

Table S1: Age-friendly Community Evaluation Scale. (Residential environment: The following questions are about your neighborhoods and the description of environment related problems, please according to your actual feeling, choose one of the following options: 1: completely disagree, 2: disagree, 3: generally, neither agree nor disagree (neutral), 4: agree, 5: completely agree).

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|--|---|---|---|---|---|
| A Housing | | | | | |
| 1. No financial pressure on housing (e.g. mortgage, rent, etc.) | 1 | 2 | 3 | 4 | 5 |
| 2. The water, electricity and coal of the house are well equipped and can be used normally | 1 | 2 | 3 | 4 | 5 |
| 3. The housing can meet the needs of safety, convenience, comfort and hygiene (such as anti-skid floor, handrails, ramps or elevators for wheelchair access, etc.) | 1 | 2 | 3 | 4 | 5 |
| B Transportation | | | | | |
| 1. There are safe and reliable public transportation, convenient for going out | 1 | 2 | 3 | 4 | 5 |
| 2. There are many public transportations, the carriage is not crowded, and there are special seats for the elderly, the sick, the disabled and pregnant | 1 | 2 | 3 | 4 | 5 |
| 3. Even in places inaccessible by public transport, there are convenient means of transportation such as free shuttle buses | 1 | 2 | 3 | 4 | 5 |
| 4. There are enough seats for the elderly in buses and subways (other people will offer seats for the elderly when there are not enough seats for them) | 1 | 2 | 3 | 4 | 5 |
| 5. The bus runs smoothly, and the driver makes sure that it is safe to leave after the stop | 1 | 2 | 3 | 4 | 5 |
| 6. It is easy to get to the destination by public transport (e.g. the bus route and timetable at the station are clearly indicated, and the boarding and boarding are safe and barrier-free, etc.) | 1 | 2 | 3 | 4 | 5 |
| 7. The bus station has suitable hardware facilities (such as seats, awnings, etc.), and the waiting environment is comfortable | 1 | 2 | 3 | 4 | 5 |
| C Built Environment | | | | | |
| 1. Community public Spaces (such as roads, parks, etc.) are clean, tidy and well maintained | 1 | 2 | 3 | 4 | 5 |
| 2. It's easy to walk or park from my house | 1 | 2 | 3 | 4 | 5 |
| 3. The pavement surface is smooth, without obstacles, and it is safe to walk | 1 | 2 | 3 | 4 | 5 |
| 4. The traffic lights near the community give pedestrians enough time to cross the road | 1 | 2 | 3 | 4 | 5 |
| 5. On the road, motor vehicles (such as cars, lorries, etc.) can yield to pedestrians | 1 | 2 | 3 | 4 | 5 |

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| 6. On the road, non-motor vehicles (such as electric cars, bicycles, etc.) can yield to pedestrians | 1 | 2 | 3 | 4 | 5 |
| D Social Participation | | | | | |
| 1. It is very convenient to get to places for leisure and cultural activities in the community | 1 | 2 | 3 | 4 | 5 |
| 2. The community will choose leisure and cultural activities at times convenient to us | 1 | 2 | 3 | 4 | 5 |
| 3. Easy access to information about community activities (e.g. participation modes, equipment using methods, transportation routes, etc.) | 1 | 2 | 3 | 4 | 5 |
| 4. Various leisure and sports activities are carried out in the community (such as singing, calligraphy, chess, sports competition, popular science lectures, etc.) | 1 | 2 | 3 | 4 | 5 |
| 5. There are many volunteer opportunities in the community | 1 | 2 | 3 | 4 | 5 |
| 6. The government and the community will provide continuous help and support to those in need | 1 | 2 | 3 | 4 | 5 |
| E Social Inclusion and Health Services | | | | | |
| 1. People in the community are respectful and polite to the elderly | 1 | 2 | 3 | 4 | 5 |
| 2. Staff in municipal, district, sub-district offices and public health institutions are friendly and helpful | 1 | 2 | 3 | 4 | 5 |
| 3. Community activities cater to the needs and preferences of people of all ages and are attractive | 1 | 2 | 3 | 4 | 5 |
| 4. I feel respected in my social interactions | 1 | 2 | 3 | 4 | 5 |
| 5. To better serve the elderly, relevant departments and organizations regularly solicit opinions from the elderly | 1 | 2 | 3 | 4 | 5 |
| 6. The mass media (television, news, newspapers, radio programs, etc.) portray older people in a positive way | 1 | 2 | 3 | 4 | 5 |
| 7. Older persons have easy and safe access to health facilities and public service facilities (e.g. centers for the elderly, activity rooms for the elderly, etc.) | 1 | 2 | 3 | 4 | 5 |
| 8. Staff in health facilities and public services are helpful | 1 | 2 | 3 | 4 | 5 |
| 9. Where I live, I have easy access to information on health education, nutrition courses and physical therapy | 1 | 2 | 3 | 4 | 5 |
| 10. In public institutions (e.g. city, district, sub-district offices, etc.), Internet access is free or for a small fee | 1 | 2 | 3 | 4 | 5 |

Table S2: Chinese frailty screening-10 (CFS-10). The following information is about your physical condition. Please check it and choose the actual option according to the description.

| Items | Options | |
|---|---------|------|
| (1) Do you have 5 or more chronic diseases? (hypertension, diabetes, stroke, cerebral infarction, cerebral hemorrhage), ischemic heart disease, chronic lung disease, tumor / cancer (except for mild skin cancer), congestive heart failure, angina, asthma, arthritis, kidney disease, cirrhosis, chronic liver disease, gastrointestinal diseases, Parkinson, musculoskeletal disorders; | 1.Yes | 2.No |
| (2) Have you often felt tired in the last month? (tired, weak, weak, exhausted); | 1.Yes | 2.No |
| (3) Has your food intake decreased in the last three months? (due to anorexia, dyspepsia, bad mouth or dysphagia); | 1.Yes | 2.No |
| (4) Has your life been affected by vision problems? | 1.Yes | 2.No |
| (5) Has your life been affected by hearing problems? | 1.Yes | 2.No |
| (6) Do you find it difficult to climb ten steps or one floor without a break or the help of any auxiliary tools? | 1.Yes | 2.No |
| (7) Have you walked for 10 minutes or 400 meters in the past week? | 1.Yes | 2.No |
| (8) Have you been distracted or hard to concentrate in the last month? | 1.Yes | 2.No |
| (9) Do you often get the wrong date or get lost in the last month? | 1.Yes | 2.No |
| (10) In the last month, have you done anything that you are not interested in? | 1.Yes | 2.No |

Table S3: Description of mentioned Classification variables.

| Variables | The Specific Classification |
|----------------------------|--|
| Age(years) | 1='65~'; 2='70~'; 3='75~'; 4='80~'; |
| Gender | 1='Male'; 2='Female'; |
| Marital status | 2='In marriage'; other='Not in marriage'(including unmarried, divorced, and widowed); |
| Education level | 1=' Below Primary School'; 2=' Primary School'; 3=' Junior high school'; 4-7=' High school and above'; |
| Self-rated health | 1-2='Poor or Worse'; 3='General'; 4='Better'; 5='Perfect'; |
| Smoking | 1='No'; 2='Used to'; 3='Smoking'; |
| Drinking | 1='No'; 2-5='Drinking'; |
| Vegetable intake | 1-2='Low'; 3-5='Adequate'; |
| Fruit intake | 1-2='Low'; 3-5='Adequate'; |
| Physical activity | 0='Inactive'; 1='Active'; |
| Chronic disease | 1='Without NCD'; 2='With one diseases'; 3='With Two or more'; |
| Depression | 0='No'; 1='Yes'; |
| Cognitive Function | 0='Normal'; 1='Cognitive decline'; |
| Frail status | 0='Robust'; 1='Frail'; |
| Individual-level AFC Grade | 1='First quartile'; 2='Second quartile'; 3='Third quartile'; 4='Fourth quartile'; |
| Community-level AFC Grade | 1='First quartile'; 2='Second quartile'; 3='Third quartile'; 4='Fourth quartile'; |