

2022 Health, Work & Retirement Survey

Content Inventory

HEALTH AND WELLBEING			
Question #	Content	# of items	Origin & 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: Frieling 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”
Q10-11	Subjective memory complaints	2	Items from HRS
Q12	Weight loss	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. Journal of affective disorders, 277, 970-976.
Q13	Difficulty carrying weight	1	Paulson, D., & Lichtenberg, P. A. (2015). The Paulson–Lichtenberg Frailty Index: evidence for a self-report measure of frailty. Aging & mental health, 19(10), 892-901.
Q14-15	Fatigue/exhaustion	1	Paulson, D., & Lichtenberg, P. A. (2015). The Paulson–Lichtenberg Frailty Index: evidence for a self-report measure of frailty. Aging & mental health, 19(10), 892-901.

Q16	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.
Q17	CES-D	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
Q18	GAI	5	Pachana - General Anxiety Inventory
Q19	Physical activity	3	Items from ELSA
Q20-21	Health service use	6	Items from Medical Expenditure Panel Survey
Q22	COVID-19 diagnosis	1	HART
Q22-23	COVID-19 vaccine	1	U.S. Census Bureau Household Pulse Survey
Q24	CASP-12	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. Social Indicators Research. 2008;89(1):61-77.
Q25	Chronic conditions	15	Health and Ageing Research Team
Q26-27	Vision and hearing impairment	2	Vision questions are drawn from the NZ Disability Survey.
Q28-29	Falls	2	HART/ACC
Q30	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. Geriatr Nurs. 2016 Nov-Dec;37(6):489-495. doi: 10.1016/j.gerinurse.2016.08.018. Epub 2016 Oct 5. PMID: 27720210.
Q31	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. Sleep Health. 2016; 2(2):109-115.
Q32	Sleep satisfaction	1	WHOQOL

Q33	Daytime sleepiness	1	Buyse 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.
Q34-35	Driving	2	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</i> , 40, 62-66. doi:10.1093/ageing/afq154
Q36	Drowsy driving	1	Netzer NC, Stoohs RA, Netzer CM, Clark K, Strohl KP. Using the Berlin Questionnaire to identify patients at risk for the sleep apnea syndrome. <i>Ann Intern Med.</i> 1999 Oct 5;131(7):485-91. doi: 10.7326/0003-4819-131-7-199910050-00002. PMID: 10507956.
Q37	Self-reported head injury	2	Abner EL, Nelson PT, Schmitt FA, Browning SR, Fardo DW, Wan L, Jicha GA, Cooper GE, Smith CD, Caban-Holt AM, Van Eldik LJ, Kryscio RJ. Self-reported head injury and risk of late-life impairment and AD pathology in an AD center cohort. <i>Dement Geriatr Cogn Disord.</i> 2014;37(5-6):294-306. doi: 10.1159/000355478. Epub 2013 Dec 31. PMID: 24401791; PMCID: PMC4057973.
Q38-39	Smoking	2	Derived from Quit Group & MoH 'Taking the Pulse' survey
Q40-41	Alcohol use	4	AUDIT-C

WHĀNAU, FAMILY AND FRIENDS

Question #	Content	# of items	Origin & Reference (where applicable)
Q42	Childcare	2	Australian Longitudinal Study on Women's Health (ALSWH)
Q43-44	Volunteering	8	Dr Patrick Dulin - Volunteer frequency: HWR Team
Q45	Social participation	7	
Q46	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

Q47	Social Provisions Scale	10	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.
Q48	Age-related abuse	1	HART

CAREGIVING			
Question #	Content	# of items	Origin & Reference (where applicable)
Q49-51	Caregiving commitments	3	Australian Women's Longitudinal Study on Women's Health (ALSWH)
Q52-58	Key care recipient details and care duration	9	Australian Women's Longitudinal Study on Women's Health (ALSWH)
Q59-60	Care relationship + overall	2	Women's Health Australia (caring for your health pilot study) 2007

WHERE YOU LIVE			
Question #	Content	# of items	Origin & Reference (where applicable)
Q61-63	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
Q64 a-i	Housing satisfaction	3	(63a-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. https://doi.org/10.1016/j.jenvp.2006.07.002
		5	(63d-i) Items adapted from Heywood, F., Oldman, C., & Means, R. (2002). <i>Housing and Home in Later Life</i> . Milton Keynes: Open University Press
Q64 j-p	Neighbourhood qualities	7	(63j-p) Items from Elderly Accommodation Counsel (EAC). www.HousingCare.org . 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.

Q65-67	Housing conditions	3	Heywood, F., Oldman, C., & Means, R. (2002). Housing and Home in Later Life. Milton Keynes: Open University Press
Q68	Neighbourhood trust	6	Stafford et al 2003
Q69	Future housing needs	1	HART
Q70	Future neighborhood needs	1	HART
Q71	Ideal living arrangements	13	HART
Q72	Access to government support	1	HART

WORK AND RETIREMENT			
Question #	Content	# of items	Origin & Reference (where applicable)
Q73-74	COVID-19 and work	8	HART
Q75	Retirement age	1	
Q76	Hours paid employment	1	HWR/NZLSA
Q77	Shift work	1	Adapted from Fransen M, Wilsmore B, Winstanley J, Woodward M, Grunstein R, Ameratunga S, Norton R. Shift work and work injury in the New Zealand Blood Donors' Health Study. Occup Environ Med. 2006 May;63(5):352-8. doi: 10.1136/oem.2005.024398. PMID: 16621855; PMCID: PMC2092485.
Q78-79	Preferred and current work	2	Grant Scobie, New Zealand Treasury
Q80-82	Occupation and duration of employment	3	Australian Bureau of Statistics & Statistics New Zealand. (2006). Australian and New Zealand Standard Classification of Occupations: First Edition. ABS cat. no. 1220.0.

Q83a	Job satisfaction	1	from Brayfield et al., 1951
Q83b	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.
Q83c	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
Q83d	Job stress index	1	HWR
Q83e	Work/family conflict	1	Kopelman, R. E., Greenhaus, J. H., & Connolly, T. F. (1983). A model of work, Family, and interrole conflict: A construct validation study. <i>Organizational Behavior and Human Performance</i> , 32, 198-215.
Q84	I can financially afford to retire now		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.

YOUR FINANCIAL WELLBEING			
Question #	Content	# of items	Origin & Reference (where applicable)
Q85-87	Personal and household income, superannuation	4	NZ Census
Q88-93	ELSI-SF	25	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 http://www.msd.govt.nz/about-msd-and-our-work/publications-resources/monitoring/living-standards/elsi-short-form.html

Q94	LS-CAPE + dentistry item	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. <i>Ageing and Society</i> , 36(2), 307-332, doi:10.1017/S0144686X14001160.
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YOUR PERSONAL SITUATION			
Question #	Content	# of items	Origin & Reference (where applicable)
Q95-99	Gender, sexuality, DOB, marital status, education	5	NZ Census
Q100	Household composition	1	NZ Census
Q101	Ethnicity	2	NZ Census
Q102	Where were you born?	2	

MAORI CULTURAL IDENTITY			
Question #	Content	# of items	Origin & Reference (where applicable)
Q103	Māori language	1	Te Hoe Nuku Roa Study
Q104	Marae attendance	2	Adapted from the Te Hoe Nuku Roa Study
Q105	Experiences of being part of Māori communities	4	Based on work by Stevenson, B. (In Press). <i>Measuring Māori Identity and Health: The Cultural Cohort Approach</i> . Doctor of Philosophy in Public Health, Massey University, Palmerston North

WHO SAGE survey			
Question #	Content	# of items	Origin & Reference (where applicable)
Q106-119	WHO SAGE survey	64	WHO SAGE survey