

DAN M. SHANE

CURRICULUM VITAE

CONTACT INFORMATION

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 College of Public Health
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CURRENT ACADEMIC POSITIONS

Jul 2018 – Present	Associate Professor (with tenure), University of Iowa, Department of Health Management and Policy
Jul 2012 – Jun 2018	Assistant Professor, University of Iowa, Department of Health Management and Policy; Primary Appointment
Jul 2013 – Present	Assistant Professor, University of Iowa, Department of Economics; Secondary Appointment
Oct 2013 – Present	Assistant Professor, University of Iowa, Public Policy Center; Secondary Appointment

EDUCATION

2012	Ph.D., Economics	Indiana University, Bloomington, IN
2010	M.A., Economics	Indiana University, Bloomington, IN
1997	B.S., Economics	Bradley University, Peoria, IL

RESEARCH INTERESTS

Health Economics, Health Insurance, Health Care Reform, Public Finance

PUBLICATIONS

PEER-REVIEWED ARTICLES

1. “The Impact of the Affordable Care Act’s Dependent Coverage Mandate on Use of Dental Treatments and Preventive Services” with G. Wehby, *Medical Care*, forthcoming

2. “The Effect of Radiofrequency Technology on Time Spent Searching for Potentially Retained Surgical Sponges”, with V. Steelman, A. Schaapveld, H. Storm, Y. Perkhounkova, *AORN Journal*, forthcoming.
3. “Against the Current: Back-Transfer as a Mechanism for Rural Regionalization” with L. Nelson, K. Harland, A. Azeemuddin, N. Mohr, *The American Journal of Managed Care*, forthcoming.
4. “Is the ACA Bringing the Family Back Together (for Tax Purposes)? Investigating the Dependent Coverage Mandate Effect on Dependent Tax Exemptions” with D. Zimmer, *Review of Economics of the Household*, forthcoming.
5. “Safety of Back-Transfer to Local Hospitals During an Acute Care Hospitalization” with L. Nelson, K. Harland, A. Azeemuddin, N. Mohr, 2017, *Journal of Rural Health*, forthcoming.
6. “Telemedicine Use Decreases Rural Emergency Department Length-of-Stay for Transferred North Dakota Trauma Patients” with N. Mohr, P. Vakkalanka, K. Harland, A. Bell, B. Skow, M. Ward, *Telemedicine and e-Health*, forthcoming.
7. “Using Tele-Emergency to Avoid Patient Transfers in Rural Emergency Departments: An Assessment of Costs and Benefits” with N. Natafagi, F. Ullrich, C. Mackinney, A. Bell, M. Ward, *Journal of Telemedicine and Telecare*, forthcoming.
8. “The Impact of Medicare Part D on Emergency Department Visits” with P. Ayyagari, G. Wehby. *Health Economics*, 2017, 26: 536-544.
9. “The Increasing Use of Cannabis among Older Americans: A Public Health Crisis or Viable Policy Alternative?” with B. Kaskie, G. Milavetz, P. Ayyagari, K. Arora, *The Gerontologist*, 2017, available online doi.org/10.1093/geront/gnw166.
10. “Medicaid Health Home Reducing Costs and Reliance on Emergency Department: Evidence from Iowa” with P. Nguyen-Hoang, S. Bentler, P. Damiano, E. Momany, *Medical Care*, 2016, 54(8): 752-757.
11. “Continued Gains in Health Insurance but Few Signs of Increased Utilization: An Update on the ACA Dependent Coverage Mandate” with P. Ayyagari, G. Wehby. *Medical Care Research and Review*, 2016, 73(4), 478-492.
12. “The Effects of Distance to Dentists and Dentist Supply on Children’s Use of Dental Care” with G. Wehby, A. Joshi, E. Momany, D. Chi, R. Kuthy, P. Damiano, *Health Services Research*, 2017, 52(5), 1817-1834.
13. “Using Continuous Quantitative Capnography for Emergency Department Procedural Sedation: A Systematic Review and Cost-Effectiveness Analysis”, with N. Mohr, A. Stoltze, A. Ahmed, E. Kiscaden, *Internal and Emergency Medicine*, 2016, 1-11.
14. “Inter-Hospital Transfer is Associated with Increased Mortality and Costs in Severe Sepsis: An Instrumental Variables Approach” with N. Mohr, K. Harland, A. Ahmed, B. Fuller, M. Ward, J. Torner. *Journal of Critical Care*, 2016, 36, 187-194.
15. “Rural Patients with Severe Sepsis or Septic Shock who Bypass Rural Hospitals have Increased Mortality: An Instrumental Variables Approach” with N. Mohr, K. Harland, A. Ahmed, B. Fuller, M. Ward, J. Torner, *Critical Care Medicine*, 2016, 45(1), 85-93.

16. “Potentially Avoidable Interfacility Transfer is a Costly Burden for Rural Families” with N. Mohr, K. Harland, S. Miller, J. Torner, *Academic Emergency Medicine*, 2016, 23(8), 885-894.
17. “Does Prescription Drug Coverage Improve Mental Health? Evidence from Medicare Part D” with P. Ayyagari. *Journal of Health Economics*, 2015, 41, 46-58.
18. “Spillover Effects of the Affordable Care Act? Exploring the Impact on Young Adult Dental Insurance Coverage” with P. Ayyagari. *Health Services Research*, 2015, 50(4), 1109-1124.
19. “Achieving Regionalization through Rural Inter-Hospital Transfer” with L. Feazel, A.B. Schlichting, G.R. Bell, A. Ahmed, B. Faine, A. Nugent, N. Mohr. *American Journal of Emergency Medicine*, 2015, 33(9), 1288-1296.
20. “Variation in Primary Care Service Patterns by Rural-Urban Location” with P. Weigel, F. Ullrich, K. Mueller. *Journal of Rural Health*, 2015, DOI: 10.1111/jrh.12146.
21. “Will Health Care Reform Reduce Disparities in Insurance Coverage? Evidence from the Dependent Coverage Mandate” with P. Ayyagari. *Medical Care*, 2014, 52(6): 528-534.

NON PEER-REVIEWED BRIEFS & REPORTS

1. “Access, Utilization, and Cost Outcomes: Iowa Dental Wellness Plan Evaluation 2014-2016” with S. McKernan, E. Momany, A. Ingleswar, P. Ayyagari, A. Singhal, A. Ghattas, P. Damiano. *Iowa Public Policy Center Report*, 2017.
2. “Summary Report of the Iowa Medicaid Health Home: Evaluation of a Health Home Program for Those with Chronic Illness” with E. Momany, P. Damiano, S. Bentler, N. Askelson, P. Nguyen-Hoang, *Iowa Public Policy Center Report*, 2015
3. “Iowa Wellness Plan Evaluation Interim Report” with P. Damiano, E. Momany, S. Bentler, S. McKernan, M. Pooley, B. McInroy, T. Heeren, *Iowa Public Policy Center Report*, 2015
4. “Post-Enrollment Challenges for Vulnerable Consumers and the Role for the Safety Net” with P. Damiano, E. Momany, S. Bentler, *Iowa Public Policy Center Policy Brief*, 2014
5. “Cost Analyses of the Iowa Medicaid Health Home Program” with E. Momany, P. Nguyen-Hoang, P. Damiano, S. Bentler, *Iowa Public Policy Center Report*, 2014
6. “Assessing the Impact of Rural Provider Service Mix on the Primary Care Incentive Program” with P. Weigel, F. Ulrich, K. Mueller, C. MacKinney, *RUPRI Policy Brief 2013-16*, December 2013
7. “The Health Insurance Marketplace in Iowa: The Business Perspective” with P. Damiano, S. Bentler, *Report to Iowa Department of Public Health*, 2013
8. “The Health Insurance Marketplace in Iowa: The Consumer Perspective” with P. Damiano, S. Bentler, *Report to Iowa Department of Public Health*, 2013

WORKING PAPERS / IN PROGRESS

1. “Does Health Insurance Always Increase Health Spending? Evidence on Distributional Effects from Inpatient Hospital Stays” with D. Zimmer, under review, 2018.
2. “Genetic Variation in Health Insurance Coverage” with G. Wehby, under review, 2018.
3. “Heterogeneity in Medicare Part D’s Effect on Self-Reported Mental Health: Women Improving More than Men” with P. Ayyagari, work in progress, 2018.
4. “Mental Well-being of Young Adults Following the ACA Dependent Coverage Mandate: A Quantile Evaluation” with G. Wehby, under review, 2018.
5. “Differences in Effects of Private Dental Insurance on Use of Dental Services by Race”, with G. Wehby, working paper, 2018.
6. “Behavioral Incentives as Part of the Iowa Medicaid Expansion: Evidence on Wellness Visits”, with A. Ghattas, P. Nguyen-Hoang, S. Bentler, P. Damiano, E. Momany, work in progress, 2017.
7. “Emergency Department Charges Predict Mortality in Patients with Severe Sepsis and Septic Shock: A Cohort Study”, with N. Mohr, R. Dick-Perez, A. Ahmed, K. Harland, D. Miller, C. Miyake, L. Kannedy, B. Fuller, J. Torner, under review, 2018.
8. “The Specialist Will See You Now: Evidence of the Effect of Private Health Insurance on the Ratio of Specialist to Primary Care Doctor Visits”, working paper, 2016.
11. “Do Insurance Mandates Have Lingering Behavioral Benefits among Beneficiaries? Evidence from the Dependent Coverage Mandate”, work in progress, 2018.
12. “Temporary versus Continuous Lack of Health Insurance: Distinction with a Difference?”, working paper, 2015.
13. “Heterogeneity and Health Insurance: Analyzing the Importance and Diversity of Selection Bias and Incentives in a Treatment-Effects Model” with P.K. Trivedi, formerly “What Drives Differences in Health Care Demand? The Role of Health Insurance and Selection Bias” HEDG Working Papers 12 (09).

RESEARCH GRANT SUPPORT

ACTIVE

1R21MH115253-01

12/01/2017 – 11/30/2019

NIH/NIMH

\$371,183

Role: Principal Investigator

Insurance Coverage Effects on Access to Mental Health Services and Outcomes

This study will investigate how removing a significant barrier to health care, lack of health insurance, affects mental health outcomes for the populations targeted by recent public and commercial insurance expansions. The proposed research will also gain insight into how obtaining health insurance affects mental health, including changes in access to services and potential changes in household spending.

1R03DEO272-01A1 NIH/NIDCR Role: Principal Investigator National Expansion of Dental Insurance Among Young Adults: A Natural Experiment This study will evaluate the effects of a national expansion of private dental insurance among young adults on utilization of preventive and curative dental services as well as effects on dental spending. The study will also assess how other factors modify this impact in order to provide a comprehensive analysis that may serve as groundwork to inform future policies affecting dental insurance.	09/01/2016 – 02/28/2018 \$228,750
MED-15-004 (PI: Peter Damiano) NIH Role: Co-I Iowa Health and Wellness Plan (IHAWP) Evaluation This project will evaluate two programs in the Iowa Health and Wellness Plan (IHAWP). On January 1, 2014 Iowa implemented the Iowa Health and Wellness Plan (IHAWP), an 1115 Medicaid demonstration. IHAWP replaces the IowaCare program with plans that offer more covered services and a broader provider network, and expanded coverage to other eligible low-income adults in Iowa who were not previously enrolled in IowaCare through two new programs: the Marketplace Choice and the Wellness Plan	07/01/2014 – 12/31/2018 \$5,791,585
MED-17-011 (PI: Peter Damiano) DHHS/CMS Role: Co-I Iowa's State Innovation Models (SIM) To conduct robust evaluations that demonstrate the effectiveness of the Iowa multi-payer value-based purchasing model based on the specific needs within Iowa's State Innovation Models (SIM) Cooperative Agreement with CMS.	10/01/2015 – 01/31/2019 \$1,104,820
1U1CRH29074-01 (PI: Marcia Ward) HRSA Role: Co-I Telehealth Focused Rural Health Research Center Cooperative Agreement The goal of this project will be to conduct and disseminate research on rural telehealth that contributes to building a high performance system in rural America.	09/01/2015 – 08/31/2019 \$1,500,000
MED-17-011 (PI: Peter Damiano) DHHS/CMS Role: Co-I Evaluations for the Medicaid Health Home and Integrated Health Home Programs This study evaluates the state of Iowa's efforts to implement health home programs as part of the Medicaid program and for an at-risk population that suffers from mental health issues.	07/01/2016 – 06/30/2019 \$254,924
<u>COMPLETED</u>	
1RH227868-03-01-UI (PI: Marcia Ward) HRSA Role: Co-I Avera EB TNGP Evaluation Rural Tele-Health Research Center will serve as a research partner with Avera eCARE to facilitate several research projects related to Avera's tele-emergency services.	10/15/2016 – 08/31/2017 \$288,759

R18HS021422-02 (PI: Victoria Steelman)	09/30/2013 – 09/29/2016
AHRQ	\$346,041
Role: Co-I	
Implementing Safe Practices for Prevention of Perioperative Hypothermia	
Most of the patients undergoing the 45 million surgical procedures in the US each year will experience perioperative hypothermia unless effective safe practices are used. Mild hypothermia triples the risk of surgical site infection, quadruples the risk of morbid cardiac events, and increases blood loss. The objective in this study is to evaluate the effect of the Prevention of Perioperative Hypothermia (PPH) Safety Toolkit on adherence to safe practices for prevention of perioperative hypothermia and selected outcomes (e.g. rates of hypothermia, cost).	
U1 CRH20419-04 (PI: Keith Mueller)	06/01/2010 – 08/31/2016
HRSA	\$3,132,494
Role: Co-I	
Rural Health Research Grant Program Cooperative Agreement	
The RUPRI Center for Rural Health Policy Analysis at the University of Iowa will complete projects within this topic of concentration: The effects of payment and other policies on health care organizations and health plans in rural places. The Center will continue to use the framework of the continuum of care when assessing how essential services are sustained locally and linked to services across the entire continuum, whether those services are local, regional, or national.	
PI: Nick Mohr	07/01/2014 – 06/30/2015
Children's Miracle Network	\$49,993
Role: Co-I	
Pediatric Inter-Hospital Transfer Practices: Outcomes and Costs	
The goal of this project is to describe the role of inter-hospital transfer among children in rural Iowa to (1) describe the prevalence and costs associated with inter-hospital transfer and (2) identify a cohort of children with demographic and care-associated factors that place them at high risk of being discharged from receiving hospitals without medical procedures or admission.	
UI College of Public Health	03/20/2013 – 12/20/2014
Temporary Disruptions in Health Insurance	\$10,000
Role: Principal Investigator	
This project will investigate the impact of temporary gaps in health insurance coverage on emergency department utilization. We will examine whether temporary disruptions result in differing patterns of emergency department utilization as compared to continuously uninsured individuals and continuously insured individuals. We also classify emergency department contacts into emergency and non-emergency visits to further characterize the effect of temporary versus continuous lack of health insurance coverage.	
MED-13-014 (PI: Peter Damiano)	03/20/2013 – 12/20/2014
Iowa Department of Human Services	\$298,708
Adult Medicaid Quality	
Test and evaluate methods for collection and reporting the Initial Core Set Measures. Report and use the data for monitoring and improving access and the quality of care in Medicaid	
5883HBE05 (PI: Peter Damiano)	09/01/2012 – 10/31/2013
Iowa Department of Public Health	\$70,000
Role: Co-I	
Iowa Health Benefit Exchange Consumer and Business Research Survey	

Develop survey questions targeted at Iowa consumers and small business to gather comprehensive data on a variety of concepts of the Health Benefit Exchange. Ensure adequate engagement of key stakeholder groups in Iowa representing consumers and small businesses to disseminate the survey.

AWARDS, & HONORS

- Dec 2013 New Faculty Investigator Award/Grant 2013-2014 College of Public Health New Investigator Research Award
- Apr 2011 Philip Saunders Outstanding Introductory Associate Instructor Award
- May 2007 Graduate Fellowship Award 2007-2008 Graduate Fellowship Award, Department of Economics, Indiana University

CONFERENCE / SEMINAR PARTICIPATION

- 2018 American Society of Health Economists, 7th Biennial Conference, Atlanta, GA
- 2017 Midwest Health Economics Conference, Minneapolis, MN
- 2016 American Society of Health Economists, 6th Biennial Conference, Philadelphia, PA
- 2015 Academy Health, Annual Research Meeting, Minneapolis, MN
DePaul University, Health Economics Symposium, Chicago, IL
Midwest Health Economics Conference, Iowa City, IA
- 2014 College of Nursing Research Forum, Iowa City, IA
Midwest Health Economics Conference, Champaign, IL
Academy Health, Annual Research Meeting, San Diego, CA
American Society of Health Economists, 5th Biennial Conference, Los Angeles, CA
- 2013 Academy Health, Annual Research Meeting, Baltimore, MD
- 2012 American Society of Health Economists, 4rd Biennial Conference, Minn., MN
- 2011 Bradley University, Visiting Economist Series, Peoria, IL
Applied Econometrics Seminar, Indiana University, Bloomington, IN
iHEA, 8th World Health Congress, Toronto, Canada
Academy Health, Annual Research Meeting, Seattle, WA
- 2010 Jordan River Economics Conference, Indiana University, Bloomington, IN

OTHER PROFESSIONAL ACTIVITIES

Member: American Economic Association, Academy Health, American Society of Health Economists

Scientific Review Committee: American Society of Health Economists Conference (2016, 2018)

Referee: *American Journal of Health Economics, Health Economics, BMC Health Services Research, Journal of Health Economics, Journal of Rural Health, Journal of Policy Analysis and Management, Medical Care, Medical Care Research and Review, INQUIRY*

STUDENT ADVISING/MENTORING

PHD Students

Wei Lyu, Health Management and Policy, Mentorship Committee, 2015-present
Haobing Qian, Health Management and Policy, Mentorship Committee, 2016-present
Yan Zhang, Epidemiology, Comprehensive Exam Committee Member, 2016
George Pro, Community and Behavioral Health, Dissertation Committee Member/Comprehensive Exam Committee Member, 2016-present
Aparna Ingleshwar, Dental Public Health, Dissertation Committee Member, 2016-present
Youn Soo Jung, Economics, Dissertation Committee Member, 2017
Paula Ortega Verdugo, Dental Public Health, External Advisor, 2016-present

TEACHING ACTIVITIES

University of Iowa, Department of Health Management and Policy

Primary Instructor

CPH3220 Public Health as a Public Good, Fall 2018
HMP5320 Analytics for Health Care Management, Spring 2018, 2017, 2016, 2015, 2014
HMP5320 Analytics for Health Care Management (Executive MHA), Spring 2018, 2017, 2016, 2015
HMP7550 Cost Effectiveness and Decision Analysis, Fall 2017, 2016, 2015, 2014, Spring 2013

University of Iowa, Department of Preventive and Community Dentistry

Instructor

DPH5014 Dental Care Policy and Financing, Spring 2018, 2016, 2014

Indiana University, Department of Economics

Primary Instructor

ECON 308 Public Finance: Spring 2011, Fall 2011
ECON 202 Principles of Macroeconomics: Fall 2010, Summer 2011
ECON 201 Principles of Microeconomics: Summer 2008, Fall 2009, Summer 2010

Teaching Assistant

ECON 201 Principles of Microeconomics: Spring 2009, Spring 2010
ECON 321 Intermediate Microeconomics: Fall 2008

UNIVERSITY AND DEPARTMENTAL SERVICE ACTIVITIES

Jul 2018 – Present	Faculty Council, College of Public Health
Aug 2017 – Present	Undergraduate Program Committee, College of Public Health
Jul 2012 – Present	Masters in Health Administration Quality Improvement Committee
Jan 2013 – Present	Analytical Curriculum Subcommittee, MHA QIC, EMHA QIC
May 2013 – Present	Business Leadership Network, College of Public Health
Jan 2015 – Dec 2015	Biostatistics DEO Search Committee