

Category	Variable	Hamalainen et al (2021)	Multidomain survey	Notes
Sensory	Better ear pure-tone average (BPTA)	Mean of 1000, 2000, 3000, 4000 Hz	(✓) No 3000-Hz measurement	Continuous. Note different max: "If a participant did not respond when a tone was presented at the maximum test level of 100 dB HL, we arbitrarily coded a value 105 dB HL for that frequency." Note their definition: "categorized participants with a BPTA > 25 dB HL as having a hearing impairment (HI).
Sensory	Age x BPTA		✓	Continuous
Sensory	Hearing asymmetry	Difference between ears in pure-tone average	✓	Continuous
Sensory	Hearing device use	Reports using any hearing device (ref. is 'no')	✓	"Hearing aids/devices: Hearing aid, Computer to communicate (e.g., e-mail or chat services), Volume control telephone, TTY or TTD, Message relay service, Other phone-related devices (e.g., flashers), Closed caption TV or decoder, Amplifiers (e.g., FM, acoustic, and infra-red), Visual or vibrating alarm, Cochlear implant, Another aid."
Sensory	Trouble hearing in noise	Response to question "Do you find it difficult to follow a conversation if there is background noise, such as TV, radio or children playing, even if using a hearing aid as usual?"; Yes or no. (ref. is 'no').	(✓) 15i-SSQ speech subscale	Continuous
Sensory	Self-reported vision measure	Responses "Fair" or "Poor" were considered as self-reported vision difficulty	✓	0 = no difficulty
Sensory	Behavioral vision measure	visual acuity	Not available	
Sensory	Age x visual acuity		Not available	
Sensory	Vision asymmetry		Not available	
Sensory	Vision disease diagnosis	Diagnosis of glaucoma, macular degeneration, or current cataracts (ref. no diagnosis).	✓	0 = no diagnosis
Sensory	Wearing visual correction	Wore lenses for the habitual test; (ref. Does not normally wear corrective lenses).	✓	0 = no lenses
Sensory	Visual aid use	Use of any vision devices other than glasses/lenses (yes/no; ref. no)	✓	0 = no devices
Sensory	Vision care access	Visited optometrist/ophthalmologist in past year (yes/no; ref. no).	✓	0 = no visit past year
Sensory	Self-reported dual sensory difficulty	Fair or poor self-reported hearing and vision ("In the present study, any participant with at least mild HI and mild VI was considered to have DSI.")	✓	0 = no dual sensory difficulty
Sensory	Behavioral dual sensory impairment		Not available	
Non-sensory	Age (years)	Age Years (45–85)	(✓) Only 50 and above	Continuous
Non-sensory	Sex	Female/Male (ref. is 'female')	(✓) Gender	0 = Female
Non-sensory	Cultural	ref. is "other than 'white'"	Not available	
Non-sensory	Education	Highest level of education attained: (a) "Post-secondary degree"; (b) "Some post-secondary education"; (c) "Secondary school graduate"; (d) "Less than secondary school graduation." (Ref. is 1).	Not available	
Non-sensory	Household income	Annual household income in CAD: (a) ≥\$150,000; (b) \$100,000–149,999; (c) \$50,000–99,999; (d) \$20,000–49,999; (e) <\$20,000 (Ref. is 1)	WHOQOL-BREF environmental domain subscore, or Q12 "Have you enough money to meet your needs?"	17% neutral or dissatisfied (1 = problem)
Non-sensory	Multimorbidity	# of diagnosed chronic conditions, derived from health survey using a series of questions "Has a doctor ever told you that you have [condition]?"	✓	Continuous
Non-sensory	Executive function	Composite score of Executive function derived from principal component analyses of five cognitive tests (PC1)	CSRQ score	Continuous
Non-sensory	Memory	Composite score of Memory derived from principal component analyses of five cognitive tests (PC2)	Subjective cognitive impairment (Yes / No)	0 = no impairment
Non-sensory	Life Space Index	Compound score of independence, frequency and distance moved in/from home	Not available	
Non-sensory	Driving status	dichotomized to driving at least occasionally vs. not at all. Participant drives a vehicle at least occasionally (ref. is "never")	WHOQOL-BREF Q25 "How satisfied are you with your transport?"	5% neutral or dissatisfied (0 = no transport problem)
Non-sensory	Retirement status	Not retired or partly retired (ref. is "fully retired")	✓	0 = full retired
Non-sensory	Lives alone	"No" that household size >1	(✓) Marital Status for now; can also check for "They live in my household" under Social Network Index	0 = not alone; 1 = (probably) lives alone
Non-sensory	Loneliness	Those who responded "Rarely or never (less than 1 day)" were considered not to be lonely.	✓	0 = not lonely
Non-sensory	Social support availability	composite score of the perceived availability of emotional/ informational, tangible, and affectionate social support, and positive social interaction (the Medical Outcomes Study (MOS) social support score; 0–100).	✓	Continuous
Non-sensory	Social network index	Social network diversity was determined using a slightly modified version (CLSA collected information on 10 instead of 12 possible social roles as in the original index) of the Social Network Index (SNI; Cohen 1991). Number of different types of social interactions (0–10), one point for contact at least every 1–2 weeks (over the past year) with each of: children, other close family members, friends, neighbors, work colleagues, schoolmates, fellow volunteers, members of nonreligious community groups, members of religious groups, and being married or in a domestic partnership.	✓	Continuous. Would have to change scoring to align with this method (adding credit for less frequent meetings also); also pull in info from Social Participation scale.
Non-sensory	Social participation (frequency)	Frequency of participation in community activities: Never in past year; At least once in past year; At least monthly; At least weekly; Daily.	✓	Continuous. "(b) the frequency of participation in community activities outside the home"
Non-sensory	Social participation (types of activities)	Number of different types of social activities in which person participated (0–8): family or friendship activities outside of the household; church or religious activities; sports or physical activities with others; educational or cultural activities with others; service club activities; community or professional association activities; volunteer work; any other recreational activity involving other people.	✓	Continuous "Social participation was measured as (a) the number of different types of social activities that the participant engaged in at least weekly"