# SOCIAL FACTORS, HEALTH CARE INEQUITIES AND VACCINATION

# RESEARCH IN THE SOCIOLOGY OF HEALTH CARE

Series Editor: Jennie Jacobs Kronenfeld

### Recently published volumes:

Volume 33:	Education, Social Factors, and Health Beliefs in Health and Health Care Services, 2015
Volume 32:	Technology, Communication, Disparities and Government Options in Health and Health Care Services, 2014
Volume 31:	Social Determinants, Health Disparities and Linkages to Health and Health Care, 2013
Volume 30:	Issues in Health and Health Care Related to Race/Ethnicity, Immigration, SES and Gender, 2012
Volume 29:	Access to Care and Factors that Impact Access, Patients as Partners in Care and Changing Roles of Health Providers, 2011
Volume 28:	The Impact of Demographics on Health and Healthcare: Race, Ethnicity, and Other Social Factors, 2010
Volume 27:	Social Sources of Disparities in Health and Health Care and Linkages to Policy, Population Concerns and Providers of Care, 2009
Volume 26:	Care for Major Health Problems and Population Health Concerns: Impacts on Patients, Providers, and Policy, 2008
Volume 25:	Inequalities and Disparities in Health Care and Health: Concerns of Patients, Providers and Insurers, 2007
Volume 24:	Access, Quality and Satisfaction With Care: Concerns of Patients, Providers and Insurers, 2007
Volume 23:	Health Care Services, Racial and Ethnic Minorities and Underserved Populations, 2005
Volume 22:	Chronic Care, Health Care Systems and Services Integration, 2004
Volume 21:	Reorganizing Health Care Delivery Systems: Problems of Managed Care and Other Models of Health Care Delivery, 2003
Volume 20:	Social Inequalities, Health and Health Care Delivery, 2002
Volume 19:	Changing Consumers and Changing Technology in Health Care and Health Care Delivery, 2001

## RESEARCH IN THE SOCIOLOGY OF HEALTH CARE VOLUME 40

## SOCIAL FACTORS, HEALTH CARE INEQUITIES AND VACCINATION

#### **EDITED BY**

#### JENNIE JACOBS KRONENFELD

Arizona State University, USA



United Kingdom – North America – Japan India – Malaysia – China Emerald Publishing Limited Howard House, Wagon Lane, Bingley BD16 1WA, UK

First edition 2023

Editorial matter and selection © 2023 Jennie Jacobs Kronenfeld. Individual chapters © 2023 The authors. Published under exclusive licence by Emerald Publishing Limited.

#### Reprints and permissions service

Contact: permissions@emeraldinsight.com

No part of this book may be reproduced, stored in a retrieval system, transmitted in any form or by any means electronic, mechanical, photocopying, recording or otherwise without either the prior written permission of the publisher or a licence permitting restricted copying issued in the UK by The Copyright Licensing Agency and in the USA by The Copyright Clearance Center. Any opinions expressed in the chapters are those of the authors. Whilst Emerald makes every effort to ensure the quality and accuracy of its content, Emerald makes no representation implied or otherwise, as to the chapters' suitability and application and disclaims any warranties, express or implied, to their use.

#### **British Library Cataloguing in Publication Data**

A catalogue record for this book is available from the British Library

ISBN: 978-1-83753-795-2 (Print) ISBN: 978-1-83753-794-5 (Online) ISBN: 978-1-83753-796-9 (Epub)

ISSN: 0275-4959 (Series)



## **CONTENTS**

List of Figures	vii
List of Tables	ix
About the Contributors	xi
SECTION 1: VACCINATION	
How Residential Segregation Moderates the Association Between Racial/Ethnic Composition and COVID-19 Vaccination Rates Across Metropolitan Counties in the US Caroline Wolski, Kathryn Freeman Anderson and Simone Rambotti	3
Perspectives of Rural New Mexicans on the COVID-19 Vaccines: A Qualitative Study of COVID-19 Pandemic Vaccination Experiences in Rural New Mexico Maria Gabaldon-Parish and Kate Cartwright	25
Full-Time Caregiving During COVID-19 Based on Minority Identifications, Generation, and Vaccination Status  Erica S. Jablonski, Chris R. Surfus and Megan Henly	43
Redefining the Vulnerable Population in Public Health Research: Incorporating Ideological Determinants of Anti-vaccination Attitudes Atsuko Kawakami, Subi Gandhi, Derek Lehman and Jennie Jacobs Kronenfeld	65

vi CONTENTS

SECTION 2: OTHER TOPICS LINKED TO SOCIA	L
FACTORS AND HEALTH-CARE INEQUITIES	

An Examination of Exposure and Vulnerability to Stress From Chronic Illness and Its Impact on Mental Health and Long-Term Disability Among Non-Hispanic White, African American, and Latinx Populations	83
Matthew E. Archibald, Rachel N. Head, Jordan Yakoby and Pamela Behrman	
The Cochlear Implant Decision: How Parents Decide to Implant Their Deaf Children With Cochlear Implants Kathryn Burrows	103
Gaps in the Safety-Net: Community Health Centers' Diminutive Effect on Having a Regular Source of Care Danielle N. Gadson	123
Sociodemographic Predictors of Viral Load Testing Among Hepatitis C Antibody-Positive Patients in a Large Southern California County: An Example of Health Care Inequalities Sara H. Goodman, Matthew Zahn, Tim-Allen Bruckner, Bernadette Boden-Albala, Janet R. Hankin and Cynthia M. Lakon	137
Index	151

## LIST OF FIGURES

Chapter 1		
Figure 1.	Graph of Interaction Between Percent Black and Black-White Dissimilarity.	15
Figure 2.	Graph of Interaction Between Percent White and Black-White Dissimilarity.	17
Figure 3.	Graph of Interaction Between Percent White and Latino-White Dissimilarity.	18
Chapter 5		
Figure 1.	Exposure to Stress Process Mediation Model (Constrained).	91
Figure 2.	Exposure to Stress Process Mediation Model (Unconstrained).	91
Figure 3.	Vulnerability to Stress Process Moderation Model (Conditional Process).	92
Chapter 8		
Figure 1.	Algorithm for Testing for HCV in the United States.	139
Figure 2.	Inclusion and Exclusion Criteria.	142

This page intentionally left blank

## LIST OF TABLES

Chapter 1		
Table 1.	Descriptive Statistics Across Counties for Variables Used in All Statistical Models.	12
Table 2.	Coefficients and (Standard Errors) from OLS Models of Percent Fully Vaccinated Across Counties in the United States.	13
Chapter 2		
Table 1.	Participant Characteristics.	32
Chapter 3		
Table 1.	Full-Time Caregiving by Demographic and Health Characteristics.	54
Table 2.	Relative Risk Ratios From Multinomial Regression Models Predicting Full-Time Caregiving Type.	56
Chapter 5		
Table 1.	Descriptive Statistics National Survey of Drug Use and Health; NSDUH 2005–2014.	93
Table 2.	Constrained Model (Fig. 1): Generalized Structural Equation Models; Adjusted Odds Ratios and Standard Errors for Chronic Illness Time $t-1$ , Serious Psychological Distress Time $t$ , and Disability Time $t+1$ . NSDUH 2005–2014.	94
Table 3.	Unconstrained Model (Fig. 2): Generalized Structural Equation Models; Adjusted Odds Ratios and Standard Errors for Chronic Illness Time $t-1$ , Serious Psychological Distress Time $t$ , and Disability Time $t+1$ . NSDUH 2005–2014.	95
Table 4.	Generalized Structural Equation Models; Adjusted Odds Ratios and Standard Errors for Chronic Illness Time $t-1$ , Serious Psychological Distress Time t, and Long-Term Disability Time $t+1$ . NSDUH 2005–2014.	96
Chapter 7		
Table 1.	Respondent Demographics.	129
Table 2.	The Likelihood of Reporting Specific Regular Locations for Care by CHC Proximity.	130

x LIST OF TABLES

Table 3. Multinomial Log Odds for the Likelihood of Reporting Specific 131 Locations for Regular Care as Compared to Having No Regular Source of Care by CHC Proximity and Personal Characteristics.

#### Chapter 8

- Table 1. Descriptive Characteristics of HCV Antibody-Positive Patients 143
  Ever Testing for HCV Viral Load in Orange County,
  California.
- Table 2. Multivariable Logistic Regression of Ever Testing for HCV 145 Viral Load in Orange County, California.

#### ABOUT THE CONTRIBUTORS

**Kathryn Freeman Anderson** is an Associate Professor of Sociology at the University of Houston. She specializes in the sociology of health and illness, urban sociology, race/ethnicity, and organizations. Her recent work has been published in the *Journal of Health and Social Behavior*, *City & Community*, and *Spatial Demography*.

**Matthew E. Archibald** is an Assistant Professor of Sociology at the College of Mount Saint Vincent and Director of the Fishlinger Center for Public Policy Research. He studies health, illness, and health care. Recent work has focused on behavioral health disparities and health-care access.

**Pamela Behrman** is an Adjunct Professor of Psychology at the College of Mount Saint Vincent. She has worked extensively in both academic and clinical/school settings. Her recent scholarship efforts include publications on health disparities, psychological trauma, ACEs/toxic stress, and health policy.

**Dr Bernadette Boden-Albala** is the Director and Founding Dean of the Program in Public Health in the Susan & Henry Samueli College of Health Sciences at University of California, Irvine, where she is also a Professor in the Department of Health, Society, and Behavior and the Department of Neurology in the School of Medicine.

**Dr Tim-Allen Bruckner** is a Population Health Scholar who seeks to understand social, economic, and policy causes of health inequity. Much of his work attempts to isolate exposures, or antecedents, of health that approximate a natural experiment.

**Dr Kathryn Burrows** is an Assistant Professor of Sociology and Deaf Studies at Madonna University. She is also an independent scholar, and her research focuses on medical technology, medicalization, and mental health. She serves on the board of directors of several not-for-profit organizations that serve independent scholars and people with mental health disorders.

**Kate Cartwright** is an Associate Professor in the School of Public Administration and a faculty member of the Combined BA/MD program at the University of New Mexico. Her research focuses on health administration and health equity. She has worked on capacity building in rural medicine for seven years.

Maria Gabaldon-Parish is an undergraduate student in the Combined BA/MD program at the University of New Mexico studying Chemistry and Psychology.

Her research experience includes behavioral neuroscience and immunology. She aspires to serve the people of the Southwest by working in communities as a physician and contributing to medical research.

**Dr Danielle N. Gadson** is a Health Equity Expert and an Assistant Professor of Public Administration at Villanova University. She holds a BS in Economics from the Wharton School of Business at the University of Pennsylvania, an MPA from Villanova University, and a PhD in Medical Sociology from Temple University.

**Subi Gandhi** is an Associate Professor and Advisor of the Public Health Program at Tarleton State University. Her current research areas include geriatric health, student health, behavioral health, and disaster epidemiology. She holds a PhD from UNT Health Science Center, located in Fort Worth, TX.

**Dr Sara H. Goodman** graduated from the University of California, Irvine and now works as a Research Epidemiologist at Stanford University School of Medicine. She has research interests in COVID-19, Hepatitis C, STIs and HIV, and infectious disease epidemiology, key populations research and practice, and global health.

**Janet R. Hankin** is Professor Emerita of Medical Sociology at Wayne State University. She chaired the Medical Sociology Section of the American Sociological Association and coedited the 2010 Extra Issue of the *Journal of Health and Social Behavior*, "What Do We Know? Key Findings from 50 Years of Medical Sociology."

**Rachel N. Head** is an Assistant Professor of Sociology at the University of Tulsa. Her research addresses mental and physical health inequities for marginalized, underrepresented, or disadvantaged populations. Her current research focuses on employment and mental health utilizing the stress process framework.

Megan Henly, PhD, is Project Director at the University of New Hampshire Institute on Disability, where she leads the National Institute on Disability, Independent Living, and Rehabilitation Research-funded Advanced Rehabilitation Research and Training (ARRT) program on employment. Her work centers on employment, health, and well-being of the population with disabilities.

Erica S. Jablonski, PhD, is a Postdoctoral Research Associate at the University of New Hampshire Institute on Disability. Her research has explored the lived experiences of informal caregivers and caregiving team dynamics. She is interested in expanding on this work to encompass employment for people with disabilities and their caregivers.

**Atsuko Kawakami** is an Associate Professor of Sociology at Tarleton State University in Stephenville, Texas, USA. Her research interests include, but are not limited to, the following areas: social gerontology, health care, social

networks and support systems among various groups, and Japan studies. She holds a PhD from Arizona State University.

**Jennie Jacobs Kronenfeld** is Professor Emerita in Sociology, SSFD, Arizona State University. Her research areas are medical sociology and aging and the life course with special focus on health policy, health-care utilization, and health behavior.

**Dr Cynthia M. Lakon** began her career at UC Irvine as an assistant professor in 2008 before becoming a tenured associate professor in May 2015 and then a full professor in 2022. Dr Lakon served as the Interim and Founding Chair of the Department of Health, Society, and Behavior from March 2020 until September 2022. With a strong passion for research, Dr Lakon has published numerous peer-reviewed articles as well as received various grants to fund her projects, including NIH. Through her work, Dr Lakon is recognized as an expert in adolescent social networks and substance abuse. Her research has appeared in journals including *Social Science & Medicine, American Journal of Public Health, Social Networks* and various media outlets including Yahoo News and *Time* magazine.

**Derek Lehman** is Assistant Professor of Sociology at Tarleton State University. His research and teaching are focused on religion, gender, and politics in the United States. He holds a PhD from Southern Illinois University, Carbondale.

**Simone Rambotti** is a Sociologist interested in health and well-being. He worked with the Louisiana COVID-19 Health Equity Task Force as chair of the Data and Analysis subcommittee. His recent work has been published in *Social Science & Medicine* and the *Journal of Health and Social Behavior*.

Chris R. Surfus, MBA, MPA, PhD, is a Board-appointed Faculty Specialist of Public Administration at Western Michigan University's School of Public Affairs and Administration. Previously, Dr Surfus was a Postdoctoral Research Associate at the University of New Hampshire's Institute on Disability under the NIDILRR-funded Advanced Rehabilitation Research and Training (ARRT) program.

**Caroline Wolski** is currently a graduate student in the Department of Sociology at the University of Houston. Her research interests include quantitative research methodology, race/ethnicity, and the sociology of health and illness.

**Jordan Yakoby** is Director and Chief Nurse Administrator at Touro University New York School for Career and Applied Studies. He is a nurse practitioner and his areas of scholarship are in neurocritical care, critical care medicine, and addressing inequalities in access to health care.

**Dr Matthew Zahn** is a Physician who treats kids and teens in Orange County and specializes in infectious disease. He is Medical Director of the Division of Epidemiology and Assessment for the Orange County Health Care Agency.