Examining African Americans Risk Factors and Susceptibility for Alzheimer's Disease

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Disclosures

Relevant Financial Relationships

- Salaried Associate Professor at Washington University
- Honorarium for speaking engagements
- Funding from the National Institutes of Health –Eunice Kennedy Shriver National Institute of Child Health & Human Development, NCATS, NIA& NIA Standing Study Section Member
- Funding from CDC
- Member of Community & Patient Advisory Committees at different academic medical cenrters
- Health Equity Research Consultant
- Research collaborator with Genentech/Roche

Relevant Non-Financial Relationships

- Visiting Professorship with the University of Puerto Rico
- Research Collaborator with Mayo Clinic
- Board President for Health Literacy Media
- Reviewer for multiple biomedical research journals

Learning Objectives



Now

Review the epidemiology of ADRD



Opportunity

Discussion of social determinants of health experienced by African Americans at Risk for ADRD

3.

Willingness

Determining actionable steps to increase health equity

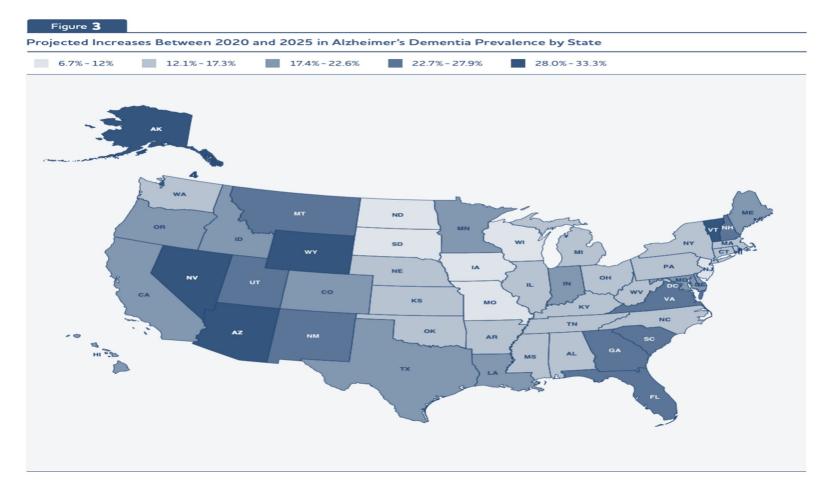
"In our world, divide and conquer must become define and empower.

— Audre Lorde



Review the epidemiology of ADRD

Epidemiology: Alzheimer's Association Report



Race in the US



Race & Ethnicity As We Know It

Current Races

Current Ethnicity

- American Indian or Alaska Native
- •Asian
- Black or African American (includes all those who selfidentify across the African diaspora)
- Native Hawaiian or Other
 Pacific Islander
- White

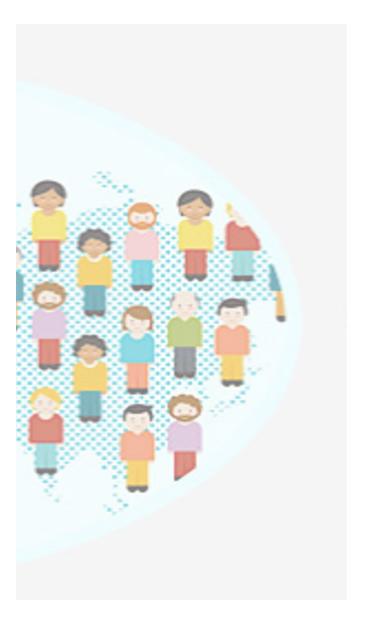
•Hispanic or Latin/a/o/x



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A true understanding of disease risk requires a thorough examination of root causes. 'Race' and 'ethnicity' are poorly defined terms that serve as flawed surrogates for multiple environmental and genetic factors in disease causation including ancestral geographic origins, socioeconomic status, education, and access to health care. Research must move beyond these weak and imperfect proxy relationships to define the more proximate factors that influence health.

Francis Collins, MD, PhD statement in 2004



The Epidemiology of ADRD in African Americans

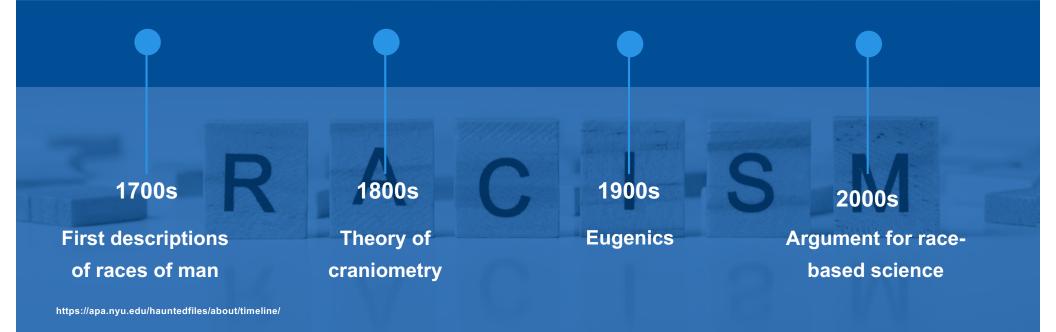
"My humanity is bound to yours, for we can only be human together."

— Desmond Tutu

Opportunity

Discussion of social determinants of health experienced by African Americans Risk for ADRD

Timeline of Racism in Science





Racialization

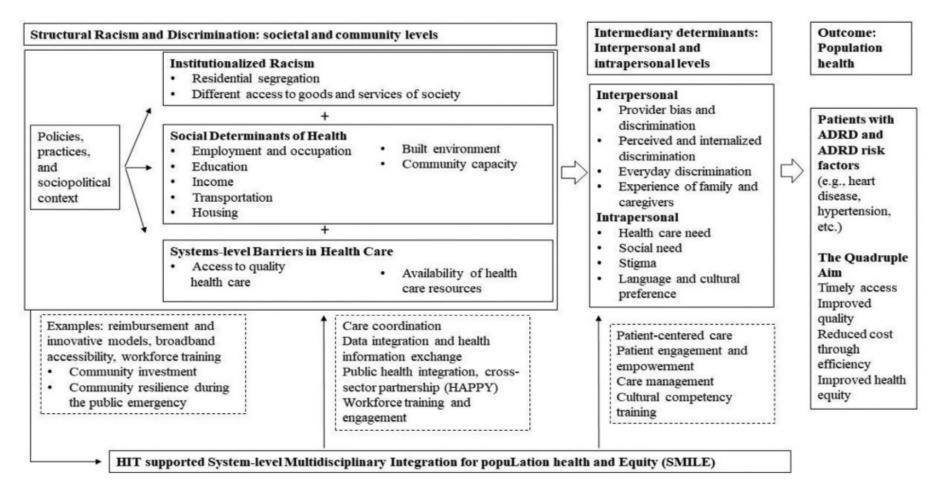
Human Genome Project recognized that genetics characterize only geographic origins of ancestors – this is not race

But there is a predisposition for many groups based on the social construct of race to experience more disparities in health

For instance, we are often categorized by how we look, our hair texture, facial features, or our skin tone

Racialized groups have different experiences and transgenerational histories of slavery, immigration, genocide, and acculturation with population-level health outcomes being altered across generations because of racialization

Framework of structural racism and discrimination in ADRD: HAPPY + HIT



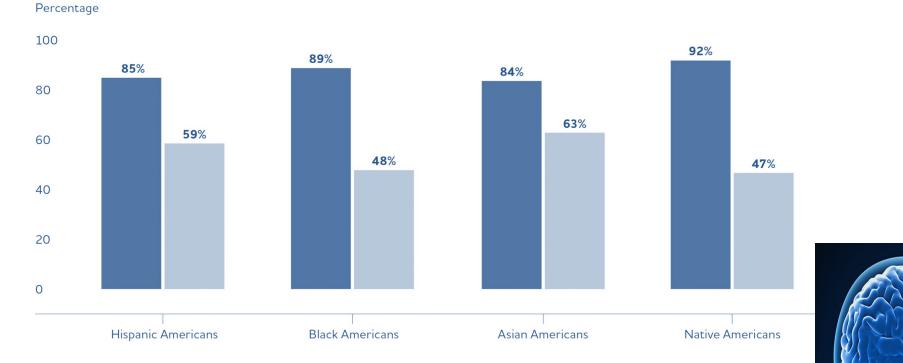
Chen J, Buchongo P, Spencer MRT, Reynolds CF 3rd. An HIT-Supported Care Coordination Framework for Reducing Structural Racism and Discrimination for Patients With ADRD. Am J Geriatr Psychiatry. 2022;30(11):1171-1179. doi:10.1016/j.jagp.2022.04.010

FIGURE 19

Access to Health Care Providers Who Understand Racial and Ethnic Backgrounds Among U.S. Adults



Confident that (race/ethnicity) patients currently have access to providers who understand their ethnic or racial background



Source: Alzheimer's Association 2021 Alzheimer's Disease Facts and Figures.

Interpersonal & Institutional Racism Was Associated With Lower Memory Scores Among Multiracial Groups

Multiple Studies

• Evaluated experiences with interpersonal and institutional racism

Structural Racism

- Blacks noted more experiences
- Yet, all groups reported lower episodic memory

Lifetime experiences with Racism

Persons 90+ lower semantic memory



"Prejudice is the burden that confuses the past, threatens the future, and renders the present in accessible"

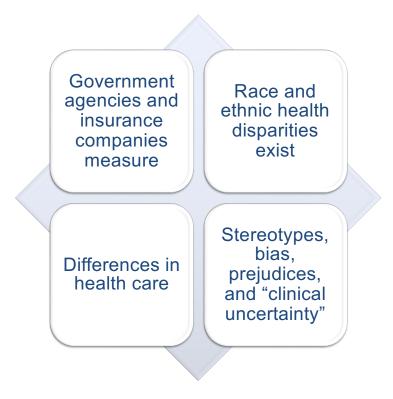
— Maya Angelou



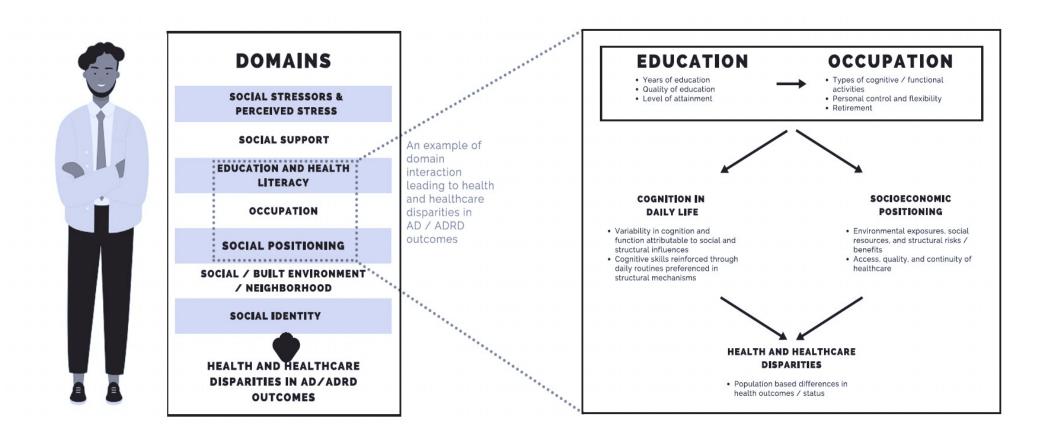
Determining actionable steps to increase health equity



Why measure race factors?



Intersection of Identify & Health



Diversity in Healthcare

Participants of color often prefer health care providers who relate to their lived experience as people of color

https://www.cdc.gov/aging/publications/features/barri ers-to-equity-in-alzheimers-dementia-care/index.html

Action

Knight Ababaac Alzheimer's Disease Research Center WASHINGTON UNIVERSITY ST. LOUIS

Created a Health Disparities and Equity Core

Developed a plan to increase workforce diversity

Secured funding from NIH/NIA to increase diversity in ADRD research

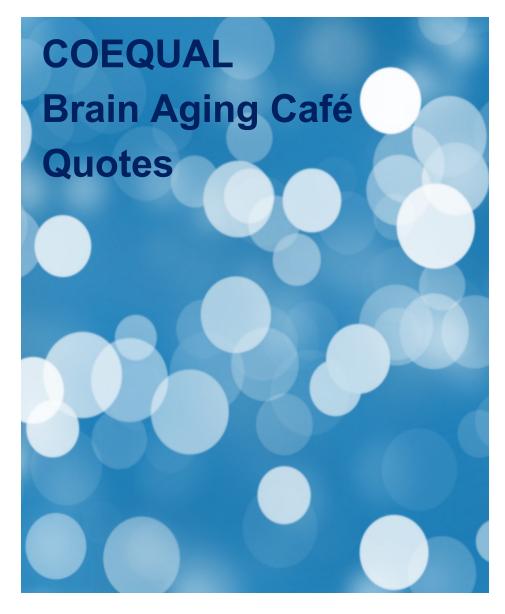


The COEQUAL Registry: Creating Opportunities to Increase Health Equity and Equality (COEQUAL) for Persons at Risk for Alzheimer Disease and Related Dementias

PI: Balls-Berry 5R24AG074915

- "I'm always drawn to participating in some way because Black people don't participate in disproportionate rates due to previous events in history that broke trust. I always like to be a part of it because I want to help give back to the Black community. They don't have as much data on us since we don't participate as much."
- "Due to past experiments that took advantage of Black people, people are weary of participating in research"

Diversity in Research



"Confronting the impact of racism will not be easy..."

Rochelle P. Walensky, MD, MPH
 Director, CDC, and Administrator, ATSDR



Final Thoughts

End

The time is now!

Acknowledge that disparities exists No fear in discussing the historical underpinnings of science that marginalized Black people

Consider data analysis and interpretation in health care in context of racism

Determine ways your program can increase health equity



Thank you!

Being seen, heard, believed, plus acknowledging racism helps us to build bridges to repair the pain that many of us of experienced related to our identities and truths

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