

JONAH H. POPP

Center for Evidence Synthesis in Health
Department of Health Services, Policy and Practice
Brown University School of Public Health

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ACADEMIC POSITIONS

2018-2022 *Investigator in Health Services, Policy and Practice*, Department of Health Services,
Policy and Practice, School of Public Health, Brown University

EDUCATION

2018 <i>PhD, Health Services Research, Policy, & Administration</i> Area of Emphasis: Health Decision Sciences Advisor: Professor Karen M. Kuntz Dissertation: "A modeling-based evaluation of the evidential basis for and cost effectiveness of intensive post-diagnosis extra-colonic surveillance of non-metastatic colorectal cancer patients"	University of Minnesota School of Public Health
2015 <i>MS, Biostatistics</i>	University of Minnesota
2008 <i>MA, Philosophy (Distinction)</i>	University of Leeds, UK
2006 <i>AB, Philosophy (High Honors)</i>	Bowdoin College, ME

POSTDOCTORAL TRAINING

2018-2022 Center for Evidence Synthesis in Health, Brown University
Supervisor: Dr. Thomas Trikalinos

AWARDS & HONORS

2018-20 Rhode Island Wavemaker Fellow
2017 Finalist for Lee B. Lusted Student Prize in Quantitative Methods, SMDM
2017 Finalist for Lee B. Lusted Student Prize in Applied Health Economics, SMDM
2009-12 University of MN Graduate School Fellowship (3 years funding)
2007-8 School of Philosophy Postgraduate Studentship, University of Leeds
2007-8 Tetley & Lupton Scholarship, University of Leeds
2006-7 Fulbright Teaching Assistantship
2006 Magna Cum Laude, Bowdoin College
2006 Phi Beta Kappa, Bowdoin College
2006 Philip W. Cummings Philosophy Prize Winner, Bowdoin College

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS & SOCIETYS

2015 – Society for Medical Decision Making (SMDM)
2019 – International Society for Pharmacoeconomics and Outcomes Research (ISPOR)

RESEARCH INTERESTS

- Mathematical Modeling of Cancer and Continuum of Care
- Mathematical Modeling of Infectious Diseases
- Cost-Effectiveness Research
- Value of Information Analysis
- Colorectal Cancer Survivorship

RESEARCH EXPERIENCE

- 2015-2017 *Research Assistant, Office of Nursing Research, School of Nursing* University of MN
Perform statistical analyses for School of Nursing faculty research projects and nursing students' final projects. For faculty projects, perform data cleaning and data preparation with SAS, conduct statistical analyses, construct graphical and tabular presentations of results, and provide assistance with interpretation of results. For nursing student projects, consult on research design and select appropriate statistical analyses to answer student research questions. Perform power analyses and data analyses, and write up results.
Employer: Olga Gurvich, Lead Statistician of Office of Nursing Research
- 2014-2017 *Research Assistant, MN Evidence-Based Practice Center* University of MN
Assist in systematic review and meta-analysis of comparative effectiveness of pharmaceutical treatments for bipolar disorder. Duties involve (i) assessment of RCT design quality, (ii) abstraction of study design features and outcomes from included RCT's, (iii) performance of meta-analytic statistical analyses and (iv) drafting of manuscript for publication.
PI & Employer: Professor Mary Butler
- 2013-2015 *Research Assistant, Virtual vs Optical Colonoscopy Trial, Modeling Group* University of MN
Developed a discrete-event microsimulation model of the natural history process of colorectal cancer recurrence with overlain follow-up in R software to extrapolate trial results comparing the efficacy of CT Colonography and Optical Colonoscopy for the detection of metachronous adenomas at one-year post surgery.
Employer: Professor Karen Kuntz.
Trial sponsored by Fox Chase Cancer Center.
- 2013 *Research Assistant, Quit & Win RCT Cost-effectiveness Analysis* University of MN
Conducted a cost-effectiveness analysis of Extensions of the Quit and Win Contest for undergraduate students using data from a national RCT
PI: Dr. Janet Thomas, University of Minnesota, Department of Medicine
Employer: Professor John Nyman
- 2010 *Research Assistant, Systematic Literature Review* University of MN
Participated in a systematic literature review of systematic reviews of comparative effectiveness which incorporate decision models.
Employer: Professor Karen Kuntz

TEACHING EXPERIENCE

2015-2016 Masters in Public Health Thesis Class (Teaching Fellow), University of MN
2015 Intro to Biostatistics for Masters Students (Tutor), University of MN
2013 Biostatistical Modeling and Methods (Tutor), University of MN
2012 Fundamentals of Biostatistical Inference (Tutor), University of MN
2012 Cost-Effectiveness Analysis in Health Care (TA), University of MN
2006-7 ESL Teacher in Private High School in South Korea (Fulbright Program)

PEER-REVIEWED JOURNAL PUBLICATIONS

Popp J., Weinberg DS., Enns E., Nyman J., et al. Reevaluating the Evidence for Intensive Post-Operative Extracolonic Surveillance for Non-metastatic Colorectal Cancer. *Value in Health*, 2022, 25(1): 36-46. DOI: 10.1016/j.jval.2021.07.017 PMID: 35031098

Jutkowitz E., Pizzi LT., **Popp J.**, Prioli BA., et al.. A Longitudinal Evaluation of Family Caregivers' Willingness to Pay for an In-home Nonpharmacologic Intervention for People Living with Dementia: Results from a Randomized Trial. *International Psychogeriatrics*, 2021, Mar 24:1-10. DOI: 10.1017/S1041610221000089 PMID: 33757615

Kuntz KM., **Popp J.**, Beck JR., Zauber AG., et al. Cost-Effectiveness of Surveillance With Computed Tomographic Colonography After Colorectal Cancer Resection. *BMJ Open Gastroenterology*, 2020, 7(1). DOI: 10.1136/bmjgast-2020-000450 PMID: 32933928

Beck JR., Ross E., Kuntz KM., **Popp J.**, et al. Yield and Cost-effectiveness of Computed Tomography Colonography vs Colonoscopy for Post Colorectal Cancer Surveillance. *Medical Decision Making Policy and Practice*, 2018, 3(2). DOI: 10.1177/2381468318810515

Popp J., Nyman J., Luo X., Bengtson J., et al. Cost-Effectiveness of Enhancing a Quit and Win Smoking Cessation Program for College Students. *European Journal of Health Economics*, 2018, v. 19(9): 1319 DOI: 10.1007/s10198-018-0977-z PMID: 29687268

PEER-REVIEWED GOVERNMENT REPORTS

Steele D., Becker S., Danko K., ... **Popp J.**, Trikalinos T. Interventions for Substance Use Disorders in Adolescents: A Systematic Review. AHRQ Publication No. EHC-2018-12-0021.R6. Agency for Healthcare Research and Quality (US), 2020 PMID: 32479039

Butler M., Urosevic S., Desai P., Sponheim S., **Popp J.**, et al. Treatment for Bipolar Disorder in Adults: A Systematic Review. AHRQ Publication No. 18-EHC012-EF. Agency for Healthcare Research and Quality (US), 2018. PMID: 30329241

MANUSCRIPTS IN FINAL STAGES OF PREPARATION

Popp J., Jutkowitz E., and Trikalinos T. Aducanumab for Alzheimer's Disease: What Should CMS Do? 2021

Popp J. A Meta-regression Analysis of Intensive Post-Operative Extracolonic Surveillance for Non-metastatic Colorectal Cancer. 2020

MANUSCRIPTS IN PREPARATION

Popp J., Triakalinos T. A Modeling Based Evaluation of the Public Health Impact of the Johnson & Johnson COVID-19 Vaccine Pause. 2021

Popp J., Weinberg DS., Enns E., Nyman J., Beck JR., et al. Validation of a Microsimulation Model of Colorectal Cancer Recurrence, Surveillance, Treatment, and Mortality. 2019.

Popp J., Nyman J., Enns E., Weinberg DS., Beck JR., et al. The Cost-Effectiveness of Intensive Post-diagnosis Extracolonic Surveillance for Stage I-III Colorectal Cancer Patients. 2019.

Popp J. and Kuntz K. A Value of Information Analysis for a Trial Evaluating Salvage Surgery for Recurrent Colorectal Cancer. 2019

CONFERENCE PRESENTATIONS

“A Value of Information Analysis for a Trial Evaluating Salvage Surgery for Recurrent Colorectal Cancer”

- Conference of the Society for Medical Decision Making, Portland 2019

“An Assessment of the Influence of Missing Data on the Cost-Utility of an Enhanced Quit and Win Contest in an Undergraduate Setting”

- Conference of the International Society for Pharmacoeconomics and Outcomes Research, New Orleans 2019

“The Cost-Effectiveness of Extracolonic Surveillance for Stage II/III Colorectal Cancer”

- Conference of the Society for Medical Decision Making, Montreal 2018

“How to not ignore non-ignorable missing data in a health economic analysis done alongside a randomized control trial with a repeated-measures design”

- Conference of the Society for Medical Decision Making, Pittsburgh 2017
- Semifinalist for Lee B. Lusted Student Prize in Quantitative Methods

“Should we throw in the towel on intensive imaging surveillance following curative resection for colorectal cancer?”

- Conference of the Society for Medical Decision Making, Pittsburgh 2017
- Semifinalist for Lee B. Lusted Student Prize in Applied Health Economics

“Examining optimal surveillance strategies for patients treated with curative resection for state II or III colorectal cancer”

- European Conference of the Society for Medical Decision Making, London 2016

INVITED PRESENTATIONS

“Data-Driven Local Modeling of the COVID-19 Epidemic to Inform State-Level Policy.”

- *Love Data Week* (OVPR and Brown University Library)

JOURNAL REVIEW

- Statistics in Medicine

- Value in Health
- BMC Medical Research Methodology

ONGOING RESEARCH SUPPORT

Rhode Island Department of Health Trikalinos (PI) 06/19/2021–06/30/2022
 Assistantship and Faculty Services ‘Modeling for SARS-CoV-2 (COVID-19) in RI’
 The goal of the modeling effort is to monitor the current status of the epidemic in RI.
 Role: Co-Investigator

1U01CA265750-01 Trikalinos & Jalal (PI) 09/15/2021-08/31/2026
 Population Modeling of Bladder Cancer Detection and Control
 This project will complete the development, calibration and validation of two independent population models of bladder cancer, and will address major questions in the surveillance, treatment, prevention, and diagnosis of bladder cancer by means of comparative mathematical modeling.
 Role: Co-Investigator

1U01DA050442-01 Martin, Brinkley-Rubinstein, & Rohsenow (PI) 08/01/2019-04/30/2024
 Using Implementation Interventions and Peer Recovery Support to Improve Opioid Treatment Outcomes in Community Supervision.
 The goal of this project is to evaluate the impact, effectiveness, and cost-effectiveness of supplementing medication for opioid use disorder with a peer support program for justice-involved individuals on probation/parole.
 Role: Co-Investigator

COMPLETED RESEARCH SUPPORT

Rhode Island Department of Health Trikalinos & Popp (Co-PI) 12/19/2020 –06/18/2021
 Assistantship and Faculty Services ‘Modeling for SARS-CoV-2 (COVID-19) in RI’
 The goal of the modeling effort is to monitor the current status of the epidemic in RI and the short-term impact of progressive relaxations of government policies.
 Role: Co-PI

Rhode Island Department of Health Trikalinos (PI) 05/19/2020 –12/18/2020
 Assistantship and Faculty Services ‘Modeling for SARS-CoV-2 (COVID-19) in RI’
 The goal of the modeling effort is to monitor the current status of the epidemic in RI and the short-term impact of progressive relaxations of government policies.
 Role: Co-Investigator

75Q80120D00001-75Q80120F32002- TO 02 Danko (PI) 02/14/2020 – 05/01/2021
 Sponsoring Agency: Agency for Healthcare Research and Quality (AHRQ)
 Prehabilitation and Rehabilitation for Major Joint Replacement Surgery
 The purpose of this Task Order is to conduct a topic refinement and a medium systematic review on Prehabilitation and Rehabilitation for Major Joint Replacement Surgery.
 Role: Research Associate

75Q80120D00001-75Q80120F32001- TO 01 Saldanha (PI) 02/07/2020 – 04/24/2021
 Sponsoring Agency: Agency for Healthcare Research and Quality (AHRQ)
 Breast Reconstruction after Mastectomy
 The purpose of this Task Order is to conduct a topic refinement and a large systematic review on breast reconstruction after mastectomy.

Role: Research Associate

1K12 HS22998-01

Trikalinos (PI)

08/1/2014 – 07/31/2019

Develop Patient Centered Outcomes Scholars for Comparative Effectiveness Research

The purpose of this program is to recruit a total of 10 to 12 scholars and guide their career development as patient-centered outcomes researchers trained in CER methods. A team of 32 program mentors (11 Primary Mentors and 21 Supplemental Mentors [defined in Section B]), will provide this guidance. Discussed here are: A) Program Administration, B) Program Faculty, C) Proposed Training, D) Training Program Evaluation, E) Trainee Candidates, and F) Institutional Environment and Commitment to Training.

Role: K12 Scholar