

J. Matthew Austin, PhD
The Johns Hopkins University School of Medicine
Curriculum Vitae
Updated: September 2014

DEMOGRAPHIC INFORMATION

Current Appointments

Assistant Professor, Department of Anesthesiology and Critical Care Medicine
The Johns Hopkins University School of Medicine, Baltimore, MD

Assistant Professor, Armstrong Institute for Patient Safety and Quality
Johns Hopkins Medicine, Baltimore, MD

Personal Data

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Education and Training

1995	B.S.E	University of Michigan	Industrial & Operations Engineering
2007	M.S.	University of Wisconsin – Madison	Industrial & Systems Engineering
2011	Ph.D.	University of Wisconsin – Madison	Industrial & Systems Engineering

Professional Experience

1996-1998	Industrial Engineer, Field Services, American Airlines, Fort Worth, TX
1998-2003	Industrial Engineer, Field Services, Continental Airlines, Houston, TX
2003-2006	Manager of Industrial Engineering, Field Services, Continental Airlines, Houston, TX
2006-2008	Part-Time Industrial Engineer, Field Services, Continental Airlines, Houston, TX
2008-2011	Researcher, Center for Health Systems Research and Analysis, School of Engineering, University of Wisconsin - Madison
2012	Assistant Scientist, Center for Health Systems Research and Analysis, School of Engineering, University of Wisconsin - Madison
2012-2013	Instructor, Department of Anesthesiology and Critical Care Medicine, The Johns Hopkins University School of Medicine, Baltimore, MD
2012-2013	Instructor, Armstrong Institute for Patient Safety and Quality, Johns Hopkins Medicine, Baltimore, MD
2013-Present	Assistant Professor, Department of Anesthesiology and Critical Care Medicine, The Johns Hopkins University School of Medicine, Baltimore, MD
2013-Present	Assistant Professor, Armstrong Institute for Patient Safety and Quality, Johns Hopkins Medicine, Baltimore, MD

RESEARCH ACTIVITIES

Publications

Peer-reviewed Original Science Research

1. **Austin JM**, Miller MR, Pronovost PJ. Young and Reckless? Greater Standardization and Transparency of Performance Is Needed for Pediatric Performance Measures. *Acad Pediatr.* 2014;14:S15–S16.
2. Pronovost PJ, Marsteller JA, Wu AW, Holzmueller CG, Thompson DA, Lubomski LH, Paine LA, Hobson DB, Sawyer MD, Wyskiel RM, Aboumatar H, Needham DM, Goeschel CA, Winters BD, Pham JC, Sapirstein, A, Romig M, Mendez-Tellez PA, Gurses AP, Rosen MA, Weaver SJ, **Austin JM**, Latif A, Berenholtz SM. Advancing the science of patient safety and quality improvement to the next level. In: Battles JB, Cleeman JI, Kahn KK, and Weinberg DA, editors. *Advances in the Prevention and Control of Health Care-Associated Infections.* Rockville (MD): Agency for Healthcare Research and Quality (US); June 2014.
3. **Austin JM**, D'Andrea G, Birkmeyer JD, Leape LL, Milstein A, Pronovost PJ, Romano PS, Singer SJ, Vogus TJ, Wachter RM. Safety in Numbers: The Development of Leapfrog's Composite Patient Safety Score for U.S. Hospitals. *J Patient Saf.* 2014;10(1):64-71.
4. Pronovost PJ, Demski R, Callender T, Winner L, Miller MR, **Austin JM**, Berenholtz SM. Demonstrating high reliability on accountability measures at the Johns Hopkins Hospital. *Jt Comm J Qual Patient Saf.* 2013 Dec;39(12):531-44.
5. **Austin JM**, Jha AK, Romano PS, Singer SJ, Vogus TJ, Wachter RM, Pronovost PJ. Reporting on Hospital Report Cards: A Comparison of Four Consumer-Focused National Hospital Rating Systems. *Health Affair.* In-press.
6. Kaye DR, Berenson BA, **Austin JM**, Pronovost PJ. Gaps in Quality Measurement for Physicians. In: Shaller D and Kanouse D, editors. *A Decision Guide on Private "Performance Feedback" Reporting for Physicians.* Rockville, MD: Agency for Healthcare Research and Quality; In-press.

Extramural Funding

Current Grants and Contracts

8/1/14-7/30/15	Leapfrog Hospital Survey and Hospital Safety Score Award ID: 90052818 Sponsor: The Leapfrog Group Total Direct Cost: \$90,154 Principal Investigator: J. Matthew Austin Role, Effort: Principal Investigator, 40% effort.
4/1/14-10/31/14	America's Safest Congressional Districts Sponsor: Cautious Patient Foundation Principal Investigator: J. Matthew Austin Role, Effort: Principal Investigator, 40% effort.
11/1/13-10/31/15	A Comprehensive Unit-base Safety Program (CUSP) for Ventilator-Associated Conditions (VAC) and Ventilator-Associated Pneumonia (VAP) Prevention Sponsor: AHRQ ACTION II RFTO 27 Principal Investigator: Sean Berenholtz Role, Effort: Co-Investigator, 3% effort.

Previous Grants and Contracts

- 10/1/13-4/30/2014 Technical Proposal for a Technical Brief for Public Reporting of Cost Data
Sponsor: AHRQ RFTO #13
Principal Investigator: John Bridges
Role, Effort: Co-Investigator, 20% effort.
- 8/1/13-7/30/14 Leapfrog Hospital Survey and Hospital Safety Score
Award ID: 90052818
Sponsor: The Leapfrog Group
Total Direct Cost: \$90,154
Principal Investigator: J. Matthew Austin
Role, Effort: Principal Investigator, 35% effort.
- 8/1/12-7/30/13 Leapfrog Hospital Survey and Hospital Safety Score
Award ID: 90052818
Sponsor: The Leapfrog Group
Total Direct Cost: \$77,988
Principal Investigator: J. Matthew Austin
Role, Effort: Principal Investigator, 35% effort.
- 5/1/10-4/30/14 Developing and Testing a Set of Measures to Assess Safety in High Risk
Intensive Care Units
Study Number: NA_00040923
Sponsor: The Commonwealth Fund
Total Direct Cost: \$102,594
Principal Investigator: J. Matthew Austin
Role, Effort: Principal Investigator, 15% effort.
- 3/1/10 – 7/31/11 UW Health & Society Scholars Program Dissertation Grant
Award ID: Unknown
Sponsor: Robert Wood Johnson Foundation
Total Direct Cost: \$5,000
Principal Investigator: David R. Zimmerman
Role: Co-Investigator; funds to support dissertation research.

EDUCATIONAL ACTIVITIES

Teaching

- 04/07 "Performance Measurement in Health Care: An Overview of the University of Wisconsin Hospital and Clinics High-Level Dashboard," Design of Program Evaluation Systems, University of Wisconsin-Madison School of Engineering, Guest Lecturer.
- 05/07 "The Leapfrog Hospital Survey," Design of Program Evaluation Systems, University of Wisconsin-Madison School of Engineering, Guest Lecturer.
- 10/07 "Performance Measurement in Health Care: The Leapfrog Hospital Survey," Health Systems Engineering, University of Wisconsin-Madison School of Engineering, Guest Lecturer.
- 08/09 – 12/09 "Health Systems Engineering," ISyE 417, University of Wisconsin – Madison, School of Engineering, Co-Instructor.

- 10/10 "The Leapfrog Hospital Survey," Design of Program Evaluation Systems, University of Wisconsin-Madison School of Engineering, Guest Lecturer.
- 04/11 "The Leapfrog Group's Approach to Improving Hospital Quality," Health Systems Engineering, University of Wisconsin-Madison School of Engineering, Guest Lecturer.
- 02/13 – 4/13 "Armstrong Institute's Faculty Education Sessions on Health Care Performance Measures," Johns Hopkins Hospital, Billings Administration Building, Faculty Lead.

Educational Program Building / Leadership

- 09/13- 10/14 The Johns Hopkins Medicine Armstrong Institute Analytic Leadership Program in Patient Safety (ALPS), Assistant Director.

SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

System Innovation and Quality Improvement efforts within JHM

- 6/12 – present Departmental quality and safety dashboards, Johns Hopkins Hospital
Faculty Lead, 15% effort
Results: Worked with the 22 clinical departments to develop meaningful quality and safety dashboards.
- 6/12 – present JHM Mission Objectives, Johns Hopkins Medicine
Faculty Lead, 10% effort
Results: Helped identify quality and safety metrics for each entity for the JHM Mission Objectives and scored entity performance on the objectives.
- 12/12- present JHM Quality and Safety Dashboard, Johns Hopkins Medicine
Co-Lead, 15% effort
Results: Dashboard released on 4/1/14 to 40,000 employees of Johns Hopkins Medicine. We continue to add additional measures and functionality.
- 6/13– present Leapfrog Hospital Survey, Johns Hopkins Hospital
Faculty Lead, 5% effort
Results: Led collection and submission efforts for the Leapfrog Hospital Survey for JHH.
- 10/13 – present Development of Value Score for clinical service lines, Johns Hopkins Medicine
Faculty Lead, 15% effort
Results: Developed a value index for total knee and total hip replacement.
- 4/13 – 6/13 Due diligence for JHM/ARAMCO joint venture, Saudi Aramco Medical Services Organization (SAMSO); Dhahran, Saudi Arabia
Quality and safety metric consultant, 5% effort
Results: Helped identify accurate baseline performance on quality and safety metrics and help set year 1 and year 2 goals.

Development of Guidelines

- 11/09 "Performance measurement standards for operations management principles that have been shown to significantly transform hospital efficiency."

Co-author, 3% effort
 Reviewed by over 1,000 U.S. hospitals; guidelines undergoing revision for phase II of implementation.

System Innovation and Quality Improvement Program Building/Leadership:

- 6/12 – present National Leader Core Measure Workgroups, member of Core Measure Workgroups Planning Team.
- 4/13 – present JHH Maryland Hospital Acquired Condition (MHAC) Task Force, member of Task Force.

ORGANIZATIONAL ACTIVITIES

Editorial Activities

Editorial Review

- 6/13 – present BMJ Quality and Safety supplement for the Forum on Emerging Topics in Patient Safety, Co-Faculty Editor.

Journal Peer Review

- 12/13 Peer-reviewed manuscript for IIE Transactions on Healthcare Systems Engineering.
- 2/13 Peer-reviewed manuscript for The Patient: Patient-Centered Outcomes Research.

Conference Organizer

- 9/13 Johns Hopkins Medicine's Forum on Emerging Topics in Patient Safety, Baltimore, MD, Track lead.

RECOGNITION

Invited Talks

- 10/03 "Continental Airline's Successful Implementation of SABRE's Cargo Resource Allocation Software," SABRE Streamline Suite User Group Conference, Dallas, TX.
- 2/09 "The Reporting of BMC2 Registry Data to the Leapfrog Hospital Survey," Blue Cross Blue Shield of Michigan Cardiovascular Consortium Winter Meeting, Ann Arbor, MI.
- 4/09 "The Use of Transparency to Improve the Quality of Hospital Inpatient Care," Office of the Inspector General for Veteran Affairs Healthcare Inspections Spring Training Meeting, Philadelphia, PA.
- 8/09 "Overview of the Leapfrog CPOE Evaluation Tool," Health Information and Management Systems Society (HIMSS) Enterprise Information Systems Steering Committee. Webinar.
- 1/10 "Overview of the Leapfrog CPOE Evaluation Tool," Health Information and Management Systems Society (HIMSS) Hospital Organizational Affiliates. Webinar.

- 1/11 "Leapfrog's Partnership to Prevent Early Elective Deliveries," National Institute of Child Health & Human Development's National Child and Maternal Health Education Program Coordinating Committee, Bethesda, MD.
- 12/12 "Development of a Composite Patient Safety Score for U.S. Hospitals," Center for Health Services and Outcomes Research (CHSOR), Johns Hopkins University School of Public Health, Baltimore, MD.
- 11/13 "Development of a Composite Patient Safety Score for U.S. Hospitals," ACMQ Mid-Year Conference. American College of Medical Quality. Baltimore, MD.