# Mika K. Hamer, PhD, MPH

Post-Doctoral Research Fellow

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#### **EDUCATION**

University of Colorado | Colorado School of Public Health Ph.D. Health Services Research Dissertation title: Medicare Prevention Benefit Expansion: Adoption and Utilization of Benefits and Effects on Cancer Outcomes Research Mentor: Marcelo C. Perraillon, PhD

#### **Colorado School of Public Health**

M.P.H. Health Services Research Capstone project: Predictors of Support for Smoke-Free Workplace Policies among Smokers in Utah, 2005-2010

## B.Sc. Biopsychology, Community Health

#### **RESEARCH EXPERIENCE**

**Tufts University** 

Center for Bioethics and Humanities | University of Colorado, Aurora, CO 2022 - present Post-doctoral Research Fellow

#### Colorado School of Public Health | Department of Health Systems, Management, and Policy, Aurora, CO

2021 - 2022	Senior Professional Research Assistant/Analyst	
2020 - 2021	Predoctoral Research Fellow	
2021	Graduate Teaching Assistant, Health Care Economics	
2016	Graduate Teaching Assistant, Healthcare Financial Management	
2012	Graduate Teaching Assistant, Health Care Economics	
Systems 4 Action Research Program		
2019 - 2020	Senior Professional Research Assistant/Analyst	

## University of Colorado, Anschutz Medical Campus | School of Medicine, Adult and Child Consortium for Health Outcomes Research and Delivery Science (ACCORDS), Aurora, CO

2016 - 2019	Senior Professional Research Assistant/Qualitative Researcher
2013 - 2016	Project Manager/Professional Research Assistant
2010 - 2013	Project Coordinator/Professional Research Assistant

Boston Health Economics, Inc., Waltham, MA

August 2022

December 2013

May 2008

\$2,000

\$43,046

2008 - 2010 Research and Editorial Assistant

Tufts University | Friedman School of Nutrition Science and Policy, Boston, MA

2007 - 2008 Children in Balance Initiative Intern

## **RESEARCH GRANTS**

#### Completed

University of Colorado (PI: Hamer) Comprehensive Cancer Center

# The Effects of Expanding Medicare Prevention Coverage on Colorectal and Breast Cancer Detection and Mortality

This internal award supports a portion of the qualitative aim of my dissertation. The objective of the qualitative aim is to explore Colorado-based primary care providers' perceptions of: a) rationale for conducting Medicare Annual Wellness Visits (AWV) including financial incentives, facilitators and barriers to delivery, and duplication with other visit types offered by the provider; b) AWV value, especially related to potential to increase use of colorectal and breast cancer screening services; and c) patient factors influencing self-selection to utilize the AWV.

4/1/2020 - 9/31/2021

1/1/2020 - 12/31/2021

R36HS27139-01A1 (PI: Hamer)

Agency for Healthcare Research and Quality

# The Effects of Expanding Medicare Prevention Coverage on Colorectal and Breast Cancer Burden: A Mixed Methods Study

The goal of my dissertation research is to understand how and to what extent the 2011 Medicare policy changes have affected colorectal and breast cancer detection and mortality for Medicare beneficiaries using a mixed-methods research design.

# PUBLICATIONS

#### Manuscripts Under Review

Hamer MK, DeCamp M, Bradley CJ, Nease D, Perraillon MC. Adoption and Value of the Medicare Annual Wellness Visit: A Mixed-Methods Study. Revise & Resubmit, *Medical Care Research and Review*.

Fish LE, Bendelow T, Gardiner S, Wynia MK, Kwan BM, **Hamer MK**, Ginde AA, Hanratty R. A Multimodal Strategy to Improve Race/Ethnic Group Equity in Administration of Neutralizing Monoclonal Antibody Treatment For COVID-19 Outpatients. Revise & Resubmit, *Journal of Clinical and Translational Science*.

#### **Peer-Reviewed Journal Articles**

- 1. **Hamer MK,** Alasmar A, Kwan BM, Wynia M, Ginde AA, DeCamp MW. Referrals, Access and Equity of Monoclonal Antibodies for Outpatient COVID-19: A Qualitative Study of Clinician Perspectives. *Medicine*. *Medicine*. 2022;101(50):e32191.
- 2. Kwan BM, **Hamer MK**, Bailey A, Cebuhar K, Conry C, Smith PC. Implementation and qualitative evaluation of a primary care redesign model with expanded scope of work for medical assistants. *Journal of General Internal Medicine*. 2022 Jan 7:1-9.

- 3. Morris MA, **Hamer MK**, Eberle K, Jensen K, Wong A. Implementation of Collection of Patients' Disability Status by Centralized Scheduling. *The Joint Commission Journal on Quality and Patient Safety*. 2021;47:627-636.
- 4. **Hamer MK**, Mays GP. Public Health Systems and Social Services: Breadth and Depth of Cross-Sector Collaboration. *American Journal of Public Health*. 2020 Jul;110(S2):S232-4.
- 5. Owsley KM, **Hamer MK**, Mays GP. The Growing Divide in the Composition of Public Health Delivery Systems in US Rural and Urban Communities, 2014–2018. *American Journal of Public Health*. 2020 Jul;110(S2):S204-10.
- Fisher MP, Hamer MK. Qualitative Methods in Health Policy and Systems Research: A Framework for Study Planning. [published online ahead of print, 2020 May 25]. *Qual Health Res*. 2020;1049732320921143. doi:10.1177/1049732320921143
- Vemulakonda V, Kempe A, Hamer MK, Morris MA. Physician Perspectives on Discussions with Parents of Infants with Suspected Ureteropelvic Junction. [published online ahead of print, 2020 Apr 29]. J Pediatr Surg. 2020;S0022-3468(20)30299-2. doi:10.1016/j.jpedsurg.2020.04.016
- 8. Perraillon MC, **Hamer MK**, Welton JM, Myerson RM. Regression Discontinuity Designs. *Nursing Economic*\$. 2020 Mar/Apr;38(2).
- 9. Morrato EH, **Hamer MK**, Sills M, Kwan B, Schilling LM. Applying a Commercialization-Readiness Framework to Optimize Value for Achieving Sustainability of an Electronic Health Data Research Network and Its Data Capabilities: The SAFTINet Experience. *eGEMs*. 2019;7(1). PMID: 31523697 PMCID: PMC6715936
- Vemulakonda VM, Hamer MK, Kempe A, Morris MA. Surgical decision-making in infants with suspected UPJ obstruction: stakeholder perspectives. *Journal of Pediatric Urology*. In press, available online 30-May-2019 <u>https://doi.org/10.1016/j.jpurol.2019.05.027</u>
- Brega AG, Hamer MK, Albright K, Brach C, Saliba D, Abbey D, Gritz RM. Organizational Health Literacy: Quality Measures with Expert Consensus. *Health Lit Res Pract.* 2019 Apr; 3(2): e127–e146. PMID: 31294314 PMCID: PMC6610031
- 12. James KA, Strand M, Hamer MK, Cicutto L. Health Services Utilization in Asthma Exacerbations and PM<sub>10</sub> Levels in Rural Colorado. *Ann Am Thorac Soc.* 2018 Aug;15(8):947-954. PMID: 29979621
- Gdanetz LM, Hamer MK, Thomas E, Tarasenko LM, Horton-Deutsch S, Jones J. Technology, Educator Intention, and Relationships in Virtual Learning Spaces: A Qualitative Metasynthesis. J Nurs Educ. 2018 Apr 1;57(4):197-202. PMID: 29614187
- Kwan BM, Rockwood A, Bandle B, Fernald D, Hamer MK, Capp R. Community Health Workers: Addressing Client Objectives Among Frequent Emergency Department Users. J Public Health Manag Pract. 2018 Mar/Apr;24(2):146-154. PMID: 28141671; PMCID: PMC5794249.
- Kwan BM, Chadha S, Hamer MK, Spagnolo D, Kee S. Mixed Methods Evaluation of a Collaborative Care Implementation Using RE-AIM. *Fam Syst Health*. 2017 Sep;35(3):295-307. Epub 2017 Aug 14. PMID: 28805404.

- Kwan BM, Sills MR, Graham D, Hamer MK, Fairclough DL, Hammermeister KE, Kaiser A, Diaz-Perez MJ, Schilling LM. Stakeholder engagement in a patient-reported outcomes (PRO) measure implementation: a report from the SAFTINet practice-based research network (PBRN). J Am Board Fam Med. January 2016; 29(1):102-115. PMID: 26769882
- Fernald D, Hamer M, James K, Tutt B, West D. Launching a Laboratory Testing Process Quality Improvement Toolkit: From the Shared Networks of Colorado Ambulatory Practices and Partners (SNOCAP). J Am Board Fam Med. 2015 September-October 2015; 28:576-583. PMID: 26355129
- Schilling LM, Kwan BM, Drolshagen CT, Hosokawa PW, Brandt E, Pace WD, Uhrich C, Kamerick M, Bunting A, Payne PRO, Stephens WE, George JM, Vance M, Giacomini K, Braddy J, Green MK, Kahn MG. Scalable Architecture for Federated Translational Inquiries Network (SAFTINet) Technology Infrastructure for a Distributed Data Network. *eGEMs (Generating Evidence & Methods to improve patient outcomes)* 2013;1(1):Article 11. Available from: <u>http://repository.academyhealth.org/egems/vol1/iss1/11</u> PMCID: PMC4371513

### Other Scholarship (not peer-reviewed)

1. **Hamer MK**, Owsley KM, Fish LE. To Start Rebuilding the COVID-19 Safety-Net, Amend the 340B Drug Discount Program. *HealthAffairs Forefront* (formerly Blog), 2022.

#### **CONFERENCE ACTIVITY**

#### Podium/Paper Sessions

- Hamer MK, Reno J, Byers S, Shrader J, Jones J, Ginde AA, Kwan BM. Treatment Intention for COVID-19: The Effect of Combining Messages About Monoclonal Antibodies and Vaccines. Society of Behavioral Medicine 44<sup>th</sup> Annual Meeting & Scientific Sessions. Phoenix, AZ. April 26-29, 2023.
- 2. **Hamer MK**, Lum HD, Reno J (co-presenters). Selecting Engagement Strategies for Rapid Stakeholder Engagement and Dissemination. Colorado Pragmatic Research in Health Conference (COPRHCon). Hybrid: Aurora, CO/Virtual. May 23-25, 2022. *\*Invited session*
- 3. **Hamer MK**, Myerson RM, Bradley CJ, Lindrooth R, Perraillon MC. The Effect of Medicare Prevention Benefit Expansion on Cancer Detection and Mortality. International Health Economics Association (iHEA) World Congress, Virtual, July 12-15, 2021.
- Hamer MK, Myerson RM, Bradley CJ, Lindrooth R, Perraillon MC. The Effect of Medicare Prevention Benefit Expansion on Cancer Detection and Mortality. American Society for Health Economists (ASHEcon) 10<sup>th</sup> Annual Conference, Virtual, June 21-23, 2021.
- Hamer MK, DeCamp M, Nease D, Perraillon MC. Adoption and Value of the Medicare Annual Wellness Visit: A Primary Care Perspective. Association for Public Policy Analysis & Management (APPAM) 2021 Student Research Online Seminar Series, Virtual, May 5, 2021.
- Hamer MK, Myerson RM, Bradley CJ, Lindrooth R, Perraillon MC. The Effects of Expanding Medicare Prevention Coverage on Colorectal and Breast Cancer Detection and Mortality. American Society for Health Economists (ASHEcon) 9<sup>th</sup> Annual Conference, St. Louis, MO, June 7-10, 2020. *\*Canceled due to COVID-19*

- 7. **Hamer MK**, Smith PC, Cebuhar K, Kwan BM. Multi-Method Evaluation of the Primary Care Redesign (PCR) Model: Practice Context, Care Team Experience, and Patient Satisfaction. 2019 NAPCRG Annual Meeting, Toronto, Ontario, Canada, November 16-20, 2019.
- 8. Smith PC, Cebuhar K, **Hamer MK**, Kwan BM (co-presenters). Extreme Makeover: Ambulatory Practice Edition. Achieving the Quadruple Aim through Transformational Practice Redesign. Engaging Communities in Education and Research (ECER) Biennial Conference, Breckenridge, CO, September 21-23, 2018.
- Gdanetz L, Hamer MK, Thomas E, Tarasenko LM, Horton-Deutsch S, Jones J. A Qualitative Meta-Synthesis: Technology, Educator Intention, and Relationships in Virtual Learning Spaces. 38<sup>th</sup> International Association for Human Caring (IAHC) Conference, Edmonton, Alberta, Canada, May 31-June 2, 2017.
- 10. **Hamer MK**, Smith PC, Ford KL, Bailey A, Kwan BM. Physician and staff perspectives on key outcomes of a primary care redesign model: Qualitative findings from a mixed-methods evaluation. 2016 NAPCRG Annual Meeting, Colorado Springs, CO, November 12-16, 2016.
- 11. Hamer MK, Smith PC, Ford KL, Bailey A, Kwan BM. Implementation lessons from a primary care practice redesign model: A qualitative study of physician and staff perspectives. 2016 NAPCRG Annual Meeting, Colorado Springs, CO, November 12-16, 2016.
- 12. Kwan BM, **Hamer MK**, Fernald D, Gritz M, Bandle B, Gritz RM. Participatory evaluation and quality improvement of the HealthiER community health worker program. AcademyHealth Annual Research Meeting, Boston, MA, June 26-28, 2016.

## Discussant

1. American Society of Health Economists (ASHEcon) Annual Conference. June 21, 2021.

# **Poster Presentations**

- 1. **Hamer MK**. The effect of Medicare Annual Wellness Visits on breast cancer screening and diagnosis. Colorado School of Public Health Research Exchange Day, September 24, 2022. \*Best Student Poster Award Winner
- 2. **Hamer MK**, DeCamp M, Nease D, Perraillon MC. Adoption and Value of the Medicare Annual Wellness Visit: A Primary Care Perspective. AcademyHealth Annual Research Meeting, Virtual, June 14-17, 2021.
- 3. Hamer MK, Myerson RM, Bradley CJ, Lindrooth R, Perraillon MC. The Effect of Medicare Prevention Benefit Expansion on Cancer Detection and Mortality. University of Colorado 35<sup>th</sup> Annual Student Research Forum, January 2021. \**Top Student Poster Award Winner*
- 4. **Hamer MK**, Myerson RM, Bradley CJ, Lindrooth R, Perraillon MC. The Effects of Expanding Medicare Prevention Coverage on Colorectal Cancer Detection and Mortality. AcademyHealth Annual Research Meeting, Virtual, July 28-August 6, 2020. \**Best Student Poster Nominee*
- 5. **Hamer MK**, Mays GP. Public Health Systems and the Social Services Sector: Assessing the Breadth and Depth of Cross-Sector Collaboration. AcademyHealth Annual Research Meeting, Virtual, July 28-August 6, 2020.

- 6. Fisher MP, **Hamer MK**. Qualitative Methods in Health Policy and Systems Research: A Conceptual Framework. AcademyHealth Annual Research Meeting, Washington, DC, June 2-4, 2019.
- Kwan BM, Hamer MK, Gurfinkel D, Rementer J, Glasgow R, Dickinson ML, Gritz RM, Waxmonsky J. Invested in Diabetes: Contextual Characteristics of Practices in a Cluster Randomized, Pragmatic Trial Comparing Models of Diabetes Shared Medical Appointments. AcademyHealth Annual Research Meeting, Washington, DC, June 2-4, 2019.
- 8. Marzec LN, **Hamer MK**, Meyer M, Morris MA, Gritz RM, Allen LA. The Feasibility, Safety, and Value of a Virtual Cardiac Implantable Electronic Device Wound Check: A Mixed Methods Pilot Study. AcademyHealth Annual Research Meeting, Washington, DC, June 2-4, 2019.
- Marzec LN, Hamer MK, Morris MA, Meyer M, Gritz RM, Marlock D, Ho PM, Guigli R, Baringer C, Sandy L, Allen LA. Assessing Patient Perceptions of Value of a Virtual Cardiac Implantable Electronic Device Wound Check: A Mixed-Methods Pilot Study. American Heart Association, Scientific Sessions 2018, Chicago, IL, November 10-12, 2018.
- 10. **Hamer MK**, Smith PC, Bailey A, Cebuhar K, Kwan BM. Characterizing Fidelity and Adaptations to a Primary Care Redesign Model. AcademyHealth Annual Research Meeting, Seattle, WA, June 24-26, 2018.
- Hamer MK, Ruland S, Ford KL, Mullen R, Smith PC, Bailey A, Kwan BM. Implementing the Primary Care Redesign Model to Improve Preventive Care Service Utilization and Chronic Disease Management: A Difference-in-Differences Estimation. AcademyHealth Annual Research Meeting, Seattle, WA, June 24-26, 2018.
- 12. **Hamer MK**, Kwan BM, Bandle B, Rockwood A, Capp R, Gritz RM. Effects of a Community Health Worker Program on Cost and Utilization Among Frequent Emergency Department Users. AcademyHealth Annual Research Meeting, Seattle, WA, June 24-26, 2018.
- 13. Vemulakonda V, **Hamer MK**, Kempe A, Morris MA. Parent and Surgeon Perspectives on Their Roles in Treatment Decisions for Infants with High-Grade Hydronephrosis. AcademyHealth Annual Research Meeting, Seattle, WA, June 24-26, 2018.
- 14. Vemulakonda V, **Hamer MK**, Kempe A, Morris MA. Physician-Reported Factors in Treatment Decisions for Infants with Suspected Ureteropelvic Junction Obstruction. AcademyHealth Annual Research Meeting, Seattle, WA, June 24-26, 2018.
- 15. Brach C, Brega AG, **Hamer MK**, Albright K, Saliba D, Abbey D, Cruse P, Gritz RM. Recommended Organizational Health Literacy Measurement Set: A Resource for Evaluating and Informing Quality Improvement Initiatives. AcademyHealth Annual Research Meeting, Seattle, WA, June 24-26, 2018.
- 16. Kwan BM, Hamer MK, Ford KL, Cebuhar K, Bailey A, Smith PC. Implementation Outcomes Measures for System-Level Interventions: What a Learning Healthcare System Needs. AcademyHealth 10<sup>th</sup> Annual Conference on the Science of Dissemination and Implementation in Health, Arlington, VA, December 4-6, 2017.

- 17. Gritz RM, **Hamer MK**, Meyer ML, Sevick C, Zerzan J. The impact of increased Medicaid payments for primary care services on access to care for Medicaid clients in Colorado. AcademyHealth Annual Research Meeting, Boston, MA, June 26-28, 2016.
- 18. **Hamer MK**, Bandle B, Kwan BM, Rockwood A, Capp R. Comparing two settings for recruitment into a community health worker program to address frequent emergency department utilization. AcademyHealth Annual Research Meeting, Boston, MA, June 26-28, 2016.
- 19. Kwan BM, **Hamer MK**, Fernald D, Gritz M, Bandle B, Gritz RM. Participatory evaluation and quality improvement of the HealthiER community health worker program. AcademyHealth Annual Research Meeting, Boston, MA, June 26-28, 2016.
- 20. Fox D, **Hamer MK**, Holtrop JS, Lewis C, Jones J, Kempe A. Decision making about gastrostomy tubes from the physician perspective: A qualitative assessment. Pediatric Academic Societies (PAS) 2016 Meeting, Baltimore, MD, April 29-May 3, 2016.
- 21. Kwan BM, Fernald D, Nease D, **Hamer M**, Gritz M, Capp R. Implementation and Sustainability of a Community Health Worker Program to Address Frequent Emergency Department Utilization. AcademyHealth Annual Research Meeting, Minneapolis, MN, June 14-16, 2015.
- 22. Capp R, Nease D, Kwan B, **Hamer M**. A New Way to Identify Subgroups of Frequent Emergency Department Users. AcademyHealth Annual Research Meeting, Minneapolis, MN, June 14-16, 2015.
- 23. Kwan BM, Miller BF, Sills MR, **Hamer MK**, Schilling LM. Collaborative care models for management of mental and behavioral health concerns in Federally Qualified Health Centers. Society of Behavioral Medicine 35<sup>th</sup> Annual Meeting & Scientific Sessions, Philadelphia, PA, April 23-26, 2014.
- 24. Sills MR, Kwan BM, Fairclough D, Beaty B, **Green MK**, Schilling LM. Practice-level correlates of patientcentered medical home characteristics in the Scalable Architecture for Federated Translational Inquiries Network (SAFTINet). AcademyHealth Annual Research Meeting, Baltimore, MD, June 23-25, 2013.
- 25. Morrato EH, Dibert E, **Green M**, Tien A, Jones E. Linking Drug Prescriber Behaviors to Peer Influence Networks. International Network for Social Network Analysis Sunbelt XXXII, Redondo Beach, CA, March 12-18, 2012.

# **HONORS & AWARDS**

- Top Student Poster Award Winner, Colorado School of Public Health Research Exchange for "The effect of Medicare Annual Wellness Visits on breast cancer screening and diagnosis," September 2022
- Delta Omega Public Health Honor Society inductee, August 2022
- Award winner, University of Colorado 35th Annual Student Research Forum for "The Effect of Medicare Prevention Benefit Expansion on Cancer Detection and Mortality," January 2021
- Best Student Poster Nominee, AcademyHealth Annual Research Meeting (Virtual), July 2020
- Mim Orleans Research Support Scholarship recipient, Colorado School of Public Health, 2019, 2020 (x2)
- Finalist, Distinguished Paper (top 5% of all submissions) to the North American Primary Care Research Group (NAPCRG) annual meeting, November 2016, for "Physician and Staff Perspectives on Key Outcomes of a Primary Care Practice Redesign Model: Qualitative Findings from a Mixed-Methods Evaluation"

- American Public Health Association Conference Student Scholarship recipient, Colorado School of Public Health, October 2016
- John R. Moran, Jr. MPH Scholarship recipient for academic and leadership excellence, Colorado School of Public Health 2012-2013
- Symposium U Conference Scholar, Colorado Health Foundation, August 2013

#### **LEADERSHIP & SERVICE**

2022-2023	Tufts University Community Health Community Health Mentorship Program (CHAMP), Mentor	
2022-2023	University of Colorado WiSTEM (Women in STEM) Mentorship Program, Mentee	
2020- 2021	Peer mentor and co-founder, PhD student peer-to-peer mentoring program	
AcademyHealth Student Chapter   University of Colorado Anschutz Medical Campus		
2019 – 2020	) Vice President for Membership Activities	

2017 – 2019	President
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2016 – 2017 Vice President for Recruitment

Journal Reviewer, ad hoc

Cochrane Public Health Frontiers in Public Health Qualitative Health Research

#### **Conference Reviewer**

Public Health in the Rockies Annual Conference (2021) AcademyHealth Annual Research Meeting, Medicare theme (2020) American Society of Health Economists Annual Conference (2020 – present) North American Primary Care Research Group (NAPCRG) Annual Meeting (2019 – present) American Public Health Association Annual Meeting and Expo, Medical care section (2018 – present)

#### **Other Peer-Review Activities**

University of Colorado 37th Annual Student Research Forum faculty judge (2023) Robert Wood Johnson Foundation Systems 4 Action annual call for proposals (2019)

#### **PROFESSIONAL MEMBERSHIPS**

- 2021 present Member, International Health Economics Association
- 2019 present Member, American Society of Health Economists
- 2016 present Member, North American Primary Care Research Group
- 2016 present Member, American Public Health Association
- 2014 present Member, AcademyHealth

# **TEACHING RECORD**

Student/Alumni panel: Crafting a Successful Dissertation In HSMP 7601: Research Design & Proposal Preparation Colorado School of Public Health			
nics		Spring 2021	
		Spring 2020	
h Systems and Policy		Fall 2018, Spring 2020	
itative Research Methods ce Workgroup, ACCORDS		Spring 2018	
ows ACCORDS)	N	Fall 2018	
"Mixed Methods Research Designs" In CBHS 6622: Qualitative Research Methods Colorado School of Public Health		Fall 2018	
Stata(Adv), SAS(Int), R/RStudio(Int), Excel (programming and modeling)(Int)			
ATLAS.ti(Adv)			
Endnote(Adv), ReferenceMa	nager(Adv)		
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al Sciences Institute (CCTSI)	Aurora, CO	September 16, 2019	
	Boulder, CO	May 30, 2019	
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Multilevel/Mixed Models using Stata Stata Corp.	Austin, TX	March 14-15, 2019
Designing for Dissemination (D4D) Workshop: Bridging Science & Practice of Designing for Dissemination: Going from Unicorns to Workhorses University of Colorado, Anschutz Medical Campus	Aurora, CO	October 2-3, 2018
Research Designs for Causal Inference, Main Workshop Northwestern University Pritzker School of Law	Chicago, IL	June 18-22, 2018
Getting Dissemination & Implementation Ideas Funded: An Interactive Pragmatic Workshop University of Colorado, Anschutz Medical Campus	Aurora, CO	June 21-22, 2017