

## 2024 Content Inventory\_10

### Health and Ageing Research Team (HART)

#### Health and Wellbeing

Question Number	Content	Number of Items	Origin and Reference (where applicable)
Q1 – 7	SF-12	12	Australia/New Zealand adaptation SF-12v2: Ware J, Kosinski M, Turner-Bowker D, Gandek B. How to Score Version 2 of the SF-12® Health Survey (With a Supplement Documenting Version 1). Lincoln, RI: Quality Metric Incorporated; 2002 Recommended scoring: Frieeling MA, Davis WR, Chiang G. The SF-36v2 and SF-12v2 health surveys in New Zealand: norms, scoring coefficients and cross-country comparisons. Australian and New Zealand Journal of Public Health. 2013;37(1):24-31.
Q8	Life satisfaction	1	The WHOQoL Group. Development of the World Health Organization WHOQOL-BREF quality of life assessment. The WHOQOL Group. Psychol Med. 1998;28(3):551-558.
Q9	WHO Quality of life	1	WHOQoL-8: kept single item “...rate your quality of life”
Q10	Purpose in Life	6	Scheier MF, Wrosch C, Baum A, et al. The Life Engagement Test: assessing purpose in life. Journal of behavioral medicine. 2006;29(3):291-298.
Q11	CESD	10	Andresen, E. M., Malmgren, J. A., Carter, W. B., & Patrick, D. L. (1994). Screening for depression in well older adults: evaluation of a short form of the CES-D (Center for Epidemiologic Studies Depression Scale). Am J Prev Med, 10(2), 77-84
Q12		1	Sabatini, S., Ukoumunne, O. C., Ballard, C., Collins, R., Kim, S., Corbett, A., ... Clare, L. (2021). What does feeling younger or older than one's chronological age mean to men and women? Qualitative and quantitative findings from the PROTECT study. <i>Psychology &amp; Health, 38</i> (3), 324–347. <a href="https://doi.org/10.1080/08870446.2021.1960989">https://doi.org/10.1080/08870446.2021.1960989</a>
Q13 – 14	Height and weight - BMI	3	Paulson, D., & Lichtenberg, P. A. (2015). The Paulson–Lichtenberg Frailty Index: evidence for a self-report measure of frailty. <i>Aging &amp; mental health, 19</i> (10), 892-901.
Q15	Functional Capacity	18	IADL/ADL disability.—This was assessed at each wave with the Groningen Activity Restriction Scale (GARS), a well-established reliable and valid measure of IADL/ADL disability, with a clear one-dimensional structure that implies that the ADLs and IADLs included in the measure lie on the same underlying continuous dimension (Kempen, Steverink, et al., 1996; Kempen, Miedema, Ormel, & Molenaar, 1996).

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Q16	Difficulty carrying weight	1	Zhao, W., Zhang, Y., Liu, X., Yue, J., Hou, L., Xia, X., ... & Ge, N. (2020). Comorbid depressive and anxiety symptoms and frailty among older adults: findings from the West China health and aging trend study. <i>Journal of affective disorders</i> , 277, 970-976. Zhao, F., Tang, B., Liu, X., Zhang, Z., & Zhang, L. (2022).
Q17 - 18	Fatigue exhaustion	2	Validating the agreement between the geriatric trauma frailty index and four published frailty scores in the Chinese geriatric trauma population. <i>BMC geriatrics</i> , 22(1), 183.
Q 19	GAI	5	Pachana - General Anxiety Inventory (2007)
Q 20	Physical activity	3	Items from ELSA
Q21-22	Health service use	6	Items from the Medical Expenditure Panel Survey
Q23 - 24	Unmet health care needs	13	WHO's Study on global AGEing and adult health (SAGE Wave 1 – with same questions used in Waves 2 and 3 - <a href="https://www.icpsr.umich.edu/web/NACDA/studies/31381/data_documentation">https://www.icpsr.umich.edu/web/NACDA/studies/31381/data_documentation</a> Additional item on self-care from: Barofsky I. Compliance, adherence and therapeutic alliance: Steps in the development of self care. <i>Soc Sci Med</i> . 1978;12:369–76. MacKichan F, Paterson C, Henley WE, Britten N. Self-care in people with long term health problems: a community based survey. <i>BMC Fam Pract</i> . 2011;12:53.
Q 25	Chronic conditions	30	HART
Q 26	CASP	12	Wiggins RD, Netuveli G, Hyde M, Higgs P, Blane D. The Evaluation of a Self- enumerated Scale of Quality of Life (CASP-19) in the Context of Research on Ageing: A Combination of Exploratory and Confirmatory Approaches. <i>Social Indicators Research</i> . 2008;89(1):61-77.
Q 27-28	Vision and hearing impairment	2	Vision questions are drawn from the NZ Disability Survey.

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Q29 - 31	Falls	2	Fried LP, Tangen CM, Walston J, Newman AB, Hirsch C, Gottdiener J, Seeman T, Tracy R, Kop WJ, Burke G, McBurnie MA; Cardiovascular Health Study Collaborative Research Group. Frailty in older adults: evidence for a phenotype. <i>J Gerontol A Biol Sci Med Sci.</i> 2001 Mar;56(3):M146-56. doi: 10.1093/gerona/56.3.m146. PMID: 11253156.
	Fear of falling	1	Greenberg SA, Sullivan-Marx E, Sommers ML, Chittams J, Cacchione PZ. Measuring fear of falling among high- risk, urban, community-dwelling older adults. <i>Geriatr Nurs.</i> 2016 Nov-Dec;37(6):489-495. doi:10.1016/j.gerinurse.2016.08.018. Epub 2016 Oct 5. PMID: 27720210.
Q32	Sleep	1	Paine SJ, Gander PH. Explaining ethnic inequities in sleep duration: a cross-sectional survey of Māori and non-Māori adults in New Zealand. <i>Sleep Health.</i> 2016; 2(2):109-115.
Q33	Sleep satisfaction	1	WHOQOL
Q34	Daytime sleepiness	1	Buysse DJ, Reynolds CF 3rd, Monk TH, Berman SR, Kupfer DJ. The Pittsburgh Sleep Quality Index: a new instrument for psychiatric practice and research. <i>Psychiatry Res.</i> 1989 May;28(2):193-213. doi: 10.1016/0165-1781(89)90047-4. PMID: 2748771.
Q35	Driving	1	Taylor, J.E., Alpass, F., Stephens, C., & Towers, A. (2011). Driving anxiety and fear in young older adults in New Zealand. <i>Age and Ageing, 40, 62-66.</i> doi:10.1093/ageing/afq154
Q36 – 37	Smoking	2	Derived from Quit Group & MoH ‘Taking the Pulse’ Survey
Q38 – 39	Electronic/vaping	2	NZ Health Survey - Adult questionnaire (year 10), 1 July 2020 – 30 June 2021
Q40 - 41	Cannabis use	2	Q40 – 41 Fergusson, D. M., Boden, J. M., & Horwood, L. J. (2015). Psychosocial sequelae of cannabis use and implications for policy: findings from the Christchurch Health and Development Study. <i>Social psychiatry and psychiatric epidemiology, 50(9)</i> , 1317–1326. <a href="https://doi.org/10.1007/s00127-015-1070-x">https://doi.org/10.1007/s00127-015-1070-x</a>
Q42	Cannabis use	1	HART
Q43 – 44	Alcohol use	4	AUDIT-C Bush, K., Kivlahan, D. R., McDonell, M. B., Fihn, S. D., Bradley, K. A., & Ambulatory Care Quality Improvement Project (ACQUIP. (1998). The AUDIT alcohol consumption questions (AUDIT-C): an effective brief screening test for problem drinking. <i>Archives of internal medicine, 158(16)</i> , 1789-1795.

Question Number	Content	Number of Items	Origin and Reference (where applicable)
Q45	Nutrition	11	Keller, H.H., Roy G, Kane, S.L. (2005). Validity and reliability of SCREEN II (Seniors in the Community: Risk evaluation for eating and nutrition, Version II). <i>European Journal of Clinical Nutrition</i> 59:1149-57
Q46	Social Provisions Scale	24	Cutrona, C. E., & Russell, D. W. (1987). The provisions of social relationships and adaptation to stress. <i>Advances in personal relationships</i> , 1(1), 37-67.EL,
Q47 – 50	Social Connections (Wenger)	15	Pant (Wenger) 1994 – adapted to take into account additional aspects from ELSA. Modified to include other communication forms: Phone/text and on line.
Q51 – 53	Loneliness	3	Hughes, M. E., Waite, L. J., Hawkley, L. C., & Cacioppo, J. T. (2004). A short scale for measuring loneliness in large surveys: Results from two population-based studies. <i>Research on aging</i> , 26(6), 655-672.
Q54	Loneliness	6	Gierveld, J. D. J., & Tilburg, T. V. (2006). A 6-Item Scale for Overall, Emotional, and Social Loneliness: Confirmatory Tests on Survey Data. <i>Research on Aging</i> , 28(5), 582-598. doi: 10.1177/0164027506289723
Q55 – 56	Pets	7	Items were drawn from consultation on item development, validity and use in the companion animal literature with Prof. Nancy Panchana, SoP University of Queensland and Dr Michael Meehan Adjunct snr lecturer Institute of Veterinary, Animal and Biomedical Sciences Massey University. Items assessing social and emotions.
Q57	Daily activity (CLAS)	18	The Cognitive and Leisure Activity Scale (CLAS): A new measure to quantify cognitive activities in older adults with and without cognitive impairment, James E Galvin, Magdalena I Tolea, Stephane Chrisphone, 2021 May 31(7):e 12134 doi: 10.1002/trc2.12124. e Collection 2021.

### Caregiving

Question Number	Content	Number of Items	Origin and Reference (where applicable)
Q58 – 60	Caregiving commitments	3	Australian Women's Longitudinal Study on Women's Health (ALSWH)
Q61 - 66	Key care recipient details and care duration	10	Women's Health Australia (caring for your health pilot study) 2007

## Where You Live

Question Number	Content	Number of Items	Origin and Reference (where applicable)
Q67-69	Current housing type and tenure	3	Heywood, F., Oldman, C., & Means, R. (2002). <i>Housing and Home in Later Life</i> . Milton Keynes: Open University Press.
Q70 a-i	Housing satisfaction	3	a-c Oswald, F., Schilling, O., Wahl, H.-W., Fänge, A., Sixsmith, J., & Iwarsson, S. (2006). Homeward bound: Introducing a four-domain model of perceived housing in very old age. <i>Journal of Environmental Psychology</i> , 26(3), 187-201. <a href="https://doi.org/10.1016/j.jenvp.2006.07.002">https://doi.org/10.1016/j.jenvp.2006.07.002</a>
		5	d-i Items adapted from Heywood, F., Oldman, C., & Means, R. (2002). <i>Housing and Home in Later Life</i> . Milton Keynes: Open University Press
Q70	Neighbourhood qualities	12	j-p Items from Elderly Accommodation Counsel (EAC). <a href="http://www.HousingCare.org">www.HousingCare.org</a> . Chosen in regard to important qualities identified by: Buckenberger, C. (2012). Meanings of housing qualities in suburbia: empirical evidence from Auckland, New Zealand. <i>Journal of Housing and the Built Environment</i> , 27(1), 69-88.
Q71	Neighbourhood	9	Feng, J., Tang, S., & Chuai, X. (2018). The impact of neighbourhood environments on quality of life of elderly people: Evidence from Nanjing, China. <i>Urban studies</i> , 55(9), 2020-2039. (Padeiro, M., de Sao Jose, J., Amado, C., Sousa, L., Roma Oliveira, C., Esteves, A., & McGarrigle, J. (2022). Neighborhood attributes and well-being among older adults in urban areas: A mixed-methods systematic review. <i>Research on Aging</i> , 44(5-6), 351-368.)
Q72 – 76	Your wellbeing at home	5	NZ Centre for Sustainable cities. Sustainable cities.org.nz (Otago University). NZ Census.
Q77	Neighbourhood trust	6	Stafford et al (2003).
Q78	Environment	14	EID-R Cross cultural validation of revised environmental scale.usan Clayton et al.
Q79	Environment anxiety	13	HEAS Hogg Eco Anxiety Scale
Q80 – 82	Retirement Occupation and duration of employment	3	Australian Bureau of Statistics & Statistics New Zealand. (2006). Australian and New Zealand Standard Classification of

Question Number	Content	Number of Items	Origin and Reference (where applicable)
			Occupations: First Edition. ABS cat. no. 1220.0.

### Work and Retirement

Question Number	Content	Number of Items	Origin and Reference (where applicable)
Q83 – 85	Preferred, current work	3	Grant Scobie NZ Treasury
Q86	Work duration	1	HART
Q87 – Q88	Employment tenure Occupation and duration of employment	2	HART
Q89a	Job satisfaction	1	Brayfield, A. H., & Rothe, H. F. (1951). An index of job satisfaction. <i>Journal of Applied Psychology</i> , 35(5), 307–311. <a href="https://doi.org/10.1037/h0055617">https://doi.org/10.1037/h0055617</a>
Q89b	Work involvement	1	Work Involvement Index: Kanungo, R. N. (1982). Measurement of job and work involvement. <i>Journal of Applied Psychology</i> , 67, 341-349.
Q89c	Job demands/decision latitude	1	J.H. Greenhaus, S. Parasuraman, W.M. Wormley. Effects of race on organizational experiences, job performance evaluations, and career outcomes. <i>Academy of Management Journal</i> , 33 (1990), pp. 64-86
Q89d	Job stress index	1	HART
Q89e	Work/family conflict	1	Kopelman, R. E., Greenhaus, J. H., & Connolly, T. F. (1983). A model of work, Family, and inter-role conflict: A construct validation study. <i>Organizational Behavior and Human Performance</i> , 32, 198-215.
Q90	I can financially afford to retire now	1	Adams, G.A. (1999) Career-related variables and planned retirement age: An extension of Beehr's model. <i>Journal of Vocational Behavior</i> , 55, 221-235. AND Adams, G.A. & Beehr, T.A. (1998). Turnover and Retirement: a comparison of their similarities and differences. <i>Personnel Psychology</i> , 51, 643-665.
Q91 – 92	Armed Forces	6	HART

### Living Standards

Question Number	Content	Number of Items	Origin and Reference (where applicable)
Q93 – 97	Personal and household	16	NZ Census

Question Number	Content	Number of Items	Origin and Reference (where applicable)
	income, superannuation Income other than national superannuation		
Q98	ELSI-SF	1	Economic Living Standards Index Short Form (ELSI Short Form): Jensen, J., Spittal, M., & Vasantha Krishnan. (2005). ELSI Short Form: User manual for a direct measure of living standards. Retrieved from <a href="http://www.msd.govt.nz/about-msd-and-our-work/publications-resources/monitoring/living-standards/elsi-short-form.html">http://www.msd.govt.nz/about-msd-and-our-work/publications-resources/monitoring/living-standards/elsi-short-form.html</a>
Q99	LSCAPE + Dentist	6+1	Breheny, M., Stephens C., Henricksen, A., Stevenson B., Carter K., & Alpass F. (2014). Measuring living standards of older people using Sen's capability Approach; development and validation of the LSCAPE 24 (Living Standards Capabilities for Elders) and LSCAPE-6 Ageing and Society, 36 (2), 307 – 332, doi:10.1017/S0144686X14001160.

### Your Personal Situation

Question Number	Content	Number of Items	Origin and Reference (where applicable)
Q100 - 104	Gender, sexuality, DOB, marital status, education	5	NZ Census
Q105	Household composition	15	NZ Census
Q106	Ethnicity	9	NZ Census
Q107	Where were you born?	1	HART

### Māori Cultural Identity

Question Number	Content	Number of Items	Origin and Reference (where applicable)
Q108	Māori language	1	Te Hoe Nuku Roa Study – Massey University.
Q109	Marae attendance	2	Adapted from the Te Hoe Nuku Roa Study– Massey University.
Q110	Experiences of being part of	9	Tu Maori Mai: Cultural embeddedness improves adaptive coping and wellbeing for Maori

Question Number	Content	Number of Items	Origin and Reference (where applicable)
	Māori communities		adolescents, Fox, R., Neha T., and Joe P, Victoria Uni (Wgtn). NZ Journal of Psych, Vol, 47, no 2, 2 July 2018. MaCES - sf