

**The George Washington University
CURRICULUM VITAE**

Last updated: February 2015

1. Personal Data

Name: **Jesse M. Pines, MD, MBA, MSCE, FACEP, FAAEM**

Office address: 2100 Pennsylvania Ave. N.W. Room 314
Washington DC 20037

Mobile phone: 202-577-5084

Office telephone: 202-994-4128

Email addresses: pinesj@gwu.edu; jesse.pines@gmail.com; jpines@mfa.gwu.edu

Birthplace: Washington D.C.

Citizenship: U.S.A.

LinkedIn: www.linkedin.com/in/jessepines

Twitter: @DrJessePines

2. Education

A. High School Education

The Maret School, Washington, DC, 1991

B. Undergraduate Education

Universidad de Alicante, Alicante, Spain, Penn Summer Program in Spanish Studies, 1994

University of Pennsylvania, Bachelor of Arts with Honors, Biological Basis of Behavior, Minor in Chemistry, 1995

C. Graduate/Medical Education

Georgetown University School of Medicine, Medical Doctor, 2001

Georgetown University McDonough School of Business, Masters in Business Administration, 2001

University of Pennsylvania School of Medicine, Masters of Science in Clinical Epidemiology, 2007

D. Post-Graduate Training

Internship and Residency in Emergency Medicine, University of Virginia Health Sciences Center, 2001-4

Fellow, Center for Education and Research in Therapeutics (CERTs), Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania Perelman School of Medicine, 2004-6

3. Employment

A. Faculty appointments

Lecturer in Emergency Medicine, Hospital of the University of Pennsylvania, 2004-7

Assistant Professor of Emergency Medicine, Hospital of the University of Pennsylvania, 2007-9

Assistant Professor of Epidemiology, University of Pennsylvania Perelman School of Medicine, 2007 – 9

Associate Professor of Emergency Medicine, George Washington University School of Medicine and Health Sciences, 2010 – 3

Associate Professor of Health Policy, George Washington University School of Public Health and Health Services, 2010 – 3

Professor of Emergency Medicine, George Washington University School of Medicine and Health Sciences, 2013 – pres.

Professor of Health Policy, George Washington University Milken Institute School of Public Health and Health Services, 2013 – pres.

B. Professional Appointments

Intern, Food and Drug Law Institute, Washington, DC, 1990

Intern, Food and Drug Administration, Rockville, MD, 1992

Teaching Assistant, The Maret School Summer Program in Subtropical Ecology, Sanibel, FL, 1995

Intern, Office of Senator Joseph Lieberman (D-CT), Washington, DC, 1995

Intern, The White House Domestic Policy Council, Office of Healthcare Policy, Washington, DC, 1995

Research Assistant, Schering-Plough Research Institute, 1996

Research Assistant, Clinical Economics Research Unit (under Kevin Schulman, MD, MBA), Georgetown University, 1997

Senior Advisor, Rapid-Cycle Evaluation Group, Center for Medicare and Medicaid Innovation Center, Centers for Medicare & Medicaid Services (CMS), 2011-2

Visiting Scholar, The Brookings Institution, 2014 – pres.

4. Professional Registrations, Licenses and Certifications

A. Specialty Certification

Diplomate, American Board of Emergency Medicine, 2006 – pres.

B. Other Certification

Advanced Cardiac Life Support, 2001 – pres.

Pediatric Advanced Life Support, 2001 – pres.

Advanced Trauma Life Support, 2001 – pres.

C. Medical Licensure

Pennsylvania, 2004 – 10

District of Columbia, 2010 – pres.

5. Societies and Honors

A. Awards, Honors and Membership in Honorary Societies:

Graduated with Honors, University of Pennsylvania College of Arts & Sciences, 1995

Eliot Stellar Research Prize for Best Undergraduate Poster, Society for Neuroscience of Philadelphia, 1995

Medical Student Research Award, American Cancer Society, 1998

Beta Sigma Gamma Honor Society (top 10% of class), McDonough School of Business, Georgetown University, 2001

Gregory M. Chirikjian Award for Outstanding Biomedical Research, Georgetown University School of Medicine, 2001

American Academy of Emergency Medicine (AAEM)/Journal of Emergency Medicine Resident Research Competition, 2004

AAEM Resident of the Year, 2004

Honorable Mention, University of Pennsylvania Healthsystem Quality & Patient Safety Award (Team Leader), 2006

Best Presentation By A Young Investigator, Society for Academic Emergency Medicine (SAEM). "The Impact Of ED Crowding On Antibiotic Timing In Patients With Pneumonia", 2007

Clinical Research Award, Institute On Aging, University of Pennsylvania "The Effect of ED and Hospital Crowding On Survival, Length of Stay, and Financial Outcomes", 2008

Society for Academic Emergency Medicine (SAEM) Best Young Investigator Award, 2009

Trailblazer of Emergency Medicine Foundation (for the 40th anniversary), 2012

B. Memberships in Professional & Scientific Societies:

National:

American Academy of Emergency Medicine, 2000 – pres.

Emergency Medicine Residents Association, 2000-4

Society for Academic Emergency Medicine, 2001 – pres.

American College of Emergency Physicians, 2001-4, 2007 – pres.

Secretary-Treasurer, Resident Section, AAEM, 2002-3

Editor, Resident Section of AAEM Newsletter "Commonsense", 2002-3

Resident Representative, AAEM Board of Directors, 2003-4

President, Resident Section, AAEM, 2003-4

Subcommittee on ED Design and Throughput (Chair), AAEM, 2004-5

Research Committee, SAEM, 2004-5, 2006-7

Immediate Past President, Resident Section, AAEM, 2004-5

Reimbursement Committee, AAEM, 2004-6

Emergency Medicine Practice Committee, AAEM, 2004 – 9

Young Physician Taskforce, AAEM, 2005-6

Fellow, AAEM, 2006 – pres.

Vice President, Young Physician Section, AAEM, 2006-7

At-Large Board Member, Young Physician Section, AAEM, 2007-8

Emergency Department Crowding Taskforce, SAEM, 2007-9

Research Committee, ACEP, 2007- pres.

Speakers Bureau, ACEP national media representative on ED crowding, 2007 – pres.

Pipeline Subcommittee, ACEP, 2008 – 9

Representative of AAEM to the Emergency Nurses Association on ED boarding for psychiatric patients, 2008

Grant Reviewer, Canadian Academy of Emergency Physicians, 2008 – 11

ED quality measures in pediatric emergency care working group, Member (throughput & efficiency), PECARN, 2008-10

Representative of AAEM to the Emergency Nurses Association on ED crowding & boarding, 2009-10

Working Group, ACC/AHA/PCPI Committee on Measures for Chronic Stable Coronary Disease, 2009

Academic Affairs Committee, AAEM, 2009

Emergency department crowding interest group, SAEM, 2009-10 (Chair),
Member 2011-pres.

Guidelines Committee, SAEM, 2009-10

Quality and Performance Committee, ACEP, 2009-11, 2012-pres.

External Collaboration Committee, SAEM, 2010-11

Fellow, ACEP, 2010-pres.

Regionalized Emergency Medical Care Services: Phase I Steering
Committee, National Quality Forum, 2011-12

Chairman, Editorial Board, Urgent Matters, 2011 – pres.

Cost-Effective Care Task Force, ACEP, 2012 – 3

Patient Safety Task Force, ACEP, 2012 – 4

Co-Chair, ACEP Subcommittee to QPC on Payment Reform, 2014 – pres.

SAEM Representative to ACEP Hospital Transparency Working Group,
2015 – pres.

Local:

Medical Society of Virginia, 2001-4

Pennsylvania Chapter of the American College of Emergency Physicians,
2007-9

Pennsylvania ACEP Taskforce on Emergency Department Crowding,
2007-8

District of Columbia Chapter of the American College of Emergency
Physicians, 2010 – pres.

Invited Referee to Peer-Reviewed Journals:

Reviewer, Academic Emergency Medicine, 2006-pres.

Reviewer, Canadian Journal of Emergency Medicine, 2006 – pres.

Reviewer, Lancet, 2006-pres.

Reviewer, Annals of Emergency Medicine, 2006 – pres.

Reviewer, American Journal of Emergency Medicine, 2006-pres.

Reviewer, Journal of the American Medical Association, 2008 –pres.

Reviewer, American Journal of Managed Care, 2008-pres.

Reviewer, Journal of Pain, 2008-pres.

Reviewer, Journal of Emergency Medicine, 2009-pres.

Reviewer, PLoS ONE, 2009-pres.

Reviewer, Archives of Internal Medicine, 2009-pres.

Reviewer, Journal of Healthcare Engineering, 2009 –pres.

Reviewer, Health Policy, 2010-pres.

Reviewer, Health Affairs, 2010-pres.

Reviewer, Pediatrics, 2010-pres.

Reviewer, Critical Care Medicine, 2010-pres.

Reviewer, Journal of Hospital Medicine, 2010-pres.

Reviewer, Canadian Medical Association Journal, 2012-pres.

Reviewer, Medicare and Medicaid Research Review, 2012-pres.

Reviewer, New England Journal of Medicine, 2013 – pres.

Reviewer, Annals of Surgery, 2013 – pres.

Reviewer, Health Services Research, 2013 – pres.

Reviewer, Annals of Internal Medicine, 2014 – pres.

Reviewer, Psychiatric Services, 2015 – pres.

Reviewer, PLOS one, 2015 – pres.

Editorial Positions at Peer-Reviewed Journals:

Associate Editor, Medicare and Medicaid Research Review, 2012-4

Associate Editor, Academic Emergency Medicine, 2012-pres.

6) Administrative Duties & University Activities

A. Administrative Appointments

Associate Director, Emergency Care Policy & Research Division, Department of Emergency Medicine, Hospital of the University of Pennsylvania, 2006-9

Director, Fellowship in Health Policy and Emergency Medicine, University of Pennsylvania Perelman School of Medicine, 2009 (mentored 1 fellow – Josh Hilton, MD)

Director, Center for Health Care Quality, Department of Health Policy, George Washington University School of Public Health and Health Services, 2010-3

Director, Health Operations and Health Policy Fellowship, George Washington University Medical Faculty Associates, 2011-3 (mentored 1 fellow, Jameel Abualenain, MD, MPH), 2013 – 4 (1 fellow, Khaled Alghamdi, MD)

Mentor, Innovation Advisors Program, Center for Medicare and Medicaid Innovation, CMS, 2012 (Co-mentored with Blair Sadler, former President and CEO of Rady San Diego Children's Hospital [1980-2006], a group of 10 advisors conducting hospital-based quality improvement projects)

Director, Emergency Medicine Research Fellowship for International Medical Graduates, George Washington University, 2011-2 (Program with 8 fellows total; mentored 2 fellows: Mahfood Alqatari, MD; Taibah Alabdrabalnabi, MD)

Medical Director, Medical Research Fellowship Program, George Washington University School of Medicine and Health Sciences, 2012-pres. (2012-3: 11 post-doctoral fellows, mentored 2 fellows: Abdulaziz Almehlisi, MD; Ahmed Alquathami, MD; 2013-4: 18 post-doctoral fellows; 2014-pres. 19 post-doctoral fellows, mentoring Waleed Hussein, MD)

Founder and Director, Office for Clinical Practice Innovation, School of Medicine and Health Sciences, George Washington University, 2013 – pres.

B. Other University Appointments

Fellow, Institute On Aging, University of Pennsylvania, 2006-9

Senior Scholar, Center for Clinical Epidemiology and Biostatistics,
University of Pennsylvania Perelman School of Medicine, 2007-9

Senior Fellow, Leonard Davis Institute of Health Economics, University
of Pennsylvania, 2007 – 9

Member, Institute for Translational Medicine and Therapeutics, University
of Pennsylvania, 2008- 9

C. Academic and Institutional Committees

Internal Review Board, Plastic Surgery Fellowship Program, University of
Virginia Health Sciences Center, 2002

Improving Pneumonia Care Committee, Hospital of the University of
Pennsylvania, 2005-6

Discharge Planning Committee, Center for Evidence-Based Practice,
University of Pennsylvania Perelman School of Medicine, 2006

Admissions Committee, Center for Clinical Epidemiology and
Biostatistics, University of Pennsylvania Perelman School of Medicine,
2007-9

Impact Committee, Center for Clinical Epidemiology and Biostatistics,
University of Pennsylvania Perelman School of Medicine, 2007-9

Undergraduate Medical Education Committee, Center for Clinical
Epidemiology and Biostatistics, University of Pennsylvania Perelman
School of Medicine, 2008-9

Accountable Care Organization Committee, Medical Faculty Associates,
George Washington University, 2010-11

Research Committee, Department of Health Policy, George Washington
University, 2012 – 3

Recruitment Committee, Department of Emergency Medicine, George
Washington University, 2012 – pres.

Appointment and Promotion Committee, Department of Emergency
Medicine, George Washington University, 2013 – pres.

Judge, GW Business Plan Competition, 2014

Member, GW School of Medicine and Health Sciences, Strategic Planning Committee for Research, 2014

7. Educational Achievements

A. Major Academic and Clinical Teaching Responsibilities

Co-Course Director, The New Healthcare Marketplace, Georgetown University School of Medicine, along with Louis Jacques, MD – taught to 1st year medical students, 1999 (a newly developed course)

Founder and Course Director, Interdisciplinary Studies (INST202, INST203, INST401), Clinical Emergency Medicine Research, UVA College of Arts and Sciences (Fall 2002 – Spring 2004) – taught to 2nd, 3rd & 4th year undergraduates, named the one of the top courses for pre-med students at UVA, Fall 2003, a newly developed course), 2002-4

Attending physician in emergency medicine, Hospital of the University of Pennsylvania, 2004-9

Faculty, Academic Associate Program, Clinical Emergency Medicine Research (BBB 491), University of Pennsylvania – for undergraduate and post-baccalaureate students, 2004-9 (Taught periodic lectures, mentored students on projects)

Small group discussion leader, Differential Diagnosis (MD305), University of Pennsylvania School of Medicine – taught to 2nd year medical students, 2005-8

Course Director, Clinical-Decision Making (MD321), University of Pennsylvania School of Medicine – taught to entire 1st year medical student class (managed >150 medical students and >20 faculty, revamped the curriculum), 2008 (Course Director), 2009 (Co-Course Director along with Craig Umscheid, MD, MSCE)

Course Director, Sub-internship In Emergency Medicine (EM308/400), University of Pennsylvania School of Medicine (2-8 students per month) – taught to 4th year medical students, 2008-9

Small group discussion leader, Introduction to Epidemiology and Biostatistics, University of Pennsylvania School of Medicine – taught to 1st year medical students, 2008-9

Attending physician in emergency medicine, George Washington University Hospital, 2010-pres.

Small group leader, POM 4, Clinical Decision Making and Evidence-Based Medicine (3-hour lecture, given twice per year). George Washington University School of Medicine and Health Sciences – taught to 4th year medical students, 2010-pres.

Co-Course Director, Healthcare Quality and Health Policy, George Washington University School of Public Health and Health Services - taught to MPH students, along with Jane Thorpe (a newly developed course, 20 students per year), 2011-pres.

B. Teaching Awards

Faculty Teaching Award, University of Pennsylvania ED Residency Program, 2009

AAEM Young Educator Award, 2010 (National award)

C. Mentoring

Undergraduate students (University of Pennsylvania): Ashley Kurz (2005, Current position: Anesthesia Resident, Thomas Jefferson University), Anjali Prabhu (2007 – 9, Current position: Internal Medicine Resident, U Colorado), Arjun Prabhu (2008 – 10, Current position: Bioethics Masters, U Penn)

Post-baccalaureate students (Penn): Josh Isserman (2007-8, Current position: Doctoral fellow, Penn)

MD students: Kevin Buford (2004-5, Penn, Current position: Asst Professor of EM, LSU), Melinda Morton (2005-6, Penn, Current position: EM physician, U.S. Army), Julie Cooper (2006-7, Penn, Current position: Asst Professor of EM, Christiana Care) (Winner, best Emergency Medicine Research project at Penn, 2007), Sanjay Iyer (2007-8, Penn, Current position: EM physician, Georgia Emergency Physicians), Adam Lessler (2008-9, Penn, Current position: Associate, McKinsey), Daniel del Portal (2008-9, Penn, Current position: Asst Professor of EM, Temple U), Jillian Mongelluzzo (2009, Penn, Current position: EM resident, UCSF), Elizabeth Almasi (2009, Penn, Current position: Internal Medicine Resident, GWU); Elyse Katz (2010-1., GWU, EM Resident, St. Luke's Roosevelt); Erik Smith (2012, GWU, Current position: Anesthesia Resident, U Maryland); Christopher D'Avella (2012-3., GWU); Adnan Hussain (2012-3., GWU); Amy Waldner (2013-4, GWU); Kristy Hawley (2013-pres., GWU)

MD residents and fellows: Rex Matthew, MD (2005, Penn resident, Current position: System Coordinator of Clinical Operations, EMA); Jane Prosser, MD (2005-6, Penn resident; Asst Professor of EM, Weill Cornell Medical College); Dustin Mark, MD (2006, Penn resident, Current position: EM physician, Kaiser); Carolyn Phillips, MD (2006, Penn resident; Current position: Asst Professor of EM, Georgetown/Medstar); Chad Garson, MD (2006-7, Penn resident; Current position: EM physician, Abington Memorial Hospital); Hoi Lee, MD (2006-7, Penn resident; Current position: EM physician, Bryn Mawr Hospital); Demian Szyld, MD (2006-9, Penn resident; Current position: Asst Professor of EM, NYU); Sujit Iyer, MD (2007-9, Pediatric Emergency Medicine, Children's Hospital of Philadelphia; Current position: Pediatric EM physician, Dell Children's Hospital) (2007-9); Michael Ward, MD, MBA (2008-10, University of Cincinnati resident, fellow 2010-3; Current position: Asst Professor of EM, Vanderbilt); Jesse Civan, MD (2008-9, Penn resident; Current position: Transplant hepatologist, Thomas Jefferson); Pia Chatterjee, MD (2008-9, Penn resident; Current position: Asst Professor of EM, NYU); Joshua Hilton, MD (2009-11, Penn fellow; Current position: Consultant, BCG); Dana Kindermann, MD (2010-2, Georgetown resident, fellow 2012-3; Current position: EM physician, Kaiser); Sophie Rahman Morgan, MD, MBA (2010-2, Georgetown resident; Current position: Asst Professor of EM, Emory); Jameel Abualenain, MD (2010-11., GWU resident; 2011-3 GWU fellow; Current position: Asst Professor of EM, GWU; Asst Professor of EM, King Abdulaziz University, Saudi Arabia); Mary Tanski, MD (2012-3, GWU resident; Current position: Medical Director, Oregon Health Sciences University ED); Jessica Gallaraga (2013-pres., GWU resident)

Master's degree candidates: Akira Nishisaki, MD (2008-11; Masters of Science in Clinical Epidemiology, Current position: Attending Physician, Department of Anesthesia and Critical Care Medicine, Children's Hospital of Philadelphia); Evan Williamson (2010; MPH GWU; NQF Staff); Julianne Brown (2011; MPH GWU); Ahmed Alqathami, MD (2012-3; MHSA GWU, International Fellowship Program; Current position: Health Policy PhD candidate, VCU)

Doctoral candidates: Robert Batt, MBA (2009-11, Wharton School, University of Pennsylvania, PhD program in Operations Management; Current position: Asst Professor of Operations Management, U Wisconsin); Lisa Feng (2011- 2, DrPH Committee GWU; Current position: Staff at RTI); Sally Turbyville (2011- 3., DrPH Committee GWU); Kelly Zimmerman (2012-pres., PhD, Systems Engineering); Mahesh Shukla, MD (2013, DrPH Reader GWU); Bill Freeman (2014-pres.; DrPH Committee Chair)

Other research fellows: Mahfood Alqatari, MD (GWU 2011-2; Current position: Pathology resident Mt. Sinai); Taibah Alabdrabalnabi, MD (GWU 2011-2; Current position: EM Resident, Baystate); Abdulaziz Almehlisi MD (GWU 2012-3; Current position: EM resident, GWU); Khaled Alghamdi, MD (GWU 2013-4; Current position: EM physician, King Faisal Specialist Hospital, Saudi Arabia); Waleed Hussein, MD (2014 – pres.)

D. Organizing Roles in Scientific Meetings/Moderated Sessions

Abstract reviewer, ACEP Research Forum, 2007-pres.

Moderator, Poster session on ED handoffs, SAEM, 2008

Abstract reviewer, Mid-Atlantic SAEM meeting, 2009

Moderator, Oral presentations on Clinical Decision Rules, SAEM, 2009

Co-Chair along with Brent Asplin MD, Improving the Quality and Efficiency of Emergency Care: A Systems Approach (funded by AHRQ, ACEP, EMF, and SAEM) (140 attendees), 2009

Moderator, Oral Presentations on the Impact of ICU utilization on the ED, SAEM, 2010

Moderator, Oral Presentations in Productivity, Mid-Atlantic SAEM, 2011

Co-Chair along with Melissa McCarthy ScD, Academic Emergency Medicine Consensus Conference, – Interventions to Improve Quality in the Crowded Emergency Department (funded by AHRQ and RWJF) (130 attendees), 2011

Moderator, Quality & Patient Safety Poster Session, ACEP, 2011

Moderator, Practice Management Poster Session, ACEP, 2011

Moderator, ED crowding and boarding, lightning orals, SAEM, 2012

Moderator, Rethinking triage, SAEM, 2012

Chair, Urgent Matters, Care Coordination in the Era of Healthcare Reform, (Half-day conference preceding the ACEP Scientific Assembly) (90 attendees), Denver, CO, 2012

Chair, Urgent Matters, Quality Improvement and Patient Safety Interventions in Emergency Departments, (Half-day conference preceding the ACEP Scientific Assembly) (140 attendees), Seattle, WA, 2013

Planning Committee, InnovateED (Area at ACEP Scientific Assembly intended to highlight the ED of the future), Seattle, WA, 2013

Chair, Urgent Matters, Patient Safety Innovation in the Emergency Department, (Half-day conference preceding the ACEP Scientific Assembly), (120 attendees) Chicago, IL, 2014

Moderator, Diagnostic Testing in the ED, Academic Emergency Medicine Consensus Conference, San Diego, CA, 2015 (planned)

8) Consultant Appointments

A. Consulting

Consultant, McKinsey and Company (Developed a business plan for the Washington Home's move to Prospective Payment System) Washington, DC, 1998 (unpaid)

Board of Directors, Bethesda Venture Capital Biotechnology Fund, 2000-1 (paid)

Emergency Department Advisory Board, Pfizer, Inc, 2007 (paid)

Advisory Board, Emergency Excellence, Inc, 2009-pres. (unpaid)

Advisory Board Member, National Center for Health, Statistics / Academy Health Fellowship Program (Help select NCHS fellows), 2010 – pres. (unpaid)

Emergency Department Advisory Board, Given Imaging, 2011-2 (Advised on ED market for Pill-Cam) (paid)

Emergency Department Advisory Board, CSL Behring, 2011 (paid)

Consultant (Patient Safety and Complications Committee and Regionalized Emergency Care Medical Services Committee) National Quality Forum, Washington, DC, 2012 – pres. (paid)

Consultant, Emergency Medicine Action Fund (Helped create a website of the ED health policy literature), 2012 (paid)

Consultant, Boehringer Ingelheim, 2012, 2014 (Advisor on ED market for new oral anticoagulants) (paid)

Consultant, University of Cincinnati (Helped develop a practice guideline for the ED care of angioedema), 2012 (paid)

Consultant, Stanford University (Advised on the development of ED community indicators for AHRQ), 2013 (paid)

Consultant, Institute of Medicine (Co-authored a report on the future of emergency preparedness funding), 2013 (paid)

Consultant, SE Quality Consulting (Developer of ED platform, consultant), 2013 – pres. (paid)

Consultant, Premed Advisory Team (Advisor to pre-med students), 2013 – pres. (paid)

Technical Expert Panelist, ED Admission Group, Harvard University, 2014 (paid)

Consultant, Eli-Lilly (Advisor on Population Health), 2014 (paid)

Advisory Board, Clinical Research in Emergency Services and Treatments (CREST) Network, Kaiser Permanente California, 2014 – pres. (unpaid)

Consultant, ED Crowding Advisory Panel, Oregon Health Sciences University, 2014 – pres. (paid)

Consultant, Acute Stroke Advisory Panel, Medtronic, 2015 (paid)

B. Visiting Professorships / Invited Grand Rounds Lectures (External)

1. ED Crowding and Outcomes, Cooper University Hospital, Camden, NJ (Grand Rounds – Emergency Medicine), 2008
2. Grand Rounds on Emergency Department Crowding and Career Advancement, Harvard University, Brigham and Women's Hospital (Emergency Medicine), Boston, MA, 2009
3. Emergency Department Crowding Update – Johns Hopkins University, Baltimore, MD (Grand Rounds - Department of Emergency Medicine), 2009
4. Emergency Department Crowding: Past, Present, Future. Grand Rounds, York Hospital, York, PA, 2009

5. Launching an academic career – Washington Hospital Center, Washington, DC (Grand Rounds, Department of Emergency Medicine), 2010
6. Interventions to relieve ED crowding. Northwestern U, Chicago, IL (Grand Rounds, Emergency Medicine), 2010
7. Grand Rounds Speaker, Trends in Emergency Care: A 2013 Update, Department of Emergency Medicine, Brown University, Providence, RI, 2013
8. Grand Rounds Speaker, Emergency Department Crowding and Boarding, Department of Emergency Medicine, Brown University, Providence, RI, 2013
9. Grand Rounds Speaker, Patient Safety Issues in Boarding and Crowding, Department of Emergency Medicine, SUNY Stonybrook, Stonybrook, NY, 2013
10. Grand Rounds Speaker, Interventions to Alleviate Crowding and Boarding, Medical University of South Carolina, Charleston, SC, 2013
11. Grand Rounds Speaker, Update on Emergency Care Policy, Department of Emergency Medicine, University of Wisconsin, Madison, WI, 2013
12. Grand Rounds Speaker, Emergency Care Policy: An Update, Department of Emergency Medicine, New York University, New York, NY, 2013
13. Grand Rounds Speaker, Strategies to Improve ED crowding, University of Maryland Department of Emergency Medicine, Baltimore, MD, 2013
14. Grand Rounds Speaker, Baylor College of Medicine, Department of Emergency Medicine, Anticipated Changes in ED payments with the ACA Houston, TX, 2014
15. Grand Rounds Speaker (NorthShore University Healthsystem Annual Mulroy Lecture), Evanston Hospital, Department of Emergency Medicine, University of Chicago, The ED and Health Reform, Evanston, IL, 2014
16. Grand Rounds Speaker, Veterans Administration Hospital, Department of Internal Medicine, Clinical Practice Innovation in GW School of Medicine and Health Sciences, Washington, DC, 2014
17. Grand Rounds Speaker, Dell Children’s Medical Center, Austin TX, 2015 (planned)
18. Grand Rounds Speaker, University of Cincinnati, Department of Emergency Medicine, Cincinnati, OH, 2015 (planned)

9) Grants Awarded

A. Current Grant / Research Contract Support

1. Emergency Medicine Foundation

Health Policy Fellowship

Role: Senior Advisor (2014 – 5), 3% effort

Mentoring a junior researcher (Venkatesh) and developing an emergency medicine health services research and policy agenda.

2. Abbott Point-of-Care

Adapting Emergency Severity Index (ESI) Triage for Point-of-Care Testing

Role: PI, 8% effort (2013-5)

Developing and testing an updated version of the ESI triage tool to include POC testing.

3. Abbott Point-of-Care

The Impact of Point-of-Care testing on Quality and Flow in the Emergency Department

Role: PI, 5% effort (2014-5)

Conducting a mixed-methods study on the impact of point-of-care testing on emergency department quality metrics and flow

4. Centers for Medicare and Medicaid Services – Research, Measurement, Assessment, Design, and Analysis (RMADA) IDIQ

Role: PI (Partner to NORC)

5. GW Hospital

Resident Leadership Awards in Hospital Innovation

Role: PI, 5% effort (2014-6)

6. United Medical Center

Exploring Frequent ED Use and HIV Screening at United Medical Center (UMC)

Role: PI, 8% effort (2014-5)

7. The Brookings Institution

Exploring payment reform in acute and emergency care in the United States

Role: PI, 15% effort (2014-5)

8. The Assistant Secretary for Preparedness and Response, Emergency Care Coordinating Center

Developing a model for acute care management for the United States

Role: PI, 15% effort (2014-5)

9. Urgent Matters

Disseminating best practices in emergency care through webinars, newsletters, conferences, podcasts, and an Innovation of the Year Award
Various funders: 8 specialty organizations, Schumacher Group, Blue Jay Consulting
Role: PI, 4% effort (2014 – pres)

10. Abbott Point-of-care
Conducting a cost-effectiveness analysis of implementation of point-of-care lactate testing in the ED
Role: PI, 4% effort (2015-pres.)

B. Past Grant / Research Contract Support

1. National Institute of Alcohol Abuse and Alcoholism
Role: Co-I (2004-6), PI: Bernstein
R03 1R03AA015127-01
Brief alcohol screening in emergency departments
Tested the impact of a brief, structured screen and intervention in the emergency department

2. Agency for Health Research and Quality
Role: Funded Fellow (2004-7), 75% effort, PI: Strom
5U18HS10399
Centers for Education and Research in Therapeutics
Completed a mentored fellowship under Joshua Metlay, MD, PhD and finished a Masters of Science in Clinical Epidemiology at the University of Pennsylvania School of Medicine

3. Emergency Medicine Foundation
Role: PI (2006-7), 20% effort
The effect of ED crowding on time to antibiotics in pneumonia
Tested the association between ED crowding levels and delays in antibiotics in ED patients with community-acquired pneumonia

4. University Research Foundation, University of Pennsylvania
Role: Co-PI (2006), PI: Rhodes
Funded a conference aimed at developing a new Division in the Department of Emergency Medicine, the Emergency Care Research & Policy Group

5. Institute on Aging, University of Pennsylvania
Role: PI (2008-9), 8% effort
The effect of emergency department crowding on older adults
Tested the association between ED crowding, boarding, and inpatient outcomes including mortality, hospital length of stay, and readmission in older adults.

6. Thomas McCabe Fund, University of Pennsylvania

Role: PI (2008-9), 8% effort

The effect of ED crowding on cardiovascular complication in ED patients with chest pain. Assessed the association between ED crowding and post-ED complications in a prospective cohort of ED patients with ACS and non-ACS related chest pain.

7. Emergency Medicine Foundation

Role: PI (2008-9), 20% effort

The association between ED boarding and hospital profitability
Built a simulation model to determine the profitability of ED boarding in one-hospital.

8. Agency for Healthcare Research and Quality

Role: PI (2009-10), Co-PI: Asplin

1R13HS018114-01

Emergency care across the continuum: A systems approach

Funded a one-day conference to create a research agenda around improving ED operations and care coordination.

9. University Research Foundation, University of Pennsylvania

Role: PI (2009-10), 20% effort

The effect of insurance status on ED transfers

Assessed the relationship between insurance status on the probability of ED transfer in the National Hospital Ambulatory Medical Care Survey

10. American Geriatrics Society, Dennis Jahnigen Career Development Award

Role: PI (2008-10), 35% effort

The effect of ED crowding on delirium in older adults

A prospective study assessing the association between ED crowding and the incidence of delirium in older adults.

11. American College of Emergency Physicians – Quality Improvement and Patient Safety Section Grant

Role: PI (2010-11), Co-PI (Kelly)

A conceptual model for procedural safety in the ED

Drafted a manuscript to create a conceptual model for procedural safety for emergency departments in the United States.

12. Agency for Healthcare Research and Quality

Role: PI (2010-11), 5% effort, Co-PI: McCarthy (GWU)

1R13HS020139-01; Also co-funded by Robert Wood Johnson Foundation

Interventions to Assure Quality in the Crowded Emergency Department

To administer the 2011 SAEM Consensus Conference on ED crowding interventions. This project is co-funded by the Robert Wood Johnson Foundation.

13. Abbott Point-of-Care

Role: Co-PI (2009-11), 4% effort, PI: Becker (University of Pennsylvania)
Integrating I-Stat at ED triage
Tested the impact of I-Stat laboratory testing on ED triage during times of ED crowding.

14. National Priorities Partnership on Aging

Role: PI (2011), 10% effort

Trends in the quality of emergency care for older adults

Assessing changes in the quality of ED care for older adults using the National Hospital Ambulatory Medical Care Survey

15. University Seminar, George Washington University

Role: PI (2011-12)

Emergency Medicine and Public Health Preparedness in American Society

Conducted a series of seminars exploring the future of emergency care. This resulted in the publication of “Emergency Care and the Public’s Health” (2014).

16. AHRQ ACTION II Network RFTO #12

Reducing Hospital Readmissions for Medicaid Patients

Role: Co-I (2011-13), 5% effort, PI (Regenstein)

Explore and test ways to reduce readmissions for Medicaid enrollees in six states.

17. Given Imaging

Cost-Effectiveness of Pill Endoscopy for ED Upper GI hemorrhage

Role: PI (2012), 5% effort

Developed cost-effectiveness analysis for the use of pill endoscopy to reduce ED admissions for upper gastrointestinal hemorrhage in the ED

18. McKesson Foundation

Role: Co-I (2011-13), 5% effort, PIs (Sikka, Cohen)

Mobilizing for Health

Tested a mobile health intervention to improve diabetes education for high-risk diabetics in the emergency department.

19. Department of Homeland Security

Role: Co-I (2010-4), 8% effort, PI: Rothman (Johns Hopkins)

Clinical utility of pre-emptive surge measures enacted as a result of conventional and internet-based syndromic surveillance

Comparing conventional v. internet based syndromic surveillance on hospital-based strategies to improve surge capacity.

20. Robert Wood Johnson Foundation (2010-4), American College of Emergency Physicians (2010-4)

Role: PI, varying 5-20% effort

Urgent Matters

To assess interventions to reduce crowding across six emergency departments, disseminate knowledge through newsletters, webinars, and maintain the Urgent Matters Toolkit, and conduct novel research to advance the science of ED crowding.

21. Abbott Point-of-Care

Disseminating Best Practices on Point-of-Care Testing in the ED

Role: PI, 3% effort (2014)

10. Publications

A. Books

1. Holstege CP, Baer AB, **Pines JM**, Brady WJ. Visual Diagnosis In Emergency and Critical Care Medicine. 1st edition. BMJ Press, Blackwell-Synergy. November 2006 ISBN: 1405134917, 2nd edition 2011 ISBN: 144433347X
2. **Pines JM**, Everett WW. Evidence-Based Diagnostic Testing for Emergency Care. BMJ Press, Blackwell-Synergy. 2008 ISBN: 1405154004, 2nd edition, 2013 **Pines JM**, Carpenter CR, Raja A, Schuur J. ISBN: 0470657839
3. **Pines JM**, Abualenain J, Scott J, Shesser R. Emergency Care and the Public's Health. Wiley-Blackwell. 2014 ISBN: 1118779800

B. Original research publications, peer-reviewed (print or other media)

1. Davis HR Jr, Mullins DE, **Pines JM**, Hoos LM, France CF, Compton DS, Graziano MP, Sybertz EJ, Strader CD, Van Heek M. Effect of Chronic Central Administration of Glucagon-Like-Peptide-1 (7-36) Amide on Food Consumption and Body Weight in Normal and Obese Rats: *Obes Res*. 1998;6: 147-156.
2. **Pines JM**, Fager SS, Milzman D. Analyzing Costing Studies in Critical Care: Evaluating Methodologies. *J Crit Care*. 2002;17(3):181-6
3. Schulman KA, Stadtmauer EA, Reed SD, Glick HA, Goldstein LJ, **Pines JM**, Jackman JA, Suzuki S, Styler MJ, Crilley PA, Klumpp TR, Mangan KF, Glick JH. Economic analysis of conventional-dose chemotherapy compared with high-dose chemotherapy plus autologous hematopoietic stem-cell transplantation for metastatic breast cancer. *Bone Marrow Transplant*. 2003;31:205-10
4. **Pines JM**, Braithwaite S. Surveys of Emergency Medicine Residents and Program Directors on Documentation and Coding Education and Practice. *West J Emerg Med*, 2004;5:3-8

5. Martin ML, Blevins T, O'Connor V, **Pines JM**, Srinivasan R. Society for Academic Emergency Medicine Survey of the AAMC Council of Academic Societies. *Acad Emerg Med*. 2004;11:844-847
6. **Pines JM**, Perina DG, Brady WJ. Electrocardiogram Interpretation Training In US Emergency Medicine Residency Programs. *Acad Emerg Med*. 2004;11:982-984
7. **Pines JM**, Uscher-Pines L, Hall A, Hunter J, R Srinivasan, CA Ghaemmaghani. The Inter-rater Variation Of Emergency Department Abdominal Exam Findings In Patients With Acute Abdominal Pain. *Am J Emerg Med*. 2005;23:483-487.
8. **Pines JM**, Perron AD. Oligoanalgesia In ED Patients With Isolated Extremity Injury Without Documented Fracture. *Am J Emerg Med* 2005;23:580.
9. **Pines JM**, Rich VL, Schwartz AR, Mathew R, Kurz AE, Datner EM, Sites FD, Hollander JE. Lack of Utility of Telemetry Monitoring During Transport to Inpatient Beds for Identification of Dysrhythmias For Emergency Department Patients With Potential and Known Acute Coronary Syndromes. *Crit Pathw Cardiol*. 2005;4:117-120
10. **Pines JM**, Buford K. Predictors of frequent emergency department use for asthmatics in southeastern Pennsylvania. *J Asthma*. 2006;43:219-23
11. Thompson DA, Eitel D, Fernandes C, **Pines JM**, Amsterdam J, Davidson S. Coded Chief Complaints – Automated analysis of free-text complaints and reporting of an emergency department case mix. *Acad Emerg Med*. 2006;13:774-82.
12. **Pines JM**, Hollander JE, Localio AR, Metlay JP. The association between ED crowding and hospital performance on antibiotic timing for pneumonia and percutaneous intervention for myocardial infarction. *Acad Emerg Med*. 2006;13:873-8.
13. **Pines JM**, Morton MJ, Datner EM, Hollander JE. Systematic Delays In Antibiotic Administration In The Emergency Department For Adult Patients Admitted With Pneumonia. *Acad Emerg Med*. 2006;13:939-45.
14. **Pines JM**, Prosser JM, Everett WW, Goyal M. Predictive values of triage temperature and pulse for antibiotic administration and admission in elderly emergency department patients with potential infection. *Am J Emerg Med* 2006 ;24:679-83.

15. Fishman PE, Shofer FS, Robey JL, Zogby KE, Reilly PM, Branas CC, **Pines JM**, Hollander JE. The impact on trauma alert activations on the care of ED patients with potential acute coronary syndrome. *Ann Emerg Med.* 2006;48:347-53
16. Haltiwanger KA, **Pines JM**, ML Martin ML. The pediatric emergency department: a substitute for primary care? *West J Emerg Med.* 2006;7:26-30.
17. Somers MP, **Pines JM**, Brady WJ, Caovan D. Internet-based survey on the use of additional lead electrocardiograms and thrombolysis of posterior and right ventricular acute myocardial infarctions. *Am J Emerg Med* 2007;25:258-61.
18. Prosser JM, Perrone J, **Pines JM**. The epidemiology of intentional non-fatal self-harm poisoning in the United States: 2001-2004. *J Med Toxicol.* 2007;3:20-4.
19. **Pines JM**, Reiser RC, Brady WJ, Braithwaite S, Ghaemmaghani CA, Cardella K, Martin ML. The effect of performance incentives for resident documentation in an emergency medicine residency program. *J Emerg Med.* 2007; 32:315-9.
20. **Pines JM**, Lee H, Hollander JE, Everett WW, Uscher-Pines L, Metlay JP. Emergency Department Operational Changes in Response to Pay-for-Performance and Antibiotic Timing in Pneumonia. *Acad Emerg Med.* 2007;14:545-48.
21. Martin-Gill C, Baer AB, Holstege CP, Eldridge DL, **Pines JM**, Kirk MA. Poison Centers as Information Resources for Volunteer EMS in a Suspected Chemical Exposure. *J Emerg Med.* 2007;32:397-403.
22. Garson C, Hollander JE, Rhodes KV, Shofer FS, Baxt WG, **Pines JM**. Emergency Department Patient Preferences For Boarding Locations When Hospitals Are At Full Capacity. *Ann Emerg Med.* 2008; 51:9-12.
23. **Pines JM**, Szyld D. Risk tolerance for the exclusion of life-threatening diseases in the emergency department. *Am J Emerg Med* 2007;25:540-4.
24. **Pines JM**, Localio AR, Hollander JE, Baxt WG, Lee H, Phillips C, Metlay JP. The Impact Of ED Crowding on Time To Antibiotics in Community-Acquired Pneumonia. *Ann Emerg Med.* 2007;50:510-6
25. **Pines JM**, Garson C, Baxt WG, Rhodes KV, Shofer FS, Hollander JE. Emergency Department Crowding Is Associated with Variable Perceptions Of Care Compromise. *Acad Emerg Med.* 2007; 14:1176-81

26. Bernstein E, Bernstein J, Feldman J, Fernandez W, Hagan M, Mitchell P, Safi C, Woolard R, Mello M, Baird J, Lee C, Bazargan-Hejazi S, Broderick K, Laperrier KA, Kellermann A, Wald MM, Taylor RE, Walton K, Grant-Ervin M, Rollinson D, Edwards D, Chan T, Davis D, Buchanan Marshall J, Aseltine R, James A, Schilling E, Abu-Hasaballah K, Baumann BM, Boudreaux ED, Maio RF, Cunningham RM, Murrell T, Doezema D, Anglin D, Eliassen A, Martin M, **Pines J**, Buchanan L, Turner J, D'Onofrio G, Degutis LC, Owens P. An Evidence Based SBIRT Curriculum Improves Performance of ED Providers. *Substance Abuse* 2007;28:79-92.
27. Academic ED SBIRT Research Collaborative (...**Pines JM**...) The Impact of Screening, Brief Intervention and Referral for Treatment on Emergency Department Patients' Alcohol Use. *Ann Emerg Med* 2007; 50:699-710, 710.e1-6
28. **Pines JM**, Hollander JE. Emergency department crowding is associated with poorer care for patients with severe pain. *Ann Emerg Med.* 2008;51:1-5 (*one of the five most cited articles in Annals of Emergency Medicine 2008-14*)
29. Cooper JC, Datner EM, **Pines JM**. The Impact Of A Chest Radiograph At Triage Protocol to Improve Time To Antibiotic Administration For Patients With Pneumonia. *Am J Emerg Med* 2008;26:264-9.
30. Umscheid CA, Maguire MG, **Pines JM**, Everett WW, Baren JM, Townsend RR, Mines DM, Szyld D, Gross R. Untreated Hypertension and the Emergency Department: A Missed Opportunity to Intervene? *Acad Emerg Med.* 2008;15:529–536
31. Meisel ZF, Pollack CV, Mechem C, **Pines JM**. Development of Prediction Rule For Hospital Admission Using Pre-hospital Data. *Prehosp Emerg Care* 2008;12:314-9
32. Goyal M, **Pines JM**, Drumheller BC, Gaieski DF. Point-of-Care Testing at Triage Decreases Time to Lactate Level in Septic Patients. *J Emerg Med* 2010;38:578-81.
33. Dean AJ, Breyer MJ, Ku BS, Mills AM, **Pines JM**. Emergency ultrasound usage among recent emergency medicine residency graduates of a convenience sample of 14 residencies. *J Emerg Med* 2010;38:214-20
34. **Pines JM**, Iyer S, Hollander JE, Disbot M, Datner EM. The Effect Of Emergency Department Crowding On Patient Satisfaction for Admitted Patients. *Acad Emerg Med.* 2008;15:825-31.

35. Carr BG, Hollander JE, Baxt WG, Datner EM, **Pines JM**. Trends in boarding of admitted patients in US emergency departments 2003-2005. *J Emerg Med* 2010;39:506-11
36. **Pines JM**, Localio AR, Hollander JE. Racial disparities in boarding times for admitted patients in United States emergency departments. *Acad Emerg Med*. 2009;16:403-10
37. Hoot NR, Epstein SK, Allen TL, Jones SS, Baumlin KM, Chawla N, Lee AT, **Pines JM**, Klair AK, Gordon BD, Flottesmesch TJ, LeBlanc LJ, Jones I, Levin SR, Zhou C, Gadd CS, Aronsky D. Forecasting Emergency Department Crowding: An External, Multi-Center Evaluation. *Ann Emerg Med*. 2009;54:514-522
38. **Pines JM**, Isserman JA, Hollander JE, Chen EH, Dean AJ, Shofer FS, Mills AM. The association between physician risk tolerance and imaging use in abdominal pain. *Am J Emerg Med* 2009;27:552-7.
39. **Pines JM**, McCusker CM, Hollander JE. The effect of emergency department crowding on education. *Am J Emerg Med* 2010;28:217-20
40. **Pines JM**. Trends in the rates of radiography use and important diagnoses in emergency department patients with abdominal pain. *Med Care* 2009;47:782-6
41. Meisel ZF, Pollack CV, Mathew R, Prabhu A, **Pines JM**. Multi-center Validation of the Philadelphia EMS Admission Rule (PEAR) to Predict Hospital Admission in Adult Patients Using Out-of-Hospital Data. *Acad Emerg Med*. 2009;16:519-25.
42. Mills AM, Shofer FS, Hollander JE, Chen EH, **Pines JM**. The Effect of Emergency Department Crowding on Patients with Abdominal Pain. *Acad Emerg Med*. 2009;16:603-8.
43. **Pines JM**, Isserman JA, Szyld D, Dean AJ, McCusker CM, Hollander JE. The effect of risk tolerance and an observation unit on decision making in patients with chest pain. *Am J Emerg Med* 2010;28:771-9.
44. **Pines JM**, Pollack CV, Diercks DB, Chang AM, Shofer FS, Hollander JE. Association Between Cardiovascular Complications and Emergency Department Crowding. *Acad Emerg Med*. 2009;16:617-25
45. Panebianco NL, Fredette JM, Szyld D, Sagalyn EB, **Pines JM**, Dean AJ. What You See (Sonographically) Is What You Get: Vein and Patient Characteristics Associated With Successful Ultrasound-guided Peripheral

Intravenous Placement in Patients With Difficult Access *Acad Emerg Med.* 2009; 16:1298-1303.

46. delPortal DA, Shofer FS, Mikklesen ME, Dorsey PJ, Gaeiski DF, Synnestvedt M, Weiner MG, **Pines JM**. Emergency department lactate is associated with mortality in older adults with and without infections. *Acad Emerg Med.* 2010;17:260-8. (Chosen for the 2012 American Board of Emergency Medicine Life Long Learning and Self-Assessment examination)
47. Schuur JD, Tibbetts SA, **Pines JM**. Pregnancy Testing In Women of Reproductive Age in U.S. Emergency Departments 2002-2006: Assessment of a National Quality Measure. *Ann Emerg Med* 2010;55:449-457
48. **Pines JM**, Shofer FS, Isserman JA, Abbuhl SB, Mills AM. The effect of emergency department crowding on analgesia in patients with back pain in two hospitals. *Acad Emerg Med.* 2010;17:276-83.
49. Gaieski DF, Mikkelsen ME, Band RA, **Pines JM**, Massone R, Furia FF, Shofer FS, Goyal M. Impact of time to antibiotics on survival in patients with severe sepsis or septic shock in whom early goal-directed therapy was initiated in the emergency department. *Crit Care Med.* 2010;38:1045-53
50. Lessler AL, Isserman JA, Agrawal R, Palevsky HI, **Pines JM**. Testing Low-risk Patients for Suspected Pulmonary Embolism: A Decision Analysis. *Ann Emerg Med.* 2010; 55:316-326.
51. **Pines JM**, Mongelluzzo J, Hilton JA, Hollander JE, Shofer FS, Souder J, Synnestvedt M, Weiner MG, Datner EM. Post-discharge adverse events for one-day hospital admissions in older adults admitted from the emergency department. *Ann Emerg Med* 2010;56:253-7
52. Hwang U, Baumlin K, Berman J, Chawla N, Handel DA, Heard K, Livote E, **Pines JM**, Yadav K. A multicenter evaluation of the association of ED crowding and laboratory turnaround time. *Acad Emerg Med.* 2010; 17:501-7.
53. Mikkelsen ME, Gaieski DF, Goyal M, Miltiades AN, Munson JC, **Pines JM**, Fuchs BD, Shah CV, Bellamy SL, Christie JD. Factors Associated with Non-Adherence with Early-Goal-Directed Therapy In the Emergency Department. *Chest.* 2010;138:551-8
54. Mills AM, Baumann BM, Chen EH, Zhang KY, Glaspey L, Hollander JE, **Pines JM**. The Impact of Crowding on Time Until Abdominal CT Scan Interpretation in Emergency Department Patients with Acute Abdominal Pain. *Postgrad Med J.* 2010;122:1-7.

55. **Pines JM**, Prabhu A, Hilton JA, Hollander JE, Datner EM. The impact of emergency department crowding on length of stay and medication treatment times in discharged patients with acute asthma. *Acad Emerg Med*. 2010;17:834-9.
56. Hirschmann KB, Paik H, **Pines JM**, Naylor MD, Hollander JE. Screening for cognitive impairment in the Emergency Department to identify potential subjects for clinical research. *West J Emerg Med* 2011;12:56-62
57. Napoli AM, Fischer CM, **Pines JM**, Soe-lin H, Goyal M, Milzman D. Absolute Lymphocyte Count in the Emergency Department Predicts a Low CD4 count in admitted HIV Positive Patients. *Acad Emerg Med* 2011;18:385-9
58. Chatterjee P, Cucchiara B, Lazarcuic N, Shofer FS, **Pines JM**. Emergency department crowding and time to head CT in patients with acute stroke. *Stroke* 2011;42:1074-80
59. Hwang U, Aronksy D, Asplin B, Crane PW, Epstein SK, Fee C, Handel DA, McCarthy ML, Morgan-Edwards S, **Pines JM**, Rathlev NK, Schafermeyer RW, Zwemer FL, Bernstein SL. Measures of emergency department crowding: A systematic review *Acad Emerg Med* 2011;18:527-538
60. Academic ED SBIRT Research Collaborative...**Pines JM**. The impact of screening, brief intervention and referral for treatment in emergency department patients' alcohol use: a 3-, 6- and 12-month follow-up. *Alcohol Alcohol*. 2010;45:514-9.
61. Singer AJ, Viccellio P, Thode HC, **Pines JM**. The Association Between Emergency Department Boarding and Mortality. *Acad Emerg Med* 2011;18:1324-9 (*Chosen for the 2013 American Board of Emergency Medicine Life Long Learning Self-Assessment examination on Patient Safety*)
62. Kelly JJ, Farley H, O'Cain C, Broida RI, Klauer K, Fuller D, Meisl H, Phelan MP, Thallner E, **Pines JM**. A Survey of the Use of Time Out Protocols in Emergency Medicine. *J Comm J Qual Pat Safety* 2011;37:285-8. (*Chosen for the 2013 American Board of Emergency Medicine Life Long Learning Self-Assessment examination on Patient Safety*)
63. Handel DA, **Pines JM**, Aronksy D, Genes N, Ginde AA, Hackman J, Hilton JA, Hwang U, Kamali M, Powell E, Sattarian M, Fu R. Variations in Crowding and Ambulance Diversion in Nine Emergency Departments. *Acad Emerg Med* 2011;18:941-6

64. **Pines JM**, Batt R, Hilton JM, Terwiesch C. The financial consequences of lost demand and reducing boarding in hospital emergency departments. *Ann Emerg Med* 2011;58:331-340
65. McClelland M, Jones K, Siegel B, **Pines JM**. The Benefit and Burden of Emergency Department Time-Based Quality Measures. *Ann Emerg Med* 2012 59:1-10
66. Meisel ZF, **Pines JM**, Polsky D, Metlay JP, Neuman M, Branas C. The Effect of Health Insurance Status on Ambulance Utilization in the United States. *Acad Emerg Med* 2011;18:1036-44.
67. Carpenter CR, Schuur JD, Everett WW, **Pines JM**. Evidence Based Diagnostics: Adult Septic Arthritis. *Acad Emerg Med* 2011;18:781-96.
68. McCarthy ML, Ding R, Hilton JA, **Pines JM**, Sattarian M, Terwiesch C, Zeger SL. Provider Variation in Fast Track Length of Stay. *Medical Care* 2012; 50:43-49.
69. Fields, JM, Todman RW, Panebianco NL, Anderson KL, **Pines JM**, Dean AJ. The effect of vessel depth, diameter, and location on ultrasound-guided peripheral intravenous catheter longevity. *Am J Emerg Med* 2012 ;30:1134-40.
70. McCarthy ML, Ding R, **Pines JM**, Zeger S. Comparison of Methods For Measuring Crowding and Its Effects on Length of Stay in the Emergency Department. *Acad Emerg Med* 2011;18:1269-77
71. Dugas A, Hsieh YH, Levin S, **Pines JM**, Mareiniss D, Mohareb A, Gaydos C, Rothman RE. Google Flu Trends: Correlation with Emergency Department Influenza Rates and Crowding Metrics. *Clin Infect Dis* 2012;54:463-9.
72. Sikka N, Pirri M, Norbury K, **Pines JM**. The use of mobile phone cameras in guiding treatment decisions for lacerations. *Telemed J E Health*. 2012;18:554-7
73. Sikka N, Carlina KN, **Pines JM**, Pirri M, Strauss R, Rahimia F. The Use of Mobile Phones for Acute Wound Care: Attitudes and Opinions of Emergency Department Patients. *J Health Commun*. 2012;17:37-43
74. Nishisaki A, **Pines JM**, Lin R, Helfaer MA, Berg RA, TenHave T, Nadkarni VM. The Impact of 24-hour In-hospital Pediatric Critical Care Attending Physician Presence on Process of Care and Patient Outcomes. *Crit Care Med* 2012;40:2190-5

75. **Pines JM**, Decker SL, Hu T. Exogenous predictors of national performance measures for emergency department crowding. *Ann Emerg Med* 2012;60:293-8.
76. Katz EB, Carrier ER, Umscheid CA, **Pines JM**. Comparative Effectiveness of Care Coordination Interventions in the Emergency Department: A Systematic Review. *Ann Emerg Med* 2012;60:12-23
77. Wiler JL, Handel DA, Ginde AA, Aronsky D, Genes NG, Hackman JL, Hilton JA, Hwang U, Kamali M, **Pines JM**, Powell E, Sattarian M, Fu R. Predictors of Patient Length of Stay in 9 Emergency Departments. *Am J Emerg Med*. 2012;30:1860-4
78. **Pines JM**, Ward MJ, Lessler AL, Courtney DM. The mortality benefit threshold for patients with suspected pulmonary embolism. *Acad Emerg Med* 2012;19:E1109-E1113.
79. Pitts SR, **Pines JM**, Handrigan MT, Kellermann AL. National Trends in Emergency Department Occupancy, 2001 to 2008: Effect of Inpatient Admissions Versus Emergency Department Practice Intensity. *Ann Emerg Med*. 2012;60:679-686.e3
80. **Pines JM**, Isserman JA, Kelly JJ. Perceptions of Emergency Department Crowding in the Commonwealth of Pennsylvania. *West J Emerg Med* 2013;14:1-10.
81. Ward MJ, Bonomo JB, Adeoye O, Raja AS, **Pines JM**. Cost-Effectiveness of Diagnostic Strategies for Evaluation of Suspected Subarachnoid Hemorrhage in the Emergency Department. *Acad Emerg Med* 2012; 19:1134-1144.
82. Soremkun OA, Datner EM, Bahn S, Becker LB, **Pines JM**. Utility of Point-of-Care Testing in ED triage. *Am J Emerg Med* 2013;31:291-6
83. Delgado MK, Liu V, **Pines JM**, Kipnis P, Gardner MN, Escobar GJ. Risk factors for unplanned transfer to intensive care within 24 hours of admission from the emergency department in an integrated healthcare system. *J Hosp Med*. 2013;8:13-9
84. **Pines JM**, Mullins PM, Cooper JK, Feng LB, Roth KE. National trends in emergency department use, care patterns, and quality for older adults in the United States. *J Am Geriatr Soc*. 2013;61:12-7.
85. Pourmand A, Lucas R, **Pines JM**, Shokoohi H, Yadav K. Bedside Teaching on Time to Disposition Improves Length of Stay for Critically-ill Emergency Departments Patients. *West J Emerg Med* 2013; 14:137-40

86. Abualenain J, Frohna WJ, Smith M, Pipkin M, Webb C, Milzman D, **Pines JM**. The Prevalence of Quality Issues and Adverse Outcomes among 72-Hour Return Admissions in the Emergency Department. *J Emerg Med*. 2013;45:281-8.
87. Uscher-Pines L, **Pines JM**, Kellermann AL, Gillen E, Mehrotra A. Predictors of Non-Urgent Use of the Emergency Department in the US: A Systematic Review of the Literature. *Am J Manag Care*. 2013;19:47-59
88. Delgado MK, Meng LJ, Mercer MP, **Pines JM**, Owens DK, Zaric GS. Reducing Ambulance Diversion at the Hospital and Regional Level: A Systematic Review of Insights from Simulation Models. *West J Emerg Med* 2013;14:489-498.
89. Mullins PM, Goyal M, **Pines JM**. National growth in intensive care unit admissions from emergency departments in the United States from 2002 to 2009. *Acad Emerg Med* 2013; 20:479-86.
90. Abualenain J, Frohna WJ, Shesser R, Ding R, Smith M, **Pines JM**. Emergency Department Physician-Level and Hospital-Level Variation In Admission Rates. *Ann Emerg Med* 2013; 61:638-643.
91. Meltzer AC, Burnett S, Pinchbeck C, Brown AL, Choudhri T, Yadav K, Fleischer DE, **Pines JM**. Pre-endoscopic Rockall and Blatchford scores to identify Emergency Department patients with suspected gastrointestinal bleed who do not need endoscopic hemostasis. *J Emerg Med* 2013;44:1083-7.
92. Meltzer AC, Ali MA, Kresiberg RB, Patel G, Smith JP, **Pines JM**, Fleischer DE. Video Capsule Endoscopy in the Emergency Department: A Prospective Study of Acute Upper Gastrointestinal Hemorrhage. *Ann Emerg Med* 2013; 61:438-443.
93. **Pines JM**, Zocchi M, Mutter RM. The variation in emergency department admission rates across the United States. *Med Car Res Rev*. 2013;70:218-31
94. Vashi AA, Fox JP, Carr BG, D'Onofrio G, **Pines JM**, Ross JS, Gross CP. Hospital based, acute care utilization among patients recently discharged from the hospital. *JAMA*. 2013; 309: 364-71.
95. Meltzer AC, Pierce R, Cummings DA, **Pines JM**, May L, Smith MA, Marcotte J, McCarthy ML. Rapid 13C Urea Breath Test to Identify Helicobacter pylori Infection in Emergency Department Patients with Upper Abdominal Pain. *West J Emerg Med*. 2013;14:278-282.

96. Kindermann D, Mutter R, **Pines JM**. Emergency Department Transfers to Acute Care Facilities, 2009. *HCUP Statistical Brief #155*, 2013; <http://www.hcup-us.ahrq.gov/reports/statbriefs/sb155.pdf>
97. Morgan SR, Chang AM, Alqatari M, **Pines JM**. Non-Emergency Department (ED) Interventions to Reduce ED Utilization: A Systematic Review. *Acad Emerg Med* 2013; 20:969-985.
98. Feng LB, **Pines JM**, Yusuf H, Grosse SD. U.S. Trends in the Rates of Computed Tomography Use and Diagnoses of Pulmonary Embolism and Pneumonia in Emergency Departments. *Acad Emerg Med* 2013; 20:1033-1040.
99. Dugas A, Morton M, Beard R, **Pines JM**, Bayram J, Hsieh YH, Kelen G, Uscher-Pines L, Jeng K, Cole, G, Rothman RE. Interventions to Mitigate the Impact of Emergency Department and Hospital Crowding During a Respiratory Disease Outbreak. *PLOS Curr* 2013 doi:pii: S0196-0644(13)01333-4.
100. Mazer-Amirshahi M, Mullins PM, Rasooly IR, van den Anker J, **Pines JM**. Trends in prescription opioid use in pediatric emergency department patients. *Pediatr Emerg Care*. 2014;30:230-5.
101. Carpenter CR, **Pines JM**, Schuur JD, Muir M, Calfee R, Raja A. Adult Scaphoid Fracture. *Acad Emerg Med* 2014; 21:101-21.
102. May L, Mullins PM, **Pines JM**. Demographic and Treatment Patterns for Infections in Ambulatory Settings in the United States, 2006-10. *Acad Emerg Med* 2014;1:17-24.
103. Mazer-Amirshahi M, Mullins PM, Rasooly IR, Van den Anker J, **Pines JM**. Rising Opioid Prescribing in Adult U.S. Emergency Department Visits: 2001–2010. *Acad Emerg Med* 2014; 21: 236-43.
104. Henneman PL, Nathanson BH, Li H, Tomaszewski A, **Pines JM**, Handel DA, Balasubramanian H, Lamanski MJ. Is Outpatient ED Care Profitable? Hourly Contribution Margins by Insurance for Patients Discharged From an Emergency Department. *Ann Emerg Med* 2014;63:412-417.
105. Alquthami AH, **Pines JM**. A systematic review of noncommunicable health issues in mass gatherings. *Prehosp Disaster Med*. 2014;29(2):1-9 .
106. Gallaraga JE, **Pines JM**. Anticipated Changes in Reimbursements for U.S. Outpatient Emergency Department Encounters After Health Reform. *Ann Emerg Med* 2014;63:404-411.

107. Rasooly IR, Mullins PM, Alpern ER, **Pines JM**. U.S. Emergency Department Utilization by Children, 2001-2010. *Pediatr Emerg Care* 2014; 30: 602-7.
108. Kindermann DR, Mutter RL, Cartright-Smith L, Rosenbaum S, **Pines JM**. Admit or transfer? The role of insurance in high-transfer-rate medical conditions in the emergency department. *Ann Emerg Med* 2014; 63:561-571.
109. Meltzer AM, Ward MJ, Gralnek I, **Pines JM**. Cost-Effectiveness Analysis of Video Capsule Endoscopy Compared to Other Strategies for Acute Upper GI Hemorrhage. *Am J Emerg Med* 2013 Epub
110. Ward MJ, Landman AB, Case K, Berthelot K, Pilgrim RL, **Pines JM**. The Effect of Electronic Health Record Implementation on Community Emergency Department Operational Measures of Performance. *Ann Emerg Med* 2014; 63:723-30
111. Kindermann DR, McCarthy ML, Ding R, Frohna WJ, Hansen J, Maloy K, Milzman DP, King K, Scofi J, Sudekem V, Weiss B, **Pines JM**. Emergency department variation in utilization and diagnostic yield of advanced radiography in diagnosis of pulmonary embolus. *J Emerg Med* 2014;46:791-9
112. Lindor RA, Campbell RL, **Pines JM**, Melin GJ, Schipper AM, Goyal DG, Sadosty AT. EMTALA and Psychiatric Patients: A Review of Relevant Case Law. *Ann Emerg Med* 2014;64:439-44.
113. Mullins PM, **Pines JM**. National emergency department crowding and hospital quality: Results from 2013 Hospital Compare data. *Am J Emerg Med* 2014;32:634-9.
114. Mazer-Amirshahi M, Mullins P, Meltzer A, van den Anker J, **Pines JM**. Rising rates of proton pump inhibitor prescribing in U.S. emergency departments. *Am J Emerg Med* 2014;32:618-22.
115. Rasooly I, Mullins PM, Mazer-Amirshahi M, van den Anker J, **Pines JM**. The Impact of Race on Analgesia Use Among Pediatric Emergency Department Patients. *J Pediatr* 2014; 165:618-21.
116. Mazer-Amirshahi M, May L, Brooks G, Mullins P, van den Anker J, **Pines JM**. The Impact of Pediatric Labeling Changes on Prescribing Patterns of Cough and Cold Medications. *J Pediatr* 2014; 165:1024-1028.
117. Mazer-Amirshahi M, Perrone J, Nelson L, Mullins P, **Pines JM**. Trends in Opioid Analgesic Prescribing for Headaches in U.S. Emergency Departments. *Am J Emerg Med* 2014; 32: 1068-73.

118. Napoli AM, Mullins PM, **Pines JM**. Predictors of Hospital Admission after Emergency Department Observation Unit Care. *Am J Emerg Med* 2014; 32:1405-7.
119. Smith MW, Barrett ML, Elixhauser A, Honigman L, **Pines JM**. Utilization of Hospital Intensive Care Services, 2011. *AHRQ Stat Brief* (in press)
120. Zocchi M, Carr BC, Hsia RY, Sarani B, **Pines JM**. Comparison Of Mortality and Costs Among Minor and Moderately Injured Adults At Trauma and Non-Trauma Centers In California. *Ann Emerg Med* (in press)
121. Sax DR, Mutter RL, Houchens R, Barrett ML, **Pines JM**. The Transfer Stability Index: A New Measure of Emergency Care Regionalization. *Acad Emerg Med* (in press)
122. Sax DR, Mutter RL, Houchens R, Barrett ML, **Pines JM**. Emergency Department Transfers and Transfer Relationships in U.S. Hospitals. *Acad Emerg Med* (in press)
123. Galarraga JE, Mutter R, **Pines JM**. Costs Associated with Ambulatory Care Sensitive Conditions Across Hospital-Based Settings. *Acad Emerg Med* (in press)
124. **Pines JM**, Zocchi MS, Buchanan ME, Alghamdi K, Lazar D, Rosenau A, Shah, MN, Travers D. Creating Emergency Department Point-of-Care Testing Protocols: An Expert Panel and Delphi Process. *Am J Emerg Med Epub*
125. Hussein W, Mullins PM, Alghamdi K, Sarani B, **Pines JM**. Trends in Advanced Radiography Use for Injured Patients in U.S. Emergency Departments: 2007-10. *Acad Emerg Med* (in press)
126. Spector WD, Limcangco R, Mutter RL, **Pines JM**, Owens P. Inpatient admission from the emergency department for adults with injuries: Health insurance coverage and trauma designation. *Am J Emerg Med* (in press)
127. **Pines JM**, Keyes V, van Hasselt M, McCall N. Emergency Department and Inpatient Hospital Use by Medicare Beneficiaries In Patient-Centered Medical Homes. *Ann Emerg Med* (in press)
128. McClelland M, Lazar D, Wolfe L, Goetz-Goldberg D, Zocchi M, Twosten J, **Pines JM**. The Hospital Culture of Transitions in Care: Survey Development. *J Nurs Care Qual* (in press)

C. Research publications, peer-reviewed reviews

1. **Pines JM.** Profiles in Patient Safety: Confirmation bias in emergency medicine. *Acad Emerg Med.* 2006; 13: 90-94
2. **Pines JM.** The Economic Role of the Emergency Department in the Health Care Continuum: Applying Michael Porter's Five-Forces Model To Emergency Medicine. *J Emerg Med.* 2006; 30: 447-53
3. **Pines JM.** Profiles in patient safety: Antibiotic timing and pay-for-performance. *Acad Emerg Med.* 2006; 13:787-90
4. **Pines JM, Hollander JE, Datner EM, Metlay JP.** Pay for performance for antibiotic timing in pneumonia: Caveat emptor. *Jt Comm J Qual Patient Saf.* 2006;32:531-535.
5. Mark DG, **Pines JM.** The detection of non-traumatic subarachnoid hemorrhage: still a diagnostic challenge. *Am J Emerg Med.* 2006 24:859-63.
6. **Pines JM.** Within the Inflamed Lung Signs, symptoms & treatment of pneumonia in adults & children. *JEMS.* 2007;32:64-75.
7. **Pines JM.** Timing of antibiotics in acute, severe infections. *Emerg Med Clin North Am.* 2008;26:245-257.
8. Eitel DR, Rudkin SE, Malvey MA, Killeen JP, **Pines JM.** Improving Service Quality By Understanding Emergency Department Flow: A White Paper and Position Statement Prepared For the American Academy of Emergency Medicine. *J Emerg Med.* 2010;38:70-9.
9. Bernstein SL, Aronsky D, Schull M, Duseja R, Epstein S, Handel D, Hwang U, McCarthy M, McConnell J, **Pines JM,** Rathlev N, Schafermeyer R, Zwemer F, Asplin BR. The Effect of ED Crowding on Clinically-Oriented Outcomes. *Acad Emerg Med.* 2009;16:1-10.
10. Carpenter CR, Kiem SM, Seupaul RA, **Pines JM.** Differentiating Low-Risk and No-Risk PE Patients: The PERC Score. *J Emerg Med.* 2009;36:317-22.
11. **Pines JM.** To Transfer or Not to Transfer [Spotlight]. AHRQ WebM&M [serial online]. January 2009. Available at: <http://webmm.ahrq.gov/case.aspx?caseID=191>.
12. Mark DG, Brady WJ, **Pines JM.** Pre-excitation syndromes: diagnostic consideration in the emergency department. *Am J Emerg Med.* 2009; 27:878-88.

13. Punja M, Mark DG, McCoy JV, Javan R, **Pines JM**, Brady WJ
Electrocardiographic Manifestations of Cardiac Infectious-Inflammatory Disorders. *Am J Emerg Med.* 2010;28:364-77.
14. Borloz MP, Mark DG, **Pines JM**, Brady WJ. ECG differential diagnosis of narrow QRS complex tachycardia: An ED-oriented algorithmic approach. *Am J Emerg Med.* 2010;28:378-81.
15. **Pines JM**, Isserman JA, Hinfey PA. The measurement of time to first dose antibiotic in the ED: A position statement for the American Academy of Emergency Medicine. *J Emerg Med.* 2009;37:335-40.
16. Cheung DS, Kelly JJ, Beach C, Berkeley RP, Bitterman RA, Broida RI, Dalsey WC, Farley HL, Fuller DC, Garvey DJ, Klauer KM, McCullough LB, Patterson ES, Pham JC, Phelan MP, **Pines JM**, Schenkel SM, Tomolo A, Turbiak TW, Vozenilek JA, Wears RL, White ML; American College of Emergency Physicians Section of Quality Improvement and Patient Safety. Improving Handoffs in the Emergency Department. *Ann Emerg Med.* 2010;55:171-80.
17. Handel DA, Hilton JA, Ward M, Rabin E, **Pines JM**. ED Throughput, Crowding and Financial Outcomes for Hospitals. *Acad Emerg Med* 2010;17:840-7.
18. **Pines JM**, Fee C, Fermann GJ, Ferroggiaro AA, Irvin CB, Mazer M, Peacock WF, Schuur JD, Pollack CV. The Role of the Society for Academic Emergency Medicine in the Development of Guidelines and Performance Measures. *Acad Emerg Med* 2010;17:e130-40.
19. Borloz MP, Mark DG, **Pines JM**, Brady WJ. ECG Differential Diagnosis of Narrow Complex Tachycardia. *Emergencias* 2010;22.
20. Pilgrim R, Hilton JA, Carrier E, **Pines JM**, Hufstetler G, Thorby S, Milling TJ, Cesta B, Hsia RY. Research Priorities for Administrative Challenges of Integrated Networks of Care. *Acad Emerg Med.* 2010;17:1330-1336.
21. Glickman SW, Kit Delgado M, Hirshon JM, Hollander JE, Iwashyna TJ, Jacobs AK, Kilaru AS, Lorch SA, Mutter RL, Myers SR, Owens PL, Phelan MP, **Pines JM**, Seymour CW, Ewen Wang N, Branas CC. Defining and Measuring Successful Emergency Care Networks: A Research Agenda. *Acad Emerg Med.* 2010;17:1297-1305.
22. Schuur JD, Baugh CW, Hess E, Hilton JA, **Pines JM**, Asplin BR. Critical Pathways for Post-Emergency Outpatient Diagnosis and Treatment: Tools to Improve the Value of Emergency Care. *Acad Emerg Med* 2011;18:e52-63.

23. Handel DA, Nathanson L, Wears RL, **Pines JM**. Health Information Technology in the ED: A Research Agenda. *Acad Emerg Med* 2011;18:e45-51.
24. **Pines JM**, Asplin BR, Kaji AH, Lowe RA, Magid DJ, Raven M, Weber EJ, Yealy DM. Frequent users of emergency department services: Gaps in knowledge and a proposed research agenda. *Acad Emerg Med* 2011;18:e64-69.
25. **Pines JM**, Asplin BR. Conference Proceedings: Improving the Quality and Efficiency of Emergency Care Across the Continuum: A Systems Approach. *Acad Emerg Med* 2011;18:655-61.
26. Quest TE, Asplin BR, Cairns CB, Hwang, U, **Pines JM**. Research Priorities for Palliative and End of Life Care in the Emergency Setting. *Acad Emerg Med* 2011;18:e70-76.
27. Braithwaite SA, **Pines JM**, Asplin BR, Epstein SK. Enhancing Systems to Improve the Management of Acute, Unscheduled Care. *Acad Emerg Med* 2011;18:e39-44.
28. Drozda J Jr, Messer JV, Spertus J, Abramowitz B, Alexander K, Beam CT, Bonow RO, Burkiewicz JS, Crouch M, Goff DC Jr, Hellman R, James T 3rd, King ML, Machado EA Jr, Ortiz E, O'Toole M, Persell SD, **Pines JM**, Rybicki FJ, Sadwin LB, Sikkema JD, Smith PK, Torcson PJ, Wong JB. ACCF/AHA/AMA-PCPI 2011 Performance Measures for Adults With Coronary Artery Disease and Hypertension: A Report of the American College of Cardiology Foundation/American Heart Association Task Force on Performance Measures and the American Medical Association-Physician Consortium for Performance Improvement. *Circulation*. 2011;124:248-70 and *J Am Col Cardiol*. 2011;58:316-36.
29. Astle S, Banschbach SK, Briggs WT, Durkin WT Jr, Groah LK, Guglielmi C, Gurney D, Hughes NL, Jouriles N, Millin MG, Pilgrim R, **Pines JM**, Russell HE, Schneider SM, Stone-Griffith SK, Thorby S, Tsarouhas N. Development of Consensus Statement on Definitions for Consistent Emergency Department Metrics. *J Emerg Nurs*. 2012;38:270-2.
30. **Pines JM**, Hilton JA, Weber EJ, Alkemade AJ, Al Shabanah H, Anderson PD, Bernhard M, Bertini A, Gries A, Ferrandiz S, Kumar V, Harjola V, Hogan B, Madsen Bo, Mason S, Öhlén G, Rainer T, Rathlev N, Revue E, Richardson D, Sattarian M, Schull, MJ. International perspectives on emergency department crowding. *Acad Emerg Med* 2011;18:1358-1370.

31. McClelland M, Lazar D, Sears V, Wilson M, Siegel B, **Pines JM**. The Past, Present, and Future of Urgent Matters: Lessons learned from a decade of emergency department flow improvement. *Acad Emerg Med* 2011;18:1392-9.
32. **Pines JM**, McCarthy ML. Executive summary: interventions to improve quality in the crowded emergency department. *Acad Emerg Med* 2011;18:1229-33.
33. **Pines JM**, Pilgrim RL, Schneider SM, Siegel B, Viccellio P. Practical implications of implementing ED crowding interventions: Summary of a moderated panel. *Acad Emerg Med* 2011;18:1278-82.
34. Soremkun O, Terwiesch C, **Pines JM**. Emergency Medicine: An Operations Management View. *Acad Emerg Med* 2011;18:1262-8.
35. **Pines JM**, Kelly JJ, Meisl H, Augustine J, Broida RI, Clarke JR, Farley H, Franklin M, Fuller D, Klauer K, Phelan MP, Schuur JD, Stone-Griffith S, Thallner E, Wears RL. Procedural safety in emergency care: A conceptual model and recommendations. *Joint Comm J Qual Pat Safety* 2012;38:516-26.
36. Rabin E, Kocher K, McClelland M, **Pines JM**, Hwang U, Rathlev R, Asplin B, Trueger NS, and Weber E. Solutions To Emergency Department 'Boarding' And Overcrowding Are Underused And May Need To Be Legislated. *Health Aff (Millwood)* 2012; 31:1757-1766.
37. Morgan SR, Smith MA, Pitts SR, Shesser R, Ward MJ, **Pines JM**. Measuring Value for Low-Acuity Care Across Settings. *Am J Manag Care* 2012;18:e356-e363
38. Farley HL, Baumlin KM, MD, Hamedani AG, Cheung DS, Edwards MR, Fuller DC, Genes N, Griffey RT, Kelly JJ, McClay JC, Nielson J, Phelan MP; Shapiro JS, Stone-Griffith S, **Pines JM**. Quality and Safety Implications of Emergency Department Information Systems. *Ann Emerg Med* 2013 62(4):399-407
39. **Pines JM**, Newman D, Pilgrim R, Schuur JD. Strategies For Integrating Cost-Consciousness Into Acute Care Should Focus On Rewarding High-Value Care. *Health Aff (Millwood)*. 2013;32:2157-65.
40. Schuur JD, Hsia R, Burstin H, Schull M, **Pines JM**. Quality measurement in the Emergency Department: Past and future. *Health Aff (Millwood)*. 2013;32:2129-38.
41. A Consensus Parameter for the Evaluation and Management of Angioedema in the Emergency Department. Moellman JJ, Bernstein JA, Lindsell C; Workgroup: Banerji A, Busse PJ, Camargo CA, Collins SP, Craig TJ, Lumry

WR, Nowak R, **Pines JM**, Raja AS, Riedl M, Ward MJ, Zuraw BL. *Acad Emerg Med* 2014; 21:469-484

42. **Pines JM**, Farmer SA, Akman JS. “Innovation” Institutes in Academic Health Centers: Enhancing Value and Quality Through Leadership, Education, and Engagement. *Acad Med* 2014; 89:1204-1206.
43. Mazer-Amirshahi M, Pourmand A, Singer S, **Pines JM**, van den Anker J. Critical Drug Shortages: Implications for Emergency Medicine. *Acad Emerg Med* 2014; 21:704-711.
44. McClelland, M, Asplin B, Epstein SK, Kocher KE, Pilgrim R, **Pines JM**, Rabin EJ, Rathlev NK. The Affordable Care Act and emergency care. *Am J Publ Health* 2014;104(10):e8-10.
45. **Pines JM**, Farmer SA, Pimentel L. Maryland’s Medicare Waiver and Emergency Care: Mixed Experiences Deserve Close Scrutiny. *Am J Med Qual Epub*
46. Griffey R, Schuur JD, Farley H, Phelan M, Venkatesh A, **Pines JM**. Chief Complaint-Based Performance Measures: A new focus for acute care quality measurement. *Ann Emerg Med Epub*
47. Ward MJ, Ferrand Y, Laker L, Froehle CM, Vogus T, Dittus R, Kripalani S, **Pines JM**. The Nature and Necessity of Operational Flexibility in the Emergency Department. *Ann Emerg Med* 2015;65:156-61.
48. Yiadom MY, Ward MJ, Chang AM, **Pines JM**, Jouriles N, Yealy DM. Consensus Statement on Advancing Research on Emergency Department Operations and Its Impact on Patient Care. *Acad Emerg Med* (in press)
49. Wiler J, Welch SJ, **Pines JM**, Schuur J, Mayer L, Jouriles N, Stone-Griffith S, Augustine J. Emergency Department Performance Measures Updates: Proceedings of the 2014 Emergency Department Benchmarking Alliance Consensus Summit. *Acad Emerg Med* (in press)
50. Sax DR, Selevan J, **Pines JM**, Fields W. What Accountable Care Organizations Can Learn From Kaiser-Permanente California’s Acute Care Strategy. *Pop Health Manag* (in press)

D. Publications, not peer-reviewed

1. **Pines JM**. Hal is Here: Artificial Intelligence and Neural Networks: Pennsylvania Triangle, Fall 1994

2. **Pines JM.** Becoming An Expert Documenter – Why It’s So Important For EM Residents: American Academy of Emergency Medicine Newsletter Commonsense, Feb/March 2003
3. **Pines JM.** The American Academy of Emergency Medicine Resident and Medical Student Member Survey: Results and Recommendations. American Academy of Emergency Medicine Newsletter Commonsense, September/October 2003
4. **Pines JM.** Why join AAEM? – It’s In The Fine Print. President’s Message, American Academy of Emergency Medicine Newsletter Commonsense, September/October 2003
5. **Pines JM.** Why It’s Important To Get Involved. President’s Message American Academy of Emergency Medicine Newsletter Commonsense. November/December 2003
6. **Pines JM.** Common Resident Questions About the AAEM. Presidents’ Message. American Academy of Emergency Medicine Newsletter Commonsense. January/February 2004
7. **Pines JM.** Advice From A Senior Resident. President’s Message. American Academy of Emergency Medicine Newsletter Commonsense. March/April 2004
8. **Pines JM.** A Momentous Year For The Frontline Emergency Physician. Presidents’ Message. American Academy of Emergency Medicine Newsletter Commonsense. May/June 2004
9. Haukoos J, Kaji A, **Pines JM**, Terrell K. Compiling a Database of Principle Investigators in Emergency Medicine. SAEM Newsletter. January/February 2005
10. **Pines JM.** The Young Physician In Academic Emergency Medicine: Tips For Success. American Academy of Emergency Medicine Newsletter Commonsense. November/December 2006 (also chosen for publication on www.medscape.com)
11. **Pines JM.** Financial Management and the Young Emergency Physician. American Academy of Emergency Medicine Newsletter Commonsense. May/June 2007 (also chosen for publication on www.medscape.com)

E. Editorials, Reviews, Letters to the Editor, Book Chapters, including participation in committee reports (print or other media)

1. **Pines JM.** The First Shift. *CJEM*, 2002;4:224-5. (Editorial)

2. **Pines JM**, O’Leary M. Management Training in Emergency Medicine. In Rules of the Road for Medical Students, AAEM, 2002 (Book chapter)
3. **Pines JM**. Dermatologic Emergencies. On-Call Emergency Medicine. Mosby 2003 (Book chapter)
4. **Pines JM**, Brady WJ. Chapter 47: Prolonged QT Syndrome. EKG in Emergency Medicine and Acute Care. WB Saunders 2004 (Book chapter)
5. **Pines JM**. The left-without-being-seen rate: An imperfect measure of emergency department crowding. *Acad Emerg Med*. 2006;13:807 (Letter)
6. Everett WW, **Pines JM**. 30-day Versus 7-day Outcomes in the San Francisco Syncope Rule. *Ann Emerg Med*. 2006;48:760. (Letter)
7. **Pines JM**. Measuring antibiotic timing for pneumonia in the ED: Another nail in the coffin. *Ann Emerg Med*. 2007;49:561-3. (Invited Editorial)
8. **Pines JM**. Moving Closer To An Operational Definition For ED Crowding. *Acad Emerg Med*. 2007; 14: 382-3. (Letter)
9. Carr BG, **Pines JM**, Hollander JE. Survey study estimating surge capacity in trauma centers in the United States. *J Trauma* 2007;62:1067. (Letter)
10. Hollander JE, **Pines JM**. The ED Crowding Paradox: The Longer You Stay, The Less Care You Get. *Ann Emerg Med*. 2007;50:497-9. (Invited editorial)
11. Fee C, **Pines JM**. Preventable Deaths From Quality Failures In Emergency Department Care for Pneumonia and Myocardial Infarction: An Over-Estimation. *Acad Emerg Med*. 2008;15:300-1. (Letter)
12. **Pines JM**, Heckman JD. ED boarding and profit-maximization for high-capacity hospitals: Challenging conventional wisdom. *Ann Emerg Med*. 2009;53:256-8. (Invited editorial)
13. **Pines JM**. The answer to imperfect CT sensitivity for subarachnoid hemorrhage: Use clinical judgment. *Ann Emerg Med*. 2009; 53:161-2. (Letter)
14. **Pines JM**. Time to first dose of antibiotic measurement in community-acquired pneumonia: time for a change. *Ann Emerg Med*. 2009;54:312. (Letter)
15. **Pines JM**, Yealy DM. Advancing the science of emergency department crowding: measurement and solutions. *Ann Emerg Med*. 2009;54:511-3 (Invited editorial)

16. Boyer E, **Pines JM**. Federal Funding for New Investigators in Emergency Medicine. Report to the SAEM Pipeline Subcommittee 2009 (Committee Report)
17. Mark DG, Brady WJ, **Pines JM**. In response to pre-excitation syndromes. *Am J Emerg Med*. 2010;28:251-2.
18. Hilton JA, **Pines JM**. ED Crowding. In Y Yih. Handbook of Healthcare Delivery. Taylor & Francis. 2010 (Book chapter)
19. **Pines JM**. A View from Washington: Federal Policy in Relation to Allied Health Over Two Decades. *Ann Emerg Med* 2010;56:446 (Book review)
20. Lessler AL, **Pines JM**. In reply...On testing thresholds in pulmonary embolism. *Ann Emerg Med* 2010;56:586-7 (Letter)
21. **Pines JM**. ED-ICU Handoffs. In Vincent, JL, Hall, JB. (Eds) The Encyclopedia of Intensive Care Medicine. WB Saunders. 2011 (Book Chapter)
22. **Pines JM**, McCarthy ML. The crowding-effectiveness link: it doesn't matter how fast we deliver care, if we don't deliver it right. *Ann Emerg Med* 2011;57:201-2. (Invited editorial)
23. **Pines JM**, Fee C. Recommendations on the National Hospital Ambulatory Medical Care Survey 2012: A report to the National Center for Health Statistics. SAEM External Collaboration Committee. October 18, 2010. (Committee Report)
24. Soremkun OA, Brown DF, **Pines JM**. Ambulance Diversion and Survival Among Patients With Acute Myocardial Infarction. *JAMA*. 2011; 306:1324-1325. (Letter)
25. **Pines JM**, Schneider SM, Bernstein SL. Emergency care and the Affordable Care Act: How can we learn from the past to predict the future? *Acad Emerg Med* 2011;18:1189-90 (Invited editorial)
26. Abualenain J, **Pines JM**. Management Training in Emergency Medicine. In Rules of the Road for Medical Students, AAEM, 2012 (Book chapter)
27. Tanski M, **Pines JM**. Alternative care settings for older adults. In Kahn et al. Geriatric Emergency Medicine. 2014
28. **Pines JM**, Abualenain J. Emergency department crowding: A worldwide problem with evidence-based, but underused solutions. *German*

Interdisciplinary Journal of Emergency Medicine [Notfall + Rettungsmedizin]. 2013;16:93-4. (Invited editorial)

29. **Pines JM**. Emergency department crowding in California: a silent killer? *Ann Emerg Med* 2013;61:612-4 (Invited editorial)
30. **Pines JM**. How Frequent Emergency Department Use By U.S. Veterans Can Inform Good Public Policy. *Ann Emerg Med* 2013;62:160-1 (Invited editorial)
31. Carpenter CR, **Pines JM**. The End Of X-Rays for Suspected Small Bowel Obstruction: Using Evidence-Based Diagnostics To Inform Emergency Medicine Best Practices. *Acad Emerg Med* 2013; 20: 618-20 (Invited editorial)
32. McNaughton CD, Self WH, **Pines JM**. Observational Health Services Studies Using Nationwide Administrative Datasets: Understanding Strengths and Limitations of the National Hospital Ambulatory Medical Care Survey (NHAMCS). *Ann Emerg Med* 2013; 62(4):425-30 (Invited review)
33. **Pines JM**, Pilkington W, Seabury S. Value-Based Models for Sustaining Emergency Preparedness Capacity and Capability in the United States. *Institute of Medicine*. January 2014. (Report to the Institute of Medicine Preparedness Forum)
34. **Pines JM**, Alghamdi K. Costly ED expansions are ineffective to improve flow without addressing culture and process efficiency. *Acad Emerg Med* 2014; 21:568-9. (Invited editorial)
35. Meisel ZF, Pitts SR, **Pines JM**, Goodrich K, Carr BG. Policy roundtable: emergency department boarding and hospital quality. *Acad Emerg Med* 2014;21:570-3. (Invited interview)
36. **Pines JM**. Evidence-based standardization and ED admission rate variation in U.S. Children's Hospitals. *Pediatrics* 2014; 134: 605-6. (Invited editorial)
37. Mazer-Amirshahi M, Mullins PM, Rasooly I, van den Anker J, **Pines JM**. In reply. *Acad Emerg Med* 2014; 21:947. (Letter)
38. Meltzer AC, **Pines JM**. What big data can and can't tell us about ED quality for urolithiasis. *Acad Emerg Med* (Invited editorial) (in press)

F. Abstracts

1. Balice-Gordon RJ, **Pines JM**, Blumenthal S. Role of Motor Neuron Gap Junctional Coupling in Neuromuscular Synapse Elimination: Society for Neuroscience Abstracts, November 1995 (21)

2. **Pines JM**, Rathore SS, Berger AK, Oetgen WJ, Gersh BJ, Schulman KA. Effects of Rural Residence on Treatment and Outcomes for Acute Myocardial Infarction Patients: Society for General Internal Medicine, April 1998
3. Schulman KA, Glick HA, Goldstein LJ, **Pines JM**, Jackman J, Suzuki S, Styler M, Crilley P, Mangan K, Glick JH, Stadtmauer EA. Economic Analysis of High-Dose Chemotherapy (HDC) and Stem Cell Support (SCT) vs Standard Dose Chemotherapy for Women with Responding Metastatic Breast Cancer in the Philadelphia Intergroup Study (PBT-1). American Society for Clinical Oncology, June 2000
4. Andrus S, Sammadar R, **Pines JM**, Milzman D. The Heimleisch Maneuver: 25 years of Experience. Society for Critical Care Medicine. February 2001
5. **Pines JM**, Milzman D. Analyzing Costing Studies In Critical Care: Evaluating Methodologies. Society for Critical Care Medicine. February 2001
6. **Pines JM**, Milzman D. Cost-benefit Analysis of Smoking Cessation Counseling In Emergency Medicine. International Congress on Emergency Medicine, Stresa, Italy, September 2001
7. **Pines JM**, Barron P, Milzman D. Comparing Costing Analysis in Emergency Medicine Clinical Practice Guidelines with Other Specialties. American College of Emergency Physicians. October 2001
8. **Pines JM**, Braithwaite S. Surveys of Emergency Medicine Residents and Program Directors on Documentation and Coding Education and Practice. American College of Emergency Physicians. October 2002
9. **Pines JM**, Braithwaite S, Holzer K, Patterson R, Brady W. Internet Use For Survey Administration in Emergency Medicine Research. American College of Emergency Physicians. October 2002
10. **Pines JM**, Hall A, Hunter J, Srinivasan R, Ivanov M, Ghaemmaghmi C, Inter-rater Variation In The Emergency Department Abdominal Exam In Patients Presenting With Abdominal Pain. Society of Academic Emergency Medicine Mid-Atlantic Conference (Plenary Session), March 2003
11. **Pines JM**, Hall A, Hunter J, Srinivasan R, M Ivanov, Ghaemmaghmi C, Inter-rater Variation In The Emergency Department Abdominal Exam In Patients Presenting With Abdominal Pain. SAEM National Assembly, May 2003

12. **Pines JM**, Brady WJ, Perina DG. Electrocardiogram Interpretation Training In US Emergency Medicine Residency Programs. International EM Congress, Barcelona, Spain. September 2003
13. Plautz CU, **Pines JM**, Hionis V, Kim J, Ghaemmaghmi C. The Effect of Perceived Malpractice Risk On Diagnostic Test Ordering In Emergency Medicine Practice. American College of Emergency Physicians, October 2003
14. **Pines JM**, Gilbert O, Kim C, Shurtz E, Rothenberger S, Perron AD. The Treatment of Pain In Acute Extremity Injury: Are We Treating the Radiograph or the Patient? American College of Emergency Physicians, October 2003
15. **Pines JM**, Gilbert K, Amory A, Parker C, Ghaemmaghmi CA. Does video-assisted instruction help the novice intubator? American College of Emergency Physicians, October 2003
16. Haltiwanger KA, **Pines JM**, Williamson AL, Ross PA, Yost MM, Alladin KP, Olamigoke OC, Martin ML. The Pediatric Emergency Department: A Substitute for Primary Care? American College of Emergency Physicians, October 2003
17. **Pines JM**, Maready EE, Ahmed H, Gurka M, Radcliff VS, Brady W. The Clinical Presentation of Diabetic Ketoacidosis: A Series of 193 Patients. American Academy of Emergency Medicine National Assembly, February 2004 – 2nd place resident research competition
18. Maready EE, Schuller C, Wright C, Cherian A, Ross PA, **Pines JM**. A Survey of Women Who Received Pelvic Exams in the Emergency Department: An Evaluation of Understanding and Expectations. American Academy of Emergency Medicine National Assembly, February 2004
19. **Pines JM**, Brady WJ, Perina DG. Electrocardiogram Interpretation Training In US Emergency Medicine Residency Programs. CORD Conference, Washington, DC. March 2004
20. **Pines JM**, Reiser RC, Braithwaite SA, Brady WJ, Ghaemmaghmi CA, Cardella K, Rochman AS, Martin ML. The Effect of Performance Incentives On Resident Chart Documentation. The American College of Emergency Physicians, October 2004
21. Allen S, **Pines JM**, Martin ML. National Survey of Interpreter Services Utilization in Emergency Departments. National Medical Association, August 2003

22. **Pines JM**, Reiser RC, Braithwaite SA, Brady WJ, Ghaemmaghami CA, Cardella K, Martin ML. The Effect of Performance Incentives On Resident Chart Documentation. The Society for Academic Emergency Medicine, Mid-Atlantic Conference, September 2004 (Plenary presentation)
23. Martin-Gill C, Baer A, Holstege C, Eldridge D, **Pines JM**, Kirk M. Anticipated use of information resources by EMS providers during a suspected chemical exposure. The Society for Academic Emergency Medicine, Mid-Atlantic Conference, September 2004
24. **Pines JM**, Rich V, Datner EM, Mathew R, Schwartz A, Kurz A, Sites F, Hollander JE. Utility of Telemetry Monitoring And Nursing Presence During Transfer Of Admitted “Rule Out” Acute Coronary Syndrome Patients To Inpatient Beds. Society for Academic Emergency Medicine, May 2005
25. Fishman P, Shofer FS, Robey JL, Zogby KE, Riley PM, Branas C, **Pines JM**, Hollander JE. The impact of a trauma alert activation on the care of ED Patients with potential acute coronary syndromes. Society for Academic Emergency Medicine, May 2005
26. **Pines JM**, Buford K, Szyld D. Predictors of frequent emergency department use for asthmatics in Southeastern Pennsylvania. Society for Academic Emergency Medicine, Mid-atlantic Conference, September 2005
27. **Pines JM**, Prosser JM, Everett WW, Goyal M. Triage temperature and pulse are poorly predictive of antibiotics and admission in elderly emergency department patients with potential infection. Society for Academic Emergency Medicine Mid-atlantic Conference, Plenary Presentation, September 2005
28. Goyal M, **Pines JM**, Drumheller BC, Gaieski DF. Lactic acidosis is under-recognized in emergency department patients with sepsis. Society for Academic Emergency Medicine, Midatlantic Conference, Plenary Presentation, September 2005 (Best Medical Student Presentation – Byron Drumheller)
29. Goyal M, **Pines JM**, Drumheller BC, Gaieski DF. Point-of-Care (POC) fingertip lactate measurement at emergency department triage improves detection and reduces potential time to identification of patients eligible for early goal-directed therapy. Society for Critical Care Medicine, January 2006
30. Prosser JM, **Pines JM**, Everett WW, Goyal M. Triage temperature and pulse are poorly predictive of antibiotics and admission in elderly emergency department patients with potential infection. American Academy of Emergency Medicine, February 2006

31. Szyld D, Buford K, **Pines JM**. Predictors of frequent emergency department use for asthmatics in Southeastern Pennsylvania. *American Academy of Emergency Medicine*, February 2006
32. **Pines JM**, Hollander JE, Localio AR, Metlay JP. Emergency Department Crowding Is Associated With Poorer Performance For Pneumonia Care But Not For Acute Myocardial Infarction. *Society for Academic Emergency Medicine*, May 2006
33. **Pines JM**. Risk Tolerance For Exclusion Of Potentially Life-Threatening Diseases In Published Guidelines: Are They Different? *Society for Academic Emergency Medicine*, May 2006
34. **Pines JM**. A Cost-Utility Analysis For Evaluating Low-Risk Suspected Subarachnoid Hemorrhage: Is Lumbar Puncture Always Needed? *Society for Academic Emergency Medicine*, May 2006
35. Chase M, Everett WW, **Pines JM**, Zogby K, Robey J, Hollander JE. Cardiac Medication Use At ED Presentation Does Not Add Predictive Value to the TIMI Risk Score. *Society for Academic Emergency Medicine*, May 2006
36. Breyer M, Ku B, **Pines JM**, Halluska M, Dean A. Ultrasound usage among recent emergency medicine graduates. *World Conference on Ultrasound (Milan, Italy)*, June 2006
37. Morton MJ, **Pines JM**. Systematic Delays In Antibiotic Administration In The Emergency Department For Adult Patients Admitted With Pneumonia. *American College of Emergency Physicians National Assembly*, October 2006
38. **Pines JM**, Lee H, Everett WW, Datner EM, Goyal M, Duseja R, Metlay JP. Attitudes towards Performance Measures And Pay-For-Performance In Academic Emergency Departments. *American College of Emergency Physicians National Assembly*, October 2006
39. Breyer M, Ku B, **Pines JM**, Halluska M, Dean A. Ultrasound usage among recent emergency medicine graduates. *American College of Emergency Physicians National Assembly*, October 2006
40. Prosser JM, Perrone J, **Pines JM**. Race, age, and sex differences in the incidence rates of nonfatal self-harm poisonings in US emergency departments. *American Academy of Clinical Toxicology*, October 2006
41. **Pines JM**, Lee H, Hollander JE, Everett WW, Uscher-Pines L, Metlay JP. Emergency Department Operational Changes in Response to Pay-for-

Performance and Antibiotic Timing in Pneumonia. Society for Academic Emergency Medicine – Mid-Atlantic Conference, November 2006

42. Cooper J, **Pines JM**. Time-sensitive, resource-intensive life-saving therapies for unscheduled critically ill patients: a systematic review of the evidence. Society for Academic Emergency Medicine – Mid-Atlantic Conference, November 2006
43. Umscheid CA, Maguire MG, **Pines JM**, Everett WW, Baren JM, Townsend R, Mines D, Szyld D, Gross R. The Prevalence Of And Risk Factors Associated With Untreated Hypertension In ED Patients. Society for Academic Emergency Medicine, May 2007
44. Umscheid CA, Maguire MG, **Pines JM**, Everett WW, Baren JM, Townsend RR, Mines D, Szyld D, Gross R. Test Characteristics Of Six Definitions Of Hypertension In The ED For The Detection Of Hypertension Outside Of The ED. Society for Academic Emergency Medicine, May 2007
45. **Pines JM**, Garson C, Shofer FS, Rhodes KV, Sease KL, Baxt WG, Hollander JE. ED Crowding Is Associated With Perceptions Of Compromised Care. Society for Academic Emergency Medicine, May 2007
46. Gaieski DF, **Pines JM**, Band RA, Furia F, Goyal M. The impact of time to antibiotic initiation on mortality in patients treated with early goal-directed therapy for severe sepsis or septic shock. Society for Academic Emergency Medicine, May 2007
47. Carr BG, Hollander JE, Baxt WG, Datner EM, **Pines JM**. National Estimate of the Emergency Department Boarding Burden. Society for Academic Emergency Medicine, May 2007
48. Garson C, Hollander JE, Rhodes KV, Sease KL, Shofer FS, McCusker C, Baxt WG, **Pines JM**. ED Patient Preferences For Boarding Locations & Wait Times When Hospitals Are At Full Capacity. Society for Academic Emergency Medicine, May 2007
49. Meisel ZF, Pollack CV, Mechem C, **Pines JM**. Development of Prediction Rule For Hospital Admission Using Pre-hospital Data. Society for Academic Emergency Medicine, May 2007
50. **Pines JM**, Rhodes KV, Baxt WG, Hollander JE. ED Crowding Is Associated With Delays In Analgesia And Non-Treatment For Patients Who Report Severe Pain. Society for Academic Emergency Medicine, May 2007

51. Cooper J, Datner EM, **Pines JM**. The Effect Of A Chest X-Ray At Triage Protocol on Time to Antibiotics For Admitted Patients with Pneumonia. Society for Academic Emergency Medicine, May 2007
52. **Pines JM**, Hollander JE, Localio AR, Baxt WG, Lee H, Phillips C, Metlay JP. A Patient-Level Association Between ED Crowding and Time To Antibiotics For Pneumonia. Society for Academic Emergency Medicine, May 2007
53. **Pines JM**, Hollander JE. The Impact Of Emergency Department Crowding On Cardiac Outcomes In ED Patients With Acute Chest Pain. American College of Emergency Physicians National Assembly, October 2007
54. **Pines JM**, Schwartz JS, Hollander JE. Racial Disparities In ED Waiting and Boarding Times in the United States. American College of Emergency Physicians National Assembly, October 2007
55. **Pines JM**, Goyal M, Band RA, Gaieski DF. The impact of ED crowding on care of patients with severe sepsis and septic shock. American College of Emergency Physicians National Assembly, October 2007
56. **Pines JM**, Hollander JE, Isserman JA, Chen EH, Dean AJ, Shofer FS, Mills AM. Physician risk tolerance and the use of imaging in patients with abdominal pain. Society for Academic Emergency Medicine National Assembly May 2008
57. **Pines JM**, Szyld D, Chang AM, McCusker CM, Shofer FS, Hollander JE. The association between physician risk tolerance and admission decisions in low risk chest pain patients. Society for Academic Emergency Medicine National Assembly May 2008
58. **Pines JM**, Chang AM, McCusker CM, Shofer FS, Hollander JE. Emergency department crowding is associated with a higher likelihood of admission in patients with chest pain. Society for Academic Emergency Medicine National Assembly May 2008
59. **Pines JM**, Synnestvedt M, Klair A, Karlawish J, Gaieski DF, Goyal M, Band RA, Shofer FS, Weiner MG. Serum lactate predicts mortality up to 60 days in older hospitalized adults. Society for Academic Emergency Medicine National Assembly May 2008
60. **Pines JM**, Synnestvedt M, Weiner MG, Klair A, Karlawish J, Shofer FS, Hollander JE. Prolonged ED length of stay is associated with longer hospital stays, higher costs and workload in hospitalized older adults. Society for Academic Emergency Medicine National Assembly May 2008

61. **Pines JM**, Goyal M, Band RA, Gaieski DF. Higher ED occupancy is associated with antibiotic delays but not mortality endpoints in patients with severe sepsis. Society for Academic Emergency Medicine National Assembly May 2008
62. Panebianco NL, Fredette JM, Szyld D, Sagalyn EB, **Pines JM**, Dean AJ. The Effect of Vessel Depth and Diameter on Success Rates for Ultrasound-Guided IV Placement in Patients with Difficult Access. Society for Academic Emergency Medicine National Assembly May 2008
63. Meisel Z, Mathew R, Wydro G, Pollack CV, Mechem C, Ozumba O, Prabhu A, Katzer R, **Pines JM**. Multi-center Validation of a Prehospital Prediction Score for Hospital Admission. Society for Academic Emergency Medicine National Assembly May 2008
64. Paik HH, Hollander JE, Hirschmann K, Naylor M, McCusker CM, **Pines JM**. Relationship Between ED Location, Crowding and Test Results in Older Adults Screened For Dementia. Society for Academic Emergency Medicine National Assembly May 2008
65. **Pines JM**, Kelly JJ. Emergency department crowding in the Commonwealth of Pennsylvania. American College of Emergency Physicians Research Forum. October 2008
66. **Pines JM**, Schuur JD. Trends and Predictors of Quality for Suspected Ectopic Pregnancy In Emergency Care from 2001-5 in the United States Emergency Departments. American College of Emergency Physicians Research Forum. October 2008
67. Panebianco NL, Fredette JM, Szyld D, Sagalyn EB, **Pines JM**, Dean AJ. Ultrasound Guided Peripheral Intravenous Access: Patient Pain, Anxiety and Preference. American College of Emergency Physicians Research Forum. October 2008
68. **Pines JM**, Shofer FS, Isserman JA, Abbuhl SB, Mills AM. Emergency department crowding and analgesia in patients with back pain. Society for Academic Emergency Medicine National Assembly. May 2009
69. Lessler AL, Isserman JA, Agarwal R, Palevsky HI, **Pines JM**. Testing Low-risk Patients for Suspected Pulmonary Embolism: A Decision Analysis. Society for Academic Emergency Medicine National Assembly. May 2009
70. **Pines JM**, Mongelluzzo J, Isserman JA, Souder J, Synnestvedt M, Weiner MG, Shofer FS. One-Day Hospital Admissions From The ED In Medicare Patients: Unnecessary Admission or Premature Discharge? Society for Academic Emergency Medicine National Assembly. May 2009

71. **Pines JM**, Isserman JA. The association between ED crowding and delays in time to OR in acute appendicitis. Society for Academic Emergency Medicine National Assembly. May 2009
72. Chatterjee P, Shofer FS, Cucchiarra B, Isserman JA, **Pines JM**. The association between ED crowding and time to head CT in patients with stroke symptoms. Society for Academic Emergency Medicine National Assembly. May 2009
73. Hwang U, Baulmin K, Chawla N, Handel D, Heard K, **Pines JM**, Valley M, Yadav K. A Multicenter Study Of The Association Between ED Crowding And Laboratory Turnaround Times. Society for Academic Emergency Medicine National Assembly. May 2009
74. Mills AM, Shofer FS, Hollander JE, Chen EH, **Pines JM**. The Effect of Emergency Department Crowding on Patients with Abdominal Pain. Society for Academic Emergency Medicine National Assembly. May 2009
75. Baldassari L, Soe-Lin H, Milzman D, **Pines JM**. Left Without Being Seen: Hospital re-visits, re-admissions, and mortality predictors. Society for Academic Emergency Medicine Midwestern Conference. October 2009
76. **Pines JM**, Fieldston E, Hollander JE, Isserman JA, Lorch S, Reilly PM, Terweisch C, Heckman JM. Emergency department boarding and hospital revenues. American College of Emergency Physicians. October 2009
77. Meisel ZF, Branas CC, **Pines JM**. Type of Insurance is Associated with Ambulance Use for Transport to Emergency Departments in the United States. American College of Emergency Physicians. October 2009
78. Meisel ZF, Branas CC, **Pines JM**. Predictors of Ambulance Use for Emergency Department Patients Over 45 with Chest Pain. American College of Emergency Physicians. October 2009
79. Goyal M, **Pines JM**, Singla S, Milzman DP. Time to antibiotic administration in adults hypotensive at emergency department triage. Society for Critical Care Medicine. January 2010
80. **Pines JM**, Baldassari L, Fischer C, Goyal M, Milzman D, Napoli A, Soelin H. The Association Between Hospital-Level Left-Without-Being Seen (LWBS) and 90-Day Mortality Rates After LWBS. Society for Academic Emergency Medicine. June 2010

81. Fischer C, Mottley L, Milzman D, Napoli A, **Pines J**, Goyal M. Positive Blood Cultures in Patients Discharged from the Emergency Department. Society for Academic Emergency Medicine. June 2010
82. Nishisaki A, Nadkarni V, **Pines JM**, Berg R, Helfaer M, Lin R. Effect of 24-hour in-hospital pediatric critical care attending physician presence on process of care patients outcome. Society for Critical Care Medicine 2010
83. Abualenain J, Frohna W, Shesser R, Smith M, Milzman D, **Pines JM**. The relationship between ED physician admission rates and 72-hour return and admission rates. Society for Academic Emergency Medicine Mid-Atlantic Conference 2011 (Winner, Best Resident Presentation by a Resident for Abualenain J).
84. Ward MJ, Bonomo JB, Adeoye O, Raja AS, **Pines JM**. Cost-Effectiveness of Diagnostic Strategies for Evaluation of Suspected Subarachnoid Hemorrhage in the Emergency Department. Society for Academic Emergency Medicine 2011
85. Genes N, Hwang U, Handel DA, **Pines JM**, Aronsky D, Ginde AA, Hackman J, Hilton JA, Kamali M, Powell E, Sattarian M, Fu R. Predictors of Ambulance Diversion in Nine Emergency Departments. Society for Academic Emergency Medicine 2011
86. **Pines JM**, Lessler AL. The Mortality Benefit Threshold For Patients With Low-risk Suspected Pulmonary Embolism. Society for Academic Emergency Medicine 2011
87. Abualenain J, **Pines JM**. Validation Of An Emergency Department Chart Review Quality Assurance Method To Assess 72-hour Revisits Who Are Admitted To The Hospital. Society for Academic Emergency Medicine 2011
88. Rothman RE, **Pines JM**. Google Flu Trends: Correlation With Emergency Department Influenza Rates And Crowding Metrics. Society for Academic Emergency Medicine 2011
89. Kindermann D, **Pines JM**. Rates Of Dvt Among Pe Positive And Pe Negative Patients Diagnosed By Ct Angiography With Lower Extremity Follow Through In Two Emergency Departments: 1/2006 - 12/2009. Society for Academic Emergency Medicine 2011
90. Alessandrini EA, Varadarajan K, Macias CG, Gorelick M, Alpern ER, **Pines JM**, Chamberlain JM. Capability of ED electronic systems to capture performance measures for pediatric emergency care. American Academy of Pediatrics 2011

91. Kindermann D, Weiss B, Sudekem V, King C, Scofi J, Maloy K, Milzman D, **Pines JM**. Physician variability in positive diagnostic yield of advanced radiography to diagnose pulmonary embolus in four hospitals: 2006-2009. American College of Emergency Physicians 2011
92. Meltzer A, Burnett S, Pinchbeck C, Brown A, Choudrhi T, **Pines JM**. Validation of Rockall and Blatchford clinical decision rules for patients with suspected upper gastrointestinal hemorrhage in the emergency department. American College of Emergency Physicians 2011
93. **Feng L**, Pines JM. Trends in the Rates of Computed Tomography Use and Diagnoses of Pulmonary Embolism and Pneumonia in Emergency Departments. GWU Research Day 2012 (Chosen as 1st place for the School of Public Health and Health Sciences)
94. Gugelmann H, Soremkun OA, Datner, EM, Matsuura A, **Pines JM**. The impact of increased output capacity interventions on emergency department length of stay and patient flow. Society for Academic Emergency Medicine 2012
95. Feng L, **Pines JM**. Trends in the use of CT for patients with symptoms of pulmonary embolism. Society for Academic Emergency Medicine 2012
96. Abualenain J, Frohna W, Shesser R, Ding R, Smith M, **Pines JM**. Provider and Hospital-Level Variation in Admission Rates and 72-hour Return-Admission Rates. Society for Academic Emergency Medicine 2012
97. Delgado MK, Liu V, **Pines JM**, Kipnis P, Escobar GJ. Risk Factors for Unplanned Transfer to Intensive Care Within 24 Hours of Admission from the Emergency Department in an Integrated Healthcare System. Society for Academic Emergency Medicine 2012
98. Morton MJ, Dugas A, **Pines JM**, Beard R, Jeng K, Rothman RE. Prioritization of Interventions to Mitigate the Impact of Emergency Department Crowding in the Event of a Respiratory Disease Outbreak. Society for Academic Emergency Medicine 2012
99. Morton JM, Jeng K, Beard R, Dugas A, **Pines JM**, Rothman RE. Systematic Review of Interventions to Mitigate the Impact of Emergency Department Crowding in the Event of a Respiratory Disease Outbreak. Society for Academic Emergency Medicine 2012
100. Kindermann D, Sax J, Maloy K, Milzman D, **Pines JM**. Physician variation in diagnostic yield for pulmonary embolism in four hospitals. Society for Academic Emergency Medicine 2012

101. Al-Qatari M, Morgan SR, Chang AM, **Pines JM**. Non-ED interventions to reduce emergency department use. American College of Emergency Physicians. American College of Emergency Physicians Research Forum 2012.
102. Cafardi S, Deb P, Power C, **Pines JM**. The Impact of Observation Services for Medicare Beneficiaries with Chest Pain. American College of Emergency Physicians. American College of Emergency Physicians Research Forum 2012.
103. Rasooly I, Mazer-Amirshahi M, Mullins P, Van den Anker J, **Pines JM**. Predictors of opioid treatment in pediatric emergency department patients. Pediatric Academic Society. 2013
104. Mazer-Amirshahi M, Mullins P, Van den Anker J, **Pines JM**. Trends in prescription opioid use in pediatric emergency department patients. Pediatric Academic Society. 2013
105. Gaieski D, Agarwal A, Shofer F, **Pines JM**, Goyal M. The Impact of Crowding Upon Implementation of Early Goal Directed Therapy in the Emergency Department. Society for Academic Emergency Medicine National Meeting 2013
106. Kindermann D, Mutter R, **Pines JM**. The influence of insurance status on the decision to transfer or admit patients presenting with orthopedic injuries. Society for Academic Emergency Medicine National Meeting 2013
107. Zocchi M, **Pines JM**. Comparison Of Mortality, Charges, and Procedure Use Among Injured Adults At Hospitals And Trauma Centers In California. Society for Academic Emergency Medicine National Meeting 2013
108. Abualenain J, Rasooly I, Levett P, Alabdrabalnabi T, **Pines JM**. The Impact of Throughput Interventions on to Reduce Length of Stay in The Emergency Department: A Systematic Review. Society for Academic Emergency Medicine National Meeting 2013
109. Raja AS, Pines JM, Schuur JD, Muir M, Calfee RP, Carpenter CR. Evidence Based Diagnostics: The Accuracy of Physical Exam and Imaging for Adult Scaphoid Fractures. Society for Academic Emergency Medicine National Meeting 2013
110. May L, Mullins P, **Pines JM**. Demographic and Treatment Patterns for Infections in Ambulatory Settings in the United States, 2009. Society for Academic Emergency Medicine National Meeting 2013

111. Mazer-Amirshahi M, Mullins P, Van den Anker J, **Pines JM**. The Rapid Rise in Opioid Prescribing in U.S. Emergency Departments: A Cause for Concern. Society for Academic Emergency Medicine National Meeting 2013
112. Abualenain J, **Pines JM**. The impact of CT utilization feedback on emergency physician CT ordering. American College of Emergency Physicians Research Forum 2013
113. Hussain A, Carpenter CR, Sivilotti M, **Pines JM**. Subarachnoid Hemorrhage in the ED: A Systematic Review and Meta-Analysis of Diagnostic Accuracy in History, Physical Exam Findings, and Testing. American College of Emergency Physicians Research Forum 2013
114. Agarwal AK, Shofer F, Goyal M, Perman SM, **Pines JM**, Gaieski DF. The Effect of Emergency Department Crowding and Time of Day upon the Adherence to Early Goal Directed Therapy. American College of Emergency Physicians Research Forum 2013
115. Lindor R, **Pines JM**, Campbell R, Goyal D, Melin G, Sadotsky A. EMTALA and Psychiatric Patients: A Review of Relevant Case Law. American College of Emergency Physicians Research Forum 2013
116. Mazer-Amirshahi M, Mullins P, **Pines JM**, Nelson LS, Perrone J. Trends in opioid prescribing in U.S. emergency departments based on provider level of training. Abstract accepted for platform presentation at the American College of Medical Toxicology Meeting, 2014
117. Mazer-Amirshahi M, Mullins P, **Pines JM**, Perrone J, Nelson LS. Trends in opioid prescribing for acute headache in U.S. emergency departments. American College of Medical Toxicology Meeting 2014.
118. Mazer-Amirshahi M, Mullins P, Meltzer A, van den Anker J, **Pines J**. Rising rates of proton pump inhibitor prescribing in U.S. emergency departments. American Society of Clinical Pharmacology and Therapeutics Meeting 2014.
119. Mazer-Amirshahi M, Pourmand A, **Pines J**, van den Anker J. Characterizing drug shortages in the emergency department. American Society of Clinical Pharmacology and Therapeutics Meeting 2014.
120. Mazer-Amirshahi M, Brooks G, Marra E, **Pines J**, van den Anker J, May L. Benzodiazepine prescribing among older adults in emergency departments and ambulatory clinics. American Society of Clinical Pharmacology and Therapeutics Meeting 2014.

121. Mazer-Amirshahi M, Brooks G, Marra E, van den Anker J, May L, **Pines JM**. Analgesic prescribing for older adults in U.S. emergency departments: 2001 to 2010. Society for Academic Emergency Medicine Meeting 2014.
122. Mazer-Amirshahi M, Mullins PM, van den Anker J, **Pines JM**, Perrone J, Nelson LS. Trends in opioid analgesic prescribing in U.S. emergency departments for low-acuity visits. Society for Academic Emergency Medicine 2014.
123. Mazer-Amirshahi M, Rasooly I, Brooks G, **Pines J**, May L, van den Anker J. Impact of pediatric labeling changes on prescribing patterns of over-the-counter cough and cold medications. Pediatric Academic Society 2014.
124. Mazer-Amirshahi M, Mullins P, Perrone J, Nelson LS, **Pines, JM**. Trends in opioid prescribing based on provider specialty in U.S. ambulatory clinics. American College of Medical Toxicology 2014
125. Ward MJ, Landman AB, Case K, Berthelot J, Pilgrim RL, **Pines JM**. Strategies to Mitigate Disruption during EHR Implementation in the ED. Society for Academic Emergency Medicine 2014
126. Abualenain J, Dubin JS, Khojah I, Frohna WJ, **Pines JM**. The Effect of Ongoing Professional Practice Evaluation on Physicians' Utilization of CT Imaging in The Emergency Department. Society for Academic Emergency Medicine 2014
127. Gallaraga J, **Pines JM**. National Emergency Care and Emergency Care-Directed Costs in the United States. American College of Emergency Physicians 2014
128. Honigman L, Schuur J, Chambers J, Pines JM. Adoption of Interventions to Reduce ED Crowding from 2007 to 2010 Across U.S. Emergency Departments. American College of Emergency Physicians 2014
129. Hawley K, Mazer-Amirshahi M, Fox E, Zocchi M, **Pines JM**. Longitudinal Trends in U.S. Drug Shortages for Medications Used in Emergency Departments (2001 - 2014). American College of Medical Toxicology 2015 (in press)

G. Alternative Media

1. Meisel ZF, **Pines JM**. How Hospitals Are Killing ER Patients. *Slate*. July 24, 2008 (<http://www.slate.com/id/2195851/>) – Listed as the headliner on yahoo.com; most read & most emailed on slate.com – July 26, 2008; Subject of *Wall Street Journal* blog (<http://blogs.wsj.com/health/2008/07/24/is-keeping-patients-waiting-in-the-er-a-good-business-move/>)

2. Meisel ZF, **Pines JM**. Allure of the One-Stop Shop. *Slate*. September 12, 2008 (<http://www.slate.com/id/199645>) – Listed as the headliner on msn.com; most read & most emailed – Sept. 16-17, 2008; also published in the *Dallas Morning News* in print and online.
3. Meisel ZF, **Pines JM**. What's the Big Emergency. Interview by the washingtonpost.com. *Slate*. Published September 18, 2008 (<http://www.slate.com/id/2200405/>)
4. Meisel ZF, **Pines JM**. VIP Syndrome: Why the rich and powerful might get substandard medical care. *Slate*. Published October 30, 2008. (<http://www.slate.com/id/2203331/>)
5. Meisel ZF, **Pines JM**. Trend Spotting: Why Google Flu Trends is not the cure for the flu. *Slate*. Published December 12, 2008. (<http://www.slate.com/id/2206516/>)
6. Meisel ZF, **Pines JM**. Sickonomics: Healthcare reformers should look to the banking collapse as a cautionary tale. *Slate*. Published January 27, 2009. (<http://www.slate.com/id/2209602/>)
7. Meisel ZF, **Pines JM**. Sniffle While You Work: Why doctors go to work sick. *Slate*. Published March 6, 2009 (<http://www.slate.com/id/2212897>) – most emailed on slate.com March 8, 2009.
8. Meisel ZF, **Pines JM**. Health Care Scare: How to avoid medical mistakes. *Slate*. Published June 3, 2009 (<http://www.slate.com/id/2219535/>)
9. Meisel ZF, **Pines JM**. Tax Breaks Under the Microscope. Should nonprofit hospitals be forced to stop behaving like greedy corporations? *Slate*. Published June 19, 2009 (<http://www.slate.com/id/2220784/>) – most emailed on slate.com June 22, 2009.
10. **Pines JM**. Who Needs to Be in the Hospital? *Wall Street Journal*. Published July 31, 2009 (<http://online.wsj.com/article/SB124898627892394853.html>). Accompanying blog (<http://blogs.wsj.com/health/2009/07/31/an-er-doc-grapples-with-unnecessary-hospital-admissions/>). Most commented on WSJ Health website: August 2-3, 2009.
11. **Pines JM**. Fishing for biomarkers: Is leucine-rich-2-glycoprotein the panacea for pediatric abdominal pain? *Emergency Physicians Monthly*. September 2009;16(9): p.1 & p.21
12. Meisel ZF, **Pines JM**. Are Most Emergency Room Visits Really Unnecessary? Cracking down on ER use won't save us as much money as you

think. *Slate*. Published March 9, 2010 (<http://www.slate.com/id/2247051>). Also published in print and online in the *Dallas Morning News*. Most emailed on March 11, 2010. Subject of a NY Times blog: (<http://freakonomics.blogs.nytimes.com/2010/03/11/emergency-room-myths/>)

13. **Pines JM**. The Skinny On Sickle Cell Trait. While it's technically not a "disease", it may be an important risk factor in the ED. *Emergency Physicians Monthly*. April 2010
14. Meisel ZF, **Pines JM**. High-speed care: How fast should ambulances go? *Slate*. (<http://www.slate.com/?id=2253638>). Published May 11, 2010. Most emailed on Slate.com May 12, 2010.
15. Meisel ZF, **Pines JM**. The Bounceback Problem. Why patients can't stay out of hospitals. *Slate*. (<http://www.slate.com/id/2262319/>) Published July 30, 2010. Most emailed on Slate.com July 31, 2010.
16. **Pines JM**. Should we be afraid of the superbug? *Foreign Policy Magazine*. (http://www.foreignpolicy.com/articles/2010/09/03/should_we_be_afraid_of_the_superbug) Published September 3, 2010.
17. Meisel ZF, **Pines JM**. McDonald's Medicine: To Impatient to Wait for Care? *TIME*. <http://www.time.com/time/nation/article/0,8599,2044392,00.html> Published January 26, 2011. Most emailed and read on Time.com website January 26, 2011.
18. **Pines JM**, Meisel ZF. Imaging Boom: Why Doctors Order Too Many Tests (It's Not Just to Avoid Lawsuits). *TIME*. <http://www.time.com/time/health/article/0,8599,2053354,00.html> Published February 25, 2011. Most emailed and read on Time.com website February 25, 2011, most emailed February 26-28, 2011.
19. **Pines JM**, Meisel ZF. Why the Grey's Anatomy Myth Clouds the Real Value of Emergency Care. *TIME*. <http://www.time.com/time/health/article/0,8599,2064446,00.html> Published April 11, 2011, most read April 11-13 & 16, 2011; most emailed April 11-13 & 16, 2011.
20. Belaval E, **Pines JM**. ED Crowding: a current appraisal on its effects, outcomes and solutions. *Emergency Medicine Practice*. EB Medicine May 2011.
21. Meisel ZF, **Pines JM**. Post-HMO Health Care: Are ACOs the Answer? *TIME*. <http://www.time.com/time/health/article/0,8599,2074816,00.html>. Published May 31, 2011. Most emailed on May 31, 2011.

22. **Pines JM**, Meisel ZF. The Diverted Ambulance: How ER Crowding Kills. *TIME*. <http://www.time.com/time/health/article/0,8599,2079935,00.html> Published June 27, 2011. Most read on June 27, 2011.
23. Meisel ZF, **Pines JM**. Why Secret Doctor-Shopping Studies Are Necessary *TIME*. <http://www.time.com/time/health/article/0,8599,2088583,00.html> Published August 15, 2011. Most read & emailed on August 15, 2011.
24. **Pines JM**, Meisel ZF. The Night-Weekend Effect: Why Medical Outcomes Can Be Worse Depending On When Day You Get Sick. *TIME* <http://www.time.com/time/health/article/0,8599,2090886,00.html> Published August 29-30, 2011. Most read & emailed on August 29-31, 2011.
25. **Pines JM**. Real Q.I.: Why It Takes Leadership - Plus A Good Idea - to Make and Sustain Positive Change. *Emergency Physicians' Monthly*. <http://www.epmonthly.com/features/current-features/real-qi-improvements/> October 2011
26. Meisel ZF, **Pines JM**. Should your doctor be taking naps? *TIME* <http://healthland.time.com/2011/12/30/should-your-doctor-be-napping-on-the-job/> Published December 30, 2011. Most read on Time Healthland December 30, 31, 2011, and January 1, 2012.
27. **Pines JM**, Meisel ZF. Can Better Access to Health Care Really Lower Costs? *TIME* <http://healthland.time.com/2012/01/23/does-better-access-to-health-care-really-help-lower-costs/> Published January 23, 2012.
28. Meisel ZF, **Pines JM**. Simple Design: What Health Care Can Learn from a TV Remote Control. *TIME* <http://healthland.time.com/2012/06/01/smart-design-what-health-care-can-learn-from-a-tv-remote-control/#ixzz1xXU3Ek4W/> Published June 1, 2012.
29. **Pines JM**. Hard Rules for “Soft Admissions”. *Emergency Physicians Monthly*. August 2012. <http://www.epmonthly.com/features/current-features/hard-rules-for-soft-admissions/>
30. Meisel ZF, **Pines JM**. The 'July Effect' Revisited: Why the Most Experienced Doctors Don't Always Deliver the Best Medical Care. *TIME*. <http://healthland.time.com/2012/07/17/the-july-effect-revisited-why-the-most-experienced-doctors-dont-always-deliver-the-best-medical-care/> Published July 17, 2012. Most read on Time Healthland. July 17, 2012. Also published on CNN at: <http://www.cnn.com/2012/07/17/health/experienced-doctors-may-not-deliver-best-care-july/index.html>
31. **Pines JM**. The CT Imaging Boom and Payment Reform. *Emergency Physicians Monthly*. September 2012.

<http://www.epmonthly.com/features/current-features/the-ct-boom-meets-payment-reform/>

32. **Pines JM.** Transition to systems thinking. A podcast with Ric Martinez, MD. November 2012 <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
33. **Pines JM, Meisel ZF.** Zero-Mistake Medicine. *Emergency Physicians Monthly*. December 2012. <http://www.epmonthly.com/features/current-features/zero-mistake-medicine/>
34. **Pines JM.** Advocating for policy. A podcast with Nathan Schlicher, MD. January 2013. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
35. **Pines JM.** Healthcare coalitions. A podcast with Richard Hunt, MD. January 2013. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
36. **Pines JM.** Geography as destiny. A podcast with Brendan Carr, MD. February 2013. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
37. **Pines JM.** UK's Four Hour Rule. A podcast with Ellen Weber, MD and Suzanne Mason, MD. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
38. **Pines JM.** Narratives in Emergency Care. A podcast with Zachary Meisel, MD. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
39. **Pines JM.** CMS Value-Based Purchasing. A podcast with Patrick Conway, MD. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
40. **Pines JM.** Making Disposition Decisions. A podcast with Lisa Calder, MD. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
41. **Pines JM.** Primary Care and ED use. A podcast with Adit Ginde, MD. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
42. **Pines JM.** Episodes of care. A podcast with Jennifer Wiler, MD. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
43. **Pines JM.** Policy - Making the Most of EHR. *Emergency Physicians Monthly* March 2013 <http://www.epmonthly.com/features/current-features/policy-making-the-most-of-ehr/>

44. **Pines JM.** Emergency Medicine Action Fund. A podcast with Wes Fields, MD. April 2013 <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
45. Schuur JD, **Pines JM.** On Second Pass, ACEP Opts to Join “Choosing Wisely” Initiative. *Emergency Physicians Monthly*. April 2013. <http://www.epmonthly.com/features/current-features/on-second-pass-acep-opts-to-join-choosing-wisely-initiative/>
46. **Pines JM.** Cost-conscious care. A podcast with Jeremiah Schuur, MD. April 2013. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
47. Wasfy J, **Pines JM.** Money can’t always save lives: Why paying for hospital quality saves lives in England but not in the U.S. May 2013 <http://www.kevinmd.com/blog/2013/05/pay-performance-saves-lives-uk.html>
48. **Pines JM.** All medicine is personal. A podcast with Leana Wen, MD. May 2013 <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
49. **Pines JM.** Clinical Decision Rules 101. A podcast with Ian Stiell, MD. May 2013 <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
50. **Pines JM.** Changing the way we deliver care. A podcast with Maria Raven, MD. June 2013 <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
51. **Pines JM.** Patient Experience in the ED. A podcast with Seth Glickman, MD. July 2013 <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
52. **Pines JM.** Safer Sign-Out. A podcast with Drew Fuller, MD. July 2013 <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
53. **Pines JM.** Atrial fibrillation in Emergency Department: The ED’s Role in Assessing Stroke Risk. *ACEP News*. November 2013
54. **Pines JM.** Trauma Centers. A podcast with Renee Hsia, MD. December 2013 <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
55. **Pines JM.** Diversion Ban in Massachusetts. A podcast with Stephen Epstein, MD. December 2013. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
56. **Pines JM.** Population Health and Emergency Care. A podcast with David Nash MD. February 2014 <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>

57. **Pines JM.** Emergency Preparedness. A podcast with Eric Goralnick MD. April 2014. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
58. **Pines JM.** Medication Communication. A podcast with Danielle McCarthy MD. May 2014. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
59. **Pines JM.** Emergency Medicine and the Affordable Care Act. QuantiaMD. June 2014
60. **Pines JM.** Care Coordination and the Emergency Department. QuantiaMD. June 2014
61. **Pines JM.** Inpatient Admission Decisions in the ED. QuantiaMD. June 2014
62. **Pines JM.** Clinical Decision Rules. QuantiaMD. June 2014
63. **Pines JM.** Frequent Users of Emergency Departments: Myths and Reality. QuantiaMD. June 2014.
64. **Pines JM.** Pediatric Emergency Care. A podcast with James Chamberlain MD. May 2014. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
65. **Pines JM.** Improving Healthcare Delivery. A podcast with Angelo Falcone, MD. July 2014. <https://itunes.apple.com/us/podcast/urgent-matters/id581928641>
66. **Pines JM.** Best Practices for ED Flow Improvement. QuantiaMD. August 2014.
67. **Pines JM.** Innovations in Patient Safety. A podcast with Peter Pronovost MD. September 2014. <https://itunes.apple.com/us/podcast/clinical-practice-innovations/id924161754?mt=2>
68. **Pines JM.** Access to care is not the issue. A podcast with Karin Rhodes, MD. October 2014. <https://itunes.apple.com/us/podcast/urgent-matters/id926385000?mt=2>
69. **Pines JM.** Patient Decision Aids. A podcast with Karen Sepulcha, MD. October 2014. <https://itunes.apple.com/us/podcast/urgent-matters/id926385000?mt=2>
70. **Pines JM.** Iora Model for Primary Care. A podcast with Rushika Fernandopulle, MD. <https://itunes.apple.com/us/podcast/clinical-practice-innovations/id924161754?mt=2>

71. **Pines JM.** Immigrant Health. A podcast with Steven Larson, MD. <https://itunes.apple.com/us/podcast/clinical-practice-innovations/id924161754?mt=2>
72. **Pines JM.** The Risk-Free ED. A podcast with Thom Mayer, MD. November 2014. <https://itunes.apple.com/us/podcast/urgent-matters/id926385000?mt=2>
73. **Pines JM.** Rethinking the use of diagnostic imaging. A podcast with Rebecca Smith-Bindman. <https://itunes.apple.com/us/podcast/clinical-practice-innovations/id924161754?mt=2>
74. **Pines JM.** Electronic ED Follow-up. A podcast with Tom Scaletta, MD. November 2014 <https://itunes.apple.com/us/podcast/urgent-matters/id926385000?mt=2>
75. **Pines JM.** Point-of-care testing in the ED. A podcast with George Hertner, MD. December 2014. <https://itunes.apple.com/us/podcast/urgent-matters/id926385000?mt=2>
76. **Pines JM.** Open payments. A podcast with Shantanu Agrawal, MD. <https://itunes.apple.com/us/podcast/clinical-practice-innovations/id924161754?mt=2>

H. Submitted Publications and Publications Undergoing Revision

1. Zocchi M, Ramiah K, Lazar D, McClelland MS, Simpson C, Terwiesch C, Smith M, **Pines JM.** The Science and Art of Using the ED Data to Measure Performance and Improve Quality. *Am J Emerg Med* (undergoing revisions)
2. Cotterill P, Deb P, Shrank WH, **Pines JM.** Variation in Emergency Department Admission Rates for Chest Pain and Acute Myocardial Infarction and Death within 30 Days in the Medicare Population. *Acad Emerg Med* (undergoing revisions)
3. Cafardi SG, **Pines JM,** Deb P, Powers CA, Shrank WH. The Impact of Increased Use of Observation Services in Medicare Beneficiaries with Chest Pain. *Am J Manag Care* (under review)
4. Li S, Dor A, **Pines JM,** Zocchi MS, Hsia RY. Factors Associated with Market Entry and Exist of Primary Care Clinics in California. *Med Care Res Rev* (under review)
5. **Pines JM,** Almehlisi A, Ding R, Zocchi M, Mehta T, Krishnan T, Raj D. Missed treatments, Hospitalization, and Mortality among Hemodialysis Patients. *Med Care* (under review)

6. Colligan EM, Wolff J, Dy S, Roth DL, **Pines JM**, Colantuoni E. The Relationship between Continuity of Care and Frequent Emergency Department Use in the Medicare Population. *Med Care* (under review)
7. Glickman SW, Mehrotra A, Shea S, Mayer C, Strickler J, Pabers S, Larson J, Goldstein B, Mandelkehr L, Cairns, C, **Pines JM**, Schulman KA. A Patient Reported System to Identify Medical Errors and Improve Patient Safety in the Emergency Department. *Ann Emerg Med* (under review)
8. Alghamdi K, Zocchi M, Frohna W, **Pines JM**. The 2013 Dip: Factors Influencing Falling ED visits and inpatient admissions in DC and Maryland. *J Emerg Med* (under review)
9. Marra E, Mazer-Amirshahi M, Brooks G, **Pines JM**. Benzodiazepine prescribing to older adults in ambulatory clinics and emergency departments. *J Am Geriatr Soc* (undergoing revisions)
10. Ward MJ, Collins SP, Dill C, **Pines JM**, Tyndall G, Kessler CS. Variability in Physician Staffing and Available Services at Emergency Departments in Veterans Health Administration Hospitals. *Am J Emerg Med* (under review)
11. Quadri F, Mazer-Amirshahi M, Fox ER, Hawley K, **Pines JM**, Zocchi M, May L. Antibacterial Drug Shortages from 2001 to 2013: Implications for Clinical Practice. *Clin Infect Dis* (under review)
12. Zocchi M, McClelland M, **Pines JM**. Increasing Throughput: Results from a 42-hospital collaborative to improve. *J Comm J Hosp Pat Saf* (under review)
13. Gallaraga J, **Pines JM**. Healthcare Costs Related to Emergency Care in the United States. *Med Care* (under review)
14. Colligan EM, Wolff J, **Pines JM**, Colantuoni E. Risk Factors for Persistent Frequent Emergency Department Use in Medicare Beneficiaries. *Ann Emerg Med* (under review)
15. May L, Ware C, Jordan JA, Zocchi M, Ajabnoor Y, **Pines JM**. Availability of Rapid PCR Testing for Chlamydia and Gonorrhea Significantly Reduces Antibiotic Overuse in Adults Presenting to an Urban ED. *Ann Emerg Med* (under review)
16. Mazer-Amirshahi M, Fox ER, Hawley K, Zocchi M, **Pines JM**, Nelson L. Drug Shortages: Implications for Medical Toxicology. *J Med Toxicol* (under review)
17. Hussain A, Carpenter CR, Ward WJ, Rao M, Sivilotti M, Fowler S, **Pines JM**.

Atraumatic Subarachnoid Hemorrhage in the ED: A Systematic Review and Meta-Analysis of Diagnostic Accuracy for History, Physical Exam, Imaging, and Lumbar Puncture. *Acad Emerg Med* (under review)

11. Presentations

A. National Oral Research Presentations

1. **Pines JM**, Rathore SS, Berger AK, Oetgen WJ, Gersh BJ, Schulman KA. Effects of Rural Residence on Treatment and Outcomes for Acute Myocardial Infarction Patients: Society for General Internal Medicine Conference, April 1998
2. **Pines JM**, Hall A, Hunter J, Srinivasan R, Ivanov M, Ghaemmaghami CA. Inter-rater Variation In The Emergency Department Abdominal Exam In Patients Presenting With Abdominal Pain. Society for Academic Emergency Medicine Mid-Atlantic Conference (Plenary Session, oral), March 2003 and National Assembly (oral presentation), May 2003
3. **Pines JM**, Maready EE, Ahmed H, Gurka M, Radcliff VS, Brady WJ. The Clinical Presentation of Diabetic Ketoacidosis: A Series of 193 Patients. American Academy of Emergency Medicine National Assembly, February 2004 (second place, resident research competition)
4. **Pines JM**, Hollander JE, Localio AR, Metlay JP. Emergency Department Crowding Is Associated With Poorer Performance For Pneumonia Care But Not For Acute Myocardial Infarction. Society for Academic Emergency Medicine, May 2006 (semi-finalist, Best Young Investigator Award)
5. **Pines JM**. A Cost-Utility Analysis For Evaluating Low-Risk Suspected Subarachnoid Hemorrhage: Is Lumbar Puncture Always Needed? Society for Academic Emergency Medicine, May 2006
6. Gaieski DF, **Pines JM**, Band RA, Furia FF, Goyal M. The impact of time to antibiotic initiation on mortality in patients treated with early goal-directed therapy for severe sepsis or septic shock. Society for Academic Emergency Medicine, May 2007
7. Garson C, Hollander JE, Rhodes KV, Sease KL, Shofer FS, McCusker C, Baxt WG, **Pines JM**. ED Patient Preferences For Boarding Locations & Wait Times When Hospitals Are At Full Capacity. Society for Academic Emergency Medicine, May 2007
8. **Pines JM**, Rhodes KV, Baxt WG, Hollander JE. ED Crowding Is Associated With Delays In Analgesia And Non-Treatment For Patients Who Report Severe Pain. Society for Academic Emergency Medicine, May 2007

9. Cooper J, Datner EM, **Pines JM**. The Effect Of A Chest X-Ray At Triage Protocol on Time to Antibiotics For Admitted Patients with Pneumonia. Society for Academic Emergency Medicine, May 2007
10. **Pines JM**, Hollander JE, Localio AR, Baxt WG, Lee H, Phillips C, Metlay JP. The Association Between ED Crowding and Time To Antibiotics For Pneumonia. Society for Academic Emergency Medicine, May 2007 (Winner, Best Presentation by a Young Investigator)
11. **Pines JM**, Hollander JE. The Impact Of Emergency Department Crowding On Cardiac Outcomes In ED Patients With Acute Chest Pain. American College of Emergency Physicians National Assembly, October 2007
12. **Pines JM**, Schwartz JS, Hollander JE. Racial Disparities In ED Waiting and Boarding Times in the United States. American College of Emergency Physicians National Assembly, October 2007
13. **Pines JM**, Goyal M, Band RA, Gaieski DF. Higher ED occupancy is associated with antibiotic delays but not mortality endpoints in patients with severe sepsis. Society for Academic Emergency Medicine National Assembly May 2008
14. Mills AM, Shofer FS, Hollander JE, Chen EH, **Pines JM**. The Effect of Emergency Department Crowding on Patients with Abdominal Pain. Society for Academic Emergency Medicine National Assembly. May 2009
15. **Pines JM**. The association between ED crowding and delirium. American Geriatrics Society National Assembly. April 2010
16. **Pines JM**. Hospital-level admission from the emergency department: A source of common, expensive variation. AHRQ National Conference. September 2011

B. Lectures by invitation / national speaking engagements

1. Didactic Session, Costing Studies in Emergency Medicine: A Guide for Clinicians and Researchers, SAEM National Assembly, 2001
2. Didactic Session, Training After Residency: The MBA for Emergency Physicians, SAEM National Assembly, 2002
3. Didactic Session, The Academic Associate Program At University Of Virginia, SAEM Mid-Atlantic Conference, Washington, DC, 2003

4. Faculty, The Business of Emergency Medicine Made Simple: Negotiation Strategies, AAEM Scientific Assembly, Miami, FL, 2004
5. Didactic Session, “Cost-Effectiveness Analysis In Emergency Medicine” SAEM Mid-Atlantic Conference, Washington, DC, 2005
6. Didactic Session, “Update On Pneumonia”, SAEM Mid-Atlantic Conference, Washington, DC, 2006
7. Didactic Session, “Emergency department crowding and patient-oriented outcomes”, SAEM National Assembly (with Brent R Asplin and Steve L Bernstein), Washington, DC, 2008
8. Transition from Resident to Junior Faculty: Keys for Success. Society for Academic Emergency Medicine Midwest Conference (Keynote speaker), Ann Arbor, MI, 2009
9. Inaugural Speaker, AAEM Young Physician Section, “ED crowding” AAEM National Assembly, Las Vegas, NV, 2009
10. ACEP Leadership & Advocacy Conference “ED crowding solutions: How to communicate with your hospital CEO”, Washington, DC (with Brent Asplin and Sandra Schneider), 2009
11. Didactic Session, “Crowding and the CFO.” SAEM National Assembly (with Frank Zwemer & Daniel Handel), New Orleans, LA, 2009
12. State-of-the-art: ED crowding. Society for Academic Emergency Medicine Mid-Atlantic Conference (Keynote speaker), Charlottesville, VA, 2010
13. ED crowding: causes, effects, and solutions. Urgent Matters Webinar. April 23, 2010
14. Academic careers in emergency medicine – Illinois College of Emergency Physicians Assembly, Chicago, IL (Keynote speaker), 2010
15. Guest speaker. NHAMCS: A user’s perspective. National Center for Health Statistics, Hyattsville, MD, 2010
16. The impact of ED crowding on outcomes. National Center for Health Statistics National Conference, Washington, DC, 2010
17. Expert discussant on emergency care. AHRQ National Conference. Rockville, MD, 2010

18. Benefits of Reducing Emergency Department Crowding – Aligning Forces for Quality – Increasing Throughput Webinar. December 2, 2010
19. The Value of Emergency Care. American College of Emergency Physicians Health Writer’s Conference, New York, NY, 2011
20. Crowding: Causes, Consequences, Cure, Emergency Medicine Patient Safety Foundation Conference, Las Vegas, NV, 2011
21. ED procedural safety: A conceptual model and research agenda. Emergency Medicine Patient Safety Foundation Conference, Las Vegas, NV, 2011
22. Patient safety and emergency department crowding and boarding, 4th Annual Risk Management and Patient Safety Seminar, Mag Mutual and Emergency Physicians of Tidewater, Norfolk, VA, 2012
23. Procedural safety in the emergency department, 4th Annual Risk Management and Patient Safety Seminar, Mag Mutual and Emergency Physicians of Tidewater, Norfolk, VA, 2012
24. Care coordination in the emergency department, 4th Annual Risk Management and Patient Safety Seminar, Mag Mutual and Emergency Physicians of Tidewater, Norfolk, VA, 2012
25. Emergency department crowding and boarding: Patient safety issues. Emergency Medicine Patient Safety Foundation Conference, San Antonio, TX, 2012
26. Emergency department crowding and boarding. Patient Safety Interest Group, SAEM, Chicago, IL, 2012
27. State-of-the-art: Policy update on emergency care. ACEP Research Forum (Keynote speaker), Denver, CO, 2012
28. Payment Reform and Patient Safety, ACEP Quality Improvement and Patient Safety Section, ACEP Scientific Assembly, Denver, CO, 2012
29. Panelist, Cinematic premiere of the movie “Escape Fire”, along with Eleanor Holmes Norton (D-DC), Washington, DC, 2012
30. Policy update on emergency care 2012. AHRQ National Conference. September 2012
31. Didactic Session, Center for Medicare and Medicaid Innovation (with Anand Shah), SAEM National Assembly, Chicago, IL, 2012

32. Didactic Session, The Nadir of Clinical Operations Innovation: Implications for Future Growth (with Michael Hochberg, Peter Pang, and Leon Haley), SAEM National Assembly, Chicago, IL, 2012
33. Didactic Session, Defining the Emergency Care Research Agenda in the Era of Health Reform) (with Robert Heyward, Brent Asplin, Keith Kocher, and Zachary Meisel), SAEM National Assembly, Chicago, IL, 2012
34. The Pressure to Reduce Testing in the ED: Payment Reform 2012. Urgent Matters Policy Conference, ACEP meeting, Denver, CO, 2012
35. Emergency department crowding and boarding: Safety and Solutions, Dignity Healthcare, Las Vegas, NV, 2013
36. Colin Rorie Memorial Lecture, ACEP, along with Brent Asplin and Michael Gerardi. The New Era of Cost-Containment in Emergency Care, Seattle, WA, 2013
37. Transitions of Care in Emergency Department. ACEP, along with Brent Asplin and Dickson Cheung, Seattle, WA, 2013
38. ACEP ED crowding workshop, along with Eddy Lang, Peter Wyer, and Naomi Adler, American College of Emergency Physicians, Seattle, WA, 2013
39. Value-Based Models for Sustaining Emergency Preparedness Capacity and Capability in the United States. 2013. (Presentation to the Institute of Medicine Preparedness Forum), Washington, DC
40. Implementation of the National Health Security Strategy. For The Assistant Secretary of Preparedness and Response. October 2013 (Webinar)
41. Care Pathways to Promote Cost-Conscious Emergency Care, The Regional Forum on ED Care Transitions, The Health Care Improvement Foundation, (Keynote speaker) Philadelphia, PA, 2014
42. AAEM Operations Management in Emergency Care (pre-conference), Health Reform and the Emergency Care, (Keynote speaker), New York, NY, 2014
43. Rising Opioid Prescriptions Among Emergency Department Patients, Substance Abuse and Mental Health Services Administration, Rockville, MD, 2014
44. Emergency Department Practice Management Association Conference, Cost-consciousness and emergency care, (Keynote Speaker), New Orleans, LA, 2014

45. The ACA and Emergency Care, ACEP Leadership and Advocacy Conference, Washington, DC, 2014
 46. The Future of Emergency Care, ACEP Leadership and Advocacy Conference, Washington, DC, 2014 (along with Jay Schuur, Maria Raven, Ric Martinez)
 47. Didactic Session, Alternative Strategies to Admission and Readmission from the Emergency Department, Dallas, TX, SAEM 2014, (along with Mary Tanski)
 48. Point of Care in the Emergency Department, Urgent Matters webinar (along with George Hertner, MD), 2014
 49. Health Reform and Future of Emergency Care, Medstar Emergency Physicians, Washington, DC, 2014 (Keynote Speaker)
 50. Facilitating Quality Improvement and Reducing Clinical Practice Variation at Universal Health Services, Inc., UHS Retreat, Las Vegas, NV, 2014
 51. The Essential Role in the ED in the Journey to Value, EMA Physician Retreat, Baltimore, MD, 2015 (planned)
 52. Didactic Session, ED Operations Research: An Agenda for Impactful Research to Support Quality Patient Care Delivery, SAEM National Assembly, San Diego, CA, 2015 (planned)
 53. Didactic Session, Utilizing CMS Data in Emergency Medicine Research, SAEM National Assembly, San Diego, CA, 2015 (planned)
 54. Didactic Session, Crossfire: Quality Measures and Residency Education, SAEM National Assembly, San Diego, CA, 2015 (planned)
- C. Lectures by invitation / international speaking engagements
1. Innovative Approach to ED Flow, Saudi Emergency Medicine Assembly, Riyadh, Saudi Arabia, 2015
 2. Clinical Decision Rules in the ED, Saudi Emergency Medicine Assembly, Riyadh, Saudi Arabia, 2015
 3. The role of ED Care in Public Health and Preparedness, Saudi Emergency Medicine Assembly, Riyadh, Saudi Arabia, 2015
- D. Institutional Lectures:

1. Guest Lecturer, “The Business of Biotechnology”, Georgetown, 1999
University Masters Program in Biotechnology
2. Resident Lecturer, “Oncologic Emergencies”, UVA EM Residency program, 2001
3. Resident Lecturer, “How To Evaluate A Research Paper”, UVA EM Residency Program, 2002
4. Resident Lecturer, “Metabolic Emergencies”, UVA EM Residency Program, 2003
5. Resident Lecturer, “An Economic Model of Emergency Medicine”, UVA EM Residency Program, 2003
6. Resident Lecturer “ED Ultrasound: The FAST examination for Trauma”, University of Virginia EM Residency Program, 2004
7. Resident Lecturer “Personal Finance 101 For the Resident Physician”, UVA EM Residency Program, 2004
8. Faculty Lecturer “Clinical Decision Rules in Emergency Medicine Practice”, University of Pennsylvania EM Residency Program, 2004
9. Faculty Lecturer “Evidence-Based Treatment of Cardiogenic Pulmonary Edema”, University of Pennsylvania EM Residency Program, 2005
10. Faculty Lecturer “Medical Decision Making I: Diagnostic Test Characteristics In Emergency Medicine”, University of Pennsylvania EM Residency Program, 2005
11. Faculty Lecturer “Medical Decision Making II: Advanced Topics in Diagnostic Testing”, University of Pennsylvania EM Residency Program, 2005
12. Faculty Lecturer “ED Crowding”, University of Pennsylvania EM Residency Program, 2006
13. Faculty Lecturer, “Update On Pneumonia”, University of Pennsylvania EM Residency Program, 2006
14. Faculty Lecturer, “Predicting Antibiotic-Sensitive Illness in the Emergency Department”, University of Pennsylvania EM Residency Program, 2007
15. Faculty Lecturer, “The Impact Of ED Crowding On Patient-Care Outcomes”, CCEB Seminar, 2007

16. Faculty Lecturer, “Dental Emergencies.” University of Pennsylvania EM Residency Program, 2007
17. The Impact Of ED Crowding On Patient-Care Outcomes, Pennsylvania Presbyterian Hospital, Philadelphia, PA (Grand Rounds – Emergency Medicine), 2007
18. Faculty Lecturer, “Topics In Infectious Disease.” University of Pennsylvania EM Residency Program, 2008
19. The Impact of ED Crowding on Older Adults (Grand Rounds – Division of Geriatric Medicine, University of Pennsylvania), 2008
20. Schwartz Center Rounds, Faculty, Care of the VIP patient – Hospital of the University of PA, Philadelphia, PA, 2008
21. Faculty Lecturer, “The Impact Of ED Crowding On Patient-Care Outcomes” (Grand Rounds), University of Pennsylvania EM Residency Program, 2008
22. Faculty Lecturer, “ENT Emergencies” University of Pennsylvania EM Residency Program, 2008
23. Faculty Lecturer, “Eye Pain” University of Pennsylvania EM Residency Program, 2008
24. Faculty Lecturer, Pulmonary Embolism, University of Pennsylvania EM Residency Program, 2009
25. Faculty Lecturer, Financial Management for Residents in a Down economy, University of Pennsylvania EM Residency Program, 2009
26. Faculty Lecturer, “ENT Emergencies”, University of Pennsylvania EM Residency Program, 2009
27. Guest Lecturer, “EMTALA and Emergency Care”, George Washington University Law Center, 2010
28. Faculty Lecturer, “EMTALA and Emergency Care”, Health Policy Lecture Series, George Washington University School of Medicine, 2010
29. Faculty Lecturer, “Diagnostic Testing and Clinical Decision Rules”, George Washington University EM Residency Program, 2011
30. Faculty Lecturer, “EMTALA and Emergency Care”, Health Policy Lecture Series, George Washington University School of Medicine, 2011

31. Guest Lecturer, “Research designs for mobile health”, George Washington University School of Public Health, 2011
32. Faculty Lecturer, “The Center for Medicare and Medicaid Innovation”, Health Policy Lecture Series, George Washington University School of Medicine, 2012
33. Faculty Lecturer, “Quality Improvement in Medical Care: The Basics”. George Washington University, Division of Endocrinology Grand Rounds, 2012
34. Speaker, University Seminar on Technology in Emergency Care, “Care Coordination and Technology in the Emergency Department”, George Washington University, 2012
35. Faculty Lecturer, “Career panel for health policy”, George Washington University Health Policy for Residents Program, 2012
36. Faculty Lecturer, “What residents need to know about quality and quality improvement”, Department of Internal Medicine, Primary Care Track, George Washington University, 2012
37. Faculty Lecturer, “Bitter Pill: Why Medical Bills Are Killing Us”, Department of Emergency Medicine, Grand Rounds, George Washington University, 2013
38. Faculty Lecturer, “Clinical Practice Innovation 101”, George Washington University Health Policy for Residents, 2013
39. Faculty Panelist, “Patient safety panel for medical students”, George Washington University School of Medicine and Health Sciences, 2013
40. Faculty Panelist, “Disruptive Innovation”, George Washington University School of Medicine and Health Sciences, 2013
41. Faculty Lecturer, “The Office for Clinical Practice Innovation at GW”, George Washington University School of Medicine and Health Sciences, 2014
42. Faculty Lecturer, “Quality and Safety in Medical Care” (to entire 3rd year class), George Washington University School of Medicine and Health Sciences, 2014
43. Faculty Lecturer, “Publishing with Residents and Medical Students”, Faculty Seminar Series, George Washington University School of Medicine and Health Sciences, 2014