#### UC San Diego

Herbert Wertheim School of Public Health and Human Longevity Science

# GROCERY STORES & ADHERENCE TO THE HEALTHY DIETARY GUIDELINES

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#### BACKGROUND A

- Off-campus college students face challenges in accessing nutritious food due to diverse socioeconomic backgrounds and transportation constraints
- Previous research suggests a positive association, but findings remain inconsistent
- College students reported that, on average, 17.9% consumed 3 or more servings of fruits per day in the last 7 days, while 27.8% consumed 3 or more servings of vegetables per day during the same period. (ACHA, 2022)

### OBJECTIVE (B)

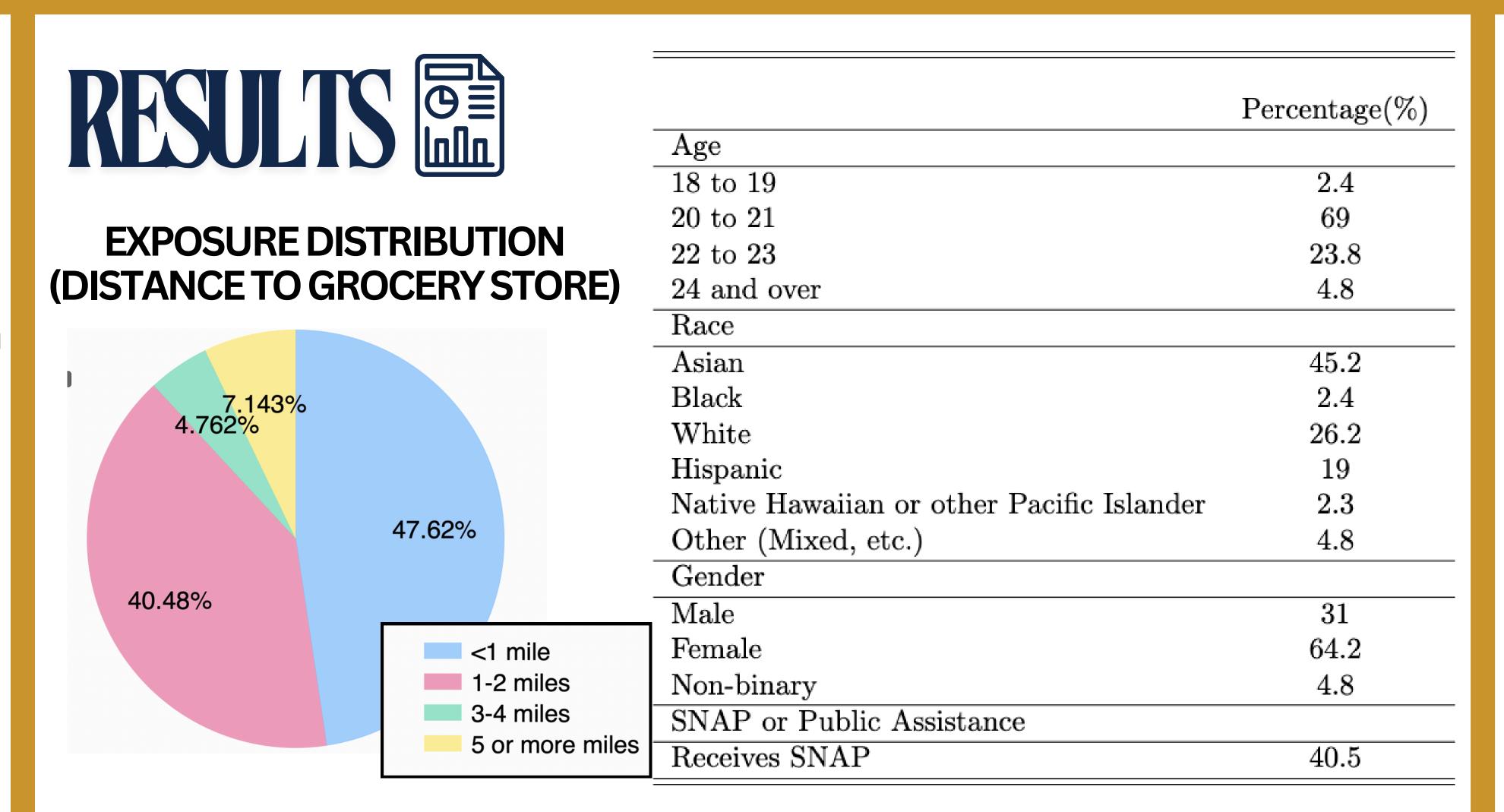
To examine the relationship between proximity to grocery stores and adherance to the healthy dietary guidelines.

### METHODS &

- Cross-sectional, precluding the establishment of causal relationships or directionality
- 8-item survey distributed using Google Forms
- Screening of our participants through asking students their status at UC San Diego and their living status
- STATA SE (ver.18) used for statistical analysis

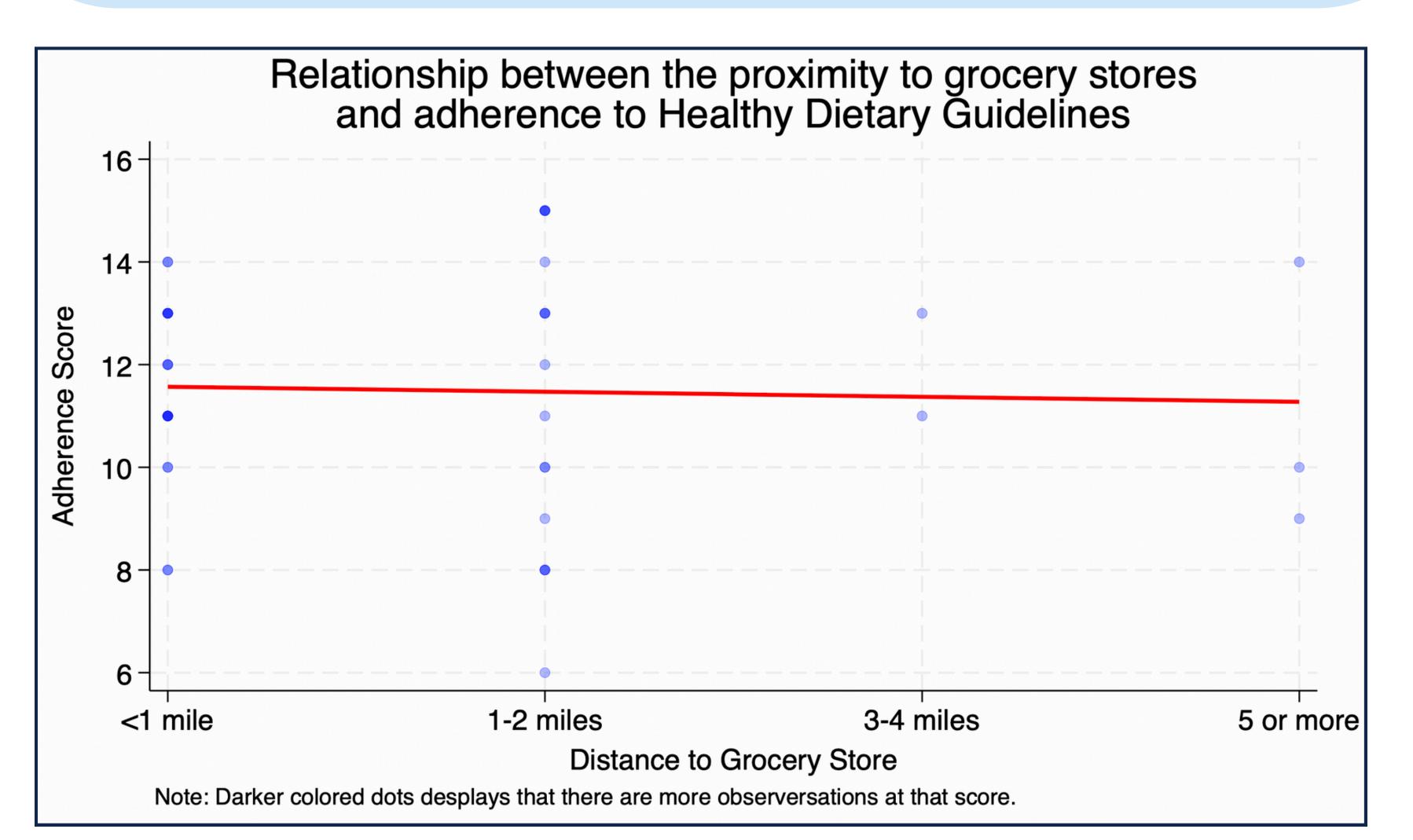






#### **ADHERANCE SCORES**

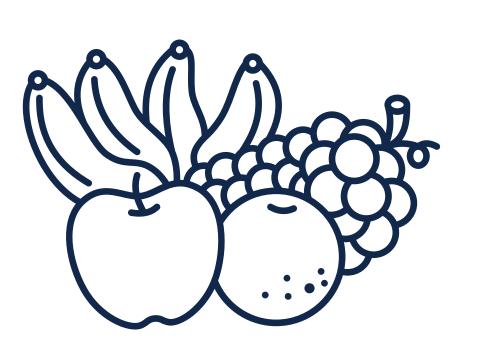
- Adherance scores are the sum of the scores assigned to each food groups in the survey: fruits, vegetables, grains, proteins, and dairy
- For each food group, a participant was given a score of 1 for consuming them never/rarely, 2 for occasionally, and 3 for often/always



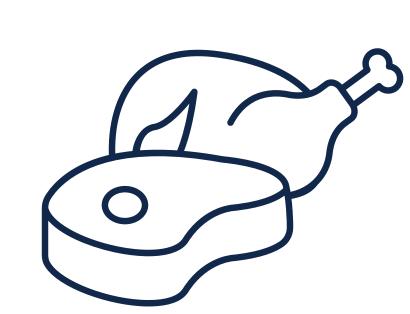
Pearson's correlation demonstrated a weakly negative correlation between the distance to grocery stores and adherance scores. (r = -0.0078) This results were not statistically significant. (p-value = 0.9604)

## CONCLUSION

- Final Result: Closer proximity to grocery stores resulted in a slight decrease in adherence
- Not enough data on distances surpassing two miles
- Most participants lived close to grocery stores







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- Allocate more funding to research that explores the complex relationship between food access and dietary habits among off-campus college students
- Implement subsidized transportation services, such as free or discounted buses, trolley passes, and ride-sharing programs to improve off-campus students' access to grocery stores with nutritious food options.
- Expand campus-based food assistance programs to support off-campus college students.

