

Jenny S. Guadamuz, PhD

jennyguadamuz@gmail.com

jguadamu@usc.edu

314-397-7719

PERSONAL STATEMENT

As a health disparities researcher and pharmacoepidemiologist, I use an interdisciplinary approach to identify how structural determinants impact the use of healthcare, especially medications among racial and ethnic minorities. My current research focuses on health inequities across immigration status in the Latinx population. Immigration status is a critical yet overlooked factor influencing disparities because noncitizens endure significant barriers to legal and social protections, including systemic exclusions from healthcare. I also conduct research in the fields of drug utilization in vulnerable populations (*e.g.*, disparities in cancer treatment among older adults), federal policies to mitigate drug risks, and the role of pharmacy accessibility in determining access to medications using electronic health records, administrative claims, surveys, and geospatial data. My unique research perspective has garnered funding from the Robert Wood Johnson Foundation, as part of their inaugural cohort of Health Policy Research Scholars, and the National Heart, Lung, and Blood Institute, as a T32 fellow. My research appears in several high impact journals, including *JAMA*, *Health Affairs*, and the *American Journal of Public Health*.

EDUCATION

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|------|---|
| | University of Illinois at Chicago , Illinois USA |
| 2020 | PhD, Pharmacoepidemiology & Pharmaceutical Policy |
| 2017 | MS, Health Policy & Administration |
| | Saint Louis University , Missouri USA & Spain |
| 2013 | BA, Economics |
| | City University of Hong Kong , China SAR |
| 2012 | Exchange, transfer courses |

RESEARCH EXPERIENCE

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|---------------|---|
| | Flatiron Health , New York USA |
| 2021-present | Quantitative Scientist <i>Summary:</i> Lead research evaluating cancer disparities using Flatiron's national electronic health records |
| | University of Southern California , California USA |
| 2020- present | Postdoctoral Research Fellow, School of Pharmacy, Program on Medicines & Public Health |
| 2020- present | Postdoctoral Research Associate, Schaeffer Center for Health Policy & Economics |
| | Université Libre de Bruxelles Ecole de Santé Publique , Belgium |
| 2019-2020 | Visiting Researcher, Center of International Health Policies & Systems |
| | University of Illinois at Chicago , Illinois USA |
| 2018-2020 | Predocotrual Research Fellow, College of Medicine, Institute for Minority Health Research |
| 2015-2018 | Research Assistant, College of Pharmacy, Department of Pharmacy Systems, Outcomes, & Policy |

TEACHING EXPERIENCE

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| | University of Illinois at Chicago , Illinois USA |
| 2020 | Teaching Assistant, Pharmaceutical Policy |
| 2014 | Teaching Assistant, Critical Thinking in Public Health |

FUNDING

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|-----------|---|
| 2019-2020 | Robert Wood Johnson Foundation (PI: Guadamuz, \$6,000) Program: Health Policy Research Scholars Dissertation Award |
| 2018-2020 | National Heart, Lung, and Blood Institute (PI: Daviglus, Role: T32 Fellow) Program: CVD Epidemiology in Minority Populations Training Program |
| 2016-2020 | Robert Wood Johnson Foundation (PI: Guadamuz, \$120,000) Program: Health Policy Research Scholars |
| 2016 | University of Illinois at Chicago School of Public Health (PI: Guadamuz, \$3,000) Program: Passaro Global Horizons Research Award (internal) |

HONORS & AWARDS

- 2019 **U.S. Department of State**
Fulbright Research Award—Semi-Finalist
- 2018 **Robert Wood Johnson Foundation**
Health Policy Research Scholars, Policy Case Competition—Best Interdisciplinary Approach
- 2018 **University of Illinois at Chicago**
Chancellor's Student Service Award
- 2016 **University of Illinois at Chicago**
Delta Omega Inductee
- 2012-2013 **Saint Louis University**
Deans List
- 2011-2013 **Saint Louis University**
McNair Scholar
- 2009-2013 **Saint Louis University**
Ignatian Scholar (\$50,000 scholarship)
- 2009-2013 **St. Louis Public Schools Foundation**
Avanza Scholar (\$50,000 scholarship)
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OTHER RELEVANT EXPERIENCE

- 2016 **United Nations Relief and Works Agency, Jordan**
Research Intern
- 2013-2016 **PharmaACE, Missouri USA**
Consultant
Summary: Conducted epidemiologic and economic evaluations to forecast pharmaceutical product demand in the USA and Europe. Managed an analytics team
- 2011-2013 **Saint Louis University Cancer Center, Missouri USA**
Health Navigator
Summary: Acted as a liaison between safety net providers to facilitate access to cancer screenings for undocumented immigrants. Drafted foundation grant proposal
- 2013 **Spanish National Center for Cardiovascular Research, Spain**
Research Intern
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PEER-REVIEWED PUBLICATIONS ([PubMed](#))

Original Investigations

1. **Guadamuz JS**, Alexander GC, Kanter GP, Zenk S, Wilder JR, Qato DM. Access to Pharmacies and Pharmacy Services in New York City, Los Angeles, Chicago, and Houston, 2015-2020. *J Am Pharm Assoc*. 2021. *Online ahead of print*.
2. **Guadamuz JS**, Durazo-Arvizu RA, Daviglius ML, Calip GS, Nutescu EA, Qato DM. Statin Nonadherence in Latino and Noncitizen Communities in New York City, Los Angeles, and Chicago. *J Am Pharm Assoc*. 2021;61(4):e263-e278.
3. **Guadamuz JS**, Wilder JR, Mouslim MC, Zenk SN, Alexander GC, Qato DM. Fewer Pharmacies in Black and Hispanic/Latino Neighborhoods Compared with White or Diverse Neighborhoods, 2007-15. *Health Aff*. 2021;40(5): 802–811.
4. **Guadamuz JS**, McCormick CD, Choi S, Urick B, Alexander GC, Qato DM. Telepharmacy and Medication Adherence in Urban Areas. *J Am Pharm Assoc*. 2021;61(2):e100-e113.
5. Roth GA, Mensah GA, Johnson CO, et al (including **Guadamuz JS**). Global Burden of Cardiovascular Diseases and Risk Factors, 1990–2019. *J Am Coll Cardiol*. 2020;76(25):2982–3021.
6. **Guadamuz JS**, Qato DM, Alexander GC. Use of Risk Evaluation and Mitigation Strategies by the US Food and Drug Administration, 2008-2019. *JAMA*. 2020;324(3):299-301.
7. **Guadamuz JS**, Durazo-Arvizu RA, Daviglius ML, et al. Immigration Status and Disparities in the Treatment of Cardiovascular Disease Risk Factors in the Hispanic Community Health Study/ Study of Latinos (Visit 2, 2014-2017). *Am J Public Health*. 2020;110(9):1397-1404.
8. Qato DM, Alexander GC, **Guadamuz JS**, Choi S, Trotzky-Sirr R, Lindau ST. Pharmacist-Prescribed and Over-The-Counter Hormonal Contraception in Los Angeles County Retail Pharmacies. *Health Aff*. 2020;39(7):1219-1228.

9. **Guadamuz JS**, Durazo-Arvizu RA, Daviglius ML, Calip GS, Nutescu EA, Qato DM. Citizenship Status and the Prevalence, Treatment, and Control of Cardiovascular Disease Risk Factors Among Adults in the United States, 2011–2016. *Circ Cardiovasc Qual Outcomes*. 2020;13(3):e006215.
10. **Guadamuz JS**, Alexander GC, Zenk SN, Qato DM. Assessment of Pharmacy Closures in the United States From 2009 Through 2015. *JAMA Intern Med*. 2020;180(1):157-160.
11. **Guadamuz JS**, Alexander GC, Chaudhri T, Trozky-Sirr R, Qato DM. Availability and Cost of Naloxone Nasal Spray at Pharmacies in Philadelphia, Pennsylvania, 2017. *JAMA Netw Open*. 2019;2(6):e195388-e195388.
12. **Guadamuz JS**, Ozenberger K, Qato DM, Ko NY, Saffore CD, Adimadhyam S, Cha AS, Moran KM, Sweiss K, Patel PR, Chiu BC, Calip GS. Mediation Analyses of Socioeconomic Factors Determining Racial Differences in the Treatment of Diffuse Large B-Cell Lymphoma in a Cohort of Older Adults. *Medicine (Baltimore)*. 2019;98(46):e17960-e17960.
13. Qato DM, Alexander GC, Chakraborty A, **Guadamuz JS**, Jackson JW. Association Between Pharmacy Closures and Adherence to Cardiovascular Medications Among Older US Adults. *JAMA Netw. Open*. 2019;2(4):e192606-e192606.
14. Qato DM, Alexander GC, **Guadamuz JS**, Lindau ST. Prescription Medication Use Among Children and Adolescents in the United States. *Pediatrics*. 2018;142(3):e20181042.
15. Qato DM, Alexander GC, **Guadamuz JS**, Lindau ST. Prevalence of Dietary Supplement Use in US Children and Adolescents, 2003-2014. *JAMA Pediatr*. 2018;172(8):780-782.
16. Kim S, Molina Y, Glassgow AE, Berrios N, **Guadamuz JS**, Calhoun E. The effects of navigation and types of neighborhoods on timely follow-up of abnormal mammogram among black women. *Med Res Arch*. 2015;2015(3).

Reviews and Editorials

17. **Guadamuz JS**, Kapoor K, Lazo M, Eleazar A, Yahya T, Kanaya AM, Cainzos-Achirica M, Bilal U. Understanding Immigration as a Social Determinant of Health: Cardiovascular Disease in Hispanics/Latinos and South Asians in the United States. *Curr Atheroscler Rep*. 2021;23(6):25.
18. Young S, **Guadamuz JS**, Fitzgibbon M, Buscemi J, Odoms-Young A, Kong A. Society of Behavioral Medicine (SBM) Does Not Support “Public Charge Rule” Changes Affecting Immigrants’ Food Security. *Transl. Behav. Med*. 2021;ibiaa137.

WORKS IN PROGRESS (PRELIMINARY RESULTS AVAILABLE)

1. Calip GS, Wade NB, **Guadamuz JS**, Wang X, Miksad RA, Whitaker KD. Disparities in Cardiovascular Mortality After Breast Cancer Treatment: Methodological Considerations Using Real-World Data. *In press*.
2. **Guadamuz JS**, Durazo-Arvizu RA, Flores-Morales J, Qato DM. Citizenship Status and Premature Mortality Among Latino Young Adults in the United States. *Revise and resubmit*.
3. Huang HC, Smart MH, Zolekar A, Deng H, Hubbard CC, Hoskins KF, Ko NY, **Guadamuz JS**, Gregory CS. Differential Impact of Socioeconomic Status and Rurality on Cancer-Specific Survival Among Women with De Novo Metastatic Breast Cancer by Race/Ethnicity. *Under review*.
4. **Guadamuz JS**. Immigration Factors Associated with Cost-Related Medication Non-Adherence and Drug Importation Among Adults in the United States.
5. **Guadamuz JS**, Shooshtari A, Qato DM. Country-Level Trends in Statin Utilization and Ischemic Heart Disease Mortality in High-Income and Developing Countries.
6. **Guadamuz JS**, Qato DM, Alexander GC. Use of Medications with FDA Mandated Risk Evaluation and Mitigation Strategies Among US Adults, 2010-2018.
7. **Guadamuz JS**, Rohrer R, and Calip GS. Comparative Effectiveness of Denosumab and Zoledronic Acid on Overall Survival in Adults with Multiple Myeloma, by Race/Ethnicity.
8. Qato DM, **Guadamuz JS**, Ferguson L, Harrison D, Shooshtari A. Trends in Global Contraceptive and Abortion Product Utilization Among Women of Reproductive Age During Covid-19.
9. Thunell J, Joyce G, **Guadamuz JS**, Qato DM, Zissimopoulos J. Racial/Ethnic Disparities in Inappropriate Medication Use Among Medicare Beneficiaries with Dementia, 2018.
10. Naing K, Ko NY, Sweiss K, Patel PR, Chiu BCH, **Guadamuz JS**, Calip GS. Racial/Ethnic Disparities in Health Insurance Among Adults with Blood Cancers in States with and without Medicaid Expansion: Analyses from the National Cancer Database, 2007-2016.

BOOK CHAPTERS

1. Qato DM, **Guadamuz JS**, Al-Shehri B, Al-Shehri B, Al-Sultan R, Shahin R. (2019). Pharmaceutical Sector in Palestine: An Introduction. In: Laher I, ed., [*Handbook of Healthcare in the Arab World*](#).

REFERRED CONFERENCE PRESENTATIONS (SELECTED)

1. **Guadamuz JS**, Durazo-Arvizu RA, Flores-Morales J, Qato DM. “Citizenship Status and All-Cause and Cause-Specific Mortality Among Latinos in the United States.” AcademyHealth Annual Research Meeting; 2020; Virtual (oral).
2. **Guadamuz JS**, Durazo-Arvizu RA, Daviglius ML, Calip GS, Nutescu EA, Qato DM. “Citizenship Status and the Prevalence, Treatment, and Control of Cardiovascular Disease Risk Factors in the US.” AHA Epidemiology and Prevention; 2020; Phoenix, AZ (oral) and AcademyHealth Annual Research Meeting; 2020; Virtual (poster).
3. **Guadamuz JS**, Lee D, Daviglius ML, Durazo-Arvizu RA, Wassertheil-Smoller S, Kizer JR, Wu D, Qato DM. “Antihypertensive Use and Hypertension Control Among Hispanic/Latino Adults.” AHA Epidemiology and Prevention; 2019; Houston, TX (oral trainee session and poster).
4. **Guadamuz JS**, Alexander GC, Qato DM. “Prevalence and Correlates of Pharmacy Closures in the United States.” AcademyHealth Annual Research Meeting; 2018; Seattle, WA (poster).
5. **Guadamuz JS**, Qato DM. “Neighborhood Distribution of 340B Pharmacies in the United States.” AcademyHealth Annual Research Meeting; 2018; Seattle, WA (poster).
6. **Guadamuz JS**, Qato DM. “Pharmacy Deserts’ in Segregated St. Louis, Missouri.” AcademyHealth Annual Research Meeting; 2017; New Orleans, LA (poster).
7. **Guadamuz JS**, Qato DM. “Trends in the Use of Prescription Medications with Boxed Warnings in the U.S.—2003-2014.” Academy Health Annual Research Meeting; 2017; New Orleans, LA (poster).
8. **Guadamuz JS**, Qato DM. “Statin Use Among Adults with Cardiovascular Disease in the U.S. and England—2003-2012.” International Health Policy Conference; 2017; London, England (oral) and AcademyHealth Annual Research Meeting; 2017; New Orleans, LA (oral).
9. **Guadamuz JS**, Qato DM, Alexander GC. “Use of Medications with Risk Evaluation and Mitigation Strategies in the U.S.” International Conference on Pharmacoepidemiology & Therapeutic Risk; 2016; Dublin, Ireland (poster) and AcademyHealth Annual Research Meeting; 2017; New Orleans, LA (poster).
10. **Guadamuz JS**, Saadeh R, Khader A, Shahin Y, Seita A, Qato DM. “Antihypertensive Medication Prescribing Among Palestine Refugees in UNRWA Primary Care Clinics: a paper chart review.” Lancet Palestinian Health Alliance Annual Conference; 2017; Birzeit, West Bank, Palestine (poster).

INVITED PRESENTATIONS (SELECTED)

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| 2020 | “Safe & Equitable Use of Essential Medicines Among Vulnerable Populations,” Center for Pharmacoepidemiology & Treatment Science Research Seminar, Rutgers University, New Jersey USA [virtual] |
| 2020 | “Immigration Status and Disparities in the Prevalence, Treatment, and Control of CVD Risk Factors in the US,” Social Epidemiology Research Seminar, Université Libre de Bruxelles, Brussels BE |
| 2019 | “Living in Predominately Noncitizen Immigrant Communities and Adherence to Statins,” Study of Latinos Investigators Meeting, University of Illinois at Chicago, Illinois USA |
| 2018 | “Pharmacy Accessibility and Disparities in Hypertension Treatment and Control Among Hispanic/Latinos,” Study of Latinos Career Development Seminar, University of Illinois at Chicago, Illinois USA |
| 2016 | “Is it Causal? A Brief Introduction to Quasi-Experimental Designs,” United Nations Relief and Works Agency Methods Seminar, Jordan |

MEDIA APPEARANCES/INTERVIEWS

1. Interview, “Breaking Down How Pharmacy Deserts and Access Relate to Health Equity”, [*Health Affairs Podcast*](#), 2021.
2. Interview, “Pharmacies are closing in low income Black and Latino communities”, [*KCBS San Francisco 106.9 FM*](#), 2021.

SUPPLEMENTAL TRAINING

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| 2021 | University of California, Berkeley Summer Institute on Migration Research Methods (Virtual) <i>Summary:</i> Training in advanced analytic methodologies to study immigrant populations. Funding from the National Institute of Child Health and Human Development and the Russell Sage Foundation |
| 2017-2020 | Robert Wood Johnson Foundation Health Policy Research Scholars Summer Institute (Maryland & Washington DC) <i>Summary:</i> Summer training sessions to develop the skills necessary to disseminate policy-relevant research |
| 2016-2020 | Annual Leadership Institute (Various Locations) <i>Summary:</i> Annual leadership seminar to promote a <i>Culture of Health</i> |
| 2019 | 100 Million Healthier Lives, National Community Health Improvement Leadership Academy (Puerto Rico) <i>Summary:</i> Leadership seminar examining health disparities in the context of structural racism |

SKILLS

- Expertise in health disparities, population health, health policy, and pharmacoepidemiology research
- Extensive experience working with large secondary data sources including electronic health records, administrative claims, clinical provider registries, multi-national cross-sectional surveys, and population-based cohorts
- Advanced proficiency in statistical analysis and software (*e.g.*, R, Stata, & SAS)
- Proficient in Geographic Information Systems and related software (*e.g.*, ArcGIS)
- Fluent in English and Spanish

PROFESSIONAL SERVICE

Ad hoc journal peer-review (alphabetical)

Journal of the American Pharmacists Association, JAMA Network Open, Pediatrics, Social Justice and Community Disparities Anthology Project at the University of Illinois

Ad hoc conference abstract review (alphabetical)

AcademyHealth Annual Research Meeting, American Public Health Association Conference, International Conference on Pharmacoepidemiology & Therapeutic Risk

Grant review

Flatiron Health

- Health Disparities Research Grant (2021)

Robert Wood Johnson Foundation

- Community Change Leadership Network Activation Fund (2020)
- Health Policy Research Scholars Program (2020)

PROFESSIONAL AFFILIATIONS

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| 2020-Present | Global Burden of Disease Collaborator Network |
| 2019-Present | American Heart Association |
| 2016-Present | International Society for Pharmacoepidemiology |
| 2016-Present | AcademyHealth |
| 2015-2017 | American Public Health Association |