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Department of Epidemiology and Health Services Research
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EDUCATION

PhD 2002 – 2008 Cornell University, Ithaca, NY.
Policy Analysis and Management
Concentration: Health Economics & Health Policy

BA 1996 – 2000 Stanford University, Stanford, CA.
Economics

RESEARCH EXPERIENCE

Assistant Professor Department of Epidemiology and Health Services Research
Geisinger
Danville, PA 08/16 – present

Research Investigator I Geisinger Center for Health Research
Geisinger
Danville, PA 08/10 – 07/16

Post-doctoral Scholar Center for Health Care and Policy Research
The Pennsylvania State University
University Park, PA 08/07 – 08/10

Research Analyst Analysis Group/Economics
Menlo Park, CA 08/00 – 12/01

PEER REVIEW PUBLICATIONS

1. **Maeng D.D.**, Geng Z., Marshall W.M., Hess A.L., Tomcavage J.F. An Analysis of a Biometric Screening and Premium Incentive-Based Employee Wellness Program: Enrollment Patterns, Cost, and Outcome. Forthcoming in Population Health Management.
2. **Maeng D.D.**, Han J.J., Fitzpatrick M.H., Boscarino J.A. Patterns of Health Care Utilization and Cost before and after Opioid Overdose: Findings from 10-Year Longitudinal Health Plan Claims Data. *Subst Abuse Rehabil.* 2017;8:57-67.
3. Hao J., **Maeng D.D.**, Yan X., Stewart W.F., Boscarino J.A. Assessing Healthcare Utilization and Cost of Care among Rheumatoid Arthritis Patients: A Comparison of Electronic Medical Records and Claims Data. *J Health Care Finance.* 2017;43(4).

4. **Maeng D.D.**, Graboski A., Allison P.L., Fisher D.Y., Bulger J.B. Impact of a Value-Based Insurance Design for Physical Therapy to Treat Back Pain on Care Utilization and Cost. *J Pain Res.* 2017;10:1337-46.
5. **Maeng D.D.**, Rohrer G.R., Pitcavage J.M., Bulger J.B. Value of Physician Performance in Diabetes System of Care among the Elderly Medicare Patients: Implications for Pay-for-Performance. *J Health Care Finance.* 2017;43(3).
6. **Maeng D.D.**, Snyder S.R., Davis T.W., Tomcavage J.F. Impact of a Complex Care Management Model on Cost and Utilization among Adolescents and Young Adults with Special Care and Health Needs. *Popul Health Manag.* 2017 Mar 24. [Epub ahead of print]
7. Sinaiko A.D., Landrum M.B., Meyers D.J., Alidina S., **Maeng D.D.**, Friedberg M.W., Kern L.M., Edwards A.M., Flieger S.P., Houck P.R., Peele P., Reid R.J., McGraves-Lloyd K., Finison K., Rosenthal M.B. Synthesis of Research on Patient-Centered Medical Homes Brings Systematic Differences into Relief. *Health Aff (Millwood).* 2017;36(3):500-8.
8. **Maeng D.D.**, Tom L.A., Wright E.A. Patient Characteristics and Healthcare Utilization Patterns Associated with Unused Medications among Medicare Patients. *Res Social Adm Pharm.* 2016 Nov 9. [Epub ahead of print]
9. **Maeng D.D.**, Hao J., Bulger J.B. Patterns of Multiple Emergency Department Visits: Do Primary Care Physicians Matter? *Perm J.* 2017;21. Epub 2017 Mar 15.
10. Ofoma U.R., Dahdah J., Kethireddy S., **Maeng D.**, Walkey A.J. Case Volume-Outcomes Associations among Patients with Severe Sepsis Who Underwent Interhospital Transfer. *Crit Care Med.* 2017;45(4):615-22.
11. **Maeng D.D.**, Sciandra J.P, Tomcavage J.F. The Impact of a Regional Patient-Centered Medical Home Initiative on Cost of Care among Commercially Insured Population in the United States. *Risk Manag Healthc Policy.* 2016 May 26;9:67-74.
12. **Maeng D.D.**, Snyder R.C., Medico C.J., Mold W.M., Maneval J.E. Unused Medications and Disposal Patterns at Home: Findings from a Medicare Patient Survey and Claims Data. *J Am Pharm Assoc (2003).* 2016;56(1):41-6 e6.
13. **Maeng D.D.**, Yan X., Graf T.R., Steele Jr G.D. Value of Primary Care Diabetes Management: Long-Term Cost Impacts. *Am J Manag Care.* 2016;22(3):e88-e94.
14. **Maeng D.D.**, Pitcavage J.M., Snyder S.R., Davis D.E. The Value of Value-Based Insurance Design: Savings from Eliminating Drug Co-Payments. *Am J Manag Care.* 2016;22(2):116-21.
15. **Maeng D.D.**, Fisher D.Y., Graboski A., Allison P.L., Rodriguez J.M., Starr A.E., Tomcavage J.F., Davis D.E. Impact of a Value-Based Insurance Design for Back Pain on Health Plan Member Satisfaction and Its Implications for Patient Outcomes. *Popul Health Manag.* 2015;18(3):203-8.

16. **Maeng D.D.**, Snyder S.R., Baumgart C., Minnich A.L., Tomcavage J.F., Graf T.R. Medicaid Managed Care in an Integrated Health Care Delivery System: Lessons from Geisinger's Early Experience. *Popul Health Manag.* 2015.
17. Stewart W.F., Yan X., Boscarino J.A., **Maeng D.D.**, Mardekian J., Sanchez R.J., Von Korff M.R. Patterns of Health Care Utilization for Low Back Pain. *J Pain Res.* 2015;8:523-35.
18. **Maeng D.D.**, Khan N., Tomcavage J., Graf T.R., Davis D.E., Steele G.D. Reduced Acute Inpatient Care Was Largest Savings Component of Geisinger Health System's Patient-Centered Medical Home. *Health Aff (Millwood).* 2015;34(4):636-44.
19. **Maeng D.D.**, Stewart W.F., Yan X., Boscarino J.A., Mardekian J., Harnett J., Von Korff M.R. Use of Electronic Health Records for Early Detection of High-Cost, Low Back Pain Patients. *Pain Res Manag.* 2015;20(5):234-40.
20. **Maeng D.D.**, Starr A.E., Tomcavage J.F., Sciandra J., Salek D., Griffith D. Can Telemonitoring Reduce Hospitalization and Cost of Care? A Health Plan's Experience in Managing Patients with Heart Failure. *Popul Health Manag.* 2014;17(6):340-4.
21. Bock J.A., Fairley K.J., Smith R.E., **Maeng D.D.**, Pitcavage J.M., Inverso N.A., Williams M.S. Cost-Effectiveness of H2beta Genotype-Guided Protease Inhibitor Triple Therapy Versus Standard of Care Treatment in Patients with Hepatitis C Genotypes 2 or 3 Infection. *Public Health Genomics.* 2014;17(5-6):306-19.
22. Jubelt L.E., Graham J., **Maeng D.D.**, Li H., Epstein A.J., Metlay J.P. Patient Ratings of Case Managers in a Medical Home: Associations with Patient Satisfaction and Health Care Utilization. *Ann Intern Med.* 2014;161(10 Suppl):S59-65.
23. Christianson J., **Maeng D.**, Abraham J., Scanlon D.P., Alexander J., Mittler J., Finch M. What Influences the Awareness of Physician Quality Information? Implications for Medicare. *Medicare Medicaid Res Rev.* 2014;4(2).
24. **Maeng D.D.**, Pitcavage J.M., Tomcavage J., Steinhubl S.R. Can Health Insurance Improve Employee Health Outcome and Reduce Cost? An Evaluation of Geisinger's Employee Health and Wellness Program. *J Occup Environ Med.* 2013;55(11):1271-5.
25. **Maeng D.D.**, Davis D.E., Tomcavage J., Graf T.R., Procopio K.M. Improving Patient Experience by Transforming Primary Care: Evidence from Geisinger's Patient-Centered Medical Homes. *Popul Health Manag.* 2013;16(3):157-63.
26. Alexander J.A., **Maeng D.**, Casalino L.P., Rittenhouse D. Use of Care Management Practices in Small- and Medium-Sized Physician Groups: Do Public Reporting of Physician Quality and Financial Incentives Matter? *Health Serv Res.* 2013;48(2 Pt 1):376-97.
27. **Maeng D.D.**, Graf T.R., Davis D.E., Tomcavage J., Bloom F.J., Jr. Can a Patient-Centered Medical Home Lead to Better Patient Outcomes? The Quality Implications of Geisinger's Provenhealth Navigator. *Am J Med Qual.* 2012;27(3):210-6.

28. **Maeng D.D.**, Martsof G.R., Scanlon D.P., Christianson J.B. Care Coordination for the Chronically Ill: Understanding the Patient's Perspective. *Health Serv Res.* 2012;47(5):1960-79.
29. **Maeng D.D.**, Graham J., Graf T.R., Liberman J.N., Dermes N.B., Tomcavage J., Davis D.E., Bloom F.J., Steele G.D., Jr. Reducing Long-Term Cost by Transforming Primary Care: Evidence from Geisinger's Medical Home Model. *Am J Manag Care.* 2012;18(3):149-55.
30. **Maeng D.D.**, Martsof G.R. Comparing Patient Outcomes across Payer Types: Implications for Using Hospital Discharge Records to Assess Quality. *Health Serv Res.* 2011;46(6pt1):1720-40.
31. **Maeng D.D.**, Scanlon D.P., Chernew M.E., Gronniger T., Wodchis W.P., McLaughlin C.G. The Relationship between Health Plan Performance Measures and Physician Network Overlap: Implications for Measuring Plan Quality. *Health Serv Res.* 2010;45(4):1005-23.
32. Hurley R.E., Keenan P.S., Martsof G.R., **Maeng D.D.**, Scanlon D.P. Early Experiences with Consumer Engagement Initiatives to Improve Chronic Care. *Health Aff (Millwood).* 2009;28(1):277-83.

REPORTS & OTHER ARTICLES

Owen R., **Maeng D.D.** Indications of Pent-up Demand: New ACA Enrollee Use of Preference-sensitive Services. Society of Actuaries Research Report. April 2015.

CONFERENCE PRESENTATIONS

Maeng D.D., Graham J., Bogart M., Hao J., Wright E.A. "Impact of a Pharmacist-lead Diabetes Management Program on Outcomes, Utilization, and Cost of Care". 2017 American Diabetes Association 77th Scientific Session. San Diego, CA 6/11 (poster)

Maeng D.D., Geng Z. "Impact of a Biometric Screening and Premium Incentive-Based Employee Wellness Program on Cost of Care and Utilization." 2017 Health Care Systems Research Network (HCSRN) Conference. San Diego, CA 3/21 (poster)

Maeng D.D., Rohrer G.R., Pitcavage J.M., Bulger J.B. "Value of Physician Performance in Diabetes System of Care among the elderly Medicare Patients: Implications for Pay-for-Performance." 2017 Health Care Systems Research Network (HCSRN) Conference. San Diego, CA 3/21 (poster)

Geng Z., **Maeng D.D.** "Impact of Employee Wellness Program on Health Outcome: A Propensity Score Matched Analysis." 2017 Health Care Systems Research Network (HCSRN) Conference. San Diego, CA 3/22 (poster)

Geng Z., **Maeng, D.D.** "Factors Associated with Participations and Goals Achievement in an Employee Wellness Program Offering Biometric Screenings and Premium Discounts." 2017 Health Care Systems Research Network (HCSRN) Conference. San Diego, CA 3/21 (poster)

Diehl D.L., Hao J., Snyder S., **Maeng D.**, Geng Z., Ravindran N. Kovach A. "Endoscopic Ultrasound and Endoscopic Retrograde Cholangiopancreatography on the Same Patient: A Comparative Cost Analysis of Tandem and Separate Procedures." 2016 American College of Gastroenterology Annual Scientific Meeting. Las Vegas, NV 10/18 (poster)

Pitcavage J.M., Feng W., **Maeng D.D.** Analysis of an integrated diabetes care program and impact on health outcomes and utilization. 2016 Health Care Systems Research Network (HCSRN) Conference. Atlanta, GA 4/17 (poster)

Maeng D.D., Snyder S.R., and Davis T.W. "Impact of a Medically Complex Patient Care Model on Cost and Utilization among Adolescents and Young Adults with Special Health Care Needs." 2016 Health Care Systems Research Network (HCSRN) Conference. Atlanta, GA 4/16 (oral)

Maeng D.D., Hao J., and Bulger J.B. "Patterns of Multiple Emergency Department Visits: a Discretionary Care Seeking Behavior?" 2016 Health Care Systems Research Network (HCSRN) Conference. Atlanta, GA 4/16 (poster)

Ofoma U., Dahdah J., **Maeng D.**, and Walkey A. Case Volume and Mortality among Patients with Severe Sepsis Who Underwent Inter-hospital Transfer. Society of Critical Care Medicine 45th Critical Care Congress, Orlando FL. 02/16 (oral)

Maeng D.D., Snyder R.C., Medico C.J., Mold W.M., and Maneval J.E. "Identifying Unused Medications and Disposal Patterns at Home: Findings from a Medicare Patient Survey and Claims Data." Academy of Managed Care Pharmacy 2015 Annual Meeting & Expo, San Diego, CA 4/15 (poster)

Maeng D.D., Yan X., Graf T.R., and Steele, G.D. "Value of Primary Care Diabetes Bundle Management: Long-term Impact on Cost." 21st Annual HMO Research Network Conference, Long Beach, CA 03/15 (oral)

Pitcavage, J.M., **Maeng D.D.**, and Snyder S.R. "Prescription Drug Use and Low Income Subsidy: Socio-Economic Factors Associated with 30-day Hospital Readmission." AcademyHealth Annual Research Meeting, San Diego, CA 06/14 (poster)

Maeng D.D., and Khan N. "Where Do Savings Come From? Deconstructing Geisinger's Medical Home Impact on Cost of Care." 20th Annual HMO Research Network Conference, Phoenix, AZ 04/14 (poster)

Maeng D.D., Steigerwalt N.M., Boscarino J.A., Yan X.S., and Stewart W.F. "A Comparison of Electronic Health Records vs. Claims Data for Rheumatoid Arthritis Patients in a Large Healthcare System: An Exploratory Analysis." 20th Annual HMO Research Network Conference, Phoenix, AZ 04/14 (poster)

Maeng D.D., Snyder S.R., Nolan R., Forster K., Henry Y., and Berger P.B. "Economic Impact of an Evidence-Based Standardized Perinatal Care and Practice Measurement Process: Evidence from a U.S. Integrated Healthcare Delivery System." 20th Annual HMO Research Network Conference, Phoenix, AZ 04/14 (oral)

Maeng, D.D., "ProvenHealth Navigator®: Patient-Centered Medical Home." Bending the Curve: Innovative Approaches to Controlling Health Care Costs. Bucknell University, PA. 11/13 (oral)

Maeng D.D., Pitcavage J.M., Tomcavage J., and Steinhubl S.R. "Can Health Insurance Improve Employee Health Outcome and Reduce Cost? An Evaluation of Geisinger's Employee Health and Wellness Program" 19th Annual HMO Research Network Conference, San Francisco, CA 04/13 (poster)

Maeng D.D., Graham J, Graf T.R., Liberman J.N., Dermes N.B., Tomcavage J., Davis D.E., Bloom F.J., and Steele G.D. “Reducing Cost by Transforming Primary Care: Evidence from Geisinger's Medical Home Model.” AcademyHealth Annual Research Meeting, Orland, FL 06/12 (oral)

Maeng D.D., Martsof G., and Scanlon D.P., “Care Coordination for the Chronically Ill: Assessing the Problem from Patients’ Perspective.” AcademyHealth Annual Research Meeting, Seattle, WA 06/11 (poster)

Maeng D.D., and Martsof G., “Do Hospitals Treat Patients Differently by Their Payer Type? An Analysis of the Association between Payer Types and Major Surgery Complication Rates.” 3rd Biennial Conference of the American Society of Health Economists 7/10 (oral)

Maeng D.D., Lee W., and Martsof G., “The Value of Medicare Advantage in Rural and Urban Markets after the Medicare Modernization Act of 2003.” Association for Public Policy Analysis and Management 31st Annual Research Conference. 11/09 (poster)

Maeng D.D., Christianson J.B., Abraham J.M., Scanlon, D.P., Alexander J., Mittler J., and Hasnain-Wynia R., “Determinants of Awareness and Use of Public Reporting among the Chronically Ill Individuals.” Association for Public Policy Analysis and Management 31st Annual Research Conference. 11/09 (oral)

Maeng D.D., Scanlon D.P., Gronniger T., Wodchis W.P., McLaughlin C.G., and Chernew M.E., “Health Plan Performance Measures and Provider Network Overlap.” 2nd Biennial Conference of the American Society of Health Economists, Durham, North Carolina, 06/08 (oral)

Scanlon D.P., Christianson J.B., and **Maeng D.D.**, “Consumer Engagement and Consumer Choice in Patients with Chronic Conditions: Findings from the Aligning Forces for Quality (AF4Q) Consumer Survey.” AcademyHealth Annual Research Meeting, Washington D.C., 06/08 (poster)

HONORS & RECOGNITION

2016 Health Care Systems Research Network (HCSRN) Conference Paper of the Year Award: Impact of a Medically Complex Patient Care Model on Cost and Utilization among Adolescents and Young Adults with Special Health Care Needs (with Susan S. Snyder and Thomas W. Davis), 04/16

Star Research Achievement Award, 45th Critical Care Congress, Society of Critical Care Medicine: Case Volume and Mortality among Patients with Severe Sepsis Who Underwent Interhospital Transfer (with Uchenna Ofoma, John Dahdah, and Allan Walkey), 02/16

GRANTS & AWARDS

Real-world Outcomes, Medication Adherence, and Cost among Patients with Multiple Sclerosis using Disease Modifying Therapies (Co-Investigator: funded by AbbVie): 06/01/2017 through 05/31/2018 (Total Funding Amount: \$246,985)

Impact of Pharmacist-Led Management of Diabetes Mellitus on Patient Outcomes and Cost of Care (Principal-Investigator: funded by GlaxoSmithKline): 7/1/2015 through 12/31/2016 (Total Funding Amount: \$187,000)

Assessment of Medication Adherence, Glycemic Control and Healthcare Utilization among Patients with Type 2 Diabetes Mellitus (Co-Investigator: funded by Intarcia Therapeutics, Inc.): 1/2015-12/2015 (Total Funding Amount: \$199,000)

Geisinger Treatment at Home Option Program – An alternative to inpatient care (Co-PI: funded by West Health Institute): 8/1/2015 through 2/28/2017 (Total Funding Amount: \$500,000)

Effect of Community Pharmacist Consultative Services and Virtual Connectivity between Inpatient and Community Pharmacists on Readmissions and Medication Adherence among a High-risk Patient Population (Co-Investigator: funded by National Association of Chain Drug Stores): 10/2014 – 12/2016 (Total Funding Amount: \$600,000).

Patterns of Unused Medication Disposal Practices among Geisinger’s Patient Population (Principal Investigator: funded by Charles B. Degenstein Foundation and the Foundation for Pennsylvania Watersheds): 1/2014 through 5/2014 (Total Funding Amount: \$12,000).

Study of Claims Based Algorithm in an EHR Environment and an Examination for Clinical and Cost Effectiveness of Rheumatoid Arthritis Medications Using Geisinger Data (Co-Investigator: funded by Amgen): 5/2013 through 1/31/2014 (Total Funding Amount: \$250,000)

Predicting High Cost Low Back Pain Patients in Primary Care (Site Principal-Investigator; funded by Pfizer): 1/2012 through 12/2013 (Total Funding Amount: \$1,250,000)

Burden of Exacerbations among Patients Taking Current COPD Maintenance Medications (Co-Investigator; funded by Forest Research Institute, Inc.): 9/2012 through 6/2013 (Total Funding Amount: \$260,000)

Longitudinal Changes in Rheumatoid Arthritis (RA), Health Care Costs and Disease Progression (Co-Investigator; funded by Janssen Scientific Affairs, LLC): 12/2011 through 9/2013 (Total Funding Amount: \$325,000)

TEACHING EXPERIENCE

Section Instructor, Research Methods Curriculum (Geisinger)	2011 – 2014
Guest Lecturer, Non-linear Estimation Methods (Penn State)	2007 – 2011
Guest Lecturer, STATA Workshop (Penn State)	Spring 2009
Teaching Assistant, Intermediate Microeconomics (undergraduate)	2006 – 2007
Teaching Assistant, Economics of Health Policy (undergraduate)	Spring 2006
Teaching Assistant, Risk Management and Policy (undergraduate)	Spring 2004
Teaching Assistant, Health Policy (graduate)	Fall 2003

EDITORIAL EXPERIENCE

Inquiry	Editorial Board
Clinical Nursing Studies	Editorial Board
The Patient Experience Journal	Editorial Board

COMMITTEE SERVICE

Geisinger Health Plan Technology Assessment Committee	Voting Member
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