

MENTAL HEALTH AS MEDIATOR LINKING AGE-FRIENDLY COMMUNITIES TO CARDIOVASCULAR MULTIMORBIDITY: EVIDENCE FROM A LARGE NATIONAL COHORT STUDY

Xuanbi Fang¹, Wai-kit Ming¹

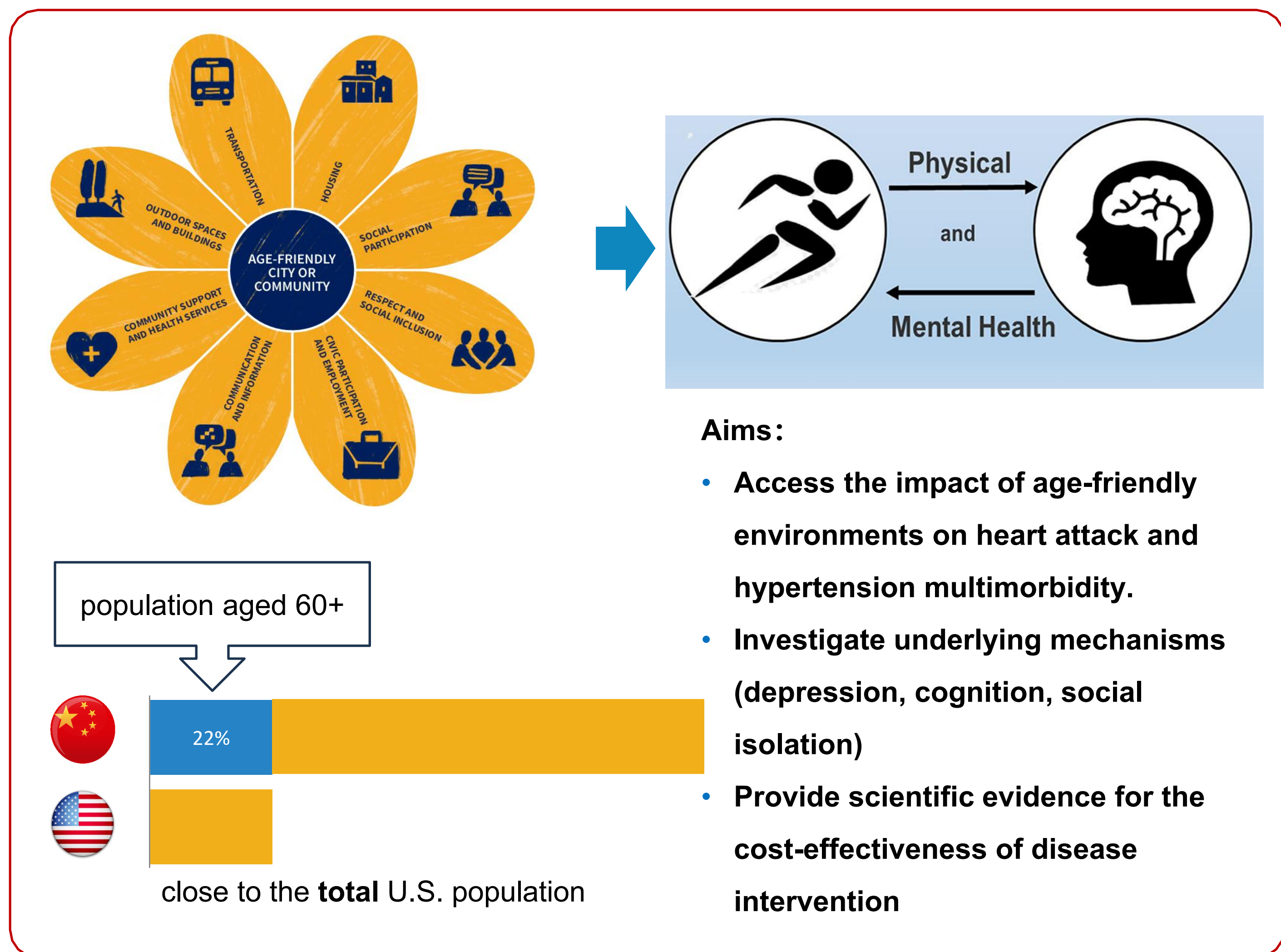
¹ Department of Infectious Diseases and Public Health, Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong



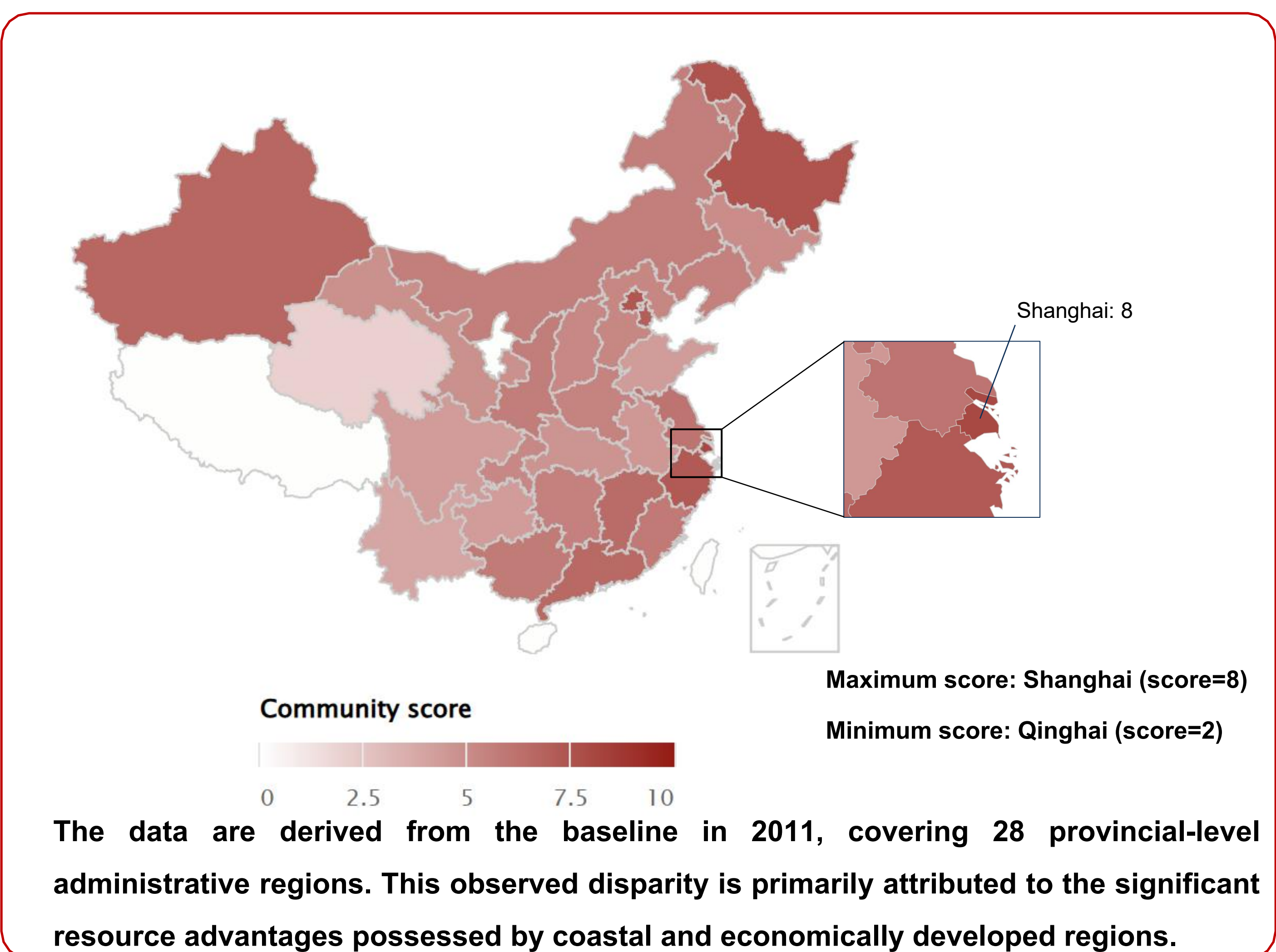
Introduction

Amidst the accelerating global demographic shift towards aging populations, creating age-friendly communities is vital for public health. While existing research highlights the associations between environmental factors and cardiovascular diseases, evidence gaps persist regarding insufficient longitudinal evidence constraining causal inference, unquantified health disparities, and underexplored mediators. This study employs a comprehensive analysis on nationwide data to investigate the role of social isolation, cognition and depression in the relationship between age-friendly community environment and cardiovascular comorbidities among older adults, providing insights for integrated care interventions.

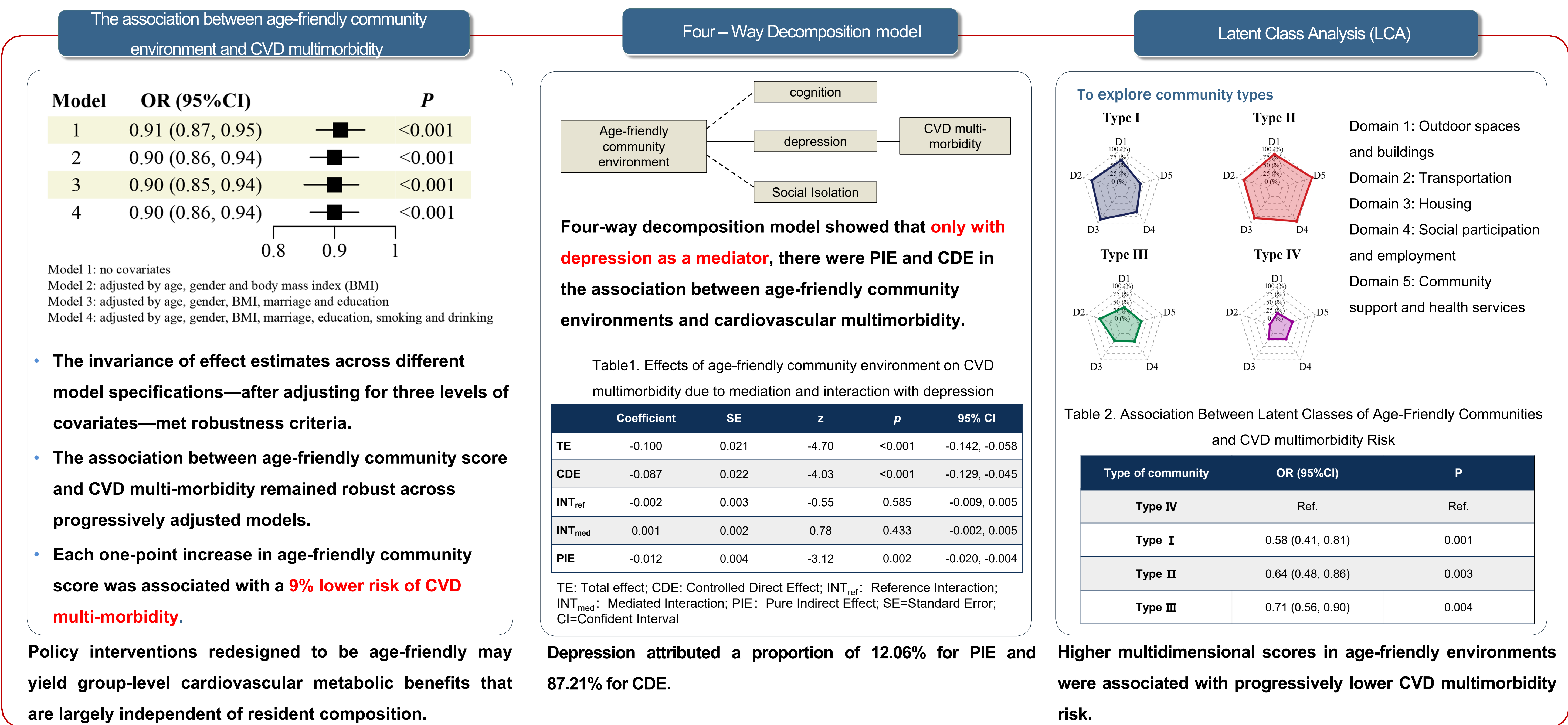
Background



A heat map of Regional Disparities in Age-Friendly Community Environment



Age-Friendly Communities: A Pathway to Reducing Cardiovascular Multimorbidity?



Conclusions

Age-friendly community environments had a protect effect on CVD multimorbidity mediated by reducing depression. Current community types can be classified into four categories, among which the dimensions of housing and transportation serve as important factors for reducing the risk of CVD multimorbidity.

References

1. Liu J, Yu M, Zhang T. Age-friendly Neighborhood Environment and Trajectories of Multimorbidity: The Moderating Effect of Life-course Socioeconomic Status. *Innovation in Aging*. 2025;9(6).
2. Shi J, Liu X, Feng Z. Age-friendly cities and communities and cognitive health among Chinese older adults: Evidence from the China Health and Retirement Longitudinal Studies. *Cities*. 2023;132:104072.
3. World Health Organization. Understanding 'ageing in place'. Manila: WHO Regional Office for the Western Pacific; 2018.
4. Rugel EJ, Chow CK, Corsi DJ, Hystad P, Rangarajan S, Yusuf S, et al. Developing indicators of age-friendly neighbourhood environments for urban and rural communities across 20 low-, middle-, and high-income countries. *BMC Public Health*. 2022;22(1):87.