Examining Alzheimer's Disease-Related Dementia Disparities among US-Born and Non-US-Born Black Adults: A Perspective on Socioeconomic and Social Determinants of Health

Setor K. Sorkpor, PhD, MPH, MSN, RN1, Yijiong Yang, PhD, MHA1

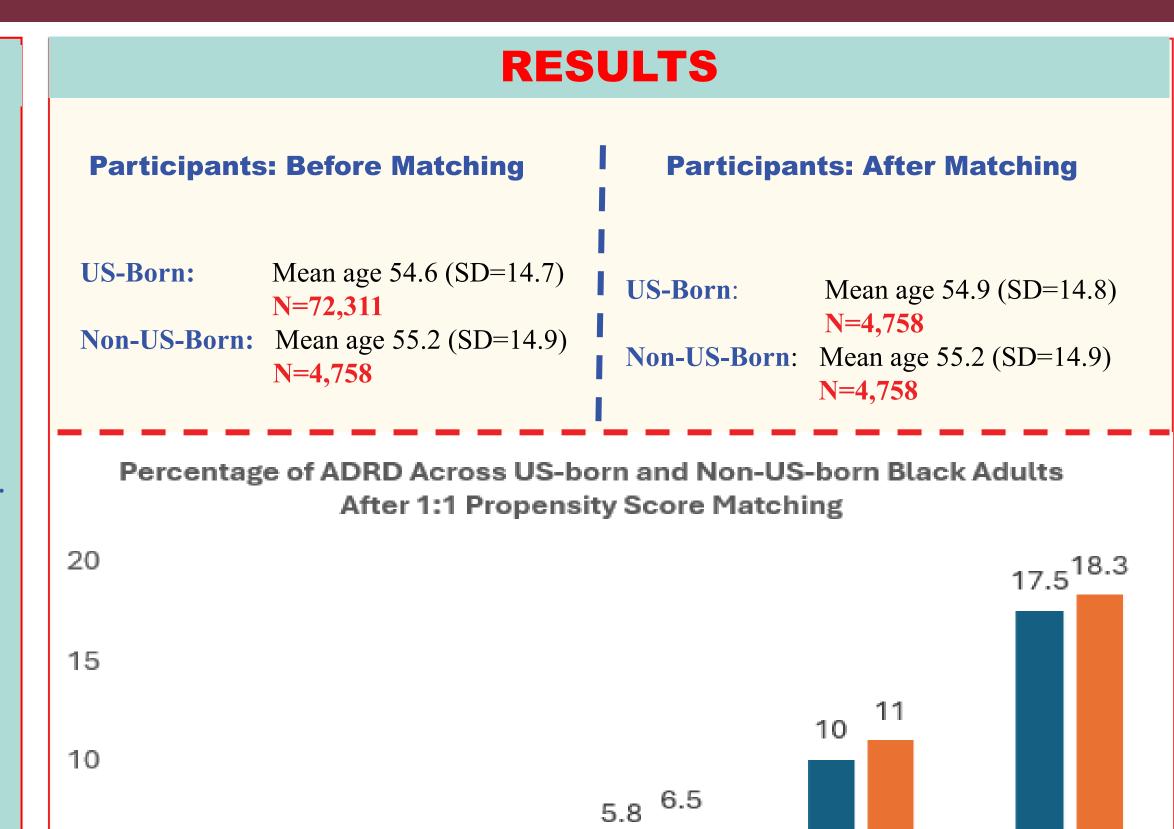
1 College of Nursing, Florida State University, Tallahassee, FL.

INTRODUCTION

- ☐ Alzheimer's disease and related dementias (ADRD) disproportionately impact Black individuals, with incidence rates nearly double those of White individuals.
- ☐ Black individuals often face significant challenges that lead to missed or delayed diagnoses of ADRD, frequently resulting in detection at more advanced stages.
- ☐ The broad classification of Black populations as a monolithic group may obscure unique ethnoracial factors contributing to these disparities.
- ☐ This study compares ADRD data between US-born and non-US-born Black individuals to guide targeted interventions.

METHODS

- ☐ We conducted a retrospective cohort study using deidentified data from the All of Us Research Program.
- ☐ We analyzed data from 77,069 Black individuals, divided into US-born (N=72,311) and non-US-born (N=4,758) cohorts. ADRD diagnoses were extracted using ICD codes.
- ☐ Descriptive statistics, propensity score matching, and binary logistic regression were used to compare ADRD prevalence and assess the impact of demographic and socioeconomic factors between cohorts.



65-74

Non-native born

75-84

≥ 85

2.5 2.9

45-64

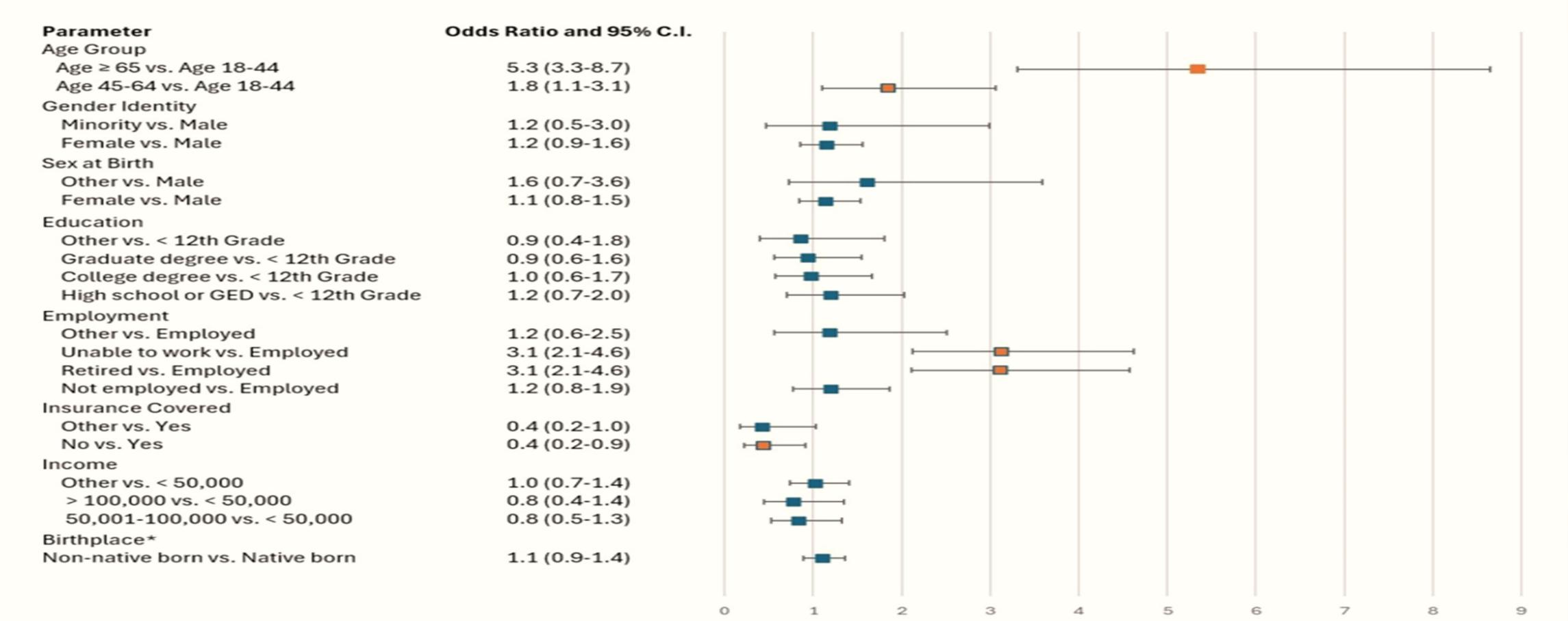
Native-born

Influence of Socioeconomic and Environmental Factors on the Odds of ADRD After 1:1 **Propensity Score Matching**

5

2.1 1.6

18-44



Abbreviations: CI, confidence interval.

*All demographic and socioeconomic factors, including age group, gender identity, sex at birth, education, employment, insurance, and income, are controlled as confounders. The odds ratio compares the non-US-born cohort to the US-born cohort, where an odds ratio greater than 1 indicates higher odds of an ADRD diagnosis in the non-US-born cohort compared to the US-born cohort

MAIN FINDINGS

- ☐ Higher Prevalence in Non-US-born Blacks: Non-US-born Black individuals showed a higher ADRD prevalence (4.12%) compared to US-born Blacks (3.76%).
- ☐ Age as a Key Risk Factor: ADRD prevalence significantly increased with age, notably among those aged 65 and older.
- ☐ Impact of Employment Status: Retirees and individuals unable to work had a higher ADRD prevalence compared to employed individuals.
- □ Socioeconomic Influences: Higher education levels were associated with lower ADRD risk among non-US-born Blacks, and higher income levels were linked to reduced ADRD risk in both groups.

DISCUSSION

- ☐ The higher ADRD prevalence in non-US-born Black individuals may reflect differences in cultural, environmental, or healthcare access factors (SDOH) that warrant further investigation.
- ☐ The significant increase in ADRD risk with age emphasizes the need for enhanced screening and preventive measures targeted at older populations.
- ☐ The associations between higher education and income levels with reduced ADRD risk suggest that addressing socioeconomic disparities could be key in mitigating ADRD prevalence.
- ☐ These findings underscore the need to tailor ADRD strategies to address **SDOH** disparities and enhance health equity.

