RESEARCH IN CONTEXT (119 / 150 words)

SYSTEMATIC REVIEW The authors used Google Scholar and PubMed to review the literature concerning the relationships between place and aging, methods for spatial analysis, and neuroimaging literature concerning brain age gap (BAG). Health disparities have been associated with levels of neighborhood deprivation. BAG quantifies structural changes in the brain and has been associated with the development of symptomatic Alzheimer Disease (AD).

INTERPRETATION The significant relationship observed between BAG and neighborhoods suggests that the surrounding environment affects brain health. This indicates that place-based interventions to improve brain health could be beneficial.

FUTURE DIRECTIONS Large cohort studies should use shared geocoded participant information to compare across other cities. In depth characterization of neighborhood dynamics and characteristics could assist in developing targeted policies to improve brain health.