

# National Institute on Aging's Alzheimer's-related Resource Centers for Minority Aging Research (AD-RCMARs)

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# RCMAR Objectives

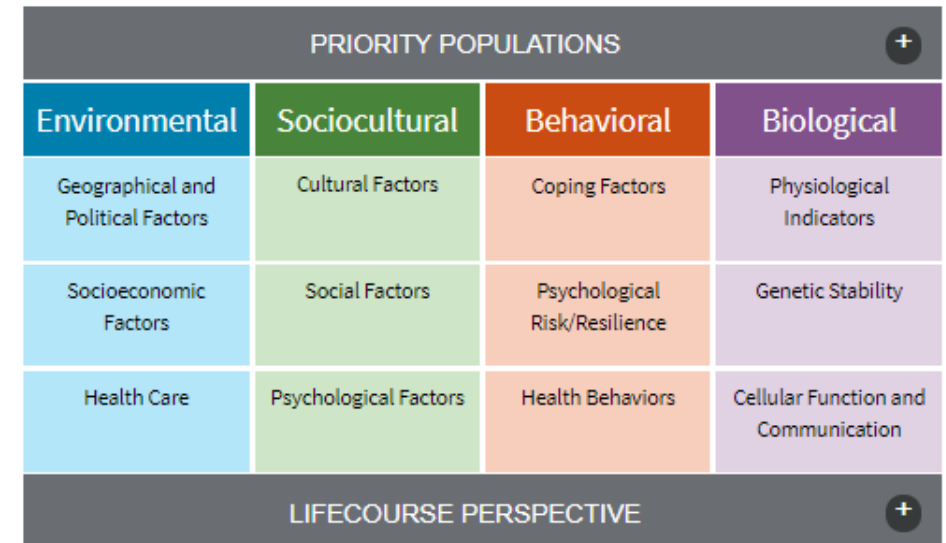
- Enhance the diversity of the aging research workforce by mentoring promising scientists from under-represented groups for sustained careers in aging research in priority areas of social, behavioral, and economic research on aging
- Develop infrastructure to promote advances to increase the number of researchers focused on the health and well-being of minority elders



Resource Centers for  
Minority Aging  
Research

# NIA Health Disparities Research Framework

- Hispanics/Latinos
- American Indians/Alaskan Natives
- Blacks/African Americans
- Asian Americans
- Native Hawaiians + Other Pacific Islanders
- Socioeconomically Disadvantaged Populations
- Rural Populations
- Disability Populations
- Sexual and Gender Minorities



# Behavioral and Social Research on Alzheimer's Disease and Related Dementias

Social, behavioral, psychological, and economic research at the individual, dyadic, and population level



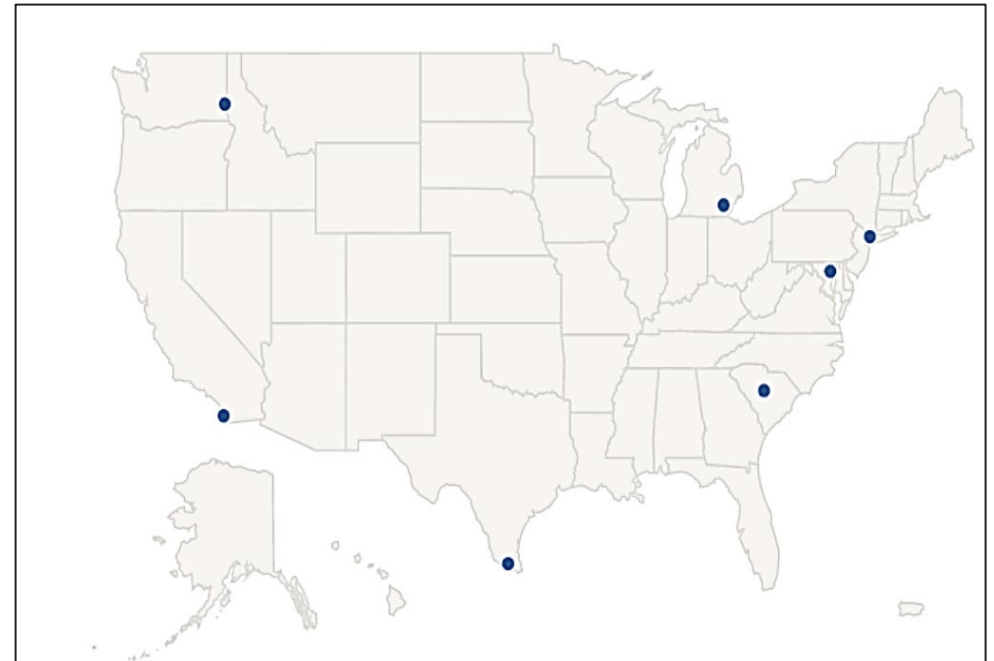
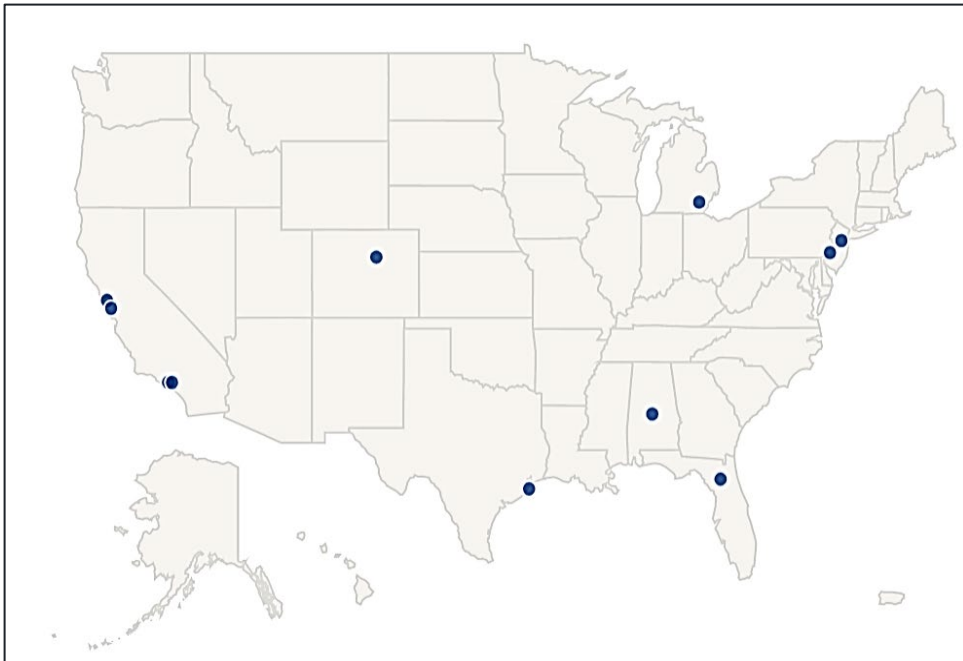


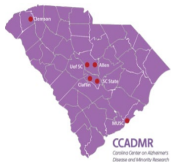
Resource Centers for Minority Aging Research  
*Bridging the Gap between Health Disparity Research and Successful Minority Aging*



**Traditional n=10**

**AD n=8**





- **The Johns Hopkins** Alzheimer's Disease Resource Center for Minority Aging Research
- **Michigan** Center for Contextual Factors in Alzheimer's Disease (MCCFAD)
- **Columbia** Center for Interdisciplinary Research on Alzheimer's Disease Disparities (CIRAD)
- **San Diego** Resource Center for Advancing Alzheimer's Research in Minority Seniors (ARMS)
- **Native** Alzheimer's Disease Resource Center for Minority Aging Research (NAD)
- **Carolina** Center on Alzheimer's Disease and Minority Research (CCADMR)
- **USC** AD-Resource Center for Minority Aging Research (US)
- **Rio Grande Valley** Alzheimer's Resource Center for Minority Aging Research: Partnerships for Progress

RESEARCH ARTICLE OPEN ACCESS

## Predictors of Incident Mild Cognitive Impairment and Its Course in a Diverse Community-Based Population

Milou J. Angevaere, MD, Jet M.J. Vonk, PhD, Laiss Bertola, PhD, Laura Zahodne, PhD, Caitlin Wei-Ming Watson, MSc, Amelia Boehme, PhD, Nicole Schupf, PhD, Richard Mayeux, MD, Mirjam I. Geerlings, PhD, and Jennifer J. Manly, PhD

Correspondence  
Dr. Manly  
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Neurology® 2022;98:e15-e26. doi:10.1212/WNL.00000000000013017

frontiers  
in Public Health

SYSTEMATIC REVIEW  
published: 24 December 2021  
doi: 10.3389/fpubh.2021.794958

## Genetic Risk Factors for Alzheimer's Disease in Racial/Ethnic Minority Populations in the U.S.: A Scoping Review



Lindsey Rubin<sup>1</sup>, Lucy A. Ingram<sup>1\*</sup>, Nicholas V. Resciniti<sup>2</sup>, Brianna Ashford-Carroll<sup>1</sup>, Katherine Henrietta Leith<sup>1</sup>, Aubrey Rose<sup>3</sup>, Stephanie Urena<sup>1</sup>, Quentin McCollum<sup>4</sup> and Daniela B. Friedman<sup>1</sup>

alzheimer's  
association

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FEATURED ARTICLE | [Free Access](#)

## Sleep and neurocognitive decline in the Hispanic Community Health Study/Study of Latinos

Alberto R. Ramos , Wassim Tarraf, Benson Wu, Susan Redline, Jianwen Cai, Martha L. Daviglus, Li Gallo, Yasmin Mossavar-Rahmani, Krista M. Perreira, Phyllis Zee, Donglin Zeng, Hector M. Gonzalez ... See fewer authors 

First published: 06 January 2020 | <https://doi.org/10.1016/j.jalz.2019.08.191> | Citations: 4

## Nighttime Blood Pressure Interacts with APOE Genotype to Increase the Risk of Incident Dementia of the Alzheimer's Type in Hispanics

Jesus D. Melgarejo<sup>a,b</sup>, Daniel C. Aguirre-Acevedo<sup>c</sup>, Ciro Gaona<sup>a</sup>, Carlos A. Chavez<sup>d</sup>, Gustavo E. Calmón<sup>d</sup>, Eglé R. Silva<sup>d</sup>, Gabriel A. de Erausquin<sup>e,f</sup>, Mario Gil<sup>f,g</sup>, Luis J. Mena<sup>h</sup>, Joseph D. Terwilliger<sup>i,j,k,l</sup>, Humberto Arboleda<sup>m,n</sup>, Nikolaos Scarmeas<sup>o,p</sup>, Joseph H. Lee<sup>o,q</sup> and Gladys E. Maestre<sup>q,r,s,\*</sup>

alzheimer's  
association

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Featured Article | [Full Access](#)

## Differences in service utilization at an urban tribal health organization before and after Alzheimer's disease or related dementia diagnosis: A cohort study

Krista R. Schaefer , Carolyn Noonan, Michael Mosley, Julia Smith, Donna Galbreath, David Fenn, Renee F. Robinson, Spero M. Manson

THE  
GERONTOLOGICAL  
SOCIETY OF AMERICA®

Innovation in Aging  
cite as: *Innovation in Aging*, 2022, Vol. 6, No. 2, 1–10  
<https://doi.org/10.1093/geroni/igab060>  
Advance Access publication December 30, 2021

OXFORD

Original Research Article

## The Influence of Race and Gender on Receiving Assistance With Daily Activities Among Older Americans

Chanee D. Fabius, PhD,\* Lauren J. Parker, PhD, MPH, and Roland J. Thorpe, PhD

# Ethnicity & Disease

[Ethn Dis.](#) 2020; 30(Suppl 2): 765–774.

Published online 2020 Nov 19. doi: [10.18865/ed.30.S2.765](https://doi.org/10.18865/ed.30.S2.765)

PMCID: PMC7683026

PMID: [33250623](https://pubmed.ncbi.nlm.nih.gov/33250623/)

Partnering with Middle Eastern/Arab American and Latino Immigrant Communities to Increase Participation in Alzheimer's Disease Research

[Kristine J. Ajrouch](#)<sup>1</sup>, [Irving E. Vega](#)<sup>2</sup>, [Toni C. Antonucci](#)<sup>3</sup>, [Wassim Tarraf](#)<sup>4</sup>, [Noah J. Webster](#)<sup>3</sup> and [Laura B. Zahodne](#)<sup>5</sup>




## Responding to the Call: Building a Training Program to Diversify the Academy in Alzheimer's Disease Research


*Lucy Annang Ingram*<sup>1\*</sup>, *Marvella E. Ford*<sup>2</sup>, *Christiana L. Johnson*<sup>1</sup>, *Brianna Ashford-Carroll*<sup>1</sup>, *Quentin McCollum*<sup>3</sup>, *Daniela B. Friedman*<sup>1†</sup> and *Sue Ellen Levkoff*<sup>3</sup>

JOURNAL ARTICLE ACCEPTED MANUSCRIPT

## What Structural Racism Is (or Is Not) and How to Measure It: Clarity for Public Health and Medical Researchers

[Lorraine T Dean](#) , [Roland J Thorpe Jr](#)

*American Journal of Epidemiology*, kwac112, <https://doi.org/10.1093/aje/kwac112>

**Published:** 05 July 2022 **Article history** 

**This Issue** Views **1,898** | Citations **3** | Altmetric **45**

**Invited Commentary** | Neurology

July 6, 2021

## Inclusion of Underrepresented Groups in Preclinical Alzheimer Disease Trials—Opportunities Abound

Jennifer J. Manly, PhD<sup>1</sup>; Andrea Gilmore-Bykovskiy, PhD, RN<sup>2</sup>; Kacie D. Deters, PhD<sup>3</sup>

[» Author Affiliations](#) | [Article Information](#)

*JAMA Netw Open.* 2021;4(7):e2114606. doi:10.1001/jamanetworkopen.2021.14606

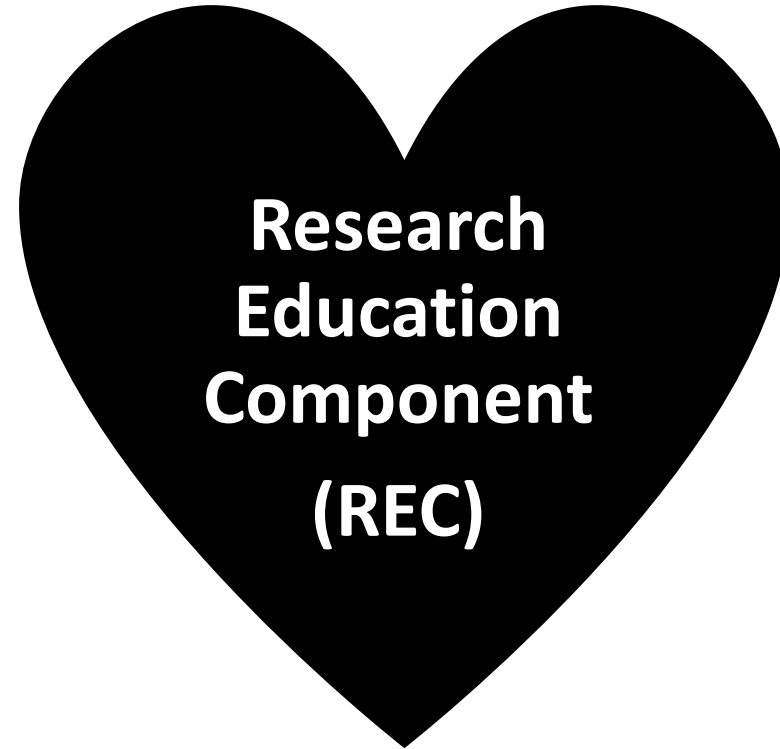




# Inside an AD-RCMAR



**Leadership &  
Administrative  
Core**



## **Optional Cores**

- Analysis Core
- Community Liaison and Recruitment Core

**AD-RCMAR Scientist**

# REC Resources

- Long-term mentorship and Support
- Training activities
- Educational activities
- Professional development opportunities
- Community engagement
- Networking opportunities & events



**Pilot funding**  
**Primary or**  
**secondary data**

# Inside the CC

- Provides logistical support to RCMAR Centers
- Ensures interaction between Centers
- Oversees dissemination activities
- Maintains Program data



# RCMAR Resources



YouTube Channel



Career Development



Research and Measurement



Annual Meeting Files

## SCIENTIST HIGHLIGHTS

The RCMAR Program has now grown to over 400 scientists! Scientists receive funding and mentoring at one of our 18 sites. Meet some of our scientists and their work below.



SCIENTIST HIGHLIGHT: Lan Doan, PhD, MPH (CICADA RCMAR SCIENTIST)

In this week's Scientist Highlights, we feature Lan Doan, PhD, MPH, who became a CICADA RCMAR Scientist in 2021. Dr. Doan's work is centered on the structural determinants of health and has focused on cardiovascular



Scientist Highlight: Luciana Mascarenhas Fonseca, PhD (AD-NAD RCMAR Scientist)

In this week's Scientist Highlights, we feature Luciana Mascarenhas Fonseca, PhD, who became an AD-NAD RCMAR Scientist in 2020. Dr.



Scientist Highlight: Chih-ying "Cynthia" Li, PhD, OTR, (UTMB-Texas RCMAR)

## YouTube Channel



The RCMAR YouTube Channel has a library of webinars, including topics like:

- Tools for Understanding Contextual Factors that Affect the Health of Diverse Older Adults. Speakers: Patricia Jones, NIA; Amy Kind, MD, PhD, University of WI; Jennifer Ailshire, PhD, USC-AD RCMAR
- Imposter Thoughts: Let's Talk about Them. Speaker: Ericka Boone, PhD, NIH; Roland Thorpe, PhD, JHAD-RCMAR; Brandon Brown, MD, MPH, CHIME; Mirella Diaz-Santos, PhD, CHIME
- Best Practices for Using and Obtaining Diversity Supplements. Speaker: Maria G. Carranza, PhD, NIA
- NIH Repays your Student Loans: And In-Depth Overview of the NIH Loan Repayment Programs. Speaker: Ericka Boone, PhD, NIH
- Additional video resources from RCMAR sites

And more!



## RCMAR Webinars

Getting the Most Out of Your Mentoring Relationships.  
Speaker: Roger B. Fillingim

Optimizing Mentoring Experiencing, Part II: Addressing Challenges that Arise. Speakers: Anna Napoles, Roger Fillingim, and Roland Thorpe

The NIH Review Process: Perspectives from a RCMAR Scientist. Speakers: Roger Fillingim, Alison Moore, Roland Thorpe, and Annie Nguyen

1 of 7

TOPIC	TITLE	SPR	PRESENTER	ADDITIONAL RESOURCES
HEALTHY AGING	Introduction to the Center for Adaptive Systems and Healthy Research (CHAS) Lab of Aging	LaBCE	WFA Core Course of CHAS	
	Working with a Postdoc	NIH/NIH	Jennifer Jones, Columbia	
CAREER DEVELOPMENT	Building Teams Across Disciplines and Areas of Expertise for Open Application and Research Success	USC/USC	John Elder	
	Should I Write a Grant?	USC/USC	R. Ryan Brown	
	Using your Research to Improve the Health and Well-being of Your Community	USC/USC	Amanda Woodard	
	Using Research Data for Writing a Grant	USC/USC	Amanda Woodard	
	How to Build a Successful Research Team: A Case Study of a Successful Research Team	USC/USC	David Rogers	
MENTORING SUCCESSFUL PROPOSALS	Going All the Way for the Next Big Grant: A Case Study	USC/USC	Amanda Woodard	
	The NIH on Award Process (part 1)	USA	Devi Tangers & Don Terry	
	Conceptual Models	NIH/NIH	Conna Fuller	
SOCIAL DETERMINANTS OF HEALTH DISPARITIES	Specificities	NIH/NIH	Conna Fuller	
	The Role of Social Determinants	USC/USC	Brian Yank	<a href="https://rcmar.org/resources/determinants">https://rcmar.org/resources/determinants</a>
	How education, occupation and household wealth influence longevity and health disparities in aging	LaBCE	Verne Valenzuela	
	How education, health and retirement income affect health disparities in aging	LaBCE	Flora Miller	
	Causes of health disparities in aging and Alzheimer's disease and related dementias	LaBCE	Ying Qian	
	Longitudinal and cross-sectional approaches to study health and health disparities	LaBCE	Ying Qian	
	How, when and health in aging	USA	Don Terry	
	How working, "working hard" and use of time in health disparities, life, work, and health	USC/USC	Brian Yank	<a href="https://rcmar.org/resources/determinants">https://rcmar.org/resources/determinants</a>
	How working, "working hard" and use of time in health disparities, life, work, and health	USC/USC	Brian Yank	<a href="https://rcmar.org/resources/determinants">https://rcmar.org/resources/determinants</a>
	How working, "working hard" and use of time in health disparities, life, work, and health	USC/USC	Amanda Woodard	

## Resources from RCMAR Sites

Articles and other resources on topics relevant to RCMAR scientists, including: career development topics, grant writing resources, social determinants of health disparities, working with minority populations, community engagement, measurement methods and more.

## CONNECT WITH SCIENTISTS

Looking for a mentor and/or collaborators on aging studies? Connect with the individuals in our RCMAR Network!

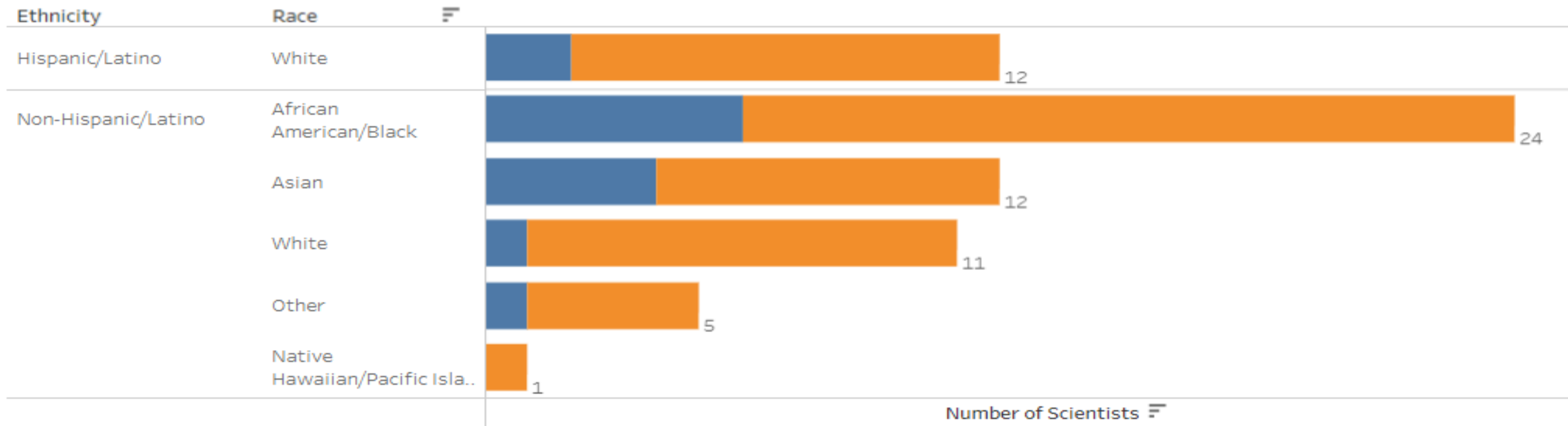
The individuals listed below are all our funded scientists – from all cohorts and across all our centers. Use the "email" function to reach out to them directly via email, or search for their current work using NIH Reporter.

Male Female

# SCIENTIST DATA AT-A-GLANCE



\*RCMARs I-III include 6 funded centers.  
 \*\*RCMAR IV includes 7 funded centers.  
 \*\*\*RCMAR V includes 18 funded centers.



# JOIN OUR DATA WORKSHOP

With Drs. Julie Zissimopoulos, Lisa Walke and Joanna Hart

Funding support from the National Institute of Aging (P30AG043703 & P30AG065539), USC - AD RCMAR, CARES-ADD

**LEVERAGING BEHAVIORAL SCIENCES FOR DEMENTIA CARE**

FRIDAY, SEPTEMBER 11, 2021 FROM 10:00AM TO 11:00AM PT  
REGISTRATION LINK  
<https://usc.zoom.us/j/9281918111?pwd=OWliRWlrc0x0S0x0LTUwLjZlM0p0eU9kdz09>

## 2019 Webinar

Resource Centers for Minority Aging Research  
RCMAR Coordinating Center

### Behavioral & Social Research & NIH Clinical Trial Guidance

Dr. Partha Bhattacharyya  
Dr. Lisa Onken

## Carolina Center on Alzheimer's Disease and Minority Research

Research Collaboration: Tips, Tactics, and Tales

June 12, 2020

## UCLA RCMAR #RCMAR @UCLArcmarchime - Jun 28, 2019

Congrats to #RCMAR CHIME Scientist Dr. Brandon Brown on his article in Science, "Yes, you can—and should—negotiate academic job offers"

Yes, you can—and should—negotiate academic job offers  
How a professor learned the importance of negotiating, and sharing his hard-won knowledge  
sciencemaq.org

## Ethnicity & Disease

An International Journal on Population Differences in Disease Patterns

Volume 30, Supplement 2 Recruitment and Retention of Diverse Older Adults into Research November 2020

## CCADMR Webinar: COVID-19 and the Social Determinants of Health Disparities in Older Adults

Marvella E. Ford, Ph.D.

### Events

**FRI, MAR 19**  
**NIH Repays Your Student Loans: An In-Depth Overview of the NIH Loan Repayment Programs**  
Resource Centers for Minority Aging Research (RCMAR) - Online Event

**FRI, FEB 19**  
**Planning for Compliance with CONSORT Requirements in Clinical Trials**  
Resource Centers for Minority Aging Research (RCMAR) - Online Event

**FRI, JAN 15**  
**RCMAR Webinar: Race and Racism in our Research**  
Resource Centers for Minority Aging Research (RCMAR) - Online Event

UC San Diego  
School of Medicine  
Shiley-Walton Alzheimer's Disease Research Center

AD RCI IAR  
SAN DIEGO



## APHA 2020 VIRTUAL

Annual Meeting and Expo • Oct. 24-28

Preventing Violence

## March 1, 2021 Mentoring Meeting

JHAD-Resource Center for Minority Aging Research @JohnsCenter

Have you subscribed to our YouTube Channel!? Here you can find all of our webinars, professional development series, and more...Subscribe to see what we are up to!

JHAD-RCMAR

youtube.com  
Johns Hopkins Alzheimer's Disease Research Center is based in the Department of Neurology at the Johns Hopkins University School of Medicine.

10:24 AM · Jan 14, 2021 · Twitter Web App

## RCMAR 5-15 Webinar

from RCMAR Coordinating Center

### Getting the Most Out of Your Mentoring Relationships

Dr. Roger B. Fillingim

"This meeting is being recorded and will be posted to the RCMAR website in the future. Please lines and microphone will be muted. Questions should be typed in the chat box."

1:01:20

## RCMAR National Coordinating Center

Starting soon! Hope you can join us.

RCMAR National Coordinating Center @RCMARCC - May 21

Join us on June 11th at 9am PT for our free RCMAR webinar on Best Practices for Using and Obtaining Diversity Supplements! Register here: [ow.ly/xoat5OE5u0n](https://ow.ly/xoat5OE5u0n)

### Webinar: Best Practices for Using & Obtaining Diversity Supplements

June 11, 2021 at 9AM PT

NIA's Diversity Supplement program supports the development of eligible trainee-candidates who seek independent careers in aging and geriatrics research and meet NIA's goal to enhance diversity in the biomedical workforce. In this webinar, Dr. Canzana will present the best practices for application preparation and submission, and discuss review and funding policies.

Dr. Maria G. Canzana



## Pivoting During the Pandemic: Biopsychosocial Considerations in Neurodegeneration

June 2, 2021  
Virtual Meeting

## MCUAAAR/PRBA Summer Mentoring Program

The Michigan Center for African American Aging Research (MCUAAAR) and Program for Research on Black Americans (PRBA) is pleased to announce its 2021 Summer Mentoring Workshop on African American Research. The workshop is virtual and will take place June 2-4, 2020. Drs. Robert Joseph Taylor, Khari Brown and Amanda Woodward are the program faculty. The

## NIA/RCMAR WORKSHOP of CSA

### Strategies for Successful Recruitment and Retention of Minority Elders

November 13, 2019  
8:00 am - 4:30 pm  
Austin Convention Center  
Austin, TX

A NIA Workshop on Innovative Recruitment and Retention of Minority Aging Research

JOIN US THIS FALL AS WE:

- Identify successful strategies for supporting ongoing retention of minority elders in health research.
- Identify successful strategies and NIA tools for supporting engagement of minority elders in health research.
- Describe the major barriers to participation in health research for minority elders of various race/ethnicities.

Registration & more information online at <https://rcmar.org/events/precon-2019/>

## Optimizing Mentoring Experiences, Part II: Addressing Challenges that Arise

"This meeting is being recorded and will be posted to the RCMAR website in the future."

## WEBINAR (APRIL 23, 2021)

### TOOLS FOR UNDERSTANDING CONTEXTUAL FACTORS THAT AFFECT THE HEALTH OF DIVERSE OLDER ADULTS

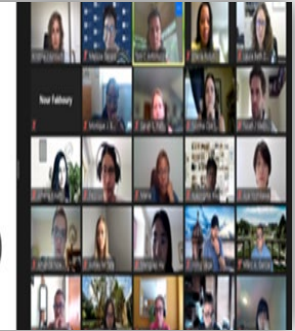
Speakers:  
Patricia Jones, DrPH, MPH, MS.  
Amy Kind, MD, PhD.  
Jennifer Allshire, PhD

## RCMAR CHIME and CTSI Summer 2021 Scientific Retreat - Register Today

Twenty Years, Sixty Scientists, over 500 Publications! Join the RCMAR CHIME family as we reflect on our upcoming 20th anniversary as a center! Download Flyer Current Agenda PDF Register today...

Register here by June 1st  
<https://rcmar.org/events/scientific-retreat-2021/>

MAY 6, 2021



## MCCFAD

Michigan Center for African American Aging Research

Welcome

### 2021 MCCFAD Summer Data Immersion (SDI)



# TRAINING ON RACISM: SCIENCE & TOOLS FOR THE PUBLIC HEALTH PROFESSIONAL (WEBINAR, SERIES)

September 1, 2020



## James S. Jackson's Continuing Legacy and Contributions

ISR INSIGHTS SPEAKER SERIES

### James S. Jackson's Continuing Legacy and Contributions to Social and Behavioral Research on Black Americans

Wednesday, March 24 | 4pm EST

Robert Taylor, Belinda Tucker, and Phillip Bowman

INSTITUTE FOR SOCIAL RESEARCH

Michigan Center for Urban African American Aging Research

Webinars for the NIGMS Training Community

Culturally Aware Mentorship with Dr. Sheri Lynn Black and Dr. Angela Byars-Winston

Watch later Share

Dr. Sheri Lynn Black

Dr. Angela Byars-Winston

### Culturally Aware Mentorship

Watch on YouTube 27, 3:00-4:00 p.m. ET

NIH National Institute of General Medical Sciences

Tuesday, December 1, 2020  
11am - 12pm EST

### MENTAL HEALTH AND PROTEST IN THE TIME OF COVID-19

WEBINAR TUES 12.1.2020 11AM-NOON

Dr. Riana Elyse Anderson

Dr. Nakeshia Williams

Dr. Riana Elyse Anderson: Assistant Professor, Health Behavior & Health Education, School of Public Health, University of Michigan

Dr. Nakeshia Williams: Assistant Professor, Educator Preparation, North Carolina Agricultural & Technical State University

The brutal deaths of George Floyd, Breonna Taylor and other Black and Brown Americans; the glaring racial inequalities in COVID diagnoses and deaths; and the protests arising from growing social and economic injustices have all amplified stress in the university community.

Drs. Anderson and Williams will identify stressors and discuss ways community members can get professional help, support one another, and foster a culture of

### Webinar: Imposter Thoughts: Let's Talk About Them

RCMAR

May 14, 2021 at 9AM PST

Dr. Ericka Boone

Dr. Roland J. Thorpe, Jr.

Drs. Ericka Boone and Roland J. Thorpe will present their perspectives on imposter syndrome, including how systemic/structural issues play a role in imposter thoughts. RCMAR scientists, Drs. Brandon Brown and Mirella Diaz-Santos will serve as panelists, sharing their experiences with imposter syndrome.

Jan 15th Webinar

Race and Racism in Our Research

NIH National Institute on Aging

1:00:23

vimeo



## Prevalence of Dementia in American Indians and Alaska Natives Compared to White, Black, and Hispanic Medicare Beneficiaries: Findings from the National Health and Aging Trends Study

Heehyul E. Moon<sup>1</sup> · Joseph Keawe'aimoku Kaholokula<sup>2</sup> · Richard F. MacLehose<sup>3</sup> · Sunshine M. Rote<sup>1</sup>

### JOURNAL ARTICLE

## Educational Benefits and Cognitive Health Life Expectancies: Racial/Ethnic, Nativity, and Gender Disparities

Marc A Garcia, PhD , Brian Downer, PhD, Chi-Tsun Chiu, PhD, Joseph L Saenz, PhD, Kasim Ortiz, MS, Rebeca Wong, PhD

*The Gerontologist*, Volume 61, Issue 3, April 2021, Pages 330–340,  
<https://doi.org/10.1093/geront/gnaa112>

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Alzheimer's & Dementia<sup>®</sup>  
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FEATURED ARTICLE |  Full Access

## Education differentially contributes to cognitive reserve across racial/ethnic groups

Justina F. Avila, Miguel Arce Rentería, Richard N. Jones, Jet M. J. Vonk, Indira Turney, Ketlyne Sol, Dominika Seblova, Franchesca Arias, Tanisha Hill-Jarrett, Shellie-Anne Levy, Oanh Meyer, Annie M. Racine, Sarah E. Tom, Rebecca J. Melrose, Kacie Deters, Luis D. Medina, Carmen I. Carrión, Mirella Díaz-Santos, DeAnnah R. Byrd, Anthony Chesebro, Juliet Colon, Kay C. Igwe, Benjamin Maas, Adam M. Brickman, Nicole Schupf, Richard Mayeux, Jennifer J. Manly 

First published: 22 August 2020 | <https://doi.org/10.1002/alz.12176> | Citations: 19



*Journals of Gerontology: Social Sciences*  
cite as: *J Gerontol B Psychol Sci Soc Sci* 2020, Vol. 75, No. 7, e105–e112  
doi:10.1093/geronb/gba046  
Advance Access publication April 25, 2019



Original Article

## Racial and Educational Disparities in Dementia and Dementia-Free Life Expectancy

Mateo P. Farina, MA,<sup>1,\*</sup> Mark D. Hayward, PhD,<sup>1</sup> Jung Ki Kim, PhD,<sup>2</sup> and Eileen M. Crimmins, PhD<sup>2</sup>

Received: 28 July 2021 | Revised: 17 September 2021 | Accepted: 21 September 2021 | Published online: 7 December 2021

DOI: 10.1002/dad2.12250

  
Diagnosis, Assessment  
& Disease Monitoring

### RESEARCH ARTICLE

## Cognitive screening with functional assessment improves diagnostic accuracy and attenuates bias

David Andrés González<sup>1,2</sup> | Mitzi M. Gonzales<sup>1,2</sup> | Kyle J. Jennette<sup>3</sup> | Jason R. Soble<sup>3,4</sup>  
| Bernard Fongang<sup>2,5</sup>

alzheimer's  
association

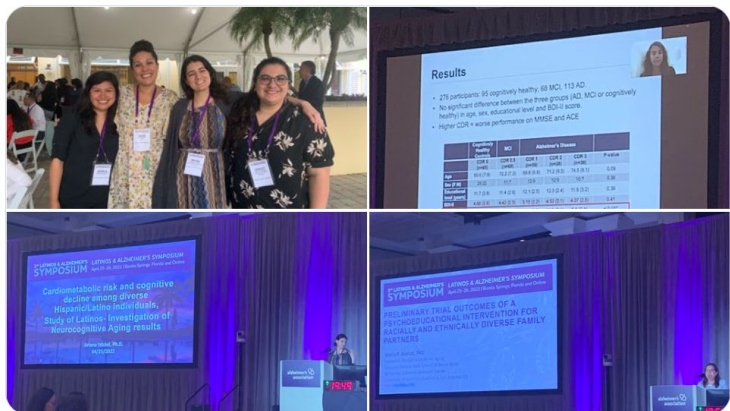
Alzheimer's & Dementia<sup>®</sup>  
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Featured Article |  Full Access

## Longitudinal analysis of dementia diagnosis and specialty care among racially diverse Medicare beneficiaries

Emmanuel Fulgence Drabo, Douglas Barthold, Geoffrey Joyce, Patricia Ferido, Helena Chang Chui

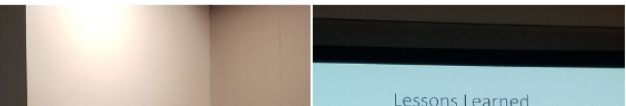
**Lesley A. Guareña** @L\_guareña · Apr 26  
**San Diego AD RCMAR** @SD\_ADRCMAR representing at the @alzassociation #LatinoSymposium in Bonita Springs, FL!! Powerful research presented by Drs. #MonicaMDiaz #ArianaStickel #MariaAranda @solincalab



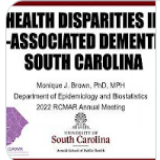
Kacie D and Ángela Gutiérrez

**C. A. Mingo, PhD** @MingoPhd · Nov 13, 2019  
 Getting a great deal of valuable information from the 2019 RCMAR Recruitment and Retention of Minority Elders: An NIA Priority Area @geronsociety

**Dr. Jennifer Manly** @ManlyEpic · Nov 13, 2019  
 Kristine Ajrouch of @mccfad has some critical lessons learned to share from their experience recruiting Arab Americans and Latinx people in the Detroit metro area for research on ADRD. #GSA2019



**Dr. Jennifer Manly** @ManlyEpic · Mar 31  
 Aging & Health Equity Scholars: Check out this YouTube playlist of completed works by #RCMAR Scientists! The RCMAR Centers around the US award pilot funds to researchers from underrepresented backgrounds who with minoritized older adults. #RCMARAnnual2022



youtube.com  
 2022 RCMAR Annual Meeting: Completed Works Presentations

**San Diego AD-RCMAR** @SD\_ADRCMAR · Jun 2  
 We are thrilled to announce the new cohort of SD AD RCMAR scientists! Learn more about them and their pilot projects here: knit.ucsd.edu/sandiegoadrcma...

## SAN DIEGO AD-RCMAR 2022-23 SCIENTISTS

**Lauren Brown, PhD, MPH**, Assistant Professor, School of Public Health, San Diego State University  
 Project Title: Examining Cohort Variation in Chronic Stress, Anthropometric, Biological, and Cognitive Function of Black and White Older Adults Across Age Cohorts

**Krystal Kittle, PhD**, Postdoctoral Research Fellow, School of Public Health, Social & Behavioral Health, University of Nevada, Las Vegas  
 Project Title: Racial/Ethnically Diverse Sexual and Gender Minority Caregivers of Individuals with Alzheimer's Disease and Related Dementias

**Sabrina Smiley, PhD**, Assistant Professor, School of Public Health, San Diego State University  
 Project Title: A Qualitative Study Designed to Explore the Experience of Social Isolation, Loneliness, and Cognitive Function among Older Black Individuals with Cocaine-Use Disorder (CUD)

**Lize Tibiriciá, PsyD**, T32 Postdoctoral Fellow, Stein Institute for Research on Aging, UC San Diego, Department of Psychiatry  
 Project Title: The Effects of Perceived Discrimination and Nativity Status on Cognitive Decline among Hispanic/Latin American Older Adults

**Roland J. Thorpe, Jr** @rolandjthorpe · Jul 30, 2021  
 Check out @JohnsCenter RCMAR Scientist @halima\_amjad sharing results from her outstanding work at the first AD RCMAR symposium 2021 AAIC meeting @DrLRGuerrero @hillcv17 @RCMARCC

**Albert Wu** @withyouDrWu · May 21

Vanya Jones @SafePhD is winner of the Stebbins Medal for outstanding contribution to teaching at @JohnsHopkinsSPH #JHU2022  
 Congratulations! @EllenJMacKenzie



**Dr. Tiffany Kindratt** @tbkindratt · Nov 10, 2021  
 I'm so thankful to be part of this amazing group of MCCFAD Research Scientists! I am looking forward to many presentations over the next few days from other RCMAR scientists and mentors! #GSA2021 @Liz\_Munoz @geronsociety @erica\_dim @mccfad @lzhodne @RCMARCC

**alison moore** @AlisonMooreMD · Jul 1, 2021  
 Hear, hear! They are bright stars whom we were fortunate to have in our program and thrilled to have as forever members of the rcmar community. @RCMARCC

**San Diego AD-RCMAR** @SD\_ADRCMAR · Jun 30, 2021  
 We are beyond proud of our 2020-2021 graduating cohort of scientists @Talarousansh @Hparada @DrLG12 Zvinka Zlatar & Ariana Stickel. The future of aging research in underrepresented communities looks brighter because of you all!

Funding Opportunities  
Coming Soon!

# Resource Centers for Minority Aging Research (RCMAR) Program

For details and deadlines:

Aging & AD/ADRD Centers (NOT-AG-22-023)

Coordinating Center (NOT-AG-22-024)



Questions? Contact Dr. Melissa S. Gerald  
[Melissa.Gerald@nih.gov](mailto:Melissa.Gerald@nih.gov)



# Thank you!



**Melissa S. Gerald, PhD**  
Division of Behavioral and Social Research (BSR)  
National Institute on Aging (NIA)  
**Email:** [melissa.gerald@nih.gov](mailto:melissa.gerald@nih.gov)



**MCCFAD**

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FACTORS IN ALZHEIMER'S DISEASE

# National Alzheimer's Project Act (NAPA)

Kristine J. Ajrouch, PhD  
Professor of Sociology

July 25, 2022

# Overview

## MCCFAD Goals

- Advance ADRD Science
- Increase ADRD Health Workforce
- A Healthy Society for All



## ALZHEIMER'S DISEASE IN CONTEXT

Epidemiology of AD  
Health Economics of AD  
Culturally Sensitive AD Care

Executive  
Committee

Expert Advisory  
Board

Community Based Older  
Adults, Caregivers and  
Health Professionals

## ADMINISTRATIVE CORE

Oversight, Communication, Facilitate linkages

## RESEARCH AND EDUCATION CORE

RCMAR Scientist Seminar  
Mentoring and Career Development  
Pilot Recruitment Plan  
Pilot Studies  
Core Activity Evaluation

## COMMUNITY LIAISON & RECRUITMENT CORE

Share Research Results with Communities  
Dissemination to Larger Scientific Community  
Research Volunteer Directory

## ANALYSIS CORE

Culturally Sensitive Measurement  
Person and Variable Centered Approaches  
Methods Dissemination

### Dr. Kristine Ajrouch Director

Administrative Core Lead  
Community Liaison and  
Recruitment Core Lead

### Dr. Laura Zahodne Co-Director

Research and Education  
Core Co-Lead  
Analytic Core Co-Lead

### Dr. Noah Webster MCCFAD Faculty

Analytic Core Co-Lead

### Dr. Briana Mezuk MCCFAD Area Expert

Epidemiology of AD

### Dr. HwaJung Choi MCCFAD Area Expert

Health Economics

### Dr. Toni Antonucci Co-Director

Research and Education Core  
Lead  
Administrative Core Co-Lead

### Dr. Richard Gonzalez MCCFAD Faculty

Analytic Core Lead

### Dr. Irving Vega MCCFAD Faculty

Community Liaison and  
Recruitment Core Co-Lead

### Dr. Lindsay Ryan MCCFAD Area Expert

Epidemiology of AD

### Dr. Sheria Robinson-Lane MCCFAD Area Expert

Culturally Sensitive Care

# Advance ADRD Science

Through a focus on unique communities  
Middle Eastern/Arab & Latino

Why these groups?

Risk and prevalence of AD greater compared to whites

Growing immigrant communities

Similar stresses & strong family ties

Non/Traditionally considered underrepresented

Identify new pathways of risk and resilience





# Research of, by and for the Community

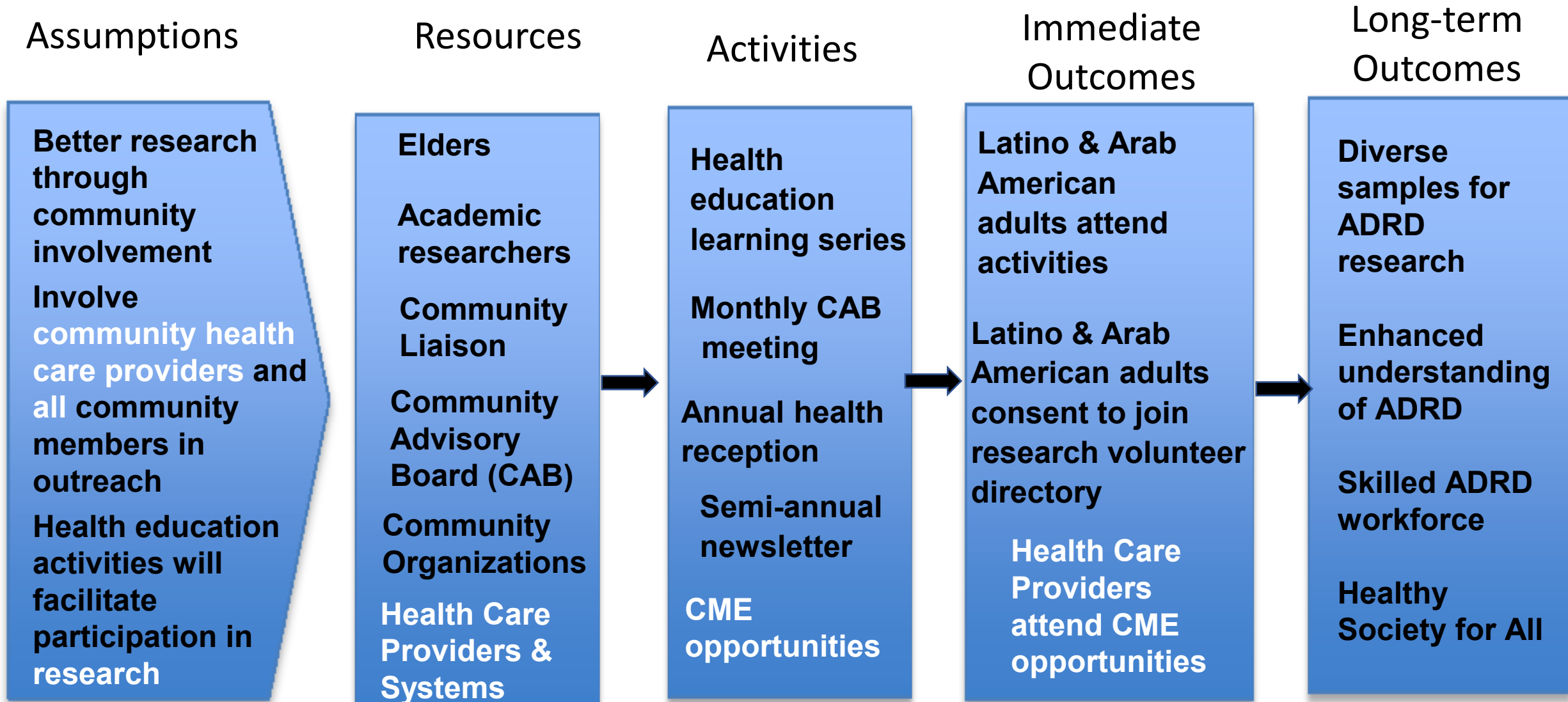
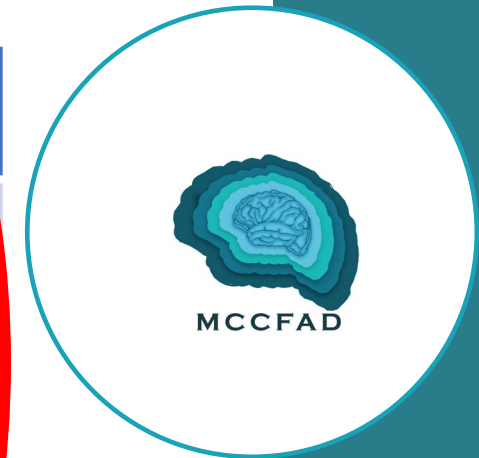


Figure 1. Logic model illustrating the recruitment process for building a volunteer research pool within the Latino and Arab American communities (adapted from Chadiha et al., 2011)

# Research Volunteer Directory

RVD Members	Y1	Y2	Y3	Y4	Total
Middle Eastern/Arab	100	117	67	140	424
Latino	117	70	35	99	321
Total	217	187	102	239	745



# Advance ADRD Science

- Community Based Scientists as Leaders have:
  - Trust of the community
  - Knowledge of cultural expressions
  - Awareness of local customs



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# Increase ADRD Workforce

<b>Research Scientist (n=17)</b>	<b>2018-2023</b>
<u>Race/Ethnicity</u>	
Arab/Middle Eastern	4
Latino	6
African American	4
<u>Institution</u>	
R1	14
R2	3
<u>AD Area</u>	
Epidemiology	11
Culturally Sensitive Care	6

# Increase ADRD Workforce

<b>Summer Data Immersion (SDI) n=98</b>	<b>2019-2022</b>
<u>Race/Ethnicity</u>	
Arab/Middle Eastern	7
Latino	15
African American	22
<u>Position</u>	
Graduate Student	21
Post Doc	20
Assistant Professor	38

# Increase ADRD Workforce Success Indicators



<u>Years</u>	<u>Manuscripts</u>	<u>Grants</u>
2018-2022	144	39

**2019** SDI focused on ADRD epidemiology

Modeling Cognitive Aging in Context – 5 manuscripts; *Research on Human Development*

**2021** SDI focused on culturally sensitive ADRD care

ADRD Care in Context – 9 manuscripts in *Journal of Gerontology: Social Science*

**2022** SDI focused on health economics

The Costs of ADRD – 7 manuscripts TBD



**Florence Dallo, PhD, MPH**  
2018 Scientist

**Chair and Associate Professor**  
Department of Public and  
Environmental Wellness  
School of Health Sciences  
Oakland University

**Study Title:** The Epidemiology of  
Alzheimer's Disease and Related  
Dementias (ADRD) among Arab  
Americans

Original Research Article

## Prevalence of Self-reported Cognitive Impairment Among Arab American Immigrants in the United States

Florence J. Dallo, PhD, MPH,<sup>1,\*</sup> Tiffany B. Kindratt, PhD, MPH,<sup>2</sup> and Laura Zahodne, PhD<sup>3</sup>

**Research Design and Methods:** We used 18 years (2000–2017) of National Health Interview Survey data (n = 228 985; ages ≥ 45 years). Weighted percentages, prevalence estimates, and multivariable logistic regression models were calculated.

**Results:** The age- and sex-adjusted prevalence of self-reported cognitive impairment was significantly higher among Arab American immigrants (9.7%) compared to U.S.-born and non-Hispanic White immigrants (~7.4%).



**Marc Garcia, PhD**

**2019 Scientist**

**Assistant Professor**

Department of Sociology  
Syracuse University

**Study Title:** Age of Migration and Cognition: The Importance of Contextual Factors in Cognitive Aging Among Older Latinos in the United States

## **Age of Migration and Cognitive Function Among Older Latinos in the United States**

**Marc A. Garcia<sup>a,\*</sup>, Kasim Ortiz<sup>b</sup>, Sandra P. Arévalo<sup>c</sup>, Erica D. Diminich<sup>d</sup>, Emily Briceño<sup>e</sup>, Irving E. Vega<sup>f</sup>, Wassim Tarraf<sup>g,\*</sup>**

**Methods:** We used longitudinal biennial data from the Health and Retirement Study (HRS; 2006–2014) to fit generalized linear and linear latent growth curve models for: 1) global cognition (Modified Telephone Interview for Cognitive Status; TICS-M); 2) memory and attention subdomains of TICS-M; and 3) cognitive dysfunction. We also tested for sex modifications.

**Results:** In age and sex adjusted models, all Latino subgroups, independent of nativity and age of migration, had lower global and domain-specific cognitive scores and higher propensity of cognitive impairment classification compared to USB-NLWs. Differences between USB Latinos, but not other Latino subgroups, and USB-NLWs remained after full covariate adjustment. Latinas, independent of nativity or age of migration, had poorer cognitive scores relative to NLW females. Differences between all Latinos and USB-NLWs were principally expressed at baseline. Racial/ ethnic, nativity, and age of migration grouping was not associated with slope (nor explained variance) of cognitive decline.



# Towards a Healthy Society for All

- Meeting the highest standards while creating new pathways
  - Recognizing need for traditional and non-traditional measures of ADRD risk and resilience
- Use non-traditional criteria to invest in future of RS from underrepresented communities
  - Not just R1, but R2 and possibly R3
  - Applied research results to realize real life impact
- Why scientists from within and without participate
  - Model collegiality, supportive networks for success
  - Navigating academia (teaching, research and service expectations)



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# Conclusions and Future Directions

- RCMAR model benefits/success
  - Longstanding commitment to making underrepresented groups visible in academia and research
  - Advancing the science of health and health disparities
- RCMAR Challenges
  - Underfunded compared to other NIA aging centers
  - Lack of high quality data with minority representation
- Importance of work through MCCFAD
  - Social and behavioral emphasis - key to addressing ADRD disparities
  - Inclusive approach to addressing disparities by expanding categories/linking to other Centers
- Thereby Creating a Healthy Society for All



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# **Ready to Launch: Experiences of a JHAD-RCMAR Scholar**

**Chanee D. Fabius, PhD, MA**

**Assistant Professor**

**Department of Health Policy and Management**

**Johns Hopkins Bloomberg School of Public Health**

# Chanee Fabius



2009  
Syracuse University, BS



2009-2013  
Care Manager



2016  
University of Connecticut, PhD



2016-2018  
Postdoctoral Fellow



JOHNS HOPKINS  
UNIVERSITY

2018- Present

## Areas of Research

- Racial, socioeconomic, and disease-specific (i.e., dementia) differences in networks of care (home care; family caregivers); care experiences of older adults and caregivers
- Effects of community-based long-term services and supports on quality of life across diverse groups of older adults
- Strengthening the home care workforce



# Surveying Direct Care Agencies in Maryland to Examine Quality of Life of Older Medicaid Home and Community-Based Service Recipients with ADRD

## Specific Aims

1. Survey Maryland direct care agencies about current practices, barriers, and opportunities to improve training of direct care workers of persons with ADRD.
2. To assess variability in Maryland direct care agencies' organizational characteristics and older HCBS recipients' quality of life outcomes.



# Mentorship and Resources

## Leadership

Dr. Roland  
Thorpe

Dr. George  
Rebok

## Mentorship team

Dr. Jennifer Wolff

Dr. Deirdre  
Johnston

Dr. Joe Gallo

Dr. Quincy Samus

## Community Liaison and Recruitment Support

Dr. Janice Bowie

## Analysis Support

Dr. Jeannie  
Leoutsakos



# Engagement with other scientists

Professional  
development series

JHAD-RCMAR Professional Development Series: Work in Progress  
“The Direct Care Workforce Supporting Medicaid-Enrolled Older Adults Living  
with ADRD in the Community: Findings from a Statewide Survey”

Friday, March 11, 2022  
1:00-2:00 pm EST via Zoom



Chaneë Fabius, PhD  
JHAD-RCMAR Cohort 3 Scientist

# Open doors and new opportunities



- 2021 NIA IMPACT Collaboratory Career Development Award Recipient:

**“Engaging and Integrating Direct Care Workers in Care Delivery for Persons Living with Dementia in the Community”**

- K01 proposal: **“Improving Information Sharing Between Family Caregivers and Home Care Aides Caring for Persons Living with ADRD”** - submitted February 2022





# Surveying Direct Care Agencies in Maryland to Examine Quality of Life of Older Medicaid Home and Community-Based Service Recipients with ADRD

## Specific Aims

1. Survey Maryland direct care agencies about current practices, barriers, and opportunities to improve training of direct care workers of persons with ADRD.
2. To assess variability in Maryland direct care agencies' organizational characteristics and older HCBS recipients' quality of life outcomes.



# Background: What we know; what we don't know



# Home and Community-Based Services

Goal is to delay or replace the need for nursing home services by allowing people to “age-in-place”

Administered through states’ Medicaid programs (otherwise private pay)



# The Direct Care Workforce

- Personal care aides, home health aides who help with routine daily activities
- Fastest growing workforce in the US / 4.5 million workers in the US
- Demand driven by population aging and change in supply in family caregivers
- Over-represented by women, racial/ethnic minorities, immigrants
- Low-wage job with minimal training
- Little known about direct care agencies' characteristics, supports, for direct care workers, or implications for older adults



# Methods: How We Conducted This Study



# Objectives

Fabius, C. D., Millar, R., Geil, E., Stockwell, I., Deihl, C., Johnston, M. D., Gallo, J., Wolff, J. L. (Revise and Resubmit). Direct Care Worker Engagement and Experiences Caring for Older Adults with Dementia: Findings from a Statewide Survey of Direct Care Agencies.

1. Compare attributes of older HCBS participants and Medicaid-financed direct care agencies in Maryland by dementia status.
2. Examine care experiences of older adults and family caregivers across Medicaid-financed direct care agencies.



# Methods - Data: Survey of Direct Care Agencies

- Survey of Licensed Direct Care Agencies
  - Not Medicare Home Health; Primarily paid by Medicaid HCBS or private pay
  - Direct care agency/worker/client/ characteristics, direct care worker training requirements, roles related to health information technology, dementia-related challenges and supports
- Recruitment & Data Collection
  - Proof-of-Concept with the Maryland National-Capital Homecare Association
  - Multi-modal (e.g., US postal mail, phone, online)
  - Mailed surveys followed by two phone calls
  - February 2021 - June 2021

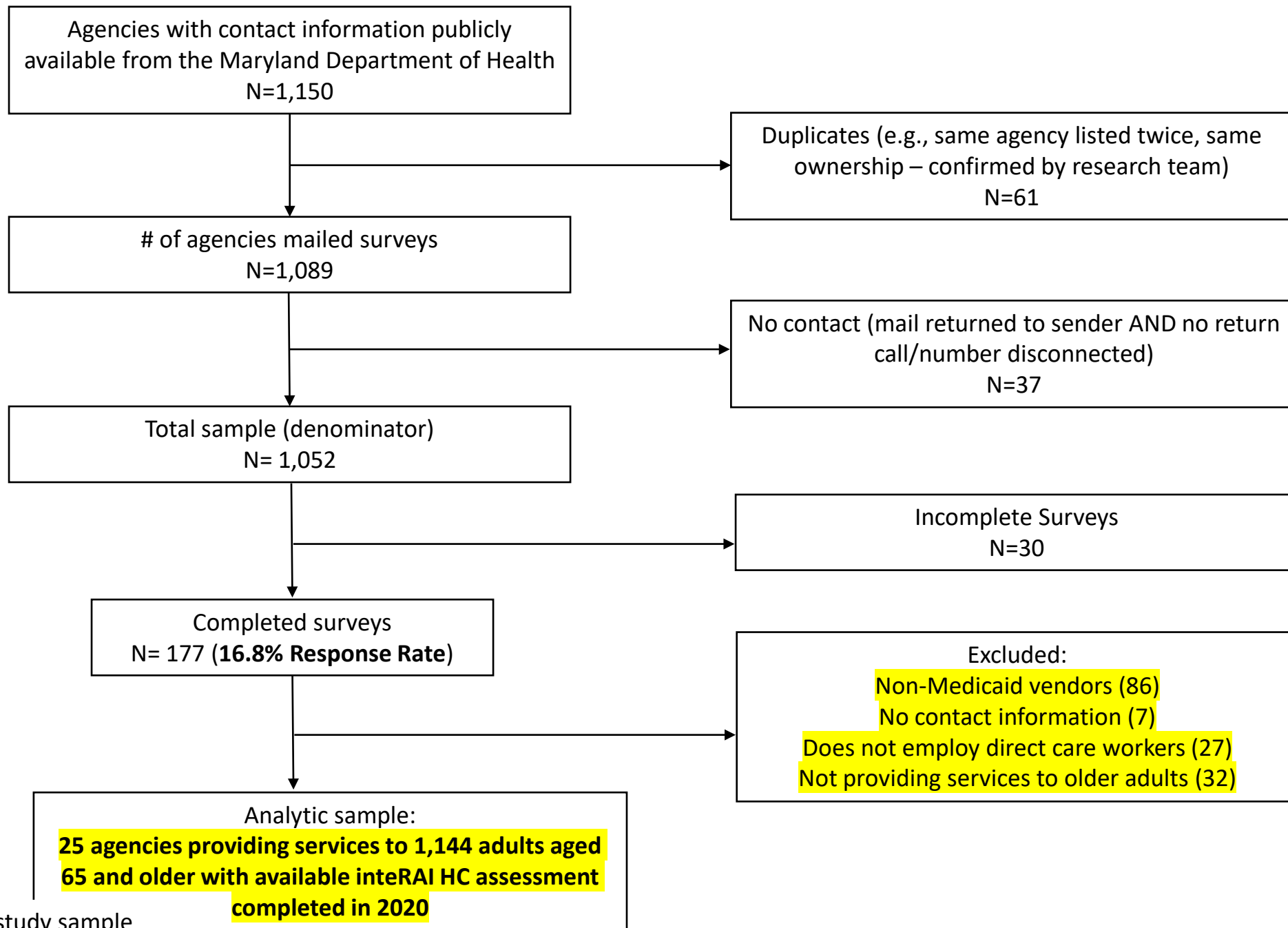


# Methods - Data: interRAI Home Care (HC) Assessment

- Completed by direct care agency nurses on annual basis
- Collects information about HCBS participants' function, social factors, caregiver burden, and health care utilization.
- Used to track changes that may warrant revisions to participants' service care plans.







Flow chart describing study sample

# Methods: Measures

## Participant care experiences

- **Low social engagement**: 30 or more days since last able to participate in social activities of longstanding interest
- **Hospitalization**: any in the last 90 days
- **Emergency room visit**: any in the last 90 days

## Caregivers' care experiences

- **Feeling overwhelmed by HCBS participant's illness**: yes/no
- **Expresses feelings of distress, anger, or depression**: yes/no
- **Unable to continue caregiving**: yes/no



# Methods: Measures and Analysis

## Participant characteristics

- Age
- Gender
- Marital status
- Race/ethnicity
- Disability
- Dementia (score of 12 or less on the Brief Interview of Mental Health [BIMS])

## Direct care agency characteristics

- Agency tenure
- # of participants
- % of participants ages 65 and older
- Dementia related challenges
- Dementia-specific training
- Assistance with health information technology
- Dementia related supplemental services

**Analysis:** Descriptive; Pearson's chi-square and Student's t-tests

# Results: Linking Direct Care Agencies to Maryland Medicaid HCBS Recipient Outcomes



**Table 1. Sociodemographic, Disability, and Care Experiences, by Direct Care Agency Participant Dementia Status**

	Dementia 53.8% (615)	No Dementia 46.2% (529)
<b>Direct Care Agency Participant Characteristics, %</b>		
<b>Age</b>		
65-74	19.2	25.7**
75-84	34.8	44.2
85+	46.0	30.1
<b>Sex</b>		
Male	28.6	25.0
Female	71.4	75.1
<b>Race/Ethnicity</b>		
Non-Hispanic White	64.9	66.4***
Non-Hispanic Black	14.0	20.8
Non-Hispanic Asian	16.8	10.6
Hispanic and other	4.4	2.3
Married	29.1	27.0
ADL Limitations, M (SD)	7.6 (1.7)	6.7 (1.9)***
<b>Participant Care Experiences, %</b>		
Low Social Engagement	62.9	60.3
<b>Health care utilization</b>		
Hospitalizations	7.5	8.1
Emergency room visits	8.9	7.8
<b>Caregiver Care Experiences, %</b>		
Caregiver is overwhelmed	16.9	8.3***
Caregiver is distressed, angry, or depressed	6.0	3.0**
Caregiver is unable to continue caregiving	6.2	3.8**

Note. \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Among (N=1,144) older adults (65+) receiving Maryland Community Personal Assistance Services and Community First Choice services from (n=25) direct care agencies; Dementia defined as self-reported Alzheimer's Diseases and Related Dementias or a Brief Interview for Mental Status (BIMS) score of 12 or less; "Other" race/ethnicity includes American Indian/Alaska Native, Native Hawaiian/Other Pacific Islander, and those with more than one race selected.

Table 2. Direct Care Agency Characteristics, by Participant Dementia Status

	Dementia 53.8% (615) 615	No Dementia 46.2% (529) 529
<u>Direct Care Agency Characteristics, %</u>		
Years of operation		
Less than 1 year	2.0	2.3
1-4 years	2.9	4.7
5-9 years	12.7	9.1
10 or more years	82.4	83.9
Number of participants enrolled at this Agency		
<=50	9.1	12.3
51-100	12.5	10.2
>=100	78.4	77.5
Dementia related caregiving challenges		
Challenges managing dementia related behaviors	95.3	92.2
Issues communicating with participants with dementia	53.8	46.2
Issues with family	96.3	95.1
<u>Direct Care Agency Training and Supports, %</u>		
Dementia-specific direct care worker training	15.6	13.0
Direct care workers help with any health information technology	76.9	68.1***
View sections of electronic health record	75.9	67.5**
Perform health management tasks	12.7	11.0
Interact with clinicians	12.7	10.8
Dementia related supplemental services		
Any supplemental services	84.4	77.5*
Family caregiver dementia-specific training	15.6	11.3*
Referrals to other supportive services	78.5	69.8***
Information about other supportive services	78.4	67.1***

Note. \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . Among (n=1,144) older adults (65+) receiving Maryland Community Personal Assistance Services and Community First Choice services from (n=25) direct care agencies;. Alzheimer's Diseases and Related Dementias or a Brief Interview for Mental Status (BIMS) score of 12 or less

Table 3. Direct Care Agency Training and Supports, by Participant Care Experiences

	Low Social Engagement <sup>a</sup>			Hospitalizations			Emergency room visits		
	Yes 64.6% (706) %	No 35.4% (387) %	<i>p</i>	Yes 7.8% (89) %	No 92.2% (1,055) %	<i>p</i>	Yes 8.4% (96) %	No 91.6% (1,048) %	<i>p</i>
Dementia specific training required	16.2	11.1	0.02	23.6	13.7	0.01	22.9	13.7	0.01
Direct care workers assist with any health information technology	75.2	68.7	0.02	69.7	73.1	0.49	70.8	73.0	0.65
Direct care agency offers any supplemental services	83.4	76.7	<0.01	85.4	80.9	0.29	85.4	80.8	0.27

Among (n=1,144) older adults (65+) receiving Maryland Community Personal Assistance Services and Community First Choice services from (n=25) direct care agencies; Comparisons based on Pearson's chi-square tests. a. Missing data for low social engagement (n=51)



Table 4. Direct Care Agency Training and Supports, by Caregiver Experiences

	Caregiver is overwhelmed <sup>a</sup>			Caregiver is distressed, angry, or depressed <sup>a</sup>			Unable to continue caregiving <sup>a</sup>		
	Yes 12.9% (148) %	No 87.1% (993) %	p	Yes 4.6% (53) %	No 95.4% (1,087) %	p	Yes 4.6% (53) %	No 95.4% (1,087) %	p
Dementia specific training required	18.2	13.8	0.15	*	*	*	22.6	14.0	0.07
Direct care workers assist with any health information technology	<b>81.8</b>	<b>71.5</b>	<b>&lt;0.01</b>	83.0	72.3	0.09	79.3	72.5	0.28
Direct care agency offers any supplemental services	<b>90.0</b>	<b>79.9</b>	<b>&lt;0.01</b>	90.6	80.8	0.07	90.6	80.8	0.07

Among (n=1,144) older adults (65+) receiving Maryland Community Personal Assistance Services and Community First Choice services from (n=25) direct care agencies; Comparisons based on Pearson's chi-square tests. a. Missing data for caregiving is overwhelmed (n=3), distressed, angry or depressed (n=4), and unable to continue caregiving (n=4). \*Unable to disclose values <10.





# Discussion



# Discussion

- Findings support earlier work that highlights vulnerable nature of community-dwelling older adults
- Opportunities to better include direct care workers in interdisciplinary care teams
- There are benefits of Medicaid HCBS for family and unpaid caregivers.
- Care experiences vary by dementia status.



# Limitations

- Experiences of HCBS participants and caregivers in one state.
- Low survey response rate.
- Unable to determine whether surveys are completed with assistance of, or solely with caregiver.
- Unable to determine amount, frequency, and type of services older adults are receiving



# Conclusion

- Findings have implications for home care delivery and way in which we understand the contribution of direct care agency and direct care worker characteristics in experiences of older adults and caregivers.
- Strengthening of HCBS is integral if policymakers and providers are to support families in the community.



# Acknowledgements

## Mentors

Jennifer Wolff, PhD  
Joe Gallo, MD, MPH  
Deirdre Johnston, MB, BCh, BAO

## Collaborators



## Funding

National Institute on Aging: Johns Hopkins Alzheimer's Disease - Resource Center on Minority Aging Research (P30AG059298)

Johns Hopkins Bloomberg School of Public Health Faculty Innovation Fund Award



# Questions?

Thank you!

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@ChaneeFabius

