

VILIJA R. JOYCE

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EDUCATION

Stanford University

MS, Health Services Research

School of Medicine, Department of Health Research and Policy

Thesis: *Preference-based Assessments of Quality of Life in a Randomized Trial of Antiretroviral Therapy in Advanced HIV Disease*

Advisor: Douglas K. Owens, MD, MS

Sep 2004 - Sep 2006

University of California, Los Angeles

BA, Economics/International Area Studies

Minor in Health Policy Studies

College of Letters & Science, Department of Economics

Thesis: *Income Distribution and Health Status: New Directions*

Advisors: Trudy Ann Cameron, Ph.D. and Carlos A. Végh, Ph.D.

Sep 1997- Mar 2001

RESEARCH & PROFESSIONAL EXPERIENCE

VA Health Economics Resource Center (HERC), Menlo Park, CA

VA Palo Alto Healthcare System

Associate Director (Jan 2021-Present)

Research Associate (Sep 2006-Present)

Research Assistant (Jul 2002-Sep 2006)

Jul 2002 - Present

Division of General Internal Medicine, Los Angeles, CA

VA Greater Los Angeles Healthcare System

Program Support Assistant (Steven Asch, MD, MPH – PI)

Sep 2000 – Mar 2002

Department of Economics, Los Angeles, CA

University of California, Los Angeles

Research Assistant (Trudy Ann Cameron, PhD – PI)

May 1999 – Aug 2000

PEER-REVIEWED PUBLICATIONS

Katon J, Shaw JG, **Joyce VR**, Schmitt SK, Phibbs CS. Timeliness and adequacy of prenatal care among Veterans Affairs-enrolled Veterans: The first step may be the biggest hurdle. *Women's Health Issues* 2021; 32(4):411-417.

Fairley M, Humphreys K, **Joyce VR**, Bounthavong M, Trafton J, Combs A, Oliva EM, Goldhaber-Fiebert JD, Asch SM, Brandeau ML, Owens DK. Cost-Effectiveness of Treatments for Opioid Use Disorder: A Model-Based Analysis. *JAMA Psychiatry* 2021; 78(7):767-777.

Breland JY, **Joyce VR**, Frayne SM, Phibbs C. Differences in Body Mass Index based on Self-Reported versus Measured Data from Women Veterans. *Obesity Science & Practice* 2020; 6:434-438.

Desai M, Montez-Rath ME, Kapphahn K, **Joyce VR**, Mathur MB, Garcia A, Purington N, Owens DK. Missing data strategies for time--varying confounders in comparative effectiveness studies of non--missing time--varying exposures and right--censored outcomes. *Statistics in Medicine* 2019; 38(17):3204-3220.

Shaw JG, **Joyce VR**, Schmitt SK, Frayne SM, Shaw KA, Danielsen B, Kimerling R, Asch SM, Phibbs CS. Selection of Higher Risk Pregnancies into Veterans Health Administration Programs: Discoveries from Linked Department of Veterans Affairs and California Birth Data. *Health Services Research* 2018; 53(Suppl 3):5260-5284.

Barnett PG, **Joyce VR**, Lo J, Gidwani-Marszowski R, Goldhaber-Fiebert JD, Desai M, Asch SM, Holodniy M, Owens DK. The effect of interferon-free regimens on disparities in hepatitis C treatment of U.S. veterans. *Value in Health* 2018; 219(8):921-930.

Gidwani RA, Needleman J, Mor V, Faricy-Anderson K, Boothroyd DB, Hsin G, Wagner T, Lorenz K, Patel M, **Joyce VR**, Murrell SS, Ramchandran K, Asch SM. The Quality of End-of-Life Care is Higher in VA than in Medicare: An Evaluation of a Dually-Eligible Population. *Health Affairs* 2018; 37(1):95-103.

Joyce VR, Sun H, Barnett PG, Bansback N, Griffin SC, Bayoumi AM, Anis AH, Sculpher M, Cameron W, Brown ST, Holodniy M, Owens DK. Mapping MOS-HIV to HUI3 and EQ-5D-3L in Patients with HIV. *MDM Policy & Practice* 2017; 2(2):1-13.

Liu S, Barnett P, Holodniy M, Lo J, **Joyce V**, Gidwani R, Asch S, Owens D, Goldhaber-Fiebert J. Cost-Effectiveness of Treatments for Genotype 1 Hepatitis C Virus Infection in non-VA and VA Populations. *MDM Policy & Practice* 2016; 1(1):1-12.

Desai M, **Joyce V**, Bendavid E, Olshen RA, Hlatky M, Chow A, Barnett P, Owens DK. Risk of Cardiovascular Events Associated with Current Exposure to HIV Antiretroviral Therapies in a US Veteran Population. *Clin Infect Dis* 2015; 61(3):445-452.

Sinnott PL, **Joyce V**, Su P, Ottomanelli L, Goetz LL, Wagner TH. Cost effectiveness of Supported Employment for Veterans with Spinal Cord Injuries Archives of Physical Medicine and Rehabilitation. *Arch Phys Med Rehabil* 2014; 95(7):1254-61.

Barnett PG, Chow A, **Joyce VR**, Bayoumi AM, Griffin SC, Sun H, Holodniy M, Brown ST, Cameron DW, Sculpher M, Youle M, Anis AH, Owens DK. Effect of Management Strategies and Clinical Status on Costs of Care for Advanced HIV. *Am J Managed Care* 2014; 20(5):e129-e137.

Bayoumi AM, Barnett PG, **Joyce VR**, Griffin SC, Sun H, Bansback NJ, Holodniy M, Sanders G, Brown ST, Kyriakides TC, Angus B, Cameron DW, Anis AH, Sculpher M, Owens DK. Cost-effectiveness of Newer Antiretroviral Drugs in Treatment-Experienced Patients with Multi-drug Resistant HIV Disease. *J Acquir Immune Defic Syndr* 2013; 64:382-391.

Joyce VR, Smith MW, Johansen KL, Unruh ML, Siroka AM, O'Connor TZ, Palevsky PM. Health-Related Quality of Life as a Predictor of Mortality Among Survivors of Acute Kidney Injury. *Clin J Am Soc Nephrol* 2012; 7(7):1063-1070.

Joyce VR, Barnett PG, Chow A, Bayoumi AM, Griffin SC, Sun H, Holodniy M, Brown ST, Kyriakides TC, Cameron DW, Youle M, Sculpher M, Anis AH, Owens DK. Effect of treatment interruption and intensification of antiretroviral therapy on health-related quality of life in patients with advanced HIV: A randomized, controlled trial. *Med Decis Making* 2012; 32(1):70-82.

Barnett PG, Chow A, **Joyce VR**, Bayoumi AM, Griffin SC, Nosyk B, Holodniy M, Brown ST, Sculpher M, Anis AH, Owens DK. Determinants of the cost of health services used by Veterans with HIV. *Med Care* 2011; 49(9): 848-856.

Nosyk B, Sun H, Bansback N, Guh DP, Li X, Barnett P, Bayoumi A, Griffin S, **Joyce V**, Holodniy M, Owens DK, Anis AH. The concurrent validity and responsiveness of the health utilities index (HUI 3) among patients with advanced HIV/AIDS. *Qual Life Res* 2009; 18(7):815-24.

Anis AH, Nosyk B, Sun H, Guh DP, Bansback N, Li X, Barnett PG, **Joyce V**, Swanson KM, Kyriakides TC, Holodniy M, Cameron DW, Brown ST; for the OPTIMA Team. Quality of Life of Patients With Advanced HIV/AIDS: Measuring the Impact of Both AIDS-Defining Events and Non-AIDS Serious Adverse Events. *J Acquir Immune Defic Syndr* 2009; 51(5):631-9.

Joyce VR, Barnett PG, Bayoumi AM, Griffin SC, Kyriakides TC, Yu W, Sundaram V, Holodniy M, Brown ST, Cameron W, Youle M, Sculpher M, Anis AH, Owens DK. Health-Related Quality of Life in a Randomized Trial of Antiretroviral Therapy for Advanced HIV Disease. *J Acquir Immune Defic Syndr* 2009; 50(1):27-36.

WORKING PAPERS

McElfresh D, Chen L, Oliva EM, **Joyce VR**, Rose S, Tamang S. A Call for Better Validation of Opioid Overdose Risk Algorithms. *Under review at Journal of the American Medical Informatics Association* 2023.

Joyce VR, Oliva EM, Garcia CC, Trafton J, Asch SM, Wagner TH, Humphreys K, Owens DK, Bounthavong M. Healthcare costs and utilization before and after opioid overdose in patients with opioid use disorder. *Under review after revise and resubmit at Addiction* 2023.

REPORTS

Sinnott PL, **Joyce VR**, Barnett PG. Preference Measurement in Economic Analysis. Guidebook. Menlo Park CA. VA Palo Alto Healthcare System, Health Economics Resource Center; 2007.

PRESENTATIONS & ABSTRACTS

Joyce VR, Oliva EM, Garcia CC, Trafton J, Asch SM, Wagner TH, Humphreys K, Owens DK, Bounthavong M. Healthcare costs and utilization before and after opioid overdose in patients with opioid use disorder, February 10, 2023 for the HSR&D/QUERI National Conference, Baltimore, MD [oral presentation].

Panelli DM, Esmacili A, **Joyce V**, Chan C, Gujral K, Schmitt S, Murphy N, Kimerling R, Leonard SA, Shaw JG, Phibbs CS. Impact of psychiatric conditions on the risk of severe maternal morbidity in Veterans. Poster at the 43rd Annual Society for Maternal-Fetal Medicine Meeting, San Francisco CA. Abstract 710; Feb 6-11 2023 [analyzed data for poster presentation].

“VA Laboratory Data”, September-October 2015-2022 for the VA Data Bootcamp, Menlo Park, CA [oral presentation].

“Simulating real-world data with time-varying variables”, February 16, 2018 at the American Statistical Association’s Conference on Statistical Practice, Portland, OR [analyzed data for poster presentation].

“Cost Data: Three Lessons from a Study on Hepatitis C Treatments and their Budgetary Impact”, April 28, 2017 at HealthAcademy’s Health Datapalooza, Washington, DC [oral presentation, panel member, booth volunteer].

"Multiple Imputation" November 2, 2016 at HERC's monthly staff meeting, Menlo Park, CA [oral presentation].

“Predicting the HUI3 and EQ-5D from the MOS-HIV in Patients with Advanced HIV,” October 20, 2015 at the Society for Medical Decision Making Annual Meeting, St. Louis, MO [oral presentation].

“Modeling Health-Related Quality of Life over Time,” January 11, 2012 for the HERC CyberCourse “Conducting Cost-Effectiveness Analyses with VA Data,” Menlo Park, CA [oral presentation].

“Modeling Utilities over Time,” April 28, 2010 for the HERC CyberCourse “Conducting Cost-Effectiveness Analyses with VA Data,” Menlo Park, CA [oral presentation].

“Impact of Treatment Interruptions and Mega-ART on Health-Related Quality of Life in the OPTIMA Trial,” October 19, 2009 at the Society for Medical Decision Making Annual Meeting, Los Angeles, CA [poster presentation].

Joyce VR, Barnett PG, Bayoumi AM, Griffin SC, Holodniy M, Sun H, Brown ST, Cameron DW, Sculpher M, Youle M, Anis AH, Owens DK. Impact of Treatment Interruptions and Mega-ART on Health-Related Quality of Life in the OPTIMA Trial. *Can J Infect Dis Med Microbiol* 2009; 19[Suppl SA].

“Preference-based Assessments of Quality of Life in a Randomized Trial of Antiretroviral Therapy in Advanced HIV Disease” September 27, 2006 at the Research in Progress Seminar (Stanford University), Stanford, CA [oral presentation].

Aalfs SSA, Guh DP, Singer J, Sundaram V, **Joyce V**, Hill AK, Sun H, Griffin S, Sanders GD, Bayoumi AM, Holodniy M, Brown S, Schulpher M, Yu W, Owens DK, Anis AH. The impact of AIDS-related events and non- AIDS serious adverse events on health-related quality of life in a multinational trial of antiretroviral therapy. *Med Decis Making* 2005; 25 (1):E52.140.

“Utility-Based Assessments of Quality of Life in a Randomized Trial of Antiretroviral Therapy in Advanced HIV Disease,” October 18, 2004 at the Society for Medical Decision Making Annual Meeting, Atlanta, GA [oral presentation].

Munakata J, Woolcott J, Anis A, Schulpher M, Yu W, Sanders G, Bayoumi A, **Gulbinas V**, Philips Z, Owens D. Design of a prospective economic evaluation for a tri-national clinical trial in HIV patients (OPTIMA). *Control Clin Trials* 2003; 24(43S-240S): 173S.

GRANTS & FUNDING

Ongoing Research and Operations Support

A comprehensive assessment of maternal health and pregnancy outcomes among women veterans. PI: Ciaran Phibbs. Role: Programmer. Funding source: VA HSR&D, IIR 20-314, 2022-2025.

Program Evaluation and Resource Center. Director: Jodie Trafton. Role: Programmer/Project Manager. Funding source: Office of Mental Health and Suicide Prevention [operations]. 2022-present.

Women's Health Evaluation Initiative. Associate Director: Ciaran Phibbs. Role: Programmer [operations]. 2021-present.

Completed Research and Operations Support

Phenotype to identify medication-assisted treatment for opioid use disorder. PI: Keith Humphreys. Role: Led supplemental grant/programmer. Funding source: VA HSR&D/CIPHER, IIR 17-139 [supplement]. 2021-2022.

Cost effectiveness of interventions to reduce morbidity from opioid dependency. PI: Douglas Owens/Keith Humphreys. Role: Programmer/Project Manager. Funding source: VA HSR&D, IIR 17-139. 2018-2021.

MOVE! Weight Management Program. National Program Director: Susan Raffa. Role: Programmer. Funding source: VHA National Center for Health Promotion & Disease Prevention [operations]. 2017-2020.

Value of End-of-Life Cancer Care. PI: Risha Gidwani. Role: Programmer. Funding source: VA HSR&D, IIR 14-067. 2016-2019.

Pregnancy Outcomes of Veterans (PROVE). PI: Ciaran Phibbs. Role: Programmer/Project Manager. Funding source: VA HSR&D, IIR 14-099-2. 2015-2017.

Cost-effective Uses of New Hepatitis C Treatments and their VA Budgetary Impact. PI: Douglas Owens. Role: Programmer/Project Manager. Funding source: VA HSR&D, IIR 12-059-2. 2013-2015.

Management of HIV as a Chronic Disease. PI: Douglas Owens. Role: Programmer/Project Manager. Funding source: VA HSR&D, IIR 11-045. 2012-2015.

Acute Renal Failure Trial Network (ATN). PI: Paul Palevsky. Role: Programmer. Funding source: VA CSP 530. 2003-2008.

Options in Management with Antiretrovirals (OPTIMA). PI: Douglas Owens. Role: Research Assistant/Programmer. Funding source: VA CSP 512. 2001-2007.

SERVICE

VA Health Economics Resource Center (HERC), Menlo Park, CA	
<i>Associate Director</i>	<i>2021-Present</i>
<i>Manager, VA Research Webmasters Group</i>	<i>2011-2021</i>
<i>Mentor/Manager, HERC Internship via the Virtual Student Federal Service</i>	<i>2017-2018</i>
<i>Manager, Customer Service Domain</i>	<i>2009-2014</i>
Center for Innovation to Implementation (Ci2i), Menlo Park, CA	
<i>Co-Chair, Ci2i Diversity, Equity, and Inclusion Committee (Inclusion Workgroup)</i>	<i>2020-2021</i>

PROFESSIONAL TRAINING

Machine Learning A-Z: Python & R in Data Science	<i>Jan 2023</i>
Udemy, Online	

Microsoft Power BI Desktop for Business Intelligence Udemy, Online	<i>Dec 2022</i>
Ci2i/VINCI Observational Medical Outcomes Partnership (OMOP) Training Day Center for Innovation to Implementation and VA Informatics and Computing Infrastructure, Palo Alto, CA	<i>May 2018</i>
Bayesian Analyses Using SAS SAS Institute Inc., Live Web class	<i>May 2015</i>
Mixed Models Analyses Using the SAS System SAS Institute Inc., Live Web class	<i>Oct 2008</i>
SAS Programming II: Manipulating Data with the DATA Step SAS Institute Inc., San Jose, CA.	<i>Mar 2004</i>

VOLUNTEERING

Pacific Collegiate School, Santa Cruz, CA <i>Chair, Drive for Schools fundraiser</i>	<i>2023-present</i>
Daughters of Lithuania LA, Santa Monica, CA <i>Webmaster</i>	<i>2012-present</i>
Good Shepherd Catholic School, Santa Cruz, CA <i>Chair, Drive for Schools/Fall Fundraiser</i>	<i>2015-2019</i>

HONORS & AWARDS

2021 CEVR Cost-Effectiveness Analysis (CEA) Paper of the Year Award for <i>Cost-effectiveness of Treatments for Opioid Use Disorder</i> Tufts Center for the Evaluation of Value and Risk in Health (CEVR)	<i>2022</i>
Departmental honors in Economics, College honors in Letters and Sciences, Latin honors (cum laude) University of California, Los Angeles	<i>2001</i>
Professional Schools Seminar Program Essay Contest Winner, University of California, Los Angeles	<i>1998</i>