

## Kristen Hassmiller (Lich)

### PERSONAL

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Department of Health Policy and Management  
Gillings School of Global Public Health  
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### EDUCATION

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**Doctor of Philosophy, Health Services Organization and Policy, April 2007,**

Department of Health Management and Policy, School of Public Health, University of Michigan.  
Dissertation: “The Impact of Smoking on Population-Level Tuberculosis Outcomes and Policy Implications.” Advisors: Kenneth Warner and David Mendez.

**Master of Health Services Administration, April 2000,**

Department of Health Management and Policy, School of Public Health, University of Michigan.

**Bachelor of Science, Summa cum Laude, Psychology and Gerontology, December 1996,**

University of Akron.

### PROFESSIONAL EXPERIENCE

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- 2/24/2017- present Assistant Professor, Dept of Health Policy and Management,  
Gillings School of Global Public Health,  
University of North Carolina at Chapel Hill
- 12/1/2012-2/23/2017 Research Assistant Professor, Dept of Health Policy and Management,  
Gillings School of Global Public Health,  
University of North Carolina at Chapel Hill
- 1/1/2007-11/30/2012 Assistant Professor (Tenure Track), Dept of Health Policy and Management,  
Gillings School of Global Public Health,  
University of North Carolina at Chapel Hill
- 7/1/2006-12/31/2006 Instructor with special provisions, Dept of Health Policy and Management,  
Gillings School of Global Public Health,  
University of North Carolina at Chapel Hill
- 5/1/2003-4/30/2004 Research Assistant (Coordinator for On-Job/On-Campus Distance Learning)  
Department of Health Management and Policy, School of Public Health  
University of Michigan
- 9/1/2000-8/31/2002 Research Assistant (University of Michigan Tobacco Research Network)  
Department of Health Management and Policy, School of Public Health  
University of Michigan
- 5/1/2000-8/31/2000 Research Assistant (Supported research of Robert Wood Johnson Scholars)  
Department of Health Management and Policy, School of Public Health  
University of Michigan

## HONORS AND AWARDS

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**Robert H. DuRant Award for Statistical Rigor and Innovation in Adolescent Health Research**  
*Society for Adolescent Health and Medicine* for “The impact of acute relationship insults on trust and pro-relationship behavior within adolescent romantic relationships: A systems approach,” 2017.

### **Inaugural 2015 Systems Science Scholarship**

AcademyHealth, 2015-2016.

### **Rackham Predoctoral Fellowship**

University of Michigan, 2004-2005.

### **Agency for Healthcare Research and Quality Traineeship**

University of Michigan, 2000-2001.

### **Oakwood Health System Scholarship (covered full tuition and expenses through MHA degree)**

University of Michigan, 1998-2000.

## MEMBERSHIPS

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2013-present National Maternal and Child Health Workforce Development Center Systems  
Integration Core Lead

2008-present American Public Health Association (APHA), Member

## PUBLICATIONS

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NOTE: Student/post-doctoral trainees *italicized*.

### **Books and Chapters**

1. **K Hassmiller Lich**, K Minyard, R Niles, G Dave, *E Gillen* (2014). System Dynamics and Community Health. In: JG Burke, S Albert, editors. Methods for Community Public Health Research: Integrated and Engaged Approaches. New York, NY: Springer Publishing Company. Pages 129-170.
2. JB Urban, ND Osgood, J Okamoto, P Mabry **K Hassmiller Lich** (2014). Developmental Systems Science: Extending Developmental Science with Systems Science Methodologies. In: P Molenaar, R Lerner, K Newell, editors. Handbook of Developmental Systems Theory and Methodology. New York, NY: The Guilford Press. Pages 95-130.

### **Refereed Articles**

1. *E La*, JP Morrissey, **K Hassmiller Lich**, ME Domino, J Seibert, A Waller. “Impact of State Psychiatric Hospital Waitlists on Monthly Admissions.” *Psychiatric Services*. 2017; in press, approximately 5 pages.
2. *Z Yi*, ME Mayorga, **K Hassmiller Lich**, JL Pearson, “Changes in cigarette smoking initiation, cessation, and relapse among U.S. adults: a comparison of two longitudinal samples.” *Tobacco Induced Diseases*. 2017; in press, approximately 10 pages.
3. *L Frerichs*, **K Hassmiller Lich**, *TL Young*, G Dave, T Stith, G Corbie-Smith. “Development of a systems science curriculum to engage rural African American teens in understanding and addressing childhood obesity prevention.” *Health Education and Behavior*. 2017; in press, approximately 10 pages.

4. **K Hassmiller Lich**, DA Cornejo, ME Mayorga, M Pignone, FKL Tangka, LC Richardson, TM Kuo, AM Meyer, IJ Hall, JL Smith, TA Durham, SA Chall, TM Crutchfield, SB Wheeler. “Cost-Effectiveness Analysis of Four Simulated Colorectal Cancer Screening Interventions, North Carolina.” *Preventing Chronic Disease*. 2017; in press, approximately 8 pages.
5. SB Wheeler, TM Kuo, AM Meyer, CE Martens, **K Hassmiller Lich**, FK Tangka, LC Richardson, IJ Hall, JL Smith, ME Mayorga, P Brown, TM Crutchfield, MP Pignone. “Multilevel Predictors of Colorectal Cancer Testing Modality among Publicly and Privately Insured People Turning 50.” *Preventive Medicine Reports*. 2017; in press, approximately 10 pages.
6. **K Hassmiller Lich**, J Brown Urban, L Frerichs, G Dave. “Extending Systems Thinking in Planning and Evaluation using Group Concept Mapping and System Dynamics to Tackle Complex Problems.” *Evaluation and Program Planning*. 2016; in press, 11 pages.
7. L Frerichs, **K Hassmiller Lich**, M Funchess, M Burrell, C Cerulli, P Bidell, AM White. “Applying Critical Race Theory to Group Model-Building Methods to Address Community Violence.” *Progress in Community Health Partnerships*. 2016; in press, approximately 10 pages.
8. L Frerichs, M Kim, G Dave, A Cheney, **K Hassmiller Lich**, J Jones, T Young, C Wiley Cene, D Varma, J Schaal, A Black, C Striley, S Vassar, G Sullivan, L Cottler, A Brown, J Burke, G Corbie-Smith. “Stakeholder Perspectives on Creating and Maintaining Trust in Community-Academic Research Partnerships.” *Health Education and Behavior*. 2016; in press, 10 pages. doi: 10.1177/1090198116648291.
9. E Gillen, **K Hassmiller Lich**, L Trantham, M Weinberger, P Silberman, M Holmes. “The Effect of Narrow Network Plans on Out-of-Pocket Cost.” *The American Journal of Managed Care*. 2016; in press, approximately 8 pages.
10. E Gillen, **K Hassmiller Lich**, L Trantham, P Silberman, M Weinberger, M Holmes. “Plan Selection in the Non-Group Market in the First Year of the health Insurance Marketplace.” *North Carolina Medical Journal*. 2016; in press, approximately 8 pages.
11. SC Hang, **K Hassmiller Lich**, KJ Kelly, DM Howell, MJ Steiner. “Patient- and Visit-Level Variables Associated with Late Arrival to Pediatric Clinic Appointments.” *Clinical Pediatrics*. 2016; in press, 6 pages.
12. **K Hassmiller Lich**, L Frerichs, D Fishbein, G Bobashev, M Pentz. “Translating Research into Prevention of High-Risk Behaviors in the Presence of Complex Systems: Definitions and Systems Frameworks.” *Translational Behavioral Medicine*. 2016;6(1):17-31. doi: 10.1007/s13142-016-0390-z.
13. Y Tian, **K Hassmiller Lich**, ND Osgood, K Eom, DB Matchar. “Linked Sensitivity Analysis, Calibration, and Uncertainty Analysis Using a System Dynamics Model for Stroke Comparative Effectiveness Research.” *Medical Decision Making*. 2016;36(8):1043-57. doi: 10.1177/0272989X16643940.
14. L Frerichs, **K Hassmiller Lich**, G Dave, G Corbie-Smith. “Integrating Systems Science and Community-Based Participatory Research to Achieve Health Equity.” *American Journal of Public Health*. 2016;106(2):215-22. doi: 10.2105/AJPH.2015.302944.

15. SMI Kneipp, J Leeman, P McCall, **K Hassmiller Lich**, G Bobashev, TA Schwartz, R Gilmore, S Riggan, B Gil. "Synthesizing Marketing, Community Engagement, and Systems Science Approaches for Advancing Translational Research." *ANS Adv Nurs Sci*. 2015;38(3):227-40.
16. *E La*, **K Hassmiller Lich**, R Wells, AR Ellis, MS Swartz, *R Zhu*, JP Morrissey. "Increasing Access to State Psychiatric Hospital Beds: Exploring Supply-Side Solutions." *Psychiatric Services*. 2016 May 1;67(5):523-8. doi: 10.1176/appi.ps.201400570.
17. *D Chirovsky*, **K Hassmiller Lich**, AS Barritt. "Screening for Hepatocellular Carcinoma in Chronic Liver Disease." *Annals of Internal Medicine*. 2015;162(3):238-9.
18. *E Holdsworth La*, *R Zhu*, **K Hassmiller Lich**, AR Ellis, MS Swartz, MR Kosorok, JP Morrissey. "The Effects of State Psychiatric Hospital Waitlist Policies on Length of Stay and Time to Readmission." *Administration and Policy in Mental Health and Mental Health Services Research*. 2015 May;42(3):332-42. doi: 10.1007/s10488-014-0573-1.
19. JG Burke, **K Hassmiller Lich**, J Wattling Neal, HI Meissner, M Yonas, PL Mabry. "Enhancing Dissemination and Implementation Research Using Systems Science Methods." *International Journal of Behavioral Medicine*. 2015 Jun;22(3):283-91. doi: 10.1007/s12529-014-9417-3.
20. *RE Kohler*, RK Goyal, **K Hassmiller Lich**, ME Domino, SB Wheeler. "Association between Medical Home Enrollment and Health Care Utilization and Costs among Breast Cancer Patients in a State Medicaid Program." *Cancer*. 2015;121(22):3975-81. PMID: 26287506.
21. **K Hassmiller Lich**, Y Tian, *CA Beadles*, LS Williams, DM Bravata, EM Cheng, HB Bosworth, JB Homer, DB Matchar. "Strategic Planning to Reduce the Burden of Stroke among Veterans: Using Simulation Modeling to Inform Decision Making." *Stroke*. 2014;45(7):2078-2084.
22. SB Wheeler, TM Kuo, RK Goyal, AM Meyer, **K Hassmiller Lich**, *EM Gillen*, S Tyree, CL Lewis, TM Crutchfield, CE Martens, F Tanqka, L Richardson, MP Pignone. "Regional Variation in Colorectal Cancer Testing and Geographic Availability of Care in a Publicly Insured Population." *Health & Place*. 2014;29:114-23.  
<http://www.ncbi.nlm.nih.gov/pubmed/25063908>.
23. SB Wheeler, *RE Kohler*, KE Reeder-Hayes, RK Goyal, **K Hassmiller Lich**, A Moore, TW Smith, CL Melvin, HB Muss. "Endocrine Therapy Initiation among Medicaid-Insured Breast Cancer Survivors with Hormone Receptor-Positive Tumors." *Journal of Cancer Survivorship: Research and Practice*. 2014;8(4):603-10.
24. MP Pignone, TM Crutchfield, PM Brown, ST Hawley, JL Laping, CL Lewis, **K Hassmiller Lich**, LC Richardson, FK Tangka, SB Wheeler. "Using a Discrete Choice Experiment to Inform the Design of Programs to Promote Colon Cancer Screening for Vulnerable Populations in North Carolina." *BMC Health Serv Res*. 2014;14:611. doi: 10.1186/s12913-014-0611-4.
25. RK Goyal, SB Wheeler, *RE Kohler*, **K Hassmiller Lich**, *CC Lin*, K Reeder-Hayes, AM Meyer, DK Mayer. "Health Care Utilization from Chemotherapy-Related Adverse Events among Low-Income Breast Cancer Patients: Effect of Enrollment in a Medical Home Program." *North Carolina Medical Journal*. 2014;75(4):231-8.

26. D Travers, **K Hassmiller Lich**, S Lippmann, M Weinberger, K Yeatts, W Liao, A Waller. "Defining Emergency-Department Asthma Visits for Public Health Surveillance, North Carolina 2008-2009." *Preventing Chronic Disease*. 2014;11:e100-110. Published online 2014 Jun 12. doi: 10.5888/pcd11.130329.
27. CA Beadles, **K Hassmiller Lich**, A Viera, S Greene, MA Brookhart, M Weinberger. "A Non-Experimental Study of Oral Anticoagulation Therapy Initiation before and after National Patient Safety Goals." *BMJ Open*. 2014;4:e003960.
28. CA Beadles, **K Hassmiller Lich**, M Weinberger, S Greene, MA Brookhart, A Viera. "Patient Centered Medical Homes and Oral Anticoagulation Therapy Initiation." *Medical Care Research and Review*. 2014;71:174-91.
29. E Gillen, **K Hassmiller Lich**, KB Yeatts, ML Hernandez, TW Smith, MA Lewis. "Social Ecology of Asthma: Engaging Stakeholders in Integrating Health Behavior Theories and Practice-Based Evidence through Systems Mapping." *Health Education & Behavior*. 2014;41(1):63-77. <http://dx.doi.org/10.1177/1090198113486804>.
30. K Yeatts, S Lippmann, A Waller, **K Hassmiller Lich**, D Travers, M Weinberger, J Donohue. "Population-Based Burden of COPD-Related Visits in the ED: Return ED Visits, Hospital Admissions, and Comorbidity Risks." *Chest*. 2013;144(3):784-93. PMID: 23579283.
31. S Lippman, K Yeatts, A Waller, **K Hassmiller Lich**, D Travers, M Weinberger, J Donohue. "Hospitalization and Return Visits after Chronic Obstructive Pulmonary Disease ED Visits." *American Journal of Emergency Medicine*. 2013;31(9):1393-6. PMID: 23910071.
32. SB Wheeler, RE Kohler, RK Goyal, **K Hassmiller Lich**, C Lin, A. Moore, TW Smith, CL Melvin, K Reeder-Hayes, ME Domino. "Is Medical Home Enrollment Associated with Receipt of Guideline-Concordant Follow-Up Care among Low-Income Breast Cancer Survivors?" *Medical Care*. 2013;51(6):494-502.
33. S Sussman, D Levy, **K Hassmiller Lich**, C Cene, MM Kim, LA Rorhbach, FJ Chaloupka. "Comparing Effects of Tobacco Use Prevention Modalities: Need for Complex System Models." *Tobacco Induced Diseases*. 2013;11(1):2-14. <http://dx.doi.org/10.1186/1617-9625-11-2>.
34. R Wells, E Holdsworth La, JP Morrissey, M Hall, **K Hassmiller Lich**, R Blouin. "How a Stressed Local Public System Copes with People in Psychiatric Crisis." *Psychiatric Quarterly*. 2013;84(2):255-70. <http://dx.doi.org/10.1007/s11126-012-9245-z> PMID: PMC3566366.
35. **K Hassmiller Lich**, D Travers, W Psek, M Weinberger, K Yeatts, W Liao, SJ Lippmann, L Njord, A Waller. "Emergency Department Visits Attributable to Asthma in North Carolina, 2008." *North Carolina Medical Journal*. 2013;74(1):9-17.
36. **K Hassmiller Lich**, E Ginexi, NP Osgood, P Mabry. "A Call to Address Complexity and Dynamic Systems in Prevention Research." *Prevention Science*. 2013;14(3):279-89. <http://dx.doi.org/10.1007/s11121-012-0285-2>.

37. TA Ridenour, TZ Pineo, MM Maldonado-Molina, **K Hassmiller Lich**. "Toward Rigorous Idiographic Research in Prevention Science: Comparison between Three Analytic Strategies for Testing Preventive Intervention in Very Small Samples." *Prevention Science*. 2013;14(3):267-78. PMID: PMC3782303.
38. A Parthan, N Pruttivarasin, D Davies, DCA Taylor, V Pawar, A Bijlani, **K Hassmiller Lich**, RC Chen. "Comparative Cost-Effectiveness of CyberKnife Stereotactic Body Radiation Therapy Versus Intensity-Modulated and Proton Radiation Therapy for Localized Prostate Cancer." *Frontiers in Radiation Oncology*. 2012;2:1-9 (article 81). <http://dx.doi.org/10.3389/fonc.2012.00081>.
39. JP Morrissey, **K Hassmiller Lich**, R Anhang Price, J Mandelblatt. "Computational Modeling and Multilevel Cancer Control Interventions." *Journal of the National Cancer Institute*. 2012;2012(44):56-66.
40. N Osgood, A Mahamoud, **K Hassmiller Lich**, Y Tian, A Al-Azem, VH Hoepfner. "Estimating the Relative Impact of Early-Life Infection Exposure on Later-Life Tuberculosis Outcomes in a Canadian Sample." *Research in Human Development*. 2011;8(1):26-47. <http://dx.doi.org/10.1080/15427609.2011.549692>.
41. **K Hassmiller Lich**, N Osgood, A Mahamoud. "Using System Dynamics Tools to Gain Insight into Intervention Options Related to the Interaction between Tobacco and Tuberculosis." *Global Health Promotion*. 2010;17(s1):7-20. <http://dx.doi.org/10.1177/1757975909358255>.
42. K Slama, C Chiang, DA Enarson, **K Hassmiller**, A Fanning, P Gupta, C Ray. "Tobacco and Tuberculosis: A Qualitative Systematic Review and Meta-Analysis." *International Journal of Tuberculosis and Lung Disease*. 2007;11(10):1049-61.
43. **KM Hassmiller**. "The Association between Smoking and Tuberculosis." *Salud Publica de Mexico*. 2006;48(3s): S201-16.
44. **KM Hassmiller**, KE Warner, D Mendez, DT Levy, E Romano. "Non-Daily Smokers: Who are They?" *American Journal of Public Health*. 2003;93(8):1321-7. <http://dx.doi.org/10.2105/AJPH.93.8.1321>.
45. D Mendez, PD Jacobson, **KM Hassmiller**, G Zellman. "The Effect of Legal and Hospital Policies on Physician Response to Prenatal Substance Exposure." *Maternal and Child Health Journal*. 2003;7(3):187-96.

#### **Refereed Published Conference Proceedings**

D Cornejo (presenter), M Mayorga, K Hassmiller Lich. "Creating Common Patients and Evaluating Individual Results: Issues in Individual Simulation for Health Policy Analysis." *Proceedings of the Winter Simulation Conference*, 2014, Savannah, GA.

D Cornejo (presenter), M Mayorga, K Hassmiller Lich. "Improving Outcomes via Better Choices: Applications in Colorectal Cancer Screening." *Industrial and Systems Engineering Research Conference Proceedings*, 2014, Montreal, Canada.

## **Refereed Unpublished Oral Presentations and/or Posters**

**K Hassmiller Lich**, D Jackson-Diop, *G Cruden*, A Horgan. “An integrated systems thinking approach to supporting youth in transition to healthy and independent adulthood.” Peer-reviewed oral presentation at the 30<sup>th</sup> Annual Research and Policy Conference on Child, Adolescent, and Young Adult Behavioral Health, FL, March 2017.

PA Matson, JD Fortenberry, **K Hassmiller Lich**, S Chung, JM Ellen. “The Impact of acute relationship insults on trust and pro-relationship behavior within adolescent romantic relationships: A systems approach.” Peer-reviewed oral presentation (and award winning submission, see awards) at the Society for Adolescent Health and Medicine Annual Meeting, LA, March 2017.

*R Karmali*, **K Hassmiller Lich**, R Martukovich, A Reichsman, Patient Strengths Design Team (group author), K Stange. “Using stakeholder-engagement and design thinking to support the design, implementation, and evaluation of evidence-based interventions for behavior change that leverage patients’ strengths in primary care.” Peer-reviewed poster presentation at the Patient-Centered Outcomes Research Institute Annual Meeting, MD, November 2016.

*G Cruden*, **K Hassmiller Lich**, D Jackson-Diop, F Abdi, O Fleming, M Roth. “Systems Support Mapping with Transition-Age Youth to Identify System Change Targets.” Peer-reviewed oral presentation at the Society for Prevention Research Annual Meeting, CA, June 2016.

S Cox, **K Hassmiller Lich**. “Increasing Connections between Care Coordinators through Systems-Level Needs Assessment.” Peer-reviewed oral presentation at the Annual Association for Maternal and Child Health Programs Annual Conference, Washington, DC, April 2016.

Z Yi, ME Mayorga, **K Hassmiller Lich**, JL Pearson. “Changes in U.S. Cigarette Smoking Intensity by Age and Race: A Comparison of the 2002-2003 and 2010-2011 TUS-CPS.” Peer-reviewed poster presentation at the American Academy of Health Behavior Annual Meeting, Ponte Vedra Beach, FL, February 2016.

*E La*, J Morrissey, M Domino, **K Hassmiller Lich**, A Waller, J Seibert. “External Effects of a State Psychiatric Hospital Waitlist Policy on Emergency Department Utilization.” Peer-reviewed poster presentation at the AcademyHealth Annual Research Meeting, Minneapolis, MN, June 2015.

*RE Kohler*, *RK Goyal*, **K Hassmiller Lich**, ME Domino, SB Wheeler. “Association between Medical Home Enrollment and Health Care Utilization and Costs among Breast Cancer Survivors in a State Medicaid Program.” Peer-reviewed poster presentation at the AcademyHealth Annual Research Meeting, Minneapolis, MN, June 2015.

*EM Gillen (presenter)*, **K Hassmiller Lich**, M Holmes, L Trantham, P Silberman, M Weinberger. “Plan Selection on the North Carolina Health Insurance Exchange.” Peer-reviewed poster presentation at the AcademyHealth Annual Research Meeting, San Diego, CA, June 2014.

*R Townsley (presenter)*, M Mayorga, **K Hassmiller Lich**, J Pearson. “A Model for Smoking Cessation Treatment Choice and Associated Health Outcomes.” Peer-reviewed poster presentation at the Industrial and Systems Engineering Research Conference, Montreal, Canada, June 2014.

C Cene, *L Sheble*, G Dave, **K Hassmiller Lich**, TD Ritchwood, G Corbie-Smith. “An Informetric Analysis to Understand how Systems Science Methods Have Been Applied in Health Disparities Research.” Peer-reviewed poster presentation at Complex Systems, Health Disparities & Population Health: Building Bridges, Bethesda, MD, February 2014.

M Mayorga (presenter), **K Hassmiller Lich**. “A Colorectal Cancer Screening Model Incorporating Patient Choice.” Peer-reviewed oral presentation at INFORMS 2013, Minneapolis, MN, October 2013.

**K Hassmiller Lich**, S Wheeler (presenter), N Wickramage, M Mayorga. “Perspective Matters: Insights from Choosing the Best Simulation Study Design for Optimizing Colorectal Cancer Screening in North Carolina.” Peer-reviewed oral presentation at INFORMS Healthcare 2013, Chicago, IL, June 2013.

**K Hassmiller Lich** (presenter). “Using a Dynamic Computational Model to Support Identification of Policy and Research Priorities in the Context of Substantial Uncertainty.” Invited Paper Symposium Session (oral) on Using System Science Modeling for Prevention Research and Programming at the 2013 Society for Prevention Research, San Francisco, CA, May 2013.

**K Hassmiller Lich** (presenter and panel co-organizer with H Meissner and P Mabry at NIH OBSSR). “Systems Science Methodologies: Involving Stakeholders to Enhance D&I Research.” Peer-reviewed oral presentation and panel at 5th Annual NIH Conference on the Science of Dissemination and Implementation, Washington, DC, March 2012.

CA Beadles, MA Kaufman, J Homer, E Cheng, LS Williams, DM Bravata, D Matchar, HB Bosworth, **K Hassmiller Lich** (presenter). “Using System Dynamics Tools to Integrate Evidence into VA Stroke Care.” Peer-reviewed oral presentation at the VA Health Services Research & Development National Meeting, Washington, DC, March 2011.

**K Hassmiller Lich** (presenter), ND Osgood, A Al-Azem. “The Challenge of Controlling Tuberculosis: Using Systems Science Methods to Inform Complex Population-Health Problems where Earlier Influences Shape Later Life Outcomes.” Peer-reviewed poster presentation at the 2009 Society for the Study of Human Development Biennial Meeting, Ann Arbor, MI, October 2009.

**K Hassmiller Lich**, ND Osgood, RF Dyck, A Al-Azem, A Mahamoud (presenter), “Why We Must Care About the Effects of Diabetes and Smoking on TB: What We Know and Don’t Know (But Need To).” Peer-reviewed poster presentation at the 40th Union World Conference on Lung Health, Cancun, Mexico, December 2009.

**K Hassmiller Lich**. “Tobacco Control Increases Infectious Disease Control.” Invited speaker in an International Union for Health Promotion and Education Symposium entitled “Incorporating Tobacco Control into Poverty Alleviation Schemes” at the 14<sup>th</sup> Annual World Conference on Tobacco or Health, Mumbai, India, March 2009.

DB Matchar (presenter), **K Hassmiller Lich** (presenter), J Homer, SD Lee. “Using System Dynamics Methodology for Strategic Planning in VA QUERI Programs.” Peer-reviewed (oral) workshop at the US Department of Veterans Affairs National Quality Enhancement Research Initiative Meeting, Denver, CO, December 2008.

DB Matchar, **K Hassmiller Lich** (presenter), J Homer, SD Lee. “Using System Dynamics Tools to Integrate Evidence into VA Stroke Care.” Peer-reviewed poster presentation at the US Department of Veterans Affairs National Quality Enhancement Research Initiative Meeting, Denver, CO, December 2008.



**K Hassmiller Lich.** “The Impact of Smoking on Population-Level Tuberculosis Outcomes.” Peer-reviewed oral presentation at the Tuberculosis Surveillance Research Unit Annual Meeting, Den Haag, Netherlands, April 2007.

**KM Hassmiller.** “Using Modeling to Understand the Impact of Smoking on Population-Level Tuberculosis Outcomes.” Peer-reviewed poster presentation at the 37<sup>th</sup> Union World Conference on Lung Health, Paris, France, November 2006.

**KM Hassmiller.** “The Impact of Smoking on Population-Level Tuberculosis Outcomes: Findings and Policy Implications.” Peer-reviewed oral presentation at the 13<sup>th</sup> World Conference on Tobacco or Health, Washington, DC, July 2006.

KE Warner, **KM Hassmiller.** “Reducing Initiation Versus Increasing Cessation: An Investigation of the Differential Impact of Smoking Control Policies on Smoking-Related Deaths and Medical Costs in the US.” D Mendez (presenter), Peer-reviewed oral presentation at the Annual Meeting of the American Public Health Association, Philadelphia, PA, December 2005.

**KM Hassmiller** (presenter), D Mendez, KE Warner, D Kirschner, CP Simon. “The Impact of Smoking on Population-Level Tuberculosis Outcomes.” Peer-reviewed poster presentation at the Advanced Workshop on Tuberculosis, Lisbon, Portugal, September 2005.

**KM Hassmiller.** “Constructing an Agent-Based Model of the Spread of Tuberculosis.” Peer-reviewed poster presentation at the Eighth Annual Swarm Users/Researchers Conference, Ann Arbor, Michigan, May 2004.

**KM Hassmiller.** “The Impact of Smoking on the Spread of Tuberculosis.” Peer-reviewed poster presentation at the 35<sup>th</sup> Union World Conference on Lung Health, Paris, France; November 2004.

#### **Invited presentations and workgroups**

**K Hassmiller Lich.** “System Versus Service-Level Change: Definitions and Tools to Help Diverse Teams Understand how to Approach System-Level Change.” Invited Keynote Speaker at the New York Center of Excellence in Maternal and Infant Health Annual Maternal and Infant Health Conference, Albany, NY, May 2016.

**K Hassmiller Lich.** “Stakeholder Engagement in Systems Mapping.” Invited Oral Presentation at the “Reimagining Health in Cities: New Directions in Urban Health Research” Meeting, Drexel, Philadelphia, PA, September 2015.

**K Hassmiller Lich.** “Systems Science Tools: What Are They and How Can We Use Them with Surveillance?” Public Health Informatics: Science to Practice with Transdisciplinary Collaboration. Annual Public Health Informatics Workshop, sponsored by the UNC Gillings School of Global Public Health and the UNC School of Information and Library Science, Chapel Hill, NC, September 2013.

**K Hassmiller Lich.** “Systems Science Models for Novel Programming and Policies Responsive to Translational Research Findings.” Invited Lecture at the “Advancing Transdisciplinary Translation for Prevention of High Risk Behaviors” working conference, sponsored by NINR, RTP, NC, Training Institute for Dissemination and Implementation Research in Health, Chapel Hill, NC, April 2012.

**K Hassmiller Lich.** “Using Systems Science Methods to Sustain the Gains.” Invited to participate in a work group to assess the “state of the science” on sustainability of evidence-based intervention

in health care and to develop a research agenda. Invitation to discuss the potential role for systems science methods in sustainability research at this NIH-funded workgroup meeting, St. Louis, MO, February 2012.

**K Hassmiller Lich**, JP Morrissey. “System Dynamics: Tools for Dissemination and Implementation Research.” Invited Lecture at the Training Institute for Dissemination and Implementation Research in Health, Chapel Hill, NC, August 2011.

**K Hassmiller Lich**. “System Dynamics Modeling: Exploring Policy Scenarios (A Basic Primer on System Dynamics Modeling).” Invited Lecture at the Systems Science Methodologies for Prevention Research Pre-Conference Workshop, Denver, CO, June 2010.

**K Hassmiller Lich**. “Using System Dynamics to Study the Interaction between Tobacco and Tuberculosis.” Invited Lecture in Symposium: The Application of System Sciences Methodologies to Prevention Research at the Society for Prevention Research Annual Meeting, Denver, CO, June 2010.

**K Hassmiller Lich**. “Using System Dynamics Models to Reshape Policy Priorities: The Case of Tobacco and Tuberculosis.” Invited Lecture at the Institute on Systems Science and Health: Ann Arbor, MI, May 2009.

**K Hassmiller Lich** “Workshop on Environmental Systems in Public Health.” Invited to participate in the National Institute of Child Health and Human Development (NICHD) and National Institute of Environmental Health Sciences (NIEHS) sponsored meeting, Bethesda, MD, September 2008.

**K Hassmiller Lich**. “Influencing Policy and Decision Makers.” Discussant at the Healthcare Engineering Alliance’s First Annual Healthcare Engineering Symposium on the Interface of Health Services Research and Healthcare Engineering, Raleigh, NC, April 2008.

**K Hassmiller Lich**. “The Impact of Smoking on Population-Level Tuberculosis Outcomes.” Invited seminar for the Centers for Disease Control and Prevention (CDC) Office on Smoking and Health and Division of Tuberculosis Elimination, Atlanta, GA, December 2007.

**K Hassmiller Lich**. “Applications in Policy.” Invited oral presentation at the Complex Systems Approaches to Population Health Symposium, Ann Arbor, MI, May 2007.

**K Hassmiller Lich**. “The Impact of Smoking on Population-Level Tuberculosis Outcomes.” Invited seminar in the Duke-UNC Tuberculosis series, Chapel Hill, NC, May 2007.

**K Hassmiller Lich**. “Reducing Deaths from Tobacco and TB Together.” Invited to participate in meeting co-sponsored by researchers from the Yale School of Public Health and the World Health Organization to discuss and enhance initiatives to address TB and tobacco together, Geneva, Switzerland, February 2006.

**K Hassmiller Lich**. “What’s in a Name? Examination of Light and Intermittent Smokers.” Invited to participate in an expert panel sponsored by the National Cancer Institute and the American Legacy Foundation, Washington, DC, August 2005.

## **TEACHING ACTIVITIES**

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### **University of North Carolina at Chapel Hill**

Department of Health Policy and Management

HPM 770: Introduction to Spreadsheet Modeling and Decision Analysis Tools for Improving Health Care Management and Policy Decision Making  
Graduate; 4 credit hours; 70 students in Sp. 2015 (across 2 sections); 61 students in Sp. 2014 (across 2 sections); 50 students in Sp. 2013 (1 section); 56 students in Sp. 2012 (1 section); 49 in Sp. 2011 (1 section); taught 2008-2015

HPM 772: Techniques for the Economic Evaluation of Health Care  
Graduate; 3 credit hours; 28 students in Fall 2015

HPM 785: Advanced Decision Support Modeling  
Graduate; 3 credit hours; 8 students enrolled and 2 full auditors in Sp. 2016, 8 registered and 3 full audits in Sp. 2017

HPM 890: Introduction to Participatory Systems Science in Health  
Graduate; 3 credit hours; first offering Sp 2013, 11 students enrolled for credit and 3 full audits (not re-offered due to my time constraints; interest grew after this trial run)

HPM 966: Systems Thinking and Collective Impact  
Graduate (DrPH); 1 credit hour; 14 students enrolled in Sp. 2017

Systems Thinking and Health Strategy  
Graduate; Executive Masters Program Elective Workshop  
Co-taught with Rebecca Wells

### **NIH Institute for Systems Science and Health**

System Dynamics Track,  
Intensive week-long training program co-taught with Peter Hovmand  
18 scholars from the US and abroad in Summer 2012

## **STUDENT ADVISING**

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### **University of North Carolina at Chapel Hill**

#### **POST-DOCTORAL FELLOWS MENTORED**

Leah Frerichs, PhD (Center for Health Equity Research) Aug 2014-Aug 2016  
Leah specializes in the use of systems science and community-based participatory research methods to address health disparities and create healthy communities. Leah has accepted a tenure-track job in the Department of Health Policy & Management at the University of North Carolina at Chapel Hill.

Larissa Calancie, PhD (Center for Health Equity Research) June 2016-  
Larissa specializes in supporting cross-sector collaborations in identifying targets for strengthening systems and making systemic change in practice, environment, and/or policy to improve healthy eating and address disparities in access to healthy food.

#### **DOCTORAL STUDENTS**

##### **Doctoral dissertation chair/advisor**

- Gracelyn Cruden (HPM PhD), (expected graduation 2019), Title TBD.

- Seri Link (HPM PhD), (expected graduation 2018), “The cost-effectiveness of improved communication of pregnancy risk and contraceptive information.”
- Ruchir Karmali (HPM PhD), (expected graduation 2018), “The importance of options: Is the supply of non-pharmacologic pain management providers linked to opioid use?”
- Emily Mangone (HPM PhD, (expected graduation 2018), Title TBD.
- Hadi Beyhaghi (HPM PhD), (expected graduation 2018), “Evidence-based prescribing of novel agents for advanced melanoma: Integrating treatment effectiveness and patient values.”
- Jamie Jarmul (HPM PhD 2017), “Clinical utility and cost-effectiveness of cardiovascular genetic risk testing for targeting statin therapy in primary prevention of cardiovascular disease.”
- Todd Durham (HPM PhD 2016), “In the era of target-specific anticoagulants, can novel decision tools improve the health-related quality of life of adults with atrial fibrillation?”
- Emily Gillen (HPM PhD 2015), “Determinants and effects of plan selection in the non-group health insurance market under ACA.”
- Diana Chirovsky (HPM PhD 2014), “Comparative effectiveness of surveillance and current treatment approaches for the detection and management of hepatocellular carcinoma in East Asia.”
- Chris Beadles (HPM PhD 2013), “Effect of policy and practice changes on oral anticoagulation use in North Carolina.”

#### **Doctoral committee member**

- Christine Kim (HPM PHD, expected graduation 2017), “An assessment of access and use of maternal health care in Afghanistan.”
- Deanna Befus (Duke Nursing PhD 2017), “A systems thinking, community-based research approach for health equity and agency: women’s migraine as a paradigmatic case.”
- Kei Alegria-Flores (HPM PhD 2017), “Complex systems: An innovative approach to improve drug-resistant tuberculosis treatment adherence.”
- Bernie Agala (HPM PhD 2017), “Referral network factors and health outcomes among HIV+ women in Ethiopia.”
- Zinan Yi (NC State Ind. & Systems Engineering PhD 2016), “Anticipating U.S. population-level health trends based on individual-level dynamics to inform public policy decisions.”
- Tyonne Hinson (HPM DrPH 2016), “Perceptions of the facilitators and barriers of breastfeeding initiation: Increasing initiation through a tailored approach of practice interventions and policy for African-American mothers.”
- Raymond Smith (NC State Ind. & Systems Engineering PhD 2016), “Whole hospital capacity dynamics: modeling and exploration.”
- Sue Lynne Ledford (HPM DrPH 2015), “Improving the transition process from pediatric to adult HIV care in North Carolina: A patient and family-centered perspective.”
- Elizabeth Holdsworth La (HPM PhD 2013), “The effects of a state psychiatric hospital waitlist policy on mental health safety net providers.”
- Aaron Ratcliffe (Business School PhD 2013), “Operating on quality, access, cost: Managing better health systems.”
- Jennifer Olsen (HPM DrPH 2013), “Infodemiology to improve public health situational awareness: An investigation of 2010 pertussis outbreaks in California, Michigan and Ohio.”



Lauren Brown (MSPH), Second reader

Fall 2009-spring 2010

“Cost-effectiveness of vaccination for the prevention of haemophilus influenzae Type B disease among infants and young children in the People’s Republic of China.”

### **Masters students advised**

Graduated: Nisha Pasupuleti (2015), Haylee McBrayer (2015), Brett Bingham (2015), Jorge Villanueva Medina (2014), Christopher Coughlin (2014), Brian Cooper (2014), Doug Ingalls (2013), Ramya Parthasarathy (2013), Phil Cook (2012), Eugene Rossitch (2011), Matthew Hasbrouck (2011), Andrea Mercer (2010), Mary Herring (2010), Robert Hickling (2010), Maureen Alison Cubero (2009), Bindi Naik (2008).

## **UNDERGRADUATE STUDENTS**

### **Bachelor’s Honors Projects Advised**

Camille Fulbright (BSPH), First reader

Fall 2016-spring 2017

“Understanding how systems can better support LGBTQ young adults as they transition into healthy and independent adulthood.”

Melissa Martinez (BSPH), First reader

Fall 2012-spring 2013

“Environmental monitoring of high touch surfaces in the hospital setting.”

### **Bachelor’s students advised:**

Graduated: Emily Cerciello (2015). LeVelton Thomas (2009), Stacy Michal (2009), Jane Moore (2009), Christine Ackley (2008), Monika Gondha (2008).

## **RESEARCH GRANTS**

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### **ACTIVE**

#### **US Department of Health and Human Services Office of Population Affairs (37223.2017.0001)**

**09/01/2016-08/31/2020**

*“Family Planning National Training Center for Service Delivery Improvement”*

This Center is funded to support training and technical assistance for Federal recipients of Title X grants, who are supporting population-level family planning. I will engage the diverse national leaders comprising the FPNTC’s Leadership Council using systems thinking methods in support of Title X sustainability planning. I will also use and teach systems thinking to cohorts of Title X grantee-led local Strategic Area Teams seeking to grow local collaborations and strategic planning to support their financial sustainability. PI: R Webb, JSI Research and Training Institute; UNC PI: B Peterson; **K Hassmiller Lich: Co-investigator (30% effort)**. Total direct cost \$3,843,954.

#### **North Carolina Alliance of Public Health Agencies (NCAPHA; no #) 04/15/2016-05/15/2017**

*“NC Public Health Alliance Return on Investment (ROI)/Program Investment Project”*

Funded by the NC Alliance for Public Health Agencies, this project develops an economic model to calculate hospital-related cost savings associated with low birth weight and preterm babies that result from local health department programs intended to address related risk factors. PI: J Graham; **K Hassmiller Lich: Co-PI (4% effort)**. Total direct cost \$95,084.

#### **Bill and Melinda Gates Foundation (OPP1142921)**

**3/01/2016-02/28/2019**

*“Family Planning Country Action Process Evaluation”*

The Family Planning Country Action Process Evaluation (FP CAPE), a Bill and Melinda Gates Foundation (BMGF) funded project, conducts process evaluation research related to BMGF family planning portfolios in the Democratic Republic of Congo (DRC) and Nigeria. FP CAPE seeks to generate evidence on how and why each portfolio of investments is or is not driving change in key outcomes, most notably modern contraceptive use, across geographies and the role of context in shaping these outcomes to inform programmatic decisions and future investment strategies for family planning in the DRC and Nigeria. PI: S Curtis; **K Hassmiller Lich: Co-investigator (20% effort)**. Total direct cost: \$4,090,908.

**Centers for Disease Control and Prevention (CDC) SIP-14-010 (5-U48-DP005017-03)**  
**09/30/15-09/29/17**

*“Special Interest Project: Colorectal cancer screening in underserved communities in NC”*

This project extends a completed CDC Special Interest Project with the same title, seeking to inform local, state, and national efforts to improve colorectal cancer screening practices, programs, and policies and to inform health targets. We will update and use the simulation model developed in that grant to estimate the impact of Health Care Reform on colorectal cancer outcomes. PI: S Wheeler; **K Hassmiller Lich: Co-investigator (9% and 6% in years 1 and 2)**. Total direct cost \$300,000.

**US Department of Health and Human Services Health Resources and Services Administration, MCH Bureau (2-UE7-MC26282-04)**  
**09/01/2013-08/31/2021**

*“National Consolidated Center for MCH Workforce Development”*

On this grant, I lead the Systems Integration Core in developing and offering universal training (web-based self-directed), targeted training (live and web-based short courses), and intensive training (consulting/coaching on how to approach collaborative system strengthening initiatives) to support State Title V workforce in ensuring optimal maternal and child health (MCH) outcomes in a time of funding reductions, health care reform, and increasing need for systems integration methods that address social and environmental determinants of health, engage stakeholders and consumers, align investments and demonstrate collaborative use of data. PI: D Cilenti; **K Hassmiller Lich: Co-investigator (40% effort)**. Total direct cost \$5,329,322 (phase 1, 2013-16) and \$8,319,513 (phase 2, 2016-2021).

**Patient Centered Outcomes Research Institute (PCORI; RES508126 / RES511293)**  
**6/15/13-6/14/17**

*“Patient-Identified Personal Strengths (PIPS) vs. Deficit-Focused Models of Care”*

We hypothesize that focusing care on patient strengths can result in better patient-centered outcomes by motivating positive change and engaging patient resources in ways that the usual deficit-based model of care cannot. Therefore, we aim to: 1. Identify patient-identified personal strengths relevant to illness management. 2. Develop a strength-focused computer-supported Interactive Tailored Patient Assessment Tool. 3. Engage diverse patients, caregivers and primary care clinicians in identifying mechanisms by which leveraging patient-identified personal strengths in different ways might affect the processes and patient-centered outcomes of health care. 4. Quantitatively simulate the effect of alternate approaches to leveraging patient-identified personal strengths in practice on patient-oriented outcomes and provider resources compared to usual deficit/symptom-focused care. PI: K Stange; **K Hassmiller Lich: Co-investigator and PI on UNC Subcontract (11%, 25% and 27% effort in years 1, 2, and 3 respectively)**. Total direct costs in UNC sub-contract \$271,825.

COMPLETED:

**North Carolina Translational & Clinical Sciences Institute Pilot Grant (no #) 3/1/12-10/31/13**  
*“Using Systems Science Methods to Improve Colorectal Cancer Screening in North Carolina”*

Description: In this project we adapt a national (US) colorectal cancer screening model, developed by co-investigators at RTI International, to the North Carolina context. We will use the agent-based model to address the knowledge gap around the relative impact of alternate intervention/policy scenarios targeted at disadvantaged subpopulations of North Carolina residents. Specifically, we will leverage: 1) an existing and well-validated decision-support model; 2) data sources from the new Integrated Cancer Information and Surveillance System (ICISS), which contain population-based cancer and health utilization data from NC; 3) RTI-developed synthetic population data; and 4) a multi-disciplinary local research community of internationally renowned colorectal cancer researchers to adapt, recalibrate, and validate the model. We will use the model to inform local and state policy decision making as well as ongoing research around colorectal cancer occurring at UNC and RTI. The team includes a multidisciplinary group of researchers including modelers, economists, cancer specialists, programmers and analysts from both institutions.

**PI:** K Hassmiller Lich (10% effort in kind for pilot grant); **G. Bobashev, Total direct cost \$50,000.**

**Centers for Disease Control and Prevention (CDC-SIP-11-041; no number) 9/30/11-9/29/14**  
*Special Interest Proj “Colorectal cancer screening in underserved communities in North Carolina”*

The specific aims of the study are: (1) To use state cancer registry-linked-insurance claims data from Medicaid and Medicare to identify underserved areas in North Carolina with relatively low CRC screening rates and high CRC mortality, and to examine characteristics of unscreened individuals in these regions; (2) To elicit preferences and understand barriers related to CRC screening in underserved communities (from Aim 1) from the patient perspective; and, (3) To use decision modeling techniques to compare the effectiveness and feasibility of different strategies for increasing screening in underserved sub-populations from the health system/provider perspective. PIs: SB Wheeler, MP Pignone; **K Hassmiller Lich: Co-investigator** (co-I on all aims, and leading aim 3; 19%, 25%, and 21% effort in years 1, 2, and 3 respectively). Total direct costs \$829,294.

**IPA with the Indianapolis VA Veteran’s Engineering Resource Center (no #) 7/1/11-9/30/14**

Through this IPA, I will continue to adapt and use the Stroke System Dynamics model developed through previous VA rapid response projects. Specifically, we will extend the sensitivity analysis conducted with the mode to assess the robustness of policy conclusions to uncertainty in model inputs and identify research priorities. I will facilitate a day-long workshop using the model to serve as the foundation for discussion about how best to re-engineer systems of stroke care with national VA Operations staff. Lastly, we will transition the aggregate System Dynamics model to an individual-based (agent-based) model to support subsequent investigation of optimal targeted prevention programs for the Stroke QUERI. **PI: K Hassmiller Lich (20% effort).** Total direct cost covers 20% effort over project period plus PI on a supplemental \$100,000 project I led, with payment dispersed to collaborating university through subcontracts directly from VA. Total direct costs to UNC \$158,642.

**University Cancer Research Fund Health-E-NC Pilot Grant (no number) 1/1/11-12/31/11**  
*“Meeting the needs of cancer survivors in North Carolina: Assessing and improving the Medicaid medical home model”*

In this pilot project, I supported the team in facilitating discussions with system stakeholders about how best to leverage the Community Care of North Carolina Medicaid Medical Home Model to improve care for breast cancer survivors transitioning back to primary care. We combined data analysis with stakeholder engagement to identify gaps in care and opportunities to bolster best



practices. PI: Stephanie Wheeler; **K Hassmiller Lich: Co-Investigator (5% effort in kind for pilot grant)**. Total direct cost \$60,885.

**University of North Carolina Gillings Innovation Lab (no number)** 8/1/08-7/31/11  
*“Linking Data to Improve Disease Management”*

My role on this project was to support a team in analyzing population-level, real-time emergency department data to inform asthma prevention and control efforts across the state of North Carolina. PI: David Richardson; **K Hassmiller Lich: Co-investigator (5% effort paid+5% effort in kind while clinical scholar)**. Total direct cost \$564,592.

**University of North Carolina Gillings Innovation Lab (no number)** 7/1/08-6/30/11  
*“Gillings Innovation Lab for Mental Health System Improvement”*

The purpose of this project was to use systems science methods in collaboration with system stakeholders to identify targets for improving the mental health service system in North Carolina, to develop a comprehensive understanding of how adults in psychiatric crisis flow through systems of care, and to identify capacity needs and recommendations for system improvement.

PI: Joseph Morrissey; **K Hassmiller Lich: Co-PI (5-10% effort paid+20% effort in kind while clinical scholar)**. Total direct cost \$400,000.

**Department of Veterans Affairs RRP 09-146 (no number)** 5/1/10-4/30/11  
*“Using System Dynamics Tools to Integrate Evidence into VA Stroke Care, round 2”*

In this extension of an earlier VA grant (see below), we continued to iterate the System Dynamics Decision Support model to inform strategic planning of the Stroke Quality Enhancement Research Initiative. VA PI: Hayden Bosworth; **K Hassmiller Lich: Co-PI (20% effort in kind while clinical scholar)**. Total direct cost \$100,000.

**University of North Carolina KL2 RR025746 (no number)** 7/1/08-4/30/11  
*“UNC Clinical Translation Science Award – K12 Scholars Program (KL2).”*

I framed this mentored career development award to increase my exposure to real-world clinical realities needed to enhance decision support models as well as to gain skills in stakeholder engaged research methods. PI: Pisano; **K Hassmiller Lich: Scholar (75% effort)**. Total direct cost of \$2,090,864.

**Department of Veterans Affairs RRP 08-250 (no number)** 6/1/08-11/31/10  
*“Using System Dynamics Tools to Integrate Evidence into VA Stroke Care”*

In the Veterans Administration (VA), a national accountable care organization, it is difficult to know how to allocate limited resources to best support the health of the Veteran population. Charged with guiding the prioritization of research and practice-based improvement efforts, I led a team working with the Stroke Quality Enhancement Research Initiative (QUERI) that turned to system dynamics modeling to first shape and then estimate the relative impact of alternate intervention scenarios for translating best evidence into practice VA-wide would have on the quality of life of Veterans. VA PI: Hayden Bosworth; **K Hassmiller Lich: Co-PI (15% effort in kind)**. Total direct cost \$75,000.

**University of Michigan Tobacco Research Network Grant (no number)** 9/2005-8/2007  
*“The Impact of Smoking on Population-Level Tuberculosis Dynamics and Policy Implications.”*

This grant supported the completion of my dissertation research in which I modeled the intersection of tobacco and tuberculosis epidemics and analyzed policy implications.

Faculty sponsor: David Mendez; **K Hassmiller: Lead investigator (100% effort)**. Total direct cost \$40,000.

## **PROFESSIONAL SERVICE**

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### **DEPARTMENTAL LEVEL**

Global Health Working Group, Member 2008-present

### **SCHOOL LEVEL**

Search Committee for Chair of Health Policy and Management 2015

### **UNIVERSITY LEVEL**

None to date.

### **NATIONAL AND INTERNATIONAL LEVELS**

Journal refereeing: 2006-present

*American Journal of Public Health, Nicotine and Tobacco Research, Social Science & Medicine, Theoretical Population Biology, Administration and Policy in Mental Health and Mental Health Services Research, The American Journal of Managed Care, Journal of Applied Economics and Policy.*

**Member of NIH Ad Hoc Review Panel: Using Systems Science Methodologies to Protect and Improve Population Health (R21, PAR-08-224).** January 2009, June 2009.

### **PRACTICE**

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I have been invited to give numerous lectures about the value and role of systems science methods in public health research, practice, policy, and implementation research at the Centers for Disease Control and Prevention, National Institutes of Health (NIH) and various national and international conferences. In addition, I have published four manuscripts designed to illustrate the potential value of systems science methods more broadly to emerging or established fields. I have reviewed abstracts for systems science sessions at the Society for Prevention Research repeatedly, and have reviewed Systems Scholars for AcademyHealth in 2016. I participated on an expert panel on best practices for proposing the use of systems science methods in NIH-funded research (2016).