorrhagic update: Current practices and future directions	Emergency Diagnosis and Management of Acute Stroke Boston	Single presentation Harvard Medical School
2014	Neurological Emergencies: The First Hours and it's Just You!	Course Co-Creator and Co-Director; 2 Lectures: Hemorrhagic Stroke, Practical Aspects of tPA Administration. Boston	Two days of case presentations, lectures. Harvard Medical School
2015	Emergency Medicine: Update and Current Practice	Acute Ischemic Stroke Boston	Single presentation Harvard Medical School
2015	Ischemic and hemorrhagic update: Current practices and future directions	Emergency Department Management of Ischemic Stroke Boston	Single presentation Harvard Medical School

2015	Neurological Emergencies: The First Hours and it's Just You!	Course Co-Creator and Co-Director; 2 Lectures: Intracerebral Hemorrhage – Navigating the New 2015 AHA Guidelines; Intra-arterial treatment of stroke-Making Sense of a Flood of New Data. Boston	Two days of lectures, discussion, cases. Harvard Medical School
2015	Harvard Trauma and Critical Care Symposium	Reversing Coumadin – FFP or PCC? Boston	Single presentation Harvard Medical School
2016	Emergency Medicine: Update and Current Practice	Acute Intracerebral Hemorrhage, Dizziness Boston	Two one hour lectures Harvard Medical School
2016	Ischemic and hemorrhagic update: Current practices and future directions	An acute stroke is called in – current EMS and Emergency Department triage/management Boston	Single presentation Harvard Medical School
2016	Neurological Emergencies: How to rapidly identify high-risk patients and optimize their outcomes	Course Co-Creator and Co-Director; 2 Lectures: Intracerebral Hemorrhage; Case Discussions: Actual Closed Malpractice Cases. Boston	Three days of lectures, discussion, cases. Harvard Medical School
2016	MGH Trauma/Critical Care Didactic Conference	Direct Oral Anticoagulants	Single presentation MGH
2017	The Michael Benari, MD Lectureship in Anticoagulation	Direct oral anticoagulants: Risk factors for bleeding and what to do when it happens	Single presentation Mt Auburn Hospital
2017	MGH Trauma/Critical Care Didactic Conference	Direct Oral Anticoagulants	Single presentation MGH
2017	Ischemic and hemorrhagic update: Current practices and future directions	Emergency Management of Ischemic and Hemorrhagic Stroke. Boston	Single presentation Harvard Medical School

2017	Neurological Emergencies: How to rapidly identify high-risk patients and optimize their outcomes	Course Co-Creator and Co-Director; 2 Lectures: Intracerebral Hemorrhage; Case Discussions: Actual Closed Malpractice Cases. Boston	Three days of lectures, discussion, cases. Harvard Medical School
2018	MGH Stroke Service Conference	Coagulopathy and ICH	Single presentation MGH
2018	MGH PA Rounds	Acute Dizziness	Single presentation MGH
2018	Ischemic and hemorrhagic update: Current practices and future directions	Emergency Management of Ischemic Stroke in the Tertiary Care Setting. Boston	Single presentation Harvard Medical School
2018	Neurological Emergencies: How to rapidly identify high-risk patients and optimize their outcomes	Course Co-Creator and Co-Director; 3 Lectures: Intracerebral Hemorrhage; Intravenous Thrombolysis; Actual Closed Malpractice Cases. Boston	Three days of lectures, discussion, cases. Harvard Medical School
2019	Ischemic and hemorrhagic update: Current practices and future directions	Emergency Management of Ischemic Stroke in the Tertiary Care Setting. Boston	Single presentation Harvard Medical School
2019	Neurological Emergencies: How to rapidly identify high-risk patients and optimize their outcomes	Course Co-Creator and Co-Director; 3 Lectures: Intracerebral Hemorrhage; Intravenous Thrombolysis; Actual Closed Malpractice Cases. Boston	Three days of lectures, discussion, cases. Harvard Medical School

**Regional**

2007	Hemostatic Therapy in Acute Intracerebral Hemorrhage American Heart Association: Making the Stroke Connection. Newton, MA	Lecture, Panel Discussion, “Controversies in Emergency Management of Stroke” American Heart Association
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2008	Stroke and Intracerebral Hemorrhage: Case Presentation Wentworth-Douglas Hospital, Dover, New Hampshire	Lecture, Panel Discussion, “Stroke: The Next Generation of Care” Wentworth-Douglas Hospital
2010	Improving IV-tPA Door-Needle Time SCORE: Stroke Collaborative Reaching for Excellence, Learning session, Westborough, MA	Lecture Paul Coverdell National Acute Stroke Registry Program; Heart Disease & Stroke Prevention & Control Program, Massachusetts Department of Public Health
2010	Intracerebral Hemorrhage The Northeast Cerebrovascular Consortium 5 <sup>th</sup> Annual Summit, Seaport World Trade Center, Boston, MA	Lecture, Panelist American Heart Association/American Stroke Association
2010	Acute Management of Stroke and Intracerebral Hemorrhage Wing Memorial Hospital, Palmer, MA	Lecture, Grand Rounds Wing Memorial Hospital
2011	Intracerebral Hemorrhage: Emergency Department Management Telestroke Grand Rounds (audience in Massachusetts, New Hampshire, Rhode Island, Oklahoma)	Lecture, Grand Rounds Partners Telestroke
2011	The Golden Hour of Stroke Care EMS Stroke Quality Improvement Initiative: Eight Collaborative Meeting	Lecture Massachusetts Department of Public Health
2012	Acute Stroke: Minimizing Time to Reperfusion Emergency Medicine Rounds	Lecture, Grand Rounds Jordan Hospital, Plymouth, MA
2013	A Decade of Stroke Thrombolysis: Consensus on Comparative Effectiveness, Shared Decision Making, and Timeliness of Care Paul Coverdell National Acute Stroke Registry: Celebration of Success and Award Ceremony	Lecture Massachusetts Department of Public Health
2014	Revascularization in Stroke Grand Rounds	Lecture Beverly Hospital, Beverly, MA
2015	Emergency Management of Acute Intracerebral Hemorrhage Boston Neuroscience Nursing Symposium	Guest Lecture Massachusetts Medical Society, Waltham, MA

2016	Critical Care Management after Stroke The Northeast Cerebrovascular Consortium 11 <sup>th</sup> Annual Summit, Newport, RI	Moderator American Heart Association/American Stroke Association
2018	Anticoagulants Old and New: When and How to Reverse/ Southern New Hampshire Medical Center Nashua, New Hampshire	Grand Rounds
2018	Intracerebral Hemorrhage / Lecture Controversies & Consensus in Emergency Medicine 2018 Northampton, MA	

**National**

2005	Oral anticoagulation reversal in traumatic brain injury Crozer-Chester Medical Center, Chester, PA	Trauma/Surgery Grand Rounds Crozer-Chester Medical Center
2005	Plasma administration and correction of coagulopathy in warfarin-related intracerebral hemorrhage Society for Academic Emergency Medicine Annual Meeting, New York, New York.	Platform Presentation (abstract) Society for Academic Emergency Medicine
2006	Anticoagulation reversal in traumatic brain injury The 11th Annual Adult and Pediatric Trauma Symposium, Chester, PA	Lecture Crozer-Chester Medical Center
2007	Emergency management of intracerebral hemorrhage Mount Sinai School of Medicine, New York, NY	Emergency Medicine Rounds Mount Sinai School of Medicine
2007	Research involving an emergency exception from informed consent Society for Academic Emergency Medicine Annual Meeting, Chicago, Illinois	Platform Presentation (abstract) SAEM (Society for Academic Emergency Medicine)
2007	Thromboembolic events following acute intracerebral hemorrhage American Academy of Neurology Annual Meeting, Boston, Massachusetts.	Platform Presentation (abstract) AAN (American Academy of Neurology)
2007	CT angiography in intracerebral hemorrhage	Platform Presentation (abstract)

	International Stroke Conference, San Francisco, California	American Heart Association
2008	Anticoagulation reversal in acute intracerebral hemorrhage American Heart Association Scientific Sessions Annual Meeting, New Orleans, LA	Lecturer, Panelist, Controversies in Acute Stroke Care American Heart Association
2009	Oral Abstracts (Diagnosis) International Stroke Conference, San Diego, CA	Moderator American Heart Association
2009	Novel Approaches to TIA Management in the ED Society for Academic Emergency Medicine Annual Meeting, New Orleans, LA	Moderator Society for Academic Emergency Medicine
2009	The Spot Sign: What is it, and what should I do about it? Neurocritical Care Society Annual Meeting, New Orleans, LA	Lecturer Neurocritical Care Society
2010	Hemorrhage – Intraparenchymal II International Stroke Conference, San Antonio, TX	Moderator American Heart Association
2010	Patients with Hematoma Expansion Following Acute Intracerebral Hemorrhage (ICH) Often Present Late or with an Unknown Time of Onset American Neurological Association Annual Meeting, San Francisco, CA	Oral Presentation American Neurological Association
2010	Patients with Hematoma Expansion Following Acute Intracerebral Hemorrhage (ICH) Often Present Late or with an Unknown Time of Onset American Neurological Association Annual Meeting, San Francisco, CA	Oral Presentation American Neurological Association
2010	Airway Management Workshop Neurocritical Care Society Annual Meeting, San Francisco, CA	Three 3-hour simulation sessions Neurocritical Care Society
2011	Drip-and-Ship Symposium	Moderator



	International Stroke Conference 2011, Los Angeles, CA	American Heart Association
2011	Acute Stroke: Minimizing Time to Reperfusion UMass Memorial Medical Center, Worcester, MA	Emergency Medicine Grand Rounds UMass Memorial Medical Center
2011	State of the Art Management of Intracerebral Hemorrhage University of Florida, Gainesville, FL	Distinguished Visiting Research Professor University of Florida
2011	Acute Stroke: Minimizing Time to Reperfusion University of Oklahoma, Tulsa, OK	Emergency Medicine Grand Rounds University of Oklahoma
2011	Acute Stroke: Thrombolysis for the Emergency Physician American Heart Association Southwest Affiliate, Arkansas, Colorado, New Mexico, Oklahoma, Texas and Wyoming	One hour live Webinar for 60 emergency providers American Heart Association
2011	Emergency Neurological Life Support Didactic Session Society for Academic Emergency Medicine Annual Meeting, Boston, MA	Moderator Society for Academic Emergency Medicine
2011	Stroke in the Emergency Department York Hospital Stroke Symposium, York, ME	Lecturer York Hospital
2012	You Spin Me Around: Acute Dizziness Identification and Management Symposium International Stroke Conference, New Orleans, LA	Moderator American Heart Association/American Stroke Association
2012	Intracerebral Hemorrhage 9 <sup>th</sup> Annual Utah Stroke Symposium	Lecturer University of Utah, American Heart Association/American Stroke Association,
2012	Challenges of tPA Administration 4 <sup>th</sup> Annual Connecticut State Stroke Conference: Challenges Across the Stroke Continuum	Lecturer Connecticut Department of Public Health, American Heart Association/American Stroke Association,
2012	Emergency Management of Acute Intracerebral Hemorrhage	Lecturer

	Emergency Medicine Grand Rounds, Madison, Wisconsin	University of Wisconsin School of Medicine and Public Health
2012	Neuroimaging for the Non-neurologist Neurocritical Care Society Annual Meeting, Denver, CO	Workshop Director Neurocritical Care Society
2012	ACEP Symposium: Acquired Coagulopathy in the Emergency Department American College of Emergency Medicine Scientific Assembly, Denver, CO	Symposium Chair Postgraduate Institute for Medicine
2012	Acute Stroke: Time to Thrombolysis  University of Arkansas for Medical Sciences, Little Rock, AK	Lecturer  Arkansas Department of Health
2013	Acute Stroke: Time to Thrombolysis  University of Arkansas for Medical Sciences, Little Rock, AK	Lecturer  Arkansas Department of Health
2013	Platelet Transfusion in ICH: Are we Helping or Hurting our Patients? International Stroke Conference, Honolulu, HI	Moderator American Stroke Association
2013	Challenges and Opportunities in the Treatment of Acute Ischemic Stroke: Key Points for the Emergency Physician Good Samaritan Medical Center, West Palm Beach, FL	Lecturer
2013	Professor Rounds Neurocritical Care Society Annual Meeting, Philadelphia, PA	Moderator Neurocritical Care Society
2014	Big Brother is Watching International Stroke Conference, San Diego, CA	Lecturer American Stroke Association
2014	Stroke in the Real World: Emergency Stroke Care 2014 International Stroke Conference, San Diego, CA	Moderator American Stroke Association
2014	Acute Management of ICH: Blood Pressure Lowering, Surgery and Future Directions	Moderator

	International Stroke Conference, San Diego, American Stroke Association CA	
2014	Prothrombin Complex Concentrates for Intracerebral Hemorrhage University of Washington Medical Center, Seattle, WA	Lecturer  University of Washington
2014	Wake-up Stroke Society for Academic Emergency Medicine 2014 Annual Meeting, Dallas, TX	Lecturer Society for Academic Emergency Medicine
2014	Diagnosing Dizziness: A Fresh Approach Society for Academic Emergency Medicine 2014 Annual Meeting, Dallas, TX	Moderator Society for Academic Emergency Medicine
2014	Thrombolytics in Stroke: Practical Aspects for the Emergency Physician 1 <sup>st</sup> Annual Emergency Neurovascular Symposium, Rush University Medical Center, Chicago, IL	Keynote Speaker  Rush University Medical Center
2014	Current Status of Telemedicine in Stroke Care Symposium: Opening the Window of Time in Stroke Therapy; 2014 American College of Emergency Physicians Scientific Assembly, Chicago, IL	Lecturer, panelist  Vindico Medical Education
2014	Bleeding Complications of Targeted Oral Anticoagulants: What is the Risk? ASH Educational Session: Targeted Oral Anticoagulants: Skating on Thin Ice with Blood Thinners. American Society of Hematology Annual Meeting, San Francisco, CA	Invited Speaker  American Society of Hematology
2015	Acute Intracerebral Hemorrhage: Current and Future State. Rhode Island Hospital, Warren Alpert Medical School of Brown University, Providence, RI.	Grand Rounds  Rhode Island Hospital
2015	Spot Sign in ICH: How Might it Guide Therapy? Neurocritical Care Society Annual Meeting, Scottsdale, AZ	Invited Speaker Neurocritical Care Society

- 2015 Professor Rounds Moderator  
Neurocritical Care Society Annual Meeting, Neurocritical Care Society  
Scottsdale, AZ
- 2015 Stroke Prevention in NVAF: Optimizing the Speaker  
use of Oral Anticoagulants in the  
Emergency Department.  
American College of Emergency Physicians Breakfast Symposium  
Annual Meeting, Boston, MA
- 2016 Stroke in the Real World: To Infinity and Beyond: Endovascular Therapy and Stroke  
Systems of Care Moderator  
International Stroke Conference, Los Angeles, CA American Heart Association
- 2016 Intracerebral Hemorrhage: Oral Abstracts Moderator  
International Stroke Conference, Los Angeles, CA American Heart Association
- 2016 Revascularization in Acute Stroke Lecturer  
University of Arkansas for Medical Sciences, Little Rock, AK Arkansas Department of Health
- 2016 Professor Rounds Moderator  
Neurocritical Care Society Annual Meeting, Neurocritical Care Society  
Washington, DC
- 2017 Effect of Intensive Systolic Blood Pressure Lowering on Hematoma Expansion  
in Patients with Intracerebral Hemorrhage: Analysis of the Antihypertensive Treatment of  
Acute Cerebral Hemorrhage (ATACH) II Trial  
Clinical Trials Plenary Session  
American Academy of Neurology Annual Meeting  
Boston, MA
- 2017 Analysis of the Antihypertensive Treatment of Acute Cerebral Hemorrhage  
(ATACH) II Trial by As Treated Groups  
Oral presentation  
American Academy of Neurology Annual Meeting  
Boston, MA
- 2017 Moderator: Oral abstracts, Quality and Patient Safety  
Moderator: Oral abstracts, Neurology/Psychiatry  
Moderator: Oral abstracts, Geriatrics and Neurology  
Society for Academic Emergency Medicine Annual Meeting  
Orlando, FL
- 2017 Lecture: Intracerebral Hemorrhage

Practice Update, Neurocritical Care Society Annual Meeting  
Waikoloa, HI

- 2017 Moderator: Get Out of this Hospital!  
Case Reviews of Care Transitions in Cardiac and Stroke Patients  
American Heart Association Scientific Sessions  
Anaheim, CA
- 2017 Moderator: Get Out of this Hospital!  
Case Reviews of Care Transitions in Cardiac and Stroke Patients  
American Heart Association Scientific Sessions  
Anaheim, CA
- 2018 Panel Discussion: New Frontiers: Management of Acute Ischemic Stroke  
in the Extended Time Window (Up to 24 Hours)  
Panel Discussion: The SIREN Network: The National Institutes of Health's Next  
Big Investment in Emergency Care Research  
Lecture: The Role of the Hub PI within the SIREN Structure  
Society for Academic Emergency Medicine Annual Meeting  
Indianapolis, IN
- 2018 Grand Rounds: Spontaneous Intracerebral Hemorrhage  
Brouward Medical Center  
Ft. Lauderdale, FL
- 2018 Moderator: Atrial Fibrillation, Stroke, and Intracerebral Hemorrhage: Complex Cases  
American Heart Association Scientific Sessions  
Chicago, IL
- 2019 Lecture: Blood in the Brain: The First Hour  
Rocky Mountain Winter Conference in Emergency Medicine  
Steamboat, CO
- 2019 Moderator: What Does the 2019 Focused Update of AF Guidelines Teach Us About Anti-  
Coagulation Challenges  
American Heart Association Scientific Sessions  
Philadelphia, PA

### **International**

- 2009 Controversies in the Diagnosis of Dizziness Lecturer  
in the ED  
The Fifth Mediterranean Emergency Medicine Congress, Valencia, Spain European Society for Emergency Medicine,  
American Academy of Emergency Medicine
- 2009 Oral abstracts, Trauma Section Moderator

	The Fifth Mediterranean Emergency Medicine Congress, Valencia, Spain	European Society for Emergency Medicine, American Academy of Emergency Medicine
2009	Controversies in the Diagnosis of Dizziness in the Emergency Department Updates in Emergency Medicine, Dubai, United Arab Emirates	Lecturer Harvard Medical School Dubai Center
2009	Emergency Assessment and Management of the Spontaneous Intracerebral Hemorrhage Patient Updates in Emergency Medicine, Dubai, United Arab Emirates	Lecturer Harvard Medical School Dubai Center
2011	Acute Intracerebral Hemorrhage Grand Rounds	Lecturer King Edward VII Memorial Hospital, Bermuda
2011	Intracranial Hemorrhage Symposium on Resuscitation, San Miguel de Allende, Mexico	Lecturer International Federation for Emergency Medicine
2011	Emergency Anticoagulation Reversal Symposium on Resuscitation, San Miguel de Allende, Mexico	Lecturer International Federation for Emergency Medicine
2011	Acute Stroke: Minimizing Time to Reperfusion Emergency Medicine in the Developing World, Cape Town, South Africa	Lecturer Emergency Medicine Society of South Africa
2011	Emergency Management of Acute Intracerebral Hemorrhage Emergency Medicine in the Developing World, Cape Town, South Africa	Lecturer Emergency Medicine Society of South Africa
2013	Emergency Management of Acute Intracerebral Hemorrhage International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium	Lecturer Belgian Society of Intensive Care and Emergency Medicine
2013	Massive Bleeding: Prothrombin Complex Concentrates vs. FFP International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium	Lecturer Belgian Society of Intensive Care and Emergency Medicine

2013	Military medicine International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium	Moderator Belgian Society of Intensive Care and Emergency Medicine
2014	Emergency Reversal of Warfarin Prior to Surgery European Society for Trauma and Emergency Surgery 2014 Annual Meeting, Frankfurt, Germany	Lecturer, symposium
2014	Care for the Patient, Not the System Uppsala Health Summit 2014, Uppsala, Sweden	Invited panelist, workshop Uppsala University
2014	Intracerebral Hemorrhage: Acute Blood Pressure Management ICH Symposium, Utrecht University, Utrecht, Netherlands	Lecturer  Utrecht University
2017	Lecturer: Optimal Anticoagulant Therapy Lecturer: Emergency Management of Intracerebral Hemorrhage Lecturer: Emergency Anticoagulation Reversal Lecturer: Emergency Management of Ischemic Stroke International Symposium on Intensive Care and Emergency Medicine Belgian Society of Intensive Care and Emergency Medicine Brussels, Belgium	
2017	Lecturer: DVT treatment in high risk intracerebral hemorrhage Moderator: Scientific Session: Oral presentations World ICH Conference Baltimore, MD	
2017	Emergency Management of Intracerebral Hemorrhage / Invited Lecturer Utrecht University Utrecht, Netherlands	
2017	Lecturer: Acute Stroke Lecturer: Trauma: Head Injury 2nd International Emergency Medicine Conference Abu Dhabi, United Arab Emirates	
2017	Keynote speaker Hematoma Expansion in ICH: Who will expand, and what can we do about it? Chinese Society of Neurology Annual Meeting Chongqing, China	
2018	Keynote speaker	

Anticoagulation reversal and 4-Factor prothrombin complex concentrate  
KCentra 1<sup>st</sup> Anniversary Symposium  
Tokyo, Japan

## Education of Patients and Service to the Community

- 2007 Membership Committee, Temple Beth Shalom, Peabody, MA.
- 2011 Lecture (1.5 hours), Hypothesis Testing in the Real World, Sharon High School, Sharon, MA.
- 2012-15 Board of Directors, Temple Beth Shalom, Peabody, MA; Long range planning committee.
- 2012 Lecture (1.5 hours), Hypothesis Testing in the Real World, Sharon High School, Sharon, MA.
- 2013 Educational table at the Brain Injury Association of Massachusetts (BIA-MA) 32<sup>nd</sup> Annual Brain Injury Conference in Marlborough, MA.
- 2013 Presentation on traumatic brain injury and clinical trials to staff and clients of Neuro Rehab Management, Inc, at the Head Injury Community Services Department in Quincy, MA.
- 2013 Presentation on traumatic brain injury and clinical trials to the Eagle Hill Civic Association meeting at East Boston High School, Boston, MA
- 2012-15 Chair, Faculty Grants Committee, Brookwood School, Manchester, MA
- 2016 Lecture (1.5 hours), Hypothesis Testing in the Real World, Sharon High School
- 2017 Pingree School (Hamilton, MA): Presentation on Medical Careers, Ultrasound in Emergency Medicine
- 2018 Pingree School (Hamilton, MA): Simulation in Medicine, Emergency Medicine
- 2019 Pingree School (Hamilton, MA): Simulation in Cardiac Arrest, Emergency Medicine
- 2019 Massachusetts State House, Spinal Cord Injury Awareness Day, presentation.
- 2019 Educational table at the Brain Injury Association of Massachusetts (BIA-MA) Annual Brain Injury Conference in Marlborough, MA.

## Publications

### Original Research Articles

1. **Goldstein, J.N.**, Weller, S.K. The exonuclease activity of HSV-1 UL12 is required for in vivo function. *Virology*. 1998;244(2):442-57.
2. **Goldstein, J.N.**, Weller, S.K. In vitro processing of herpes simplex virus type 1 DNA replication intermediates by the viral alkaline nuclease, UL12. *J. Virol.* 1998;72(11):8772-81.
3. Martinez, R., **Goldstein, J.N.**, Weller, S.K. The product of the UL12.5 gene of herpes simplex virus type 1 is not essential for lytic viral growth and is not specifically associated with capsids. *Virology*. 2002;298(2):248-57.
4. Thomas, S.H., Silen, W., Cheema, F., Reisner, A., Aman, S., **Goldstein, J.N.**, Kumar, A.M., Stair, T.O. Effects of morphine analgesia on diagnostic accuracy in emergency department patients with abdominal pain: a prospective, randomized trial. *J. Am. Coll. Surg.* 2003;196(1):18-31.  
-Commentary: Pitts, S. *Evidence Based Medicine* 2003 8:152.



5. **Goldstein, J. N.**, Jaradeh, I. E., Jhawar, P., Stair, T. O. ED Drug-Drug Interactions: Frequency & Type, Potential & Actual, Triage & Discharge. *Internet Journal of Emergency and Intensive Care Medicine*. 2005;8(2).
6. **Goldstein, J. N.**, Thomas, S. H., Frontiero, V., Joseph, A., Engel, C., Snider, R., Smith, E. E., Greenberg, S. M., and Rosand, J. Timing of Fresh Frozen Plasma Administration and Rapid Correction of Coagulopathy in Warfarin-Related Intracerebral Hemorrhage. *Stroke*. 2006;37(1):151-155.
  - Editorial: Hemphill, J.C. Treating Warfarin-Related Intracerebral Hemorrhage: Is Fresh Frozen Plasma Enough? *Stroke* 2006; 37:6-7.
  - Commentary: Prompt treatment key to successful reversal of anticoagulation. *Professional Medical News, Reuters Health*. New York, NY, 2006.
  - Commentary: Evans, J. Timing of Plasma Key to Quick INR Reversal in Intracerebral Hemorrhage. *ACEP News*. 2006; 24 (7): 8.
  - Commentary: Chen, Y. *Journal of Emergency Medicine* May 2006 30(4) p.477.
  - Commentary: Pallin, D.J. Warfarin Reversal: Another Door-to-Drug Time Goal. *NEJM Journal Watch* 2007; 10(2):1.
  - Commentary: Becker, K. and Tirschwell, D. "Spotting" patients at the highest risk of hematoma growth. *Nature Reviews Neurology* 2009; 5: 526-8.
7. **Goldstein, J.N.** Camargo, C.A. Pelletier, A.J. Edlow, J.A. Headache in United States Emergency Departments: demographics, work-up and frequency of pathological diagnoses. *Cephalalgia*. 2006;26(6):684-690.
8. **Goldstein, J.N.** Fazen, L.E. Snider, R. Schwab, K. Greenberg, S.M. Smith, E.E. Lev, M.H. Rosand, J. Contrast extravasation on CT angiography predicts hematoma expansion in intracerebral hemorrhage. *Neurology*. 2007;68(12):889-94.
  - Editorial: Ford, A.L. and Lee, J. Expanding the therapeutic window for intracerebral hemorrhage. *Neurology* 2007 68(12) p.883
  - Commentary: CT spot sign predicts hematoma expansion in stroke patients  
Eric Barnes, Auntminnie.com  
<http://www.auntminnie.com/index.asp?Sec=sup&Sub=cto&Pag=dis&ItemId=74696&wf=1667&d=1>.
  - Letter to the editor: **Goldstein, J. N.**, Greenberg SM, Smith EE, Lev MH, Rosand J. Contrast extravasation on CT angiography predicts hematoma expansion in intracerebral hemorrhage. *Neurology*. 2007 Aug 7;69(6):617
9. Stair, T.O., Morrissey, J., Jaradeh, I., Zhou, T.X., **Goldstein, J.N.** Validation of the Quick Confusion Scale for mental status screening in the emergency department. *Intern Emerg Med*. 2007;2(2):130-132.
10. Stanton, V., Hsieh, Y.H., Camargo, C.A., Jr., Edlow, J.A., Lovett, P., **Goldstein, J.N.**, Abbuhl, S., Lin, M., Chanmugam, A., Rothman, R.E., and Newman-Toker, D.E. Overreliance on Symptom Quality in Diagnosing Dizziness: Results of a Multicenter Survey of Emergency Physicians. *Mayo Clin Proc*. 2007;82(11):1319-1328.
  - Editorial: Caplan, L.R. Dizziness: How Do Patients Describe Dizziness and How Do Emergency Physicians Use These Descriptions for Diagnosis?

11. Ginde, A. A., Clark, S., **Goldstein, J. N.**, Delaney, K. E., Camargo, C. A. Demographic Disparities in Health Numeracy among Emergency Department Patients: A Multicenter Study. *Patient Education and Counseling* 2008; 72(2):350-6.
12. Rost, N. S., Smith, E. E., Chang, Y. Snider, R. W., Chanderraj, R. Schwab, K., Fitzmaurice, E., Wendell, L., **Goldstein, J. N.**, Greenberg, S. M., Rosand, J. Prediction of Functional Outcome in Patients with Primary Intracerebral Hemorrhage: The FUNC Score. *Stroke* 2008;39:2304-2309.
13. Pallin, D. J., **Goldstein, J. N.**, Moussally, J. S., Pelletier, A. J., Green, A. R., Camargo, C. A. Seizure Visits in U.S. Emergency Departments: Epidemiology and Potential Disparities in Care. *International Journal of Emergency Medicine* 2008; 1(2): 97-105.
14. Fix, M.L., **Goldstein, J. N.**, Listwa, T.M., Nelson, S.W., Thomas, S.H. Comparison of a Radial Artery Compression Device with Invasive Radial Artery Blood Pressure Monitoring. *Blood Pressure Monitoring* 2008 Aug;13(4):199-203
15. **Goldstein, J. N.**, Delaney, K. E., Pelletier, A. J., Fisher, J., Blanc, P. G., Halsey, M., Pallin, D. J., Camargo, C. A. A Brief Educational Intervention May Increase Public Acceptance of Emergency Research Without Consent. *Journal of Emergency Medicine* 2010 Oct;39(4):419-35.
16. **Goldstein, J. N.**, Fazen, L.E., Wendell, L., Chang, Y., Rost, N.S., Snider, R., Schwab, K., Chanderraj, R., Kabrhel, C. Kinnecom, C., Fitzmaurice, E., Smith, E.E., Greenberg, S.M., Rosand, J. Risk of thromboembolism following acute intracerebral hemorrhage. *Neurocritical Care*. 2009;10(1):28-34.
17. Patel, P.V., FitzMaurice, E., Nandigam, R.N.K., Auluck, P., Viswanathan, A., **Goldstein, J. N.**, Rosand, J., Greenberg, S.M., Smith, E.E. Subdural hematoma is associated with increased mortality in lobar intracerebral hemorrhage. *Arch Neurol*. 2009;66(1):79-84.
18. Romero, J.M., Artunduaga, M., Forero, N.P., Delgado, J., Sarfaraz, K., **Goldstein, J.N.**, Gonzalez, R.G., Schaefer, P.W. Accuracy of CT angiography for the diagnosis of vascular abnormalities causing intraparenchymal hemorrhage in young patients. *Emerg Radiol*. 2009 May; 16(3):195-201
19. Oleinik, A.O., Romero, J. M., Schwab, K., Lev, M.H., Jhawar, N., Delgado Almandoz, J., Smith, E.E., Greenberg, S.M., Rosand, J., **Goldstein, J.N.** CT angiography for intracerebral hemorrhage does not increase risk of acute nephropathy. *Stroke* 2009; 40:2393-2397.  
-Commentary: Douglas, D. CT angiography unrelated to acute nephropathy. *Professional Medical News* (7/30/09) Reuters Health. New York, NY
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21. Delgado Almandoz, J. E., Yoo, A. J., Stone, M. J., Schaefer, P. W., Oleinik, A. O., Brouwers, H. B., **Goldstein, J. N.**, Rosand, J., Lev, M. H., Gonzalez, R. G., Romero, J. The Spot Sign Score in Primary Intracerebral Hemorrhage Identifies Patients at Highest Risk of In-Hospital Mortality and Poor Outcome among Survivors. *Stroke*, 2010; 41(1): 54-60.

-Commentary: Douglas, D. Spot Sign Score Predicts Intracerebral Hemorrhage Outcome. Professional Medical News (1/19/10). Reuters Health, New York, NY

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23. Sheth, K. N., Cushing, T. A., Wendell, L., Lev, M. H., Romero, J. M., Schwab, K., Smith, E. E., Greenberg, S. M., Rosand, J., **Goldstein, J. N.** Comparison of hematoma shape and volume estimates in warfarin vs. non-warfarin related intracerebral hemorrhage. *Neurocritical Care* 2010; 12(1):30-4.
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25. **Goldstein, J. N.**, Marrero, M., Masrur, S., Pervez, M., Abdullah, A., Oleinik, A., Rosand, J., Smith, E. E., Dzik, W. H., Schwamm, L. H. Management of thrombolysis-associated symptomatic intracerebral hemorrhage. *Arch Neurol*. 2010;67(8):965-969.
  - Commentary: Coagulopathy Often Untreated in Brain Hemorrhage Patients. HealthDay News, Modern Medicine (8/11/10),  
<http://www.modernmedicine.com/modernmedicine/Modern+Medicine+Now/Coagulopathy-Often-Untreated-in-Brain-Hemorrhage-P/ArticleNewsFeed/Article/detail/682775?contextCategoryId=40126>
  - Selected for review by Faculty of 1000 Medicine:  
<http://f1000medicine.com/article/id/5053956/evaluation>
  - Letter to editor: **Goldstein, J. N.**, Marrero, M., Masrur, S., Pervez, M., Barrocas, A. M., Abdullah, A., Oleinik, A., Rosand, J., Smith, E. E., Dzik, W. H., Schwamm, L. H. Thrombolysis-Associated Symptomatic Intracerebral Hemorrhage—Reply. *Arch Neurol* 2011;68 396-397
26. Delgado Almandoz, J., Schaefer, P. W., **Goldstein, J. N.**, Rosand, J., Lev, M. H., Gonzalez, R. G., Romero, J. Practical Scoring System for the Identification of Patients with Intracerebral Hemorrhage at Highest Risk of Harboring an Underlying Vascular Etiology: The Secondary Intracerebral Hemorrhage Score. *American Journal of Neuroradiology* 2010 Oct;31(9):1653-60.
27. **Goldstein, J. N.**, Espinola, J. A., Fisher, J., Pallin, D. J., Camargo, C. A. Public opinion of a stroke clinical trial using exception from informed consent. *International Journal of Emergency Medicine* 2010 3:385–389.
28. Delgado Almandoz, J., Romero, J. M., Su, H. S., **Goldstein, J. N.**, Pomerantz, S. R., Lev, M. H., Gonzalez, R. G., Schaefer, P. W. Frequency of Adequate Contrast Opacification of the Major Intracranial Venous Structures with CT Angiography in the Setting of Intracerebral Hemorrhage: Comparison of 16 and 64-Slice CT Angiography. *American Journal of Neuroradiology* 2011 May;32(5):839-45.

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33. Qureshi AI, Palesch YY, Martin R, Novitzke J, Flores SC, Ehtisham A, Ezzeddine MA, **Goldstein JN**, Kirmani JF, Hussein HM, Suri MFK, Tariq N, Liu Y, ATACH Investigators. Association of serum glucose concentrations during acute hospitalization with hematoma expansion, perihematomal edema, and three month outcome among patients with intracerebral hemorrhage. *Neurocrit Care* 2011 Dec;15(3):428-35.
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  29. Pervez, M.A., **Goldstein, J. N.**, Rost, N. S., Mcintyre, J. A., Fay, J. E., Copen, W., Santimauro, J. M., Masrur, S., Lev, M. H., Viswanathan, A., Schwamm, L. H. A Novel Emergency Stroke Alert System Reduces Door-to-CT and Door-to-Needle Time in Patients with Acute Ischemic Stroke. Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke 2010 Scientific Sessions, Washington, DC.
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  36. Chase, M., OConnor, J., Joyce, N., Spielman, M., Selim, M., Pallin, D., **Goldstein, J.**, Edlow, J. Identifying Predictors of Acute Stroke in an Undifferentiated Population of ED Patients with Dizziness. International Stroke Conference, Los Angeles, CA 2011.

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46. Chase, M., O'Connor, J., Selim, M., **Goldstein, J.**, Pallin, D., Carmacho, M., Edlow, J. Epidemiology And Resource Utilization Among ED Patients With Dizziness. Society for Academic Emergency Medicine Annual Meeting, Boston, MA 2011.
47. Chase, M., Goldstein, J., Pallin, D., Selim, M., Carmacho, M., Joyce, N., O'Connor, J., Edlow, J. Predictors Of Acute Stroke In ED Patients With Dizziness. Society for Academic Emergency Medicine Annual Meeting, Boston, MA 2011.
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49. Qureshi, A., Cruz Flores, S., Ehtisham, A., Goldstein, J., Hussein, H., Kirmani, J., Martin, R., Novitzke, J., Palesch, Y., Fareed Suri, M., Tariq, N. Factors Associated with Individual Variations

in Systolic Blood Pressure Responsive to Intravenous Antihypertensive Medication. Results from the Antihypertensive Treatment of Acute Cerebral Hemorrhage (ATACH) Study. International Stroke Conference, New Orleans, LA 2012

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51. Elmer, J, Hou, P, Wilcox, SR, Chang, Y, Schreiber, H, Okechukwu, I, Camargo, CA, Greenberg, SM, Rosand, J, Pallin, DJ, **Goldstein, J**. Hypotension in the emergency department is common among ventilated patients with intracerebral hemorrhage but not independently associated with increased mortality. Presented at the 2012 Annual Congress of the Society of Critical Care Medicine, Houston, TX.
52. Sarode, R., Milling, T.J., Refaai, M.A., Mangione, A., Schneider, A., **Goldstein, J.N.** Randomized phase IIIb study comparing the safety and efficacy of 4-factor prothrombin complex concentrate with plasma in subjects receiving vitamin K antagonists with major bleeding. Oral presentation, 2012 Thrombosis and Hemostasis Summit of North America, Chicago, IL.
53. Sarode, R., Milling, T.J., Refaai, M.A., Mangione, A., Durn, B.L., **Goldstein, J.N.** Integrated safety analysis of a 4-factor prothrombin complex concentrate (PCC) versus plasma in phase III clinical trials. Abstract, 2012 Thrombosis and Hemostasis Summit of North America, Chicago, IL.
54. Brouwers, H.B., Falcone, G., McNamara, K.A., Ayres, A.M., Oleinik, A., Schwab, K., Romero, J.M., Viswanathan, A., Greenberg, S.M., Rosand, J., **Goldstein, J.N.** CT Angiography Spot Sign Accurately Predicts Hematoma Expansion in Late Onset Intracerebral Hemorrhage. Oral presentation, 2012 European Stroke Conference, Lisbon, Portugal.
55. Brouwers, H.B., Biffi, A., Ayres, A.M., Schwab, K., Cortellini, L., Romero, J.M., Rost, N.S., Viswanathan, A., Greenberg, S.M., Rosand, J., **Goldstein, J.N.** APOE Genotype Is Associated With CT Angiography Spot Sign In Lobar Intracerebral Hemorrhage. Oral presentation, 2012 European Stroke Conference, Lisbon, Portugal.
56. Elmer, J, Hou, P, Wilcox, SR, Chang, Y, Schreiber, H, Okechukwu, I, Bajwa, E, Hess, D, Avery, L, Duran-Mendicuti, MA, Camargo, CA, Greenberg, SM, Rosand, J, Pallin, DJ and **Goldstein, JN**. Risk of acute lung injury after spontaneous intracerebral hemorrhage. 2012 Scientific Assembly of the American College of Emergency Physicians, Denver, CO. October, 2012.
57. Pontes Neto, O., Schwab, K., Greenberg, S.M., Rosand, J., **Goldstein, J.N.** Deep Cerebral Microbleeds are associated with Left Ventricular Hypertrophy in patients with primary ICH. 8th World Stroke Congress, Brasilia, Brazil. October 2012.
58. Refaai, M., **Goldstein, J.N.**, Milling, T.J., Foehl, H., Hug, B., Sarode, R. Correction of INR and coagulation factor levels in a randomized clinical trial of four-factor prothrombin complex concentrate (PCC- 4) versus plasma for urgent vitamin K antagonist reversal. Oral presentation, 2012 American College of Emergency Physicians Scientific Assembly, Denver, CO.
59. Milling, T.J., Refaai, M.A., Sarode, R., Mangione, A., Durn, B.L., **Goldstein, J.N.** Safety of a 4-factor prothrombin complex concentrate (4F-PCC) versus plasma for vitamin K antagonist reversal: an integrated analysis of phase III clinical trial data. Abstract, Society for the Advancement of Blood Management, Pittsburgh, PA. September 2012.
60. Brouwers, H.B., Falcone, G., McNamara, K.A., Ayres, A.M., \*Oleinik, A., Schwab, K., Romero, J.M., Viswanathan, A., Greenberg, S.M., Rosand, J., **Goldstein, J.N.** CT Angiography Spot Sign Predicts Hematoma Expansion in Patients with Delayed Presentation after Intracerebral Hemorrhage. Oral presentation, 2012 Neurocritical Care Society Annual Meeting, Denver, CO.
61. Brouwers, H.B., Chang, Y., Falcone, G.J., Ayers, A.M., McNamara, K.A., Vashkevich, A., Battey, T.W., Valant, V., Schwab, K., Rost, N.S., Romero, J.M., Viswanathan, A., Greenberg,

- S.M., Rosand, J., **Goldstein, J.N.** A Prediction Score for Hematoma Expansion Following Acute Intracerebral Hemorrhage. Abstract, 2012 MGH Clinical Research Day, Boston, MA.
62. Mehta, BP, Leslie-Mazwi, T.B., Chandra, R.V., Bell, D.L., Rabinov, J., Ogilvy, C., Hirsch, J.A., **Goldstein, J.N.**, Rost, N.S., Schwamm, L.H., Yoo, A.J. Reducing Time to Intra-Arterial Therapy in Acute Ischemic Stroke. Oral Presentation, 2013 International Stroke Conference, Honolulu, HI.
63. Ruff, I.M., Syed, A., Rost, N., **Goldstein, J.N.**, Lev, M., Copen, W., McIntyre, J., Schwamm, L. Improving Door-to-Needle Times with Target Stroke. Oral Presentation, 2013 International Stroke Conference, Honolulu, HI.
64. Falcone, G.J., Biffi, A., Devan, W., Brouwers, H.B., Anderson, C.D., Valant, V., Ayres, A.M., Schwab, K., Rost, N.S., **Goldstein, J.N.**, Viswanathan, A., Greenberg, S.M., Selim, M., Meschia, J.F., Brown, D.L., Worrall, B.B., Silliman, S.L., Tirschwell, D.L., Rosand, J. Burden of Blood Pressure-Related Alleles is Associated with Larger Hematoma Volume and Worse Outcome in Intracerebral Hemorrhage. Oral Presentation, 2013 International Stroke Conference, Honolulu, HI.
65. Dowlathshahi D, Brouwers HB, Demchuk A, Hill M, Aviv R, Ufholz L, Wang, Y., Zhao, X., Wang, Y., Li, N., Greenberg S, Romero J, Rosand, J., **Goldstein JN**, Sharma, M. The Predictive Ability of the CTA Spot Sign for Hematoma Expansion is Dependent on Time Since ICH Onset: A Systematic Review and Patient-level Meta-analysis. Oral Presentation, 2013 International Stroke Conference, Honolulu, HI.
66. Brouwers, H.B., Raffeld, M.R., Ayres, A.M., Schwab, K., Romero, J.M., Viswanathan, A., Ogilvy, C.S., Greenberg, S.M., **Goldstein, J.N.**, Rosand, J. CT Angiography Spot Sign Predicts Perioperative Bleeding in Primary Intracerebral Hemorrhage. Abstract, 2013 International Stroke Conference, Honolulu, HI
67. Brouwers, H.B., Chang, Y., Falcone, G.J., Ayers, A.M., McNamara, K.A., Vashkevich, A., Battey, T.W., Valant, V., Schwab, K., Rost, N.S., Romero, J.M., Viswanathan, A., Greenberg, S.M., Rosand, J., **Goldstein, J.N.** A Prediction Score for Hematoma Expansion Following Acute Intracerebral Hemorrhage. Moderated poster, 2013 International Stroke Conference, Honolulu, HI
68. Pontes-Neto, O.M., Martinez-Ramirez, S., Viswanathan, A., Auriel, E., Schwab, K.M., Ayres, A., Gurol, M.E., Rosand, J., Greenberg, S.M., **Goldstein, J.N.**, Left Ventricle Hypertrophy is Common in Patients with Cerebral Amyloid Angiopathy-Related Intracerebral Hemorrhage and Is Independently Associated with Long-Term Mortality. Abstract, 2013 International Stroke Conference, Honolulu, HI
69. Tirschwell, D., Chang, Y., Ayres, A., Schwab, K., Dipucchio, Z.Y., Vashkevich, A., Viswanathan, A., **Goldstein, J.N.**, Greenberg, S.M., Rosand, J. Estimating Supported Outcomes in Intracerebral Hemorrhage Patients with Withdrawal of Life Support through Propensity Score Matching. Abstract, 2013 International Stroke Conference, Honolulu, HI
70. Brouwers, H.B., Raffeld, M.R., Falcone, G.J., Ayres, A.M., Schwab, K., Romero, J.M., Viswanathan, A., Greenberg, S.M., Ogilvy, C.S., **Goldstein, J.N.** CT Angiography Spot Sign Predicts Perioperative Bleeding in Primary Intracerebral Hemorrhage. Oral presentation, 2013 European Stroke Conference, London, UK.
71. Falcone, G.F., Brouwers, H.B., Biffi, A., Anderson, C.D., Battey, T.W.K., Ayres, A.M., Vashkevich, A., Schwab, K., Rost, N.S., **Goldstein, J.N.**, Viswanathan, A., Greenberg, S.M., Rosand, J. Predictors of Hematoma Volume in Primary Infratentorial Intracerebral Hemorrhage. Abstract, 2013 European Stroke Conference, London, UK.
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73. Refaai, M., **Goldstein, J.N.**, Milling T.J., Lews, B., Goldbert-Alberts, R., Hug, B. Sarode, R. Randomized Phase IIIb Study Of Rapid Vitamin K Antagonist Reversal In Patients Requiring An Urgent Surgical Procedure: Four-Factor Prothrombin Complex Concentrate Is Superior To Plasma. Abstract, 55th Annual Meeting of the American Society of Hematology (2013 ASH), New Orleans, LA.
74. Falcone, G.J., Radmanesh, F., Brouwers, H.B., Devan, W.J., Viswanathan, A., **Goldstein, J.N.**, Greenberg, S.M., Brown, D.L., Worrall, B.B., Meschia, J.F., Silliman, S.L., Selim, M., Tirschwell, D.L., Biffi, A., Rosand, J., Anderson, C.D. APOE Epsilon Genetic Variants Increase Risk of Warfarin-Related Intracerebral Hemorrhage. Abstract, 11<sup>th</sup> Annual Neurocritical Care Society Meeting 2013, Philadelphia, PA.
75. Milling, T.J., Refaai, M., **Goldstein, J.N.**, Goldberg-Alberts, R., Schneider, A., Hug, B., Sarode, R. Thrombotic Events after Vitamin K Antagonist Reversal with 4-Factor Prothrombin Complex Concentrate or Plasma. Oral Presentation, 2013 American College of Emergency Physicians Research Forum, Seattle, WA.
76. Schuur, J., Ronan, C.E., Berner, A.R., Benzer, T.I., **Goldstein, J.N.**, Larson, R.E., Lyn, E.T., Michael, J.A., Rivera, M., Raja, A.S. Head CT for Minor Head Injury: Appropriateness and Early Results of a Quality Improvement Intervention in 6 Emergency Departments. Abstract, 2013 American College of Emergency Physicians Research Forum, Seattle, WA.
77. Radmanesh, F., Falcone, G.J., Anderson, C.D., Battey, T.W.K., Ayres, A.M., Vashkevich, A., Schwab, K., Romero, J.M., Viswanathan, A., Greenberg, S.M., **Goldstein, J.N.**, Rosand, J., Brouwers, H.B. Predictors of the CT Angiography Spot Sign in Deep and Lobar Intracerebral Hemorrhage. Abstract, 2014 International Stroke Conference, San Diego, CA.
78. Pontes-Neto, O., Martinez-Ramirez, S., Viswanathan, A., Tan, T., Nunes, M.C., Hung, J., Auriel, E., Schwab, K., Ayres, A., Gurol, M.E., Rosand, J. Greenberg, S.M., **Goldstein, J.N.** The Impact of Acute Hypertensive Response on Mortality after Intracerebral Hemorrhage Differs in Patients with and without Left Ventricle Hypertrophy. Abstract, 2014 International Stroke Conference, San Diego, CA.
79. Falcone, G.J., Radmanesh, F., Brouwers, H.B., Chitsike, L.P., Devan, W.J., Battey, T.W.K., Viswanathan, A., **Goldstein, J.N.**, Greenberg, S.M., Brown, D.L., Worrall, B.B., Meschia, J.F., Silliman, S.L., Selim, M., Tirschwell, D.L., Biffi, A., Woo, D., Rosand, J., Anderson, C.D. APOE Variants are Associated With Increased Risk of Warfarin-Related Intracerebral Hemorrhage. Abstract, 2014 International Stroke Conference, San Diego, CA.
80. Radmanesh, F., Falcone, G.J., Anderson, C.D., Battey, T.W.K., Ayres, A.M., Vashkevich, A., Schwab, K., Romero, J.M., Viswanathan, A., Greenberg, S.M., **Goldstein, J.N.**, Rosand, J., Brouwers, H.B. Predictors of the CT Angiography Spot Sign in Deep and Lobar Intracerebral Hemorrhage. Abstract, American Academy of Neurology 2014 Annual Meeting, Philadelphia, PA.
81. Milling, TJ, Refaai, MA, Sarode, R, Lewis, B, Mangione, A, Durn, BL, **Goldstein, JN.** Safety of a 4-factor prothrombin complex concentrate (4F-PCC) versus plasma for vitamin K antagonist reversal: an integrated analysis of two phase III clinical trials. Abstract, 2014 Thrombosis and Hemostasis Society of North America Annual Meeting, Chicago, IL.
82. Refaai, M.A., **Goldstein, J.N.**, Lee, M.L., Milling, T.J., Sarode, R. Increased Risk of Volume Overload with Plasma Compared to 4-Factor Prothrombin Complex Concentrate for the Emergency Reversal of Vitamin K Antagonist Therapy. Abstract, 2014 Society for Academic Emergency Medicine Annual Meeting, Dallas, TX.
83. Yamane, D., Takhar, S., Hou, P.C., Wilcox, S., Schreiber, H., Okechukwu, I., Bajwa, E., Hess, D.R., Camargo, C.A., Greenberg, S.M., Rosand, J., Pallin, D.J., **Goldstein, J.N.**, Elmer, J. Clinical utility and cost of blood cultures in intensive care unit patients with spontaneous intracerebral hemorrhage. Oral presentation, 2014 Neurocritical Care Society Annual Meeting, Seattle, WA.



84. Yamane, D., Takhar, S., Hou, P.C., Wilcox, S., Schreiber, H., Okechukwu, I., Bajwa, E., Hess, D.R., Camargo, C.A., Greenberg, S.M., Rosand, J., Pallin, D.J., **Goldstein, J.N.**, Elmer, J. Clinical utility and cost of blood cultures in intensive care unit patients with spontaneous intracerebral hemorrhage. Abstract, 2014 Neurosciences in Intensive Care International Symposium, Paris, France.
85. Arillaga-Romany, I., Singhal, A., Jarhult, S., Gill, C., Cordier, A., White, B., Jones, S., Pisapia, M., Cahill, D., Curry, W., **Goldstein, J.**, Batchelor, T. Newly diagnosed single brain mass-implementation and performance of a hospital-wide management pathway. Abstract, 2015 American Academy of Neurology Annual Meeting, Washington, DC.
86. Marshall, A., Levine, M., Howell, M., Chang, Y., Riklin, E., Parry, B.A., Callahan, R.T., Okechukwu, I., Ayres, A.M., Nahed, B., Dzik, W., **Goldstein, J.N.** Dose related pulmonary complication rates after fresh frozen plasma administration for warfarin reversal. Abstract, 2015 International Society of Thrombosis and Hemostasis Annual Meeting, Toronto, CA.
87. Levine, M., Marshall, A., Howell, M.L., Thomas, S.H., Riklin, E., Parry, B.A., Callahan, R.T., Okechukwu, I., Ayres, A.M., Nahed, B.V., Dzik, W.S., **Goldstein, J.N.** Thromboembolism after emergency warfarin reversal with fresh frozen plasma. Abstract, 2015 American College of Emergency Physicians Annual Meeting, Boston, MA.
88. Jarhult, S.J., Chang, Y., White, B., Howell, M.L., Amatangelo, M., Brown, D.F., Singhal, A., Schwamm, L.H., **Goldstein, J.N.**, Silverman, S.B. A rapid protocol-based TIA management pathway decreases length of stay. Abstract, 2015 Northeast Cerebrovascular Consortium (NECC) 10<sup>th</sup> Annual Summit, Newport, RI.
89. Morotti, A., Jessel, M., Brouwers, H.B., Falcone, G.J., Schwab, K., Ayres, A.M., Vashkevich, A., Anderson, C.D., Viswanathan, A., Greenberg, S.M., Gurol, M.E., Romero, J.M., Rosand, J., **Goldstein, J.N.** CT angiography spot sign, hematoma expansion and outcome in primary pontine intracerebral hemorrhage. Abstract, 2016 International Stroke Conference, Los Angeles, CA.
90. Grunwald, Z., Urday, S., Beslow, L., Vashkevich, A., Simard, M., Rosand, J., Greenberg, S.M., **Goldstein, J.N.**, Battey, T., Kimberly, W.T., Sheth, K.N. Perihematomal Edema Expansion Rate Predicts Functional Outcome in Deep Intracerebral Hemorrhage. Abstract, 2016 International Stroke Conference, Los Angeles, CA.
91. Boulouis, G., Morotti, A., Charidimou, A., Brouwers, H.B., Auriel, E., Pontes-Neto, O., Ayres, A., Vashkevich, A., Schwab, K., Rosand, J., **Goldstein, J.N.**, Greenberg, S.M. CT Hypodensities in Acute Intracerebral Hemorrhage Predict Hematoma Expansion. Abstract, 2016 International Stroke Conference, Los Angeles, CA.
92. Boulouis, G., Charidimou, A., Auriel, E., Haley, K.E., van Etten, E.S., Fotiadis, P., Reijmer, Y.D., Riley, G.A., Vashkevich, A., Gomes, T.M., Ayres, A., Schwab, K., Martinez-Ramirez, S., **Goldstein, J.N.**, Viswanathan, A., Greenberg, S.M., Gurol, M.E. Is There “Crosstalk” Between Intracranial Arterial Pathologies and Small Vessel Disease? Abstract, 2016 International Stroke Conference, Los Angeles, CA.
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