



Article

How Older People Experience the Age-Friendliness of Their City: Development of the Age-Friendly Cities and Communities Questionnaire

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Received: 5 September 2020; Accepted: 16 September 2020; Published: date

Supplementary Table S1. Reasons for item exclusion in all steps for the Age-Friendly Cities and Communities Questionnaire (AFCCQ).

| Item Nr. | Item Text | Step 3 I-CVI ^a | Step 4 Readability | Step 5 I-CVI ^b | Step 6 EFA | Step 7 CFA | Reason for Exclusion |
|---------------------------------------|--|---------------------------|--------------------|---------------------------|-------------|-------------|---|
| Domain 1: Housing | | | | | | | |
| 1 | I can pay my living expenses (rent/mortgage) without any problem. | 1.0 | 8.7 | 1.0 | 0.67 | <0.70 | Low loading CFA |
| 2 | My house is well maintained. | 0.7 | - | - | - | - | Exclusion I-CVI consensus |
| 3 | My house has the facilities and adaptations that I need. | 1.0 | 8.6 | 1.0 | 0.51 | <0.60 | Low loading CFA |
| 4 | My house is accessible to me. | 0.9 | 8.3 | 1.0 | 0.76 | 0.95 | Included |
| 5 | I can pay water, electricity, gas and municipal tax. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 6 | I believe my city has sufficient affordable and suitable homes for older people. | 1.0 | 9.3 | 0.75 | - | - | Exclusion I-CVI consensus |
| 7 | There are sufficient lifetime homes in my city. | 0.6 | - | - | - | - | Exclusion I-CVI score |
| 8 | If necessary, it is possible and affordable to have the necessary adjustments made to my home. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 9 | My house is accessible to the people who come to visit me. | 0.9 | 9.3 | 1.0 | 0.77 | 0.77 | Included |
| 10 | I feel safe and secure in my neighbourhood. | 1.0 | 9.9 | 1.0 | 0.41 | <0.70 | Low loading CFA |
| 11 | My house is easy to keep clean. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| Domain 2: Social Participation | | | | | | | |
| 12 | For me, there are enough social, cultural or educational activities or other forms of leisure in my neighbourhood. | 1.0 | 8.6 | 1.0 | 0.64 | x | Problematic standardised residual covariances |
| 13 | There are enough sports activities available to me (alone or in a group) in my city. | 0.9 | 8.6 | 1.0 | 0.56 | x | Problematic standardised residual covariances |

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|---|---|-----|-----|------|------|-------|---------------------------|
| 14 | For me, there are plenty of opportunities in the city to participate in religious activities. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 15 | There are plenty of interesting activities in my neighbourhood. | 0.9 | 8.9 | 0.75 | - | - | Exclusion I-CVI consensus |
| 16 | There are enough opportunities to meet people in my neighbourhood. | 0.9 | 9.1 | 1.0 | 0.67 | 0.71 | Included |
| 17 | My neighborhood offers enough activities to participate in. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 18 | The number of times that I see or speak to friends or family a week is sufficient. | 0.9 | 9.7 | 1.0 | x | - | Communalities < 40 |
| 19 | If necessary, I can get special community transport. (<i>Moved to the domain of Community support and health services</i>) | 0.8 | 8.9 | 1.0 | 0.62 | <0.50 | Low loading CFA |
| 20 | The relationship/contact between the people in the neighbourhood is good. | 0.9 | 8.0 | 0.88 | 0.45 | <0.50 | Low loading CFA |
| 21 | Amenities in my neighbourhood are easily accessible. | 1.0 | 9.4 | 0.88 | x | - | Cross-loading EFA |
| 22 | Activities and events are organised in places that are accessible to me. | 1.0 | 9.1 | 0.88 | 0.66 | 0.79 | Included |
| 23 | Activities and events are organised at convenient times for me. | 0.7 | - | - | - | - | Exclusion I-CVI consensus |
| 24 | Activities and events are affordable for me. (<i>Moved to the domain of Financial situation</i>) | 0.9 | 9.1 | 1.0 | 0.41 | <0.70 | Low loading CFA |
| 25 | The information about activities and events is enough for me and also suitable for me. | 1.0 | 9.0 | 0.88 | 0.76 | 0.78 | Included |
| 26 | I find the range of events and activities sufficiently varied. | 0.9 | 9.1 | 0.88 | 0.77 | 0.80 | Included |
| Domain 3: Respect and Social Inclusion | | | | | | | |
| 27 | I sometimes get annoying or negative remarks because of my age. | 1.0 | 9.9 | 0.88 | 0.74 | 0.76 | Included |
| 28 | I have enough opportunities to interact with younger generations. (<i>Moved to the domain of Civic participation and employment</i>) | 1.0 | 9.3 | 0.88 | 0.58 | 0.76 | Included |
| 29 | Sufficient activities are being undertaken to improve the neighborhood. | 0.4 | - | - | - | - | Exclusion I-CVI score |
| 30 | I regularly associate with older people with a different background. | 0.7 | - | - | - | - | Exclusion I-CVI consensus |
| 31 | I believe that companies in my area and the government have tailored their services well to my needs. | 0.9 | 8.6 | 0.75 | - | - | Exclusion I-CVI consensus |
| 32 | I believe that staff working in the stores in my area take my needs into account. | 0.8 | 8.9 | 0.5 | - | - | Exclusion I-CVI consensus |
| 33 | I believe that the media in my area present a realistic picture of older people. | 0.9 | 7.6 | 0.75 | - | - | Exclusion I-CVI consensus |
| 34 | I believe that the posters and leaflets give a realistic image of older people. | 0.7 | - | - | - | - | Exclusion I-CVI consensus |
| 35 | Older people are sufficiently involved in educational activities. | 0.7 | - | - | - | - | Exclusion I-CVI consensus |
| 36 | I feel like a valued member of society. (<i>Moved to the domain of Civic participation and employment</i>) | 1.0 | 9.0 | 1.0 | 0.51 | 0.78 | Included |
| 37 | Services (municipality, healthcare, welfare) are sufficiently accessible to people who are less well off financially. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 38 | Sometimes I am confronted with false imaging of older people. | 0.7 | - | - | - | - | Exclusion I-CVI consensus |
| 39 | I sometimes face discrimination because of my age. | 1.0 | 9.4 | 1.0 | 0.70 | 0.77 | Included |
| 40 | In case of age discrimination, I know where to go for help or to file a complaint. | 0.9 | 8.7 | 1.0 | x | - | Communalities < 40 |
| Domain 4: Civic Participation and Employment | | | | | | | |

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|--|--|-----|-----|------|------|-------|---|
| 41 | If I would like to, there are enough opportunities to do volunteer work that suits my interests and abilities. | 1.0 | 9.4 | 1.0 | 0.54 | <0.60 | Low loading CFA |
| 42 | I feel sufficiently listened to in participation and decision making. | 0.9 | 7.0 | 0.88 | x | - | Cross-loading EFA |
| 43 | I am sufficiently involved in things that are going on in my neighbourhood. | 0.9 | 9.3 | 0.88 | x | - | Cross-loading EFA |
| 44 | I feel that municipal plans ABOUT older people have also been decided WITH older people. | 1.0 | 7.1 | 0.88 | x | - | Communalities <40 |
| 45 | I can give my opinion on the services and facilities that are of interest to me. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 46 | I am involved in developments in the neighbourhood. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 47 | I am well informed about what is going on in the neighbourhood. | 0.9 | 8.7 | 1.0 | x | - | Cross-loading EFA |
| 48 | I do volunteer work on a regular basis. | 0.9 | 9.6 | 0.88 | x | - | Cross-loading EFA |
| 49 | In the past month I have been active as a volunteer at least once. | 0.7 | - | - | - | - | Exclusion I-CVI consensus |
| Domain 5: Communication and Information | | | | | | | |
| 50 | There is enough information available about activities for seniors in my neighbourhood. <i>(Moved to the domain of Social participation)</i> | 0.9 | 9.1 | 1.0 | 0.35 | x | Problematic standardised residual covariances |
| 51 | There is sufficient municipal and neighborhood information available for older people. | 0.6 | - | - | - | - | Exclusion I-CVI score |
| 52 | There is sufficient word of mouth regarding activities in the neighborhood. | 0.6 | - | - | - | - | Exclusion I-CVI score |
| 53 | There is sufficient word of mouth regarding activities in the neighborhood for people who are socially isolated. | 0.5 | - | - | - | - | Exclusion I-CVI score |
| 54 | Printed and digital information from the municipality and other social institutions is easy to read in terms of font and size. | 1.0 | 8.7 | 0.88 | 0.54 | 0.79 | Included |
| 55 | Printed and digital information from the municipality and other social institutions is written in understandable language. | 0.9 | 8.7 | 1.0 | 0.51 | 0.77 | Included |
| 56 | When I call the municipality or another social institution I am well answered. | 0.9 | 9.0 | 1.0 | 0.58 | <0.50 | Low loading CFA |
| 57 | If I have a complaint, I feel that I am listened to. | 0.9 | 9.0 | 0.88 | x | - | Cross-loading EFA |
| Domain 6: Community Support and Health Services | | | | | | | |
| 58 | I think the hospitals in my city are senior-friendly. | 0.6 | - | - | - | - | Exclusion I-CVI score |
| 59 | The quality of care in my city is sufficient. <i>(Moved to the domain of Transportation)</i> | 0.9 | 9.0 | 0.88 | 0.49 | <0.50 | Low loading CFA |
| 60 | I don't have to go far from home to visit a care service. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 61 | If I provide family care, I receive enough support. | 1.0 | 9.0 | 0.88 | 0.74 | <0.50 | Low loading CFA |
| 62 | I receive sufficient domestic help at home. | 0.9 | 8.6 | 1.0 | 0.54 | <0.50 | Low loading CFA |
| 63 | I can afford my healthcare costs. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 64 | The supply of care and welfare in my city is enough for me. | 1.0 | 9.0 | 0.88 | 0.58 | 0.74 | Included |
| 65 | The supply of care and welfare in my city is generally sufficient. | 0.6 | - | - | - | - | Exclusion I-CVI score |
| 66 | When I am ill, I receive the care and help I need. | 0.9 | 9.3 | 1 | 0.67 | 0.73 | Included |
| 67 | If necessary, I can easily reach care and welfare services by telephone and in person. | 0.9 | 7.7 | 1.0 | 0.76 | 0.79 | Included |
| 68 | If I want to visit a nursing home, I can easily go there. | 0.7 | - | - | - | - | Exclusion I-CVI consensus |

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|---|--|-----|-----|------|------|-------|---|
| 69 | I have enough information about care and welfare services in my neighbourhood. | 1.0 | 8.7 | 1.0 | 0.54 | 0.79 | Included |
| 70 | Healthcare in my city is sufficiently coordinated and easy to get. | 0.7 | - | - | - | - | Exclusion I-CVI consensus |
| 71 | Care and welfare workers in my neighbourhood are sufficiently respectful. | 0.8 | 8.7 | 0.88 | 0.62 | 0.78 | Included |
| 72 | The care and welfare facilities I need are affordable for me. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 73 | Communication about crisis situations in my city has consideration for seniors. | 1.0 | 7.6 | 0.88 | x | - | No Loading |
| Domain 7: Outdoor Spaces and Buildings | | | | | | | |
| 74 | I can easily walk from A to B in my neighbourhood. | 0.8 | 9.7 | 1.0 | 0.53 | <0.60 | Low loading CFA |
| 75 | Public buildings in my city are easily accessible to me. | 1.0 | 9.4 | 1.0 | 0.52 | <0.70 | Low loading CFA |
| 76 | My neighbourhood and street are safe and secure. <i>(Moved to the domain of Respect and Social inclusion)</i> | 0.9 | 7.6 | 1.0 | 0.51 | <0.50 | Low loading CFA |
| 77 | I can always park my car close to home. <i>(Moved to the domain of Transportation)</i> | 0.8 | 8.4 | 0.88 | x | - | Communalities < 40 |
| 78 | Shops are close to my house. | 0.9 | 8.6 | 0.88 | x | - | Cross-loading EFA |
| 79 | Tiles in sidewalks are straight. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 80 | In my neighborhood, cycling and walking paths are well separated from each other. | 0.9 | 9.6 | 0.75 | - | - | Exclusion I-CVI consensus |
| 81 | There are parks near my home where I can go. | 0.7 | - | - | - | - | Exclusion I-CVI consensus |
| 82 | There are enough seats and benches in the parks and shopping malls in my neighbourhood. | 1.0 | 9.0 | 1.0 | x | - | Communalities < 40 |
| 83 | There are enough clean and accessible public toilets in my neighbourhood. | 1.0 | 8.3 | 1.0 | 0.48 | <0.50 | Low loading CFA |
| 84 | The public space in my neighbourhood (park, street, square) is clean and pleasant to be in. | 1.0 | 9.6 | 1.0 | 0.40 | <0.50 | Low loading CFA |
| 85 | Pedestrian crossings in my neighbourhood are safe. <i>(Moved to the domain of Communication and Information)</i> | 0.9 | 9.6 | 0.88 | 0.59 | <0.60 | Low loading CFA |
| 86 | I have enough time to cross at pedestrian crossings in my neighbourhood. | 1.0 | 9.6 | 0.88 | x | - | Cross-loading EFA |
| 87 | My city is sufficiently accessible with a walker or wheelchair. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 88 | My neighbourhood is sufficiently accessible for a wheeled walker or wheelchair. | 1.0 | 8.9 | 1.0 | 0.37 | 0.80 | Included |
| 89 | The shops in my neighbourhood are sufficiently accessible with a wheeled walker or wheelchair. | 1.0 | 9.6 | 1.0 | 0.40 | 0.88 | Included |
| Domain 8: Transportation | | | | | | | |
| 90 | I can easily get on the bus or tram in my neighbourhood. | 0.9 | 9.7 | 0.88 | 0.76 | 0.81 | Included |
| 91 | The bus and tram stops in my neighbourhood are easy to reach and use. | 0.9 | 9.3 | 1.0 | 0.82 | 0.95 | Included |
| 92 | Public transportation in my city fits my needs. | 0.9 | 9.3 | 0.88 | 0.74 | x | Problematic standardised residual covariances |
| 93 | Public transportation in my city is affordable for me. | 0.7 | 9.1 | 0.88 | 0.40 | <0.50 | Low loading CFA |
| 94 | Streets are safe enough for older people. | 0.7 | - | - | - | - | Exclusion I-CVI consensus |
| 95 | Public transport services are frequent. | 0.7 | - | - | - | - | Exclusion I-CVI consensus |
| 96 | The bus and tram drivers in my city are considerate of me. | 0.9 | 9.1 | 0.88 | x | - | Cross-loading EFA |

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| 97 | The quality and availability of the community transport in my city (The Hague) is sufficient. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 98 | There are sufficient disabled parking spaces in my city. <i>(Moved to the domain of Outdoor spaces and buildings)</i> | 0.9 | 8.3 | 0.88 | 0.70 | <0.50 | Low loading CFA |
| Domain 9: Technology | | | | | | | |
| 99 | If I could contact my doctor electronically, I would. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 100 | If I could notify home care via an emergency response system, I would. | 0.9 | 7.7 | 0.75 | - | - | Exclusion I-CVI consensus |
| 101 | I would be happy if the doctor could check on me remotely and see me in a digital consultation. | 1.0 | 8.1 | 1.0 | x | - | Communalities < 40 |
| 102 | I think technology supports and simplifies my life. | 1.0 | 9.0 | 0.62 | - | - | Exclusion I-CVI consensus |
| 103 | I am able to understand and use the digital services provided by the municipality, bank and public transport. | 1.0 | 8.9 | 1.0 | x | - | Communalities < 40 |
| 104 | I am sufficiently adept at digital care and e-health. | 0.7 | - | - | - | - | Exclusion I-CVI consensus |
| 105 | I experience obstacles in my daily life due to technology. | 0.9 | 8.9 | 0.75 | - | - | Exclusion I-CVI consensus |
| Domain 10: Financial Situation | | | | | | | |
| 106 | My income is sufficient to cover my basic needs without any problems. | 1.0 | 9.4 | 1.0 | 0.87 | 0.96 | Included |
| 107 | I live well on my income. | 0.9 | 9.9 | 1.0 | 0.88 | 0.90 | Included |
| 108 | I have appealed to others for financial support one or more times in the past 12 months. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |
| 109 | I am concerned about my financial situation. | 0.7 | - | - | - | - | Exclusion I-CVI consensus |
| 110 | I know where to go with questions about money, for example at the municipality. | 0.8 | - | - | - | - | Exclusion I-CVI consensus |

Item Content Validity Index (I-CVI)—number of experts rating a 3 or 4/total number of experts.

^a—Items with I-CVI ≤ 0.69 were excluded, 0.69 < I-CVI < 0.90 were individually assessed, I-CVI ≥ 0.90 were retained

^b—Items with I-CVI ≤ 0.78 were retained. AFCCQ average Scale-Content Validity Index (S-CVI_{ave}) after step 3 = 0.95 (64 items). AFCCQ average Scale-Content Validity Index of the final instrument = 0.95 (23 items).

Bold items are included in the final AFCCQ. The grey cells indicate that items were excluded in the next step of the validation process. The letter x represents a non-numeric exclusion for next step.