



Article

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

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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

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							

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

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

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. (Moved to the domain of Outdoor spaces and buildings)	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.