

Research Bank Journal article

Fears and freedoms : A qualitative analysis of older adults' basic psychological needs for autonomy, competence, relatedness and beneficence

Dendle, Kelli, Buys, Laurie, Vine, Desley and Washington, Tracy

This is the peer reviewed version of the following article:

Dendle, K., Buys, L., Vine, D. and Washington, T. (2022). Fears and freedoms : A qualitative analysis of older adults' basic psychological needs for autonomy, competence, relatedness and beneficence. *Australasian Journal on Ageing, 41*(2), pp. 229-236, which has been published in final form at https://doi.org/10.1111/ajag.13009.

This article may be used for non-commercial purposes in accordance with Wiley Terms and Conditions for Use of Self-Archived Versions. This article may not be enhanced, enriched or otherwise transformed into a derivative work, without express permission from Wiley or by statutory rights under applicable legislation. Copyright notices must not be removed, obscured or modified. The article must be linked to Wiley's version of record on Wiley Online Library and any embedding, framing or otherwise making available the article or pages thereof by third parties from platforms, services and websites other than Wiley Online Library must be prohibited.

1 Title

- 2 Fears and freedoms: A qualitative analysis of older adults' basic psychological needs for autonomy,
- 3 competence, relatedness, and beneficence

4 Abstract

5 Objective

- 6 Self Determination Theory posits three universal psychological needs: autonomy, competence and
- 7 relatedness. Beneficence has recently been proposed as an important behaviour for improved well-
- 8 being and eudaimonia. This study sought to qualitatively examine older adults' experiences of basic
- 9 psychological needs satisfaction and frustration.

10 Methods

- 11 Three separate and simultaneous national online focus groups were undertaken over four
- 12 consecutive days. Older Australians (n =103) explored home and community life. Themes were
- 13 identified using reflexive thematic analysis.

14 Results

- 15 Older adults are challenged in satisfying their psychological needs, especially around and after time
- 16 of retirement and as mobility decreases. Beneficence emerged as important for well-being,
- 17 congruent with evidence that beneficence influences well-being beyond basic psychological need
- 18 fulfillment.

19 Conclusion

- 20 Satisfactions and frustration may manifest differently for older adults than other groups. Thus, their
- 21 experiences may not adequately be captured by self-report measures. Novel themes of "fears and
- 22 freedoms" were identified in the study. Fear pertains to the loss of autonomy and the freedom to
- 23 spend time as one wishes.

24 Keywords

25 Aging; Well-being; Beneficence; Self Determination Theory; Online Focus Groups

26 Introduction

27 Increasing life expectancy brings a global imperative to ensure people can experience well-being into 28 late life. According to Ryan and Deci's ^{1,2} Self Determination Theory (SDT) an individual's subjective well-being (SWB) depends on the degree to which one's basic psychological needs for autonomy, 29 30 competence, and relatedness are satisfied. Autonomy refers to the need for "choice, volition, and 31 freedom" 1(p74) in one's thoughts and actions, competence refers to the need for a person to perceive 32 they are effective and capable in their actions within an environment, and relatedness refers to the 33 need to have trusting and warm relationships and consequently integration into a social group ¹. The theory has established that satisfying these three psychological needs leads to a holistically good life 34 35 of 'living well' with integrity and well-being, 'eudaimonia', rather than 'hedonic' happiness or 36 pleasure seeking that is less satisfying in the long term ^{1,2}.

37 To ensure a holistically good life, it is critical to examine psychological needs fulfillment over the life 38 span. The substantial body of evidence to support SDT from early and middle adulthood into late life exists in areas as diverse as musical participation³ and pet ownership⁴. However, while SDT's basic 39 40 psychological needs may be the same across the lifespan, need satisfactions and frustrations may be 41 experienced differently in later life, which may, at least in part, account for variations in late-life 42 well-being. That is, while older adults are more likely to live eudaimonically in terms of intrinsic 43 aspirations, goal autonomy, mindfulness and fulfillment of basic psychological needs, their wellbeing outcomes are mixed in comparison to younger adults ⁵. Studies suggest that older adults are 44 sensitive to threats to their sense of autonomy and competence ⁶, while high vulnerability 45 46 associated with age-related frailty might change the importance of these needs for well-being in 47 very late life⁷. While satisfaction of basic psychological needs can lead to better well-being 48 outcomes, differences in later life may not be captured on existing self-report measures, and should be examined qualitatively, which is the focus of this research. 49

50 Beneficence, the sense of doing, or having done, good things for others, has recently been proposed

as a fourth basic psychological need ⁸ and is strongly linked with (psychological) needs in older

52 adulthood. Older adults are more likely to live in prosocial ways, and 'giving back' has been

recognised as a fundamental orientation for people from middle age ⁸. Having been freed from early

adulthood's demands for strength, productivity and planning, people are able to assume

55 'disponibility', an ethical and cognitive attitude that relinquishes the drive to be confined by specific

56 convictions or projects ⁹. Dismissing constraints directed towards fixed projects or destinations, this

57 orientation recognises others as "human beings or companions on life's journey" rather than

viewing others as competitors or pawns ^{9(p206)}. This change in outlook is argued to not be

- 59 experienced or perceived as defeatist, but rather as a fundamental contributor to ageing positively,
- 60 leading to friendship, volunteering, and other forms of interpersonal solidarity. Therefore,
- 61 beneficence may be especially important for people in later life.
- 62 Later stages of life often brings changes in socio-demographic status and unexpected health
- 63 challenges that can affect fulfilment of psychological needs and hence overall well-being. The study
- 64 responds to Villars ¹⁰ observation about the importance of considering contemporary lived
- 65 experience to explore older peoples' psychological needs, and identify experiences that have unique
- 66 implications in later life.

67 Methods

- 68 This study is part of a larger project examining contemporary older Australians' daily lived
- 69 experience of home and community. Using a qualitative social constructivist methodology, it
- 70 prioritises participants' voices. Online focus groups (OFG) were conducted to identify the
- 71 perspectives of older adult participants from diverse circumstances. This focus group approach
- 72 provided a realistic and cost effective way to bring individuals together in discussions ¹¹, and enabled
- 73 participation for people from hard-to-reach populations e.g. carers ¹² and people with health issues
- ¹³. The study was approved by the Queensland University of Technology Office of Ethics and Integrity
- 75 (#1600000983). Participants provided informed consent before being granted access to the OFG.

76 The OFG were conducted in conjunction with a private contractor that maintains a database of 77 people who have expressed interest in participating in market research and discussion forums. Email 78 invitations were sent via the contractor to 132 people 50 years and above, purposively selected from a mix of locations, life stages, household structures and ownership, socio-economic and employment 79 80 statuses. Older people typically live in their home for decades ¹⁴, therefore this study included 81 people aged 50+ to encompass changing circumstances at different life stages. A total of 103 people (78%) aged between 50 and 92 consented to participate. Participants were anonymous to 82 83 researchers. Participants' characteristics are summarised in Table 1. One participant withdrew from 84 the study after viewing the discussion topics, saying they did not identify as an older person.

85 Three separate and simultaneous OFG were conducted over four days, to limit the number of

- 86 participants per group (*n*1=33, *n*2=37, *n*3=33), and reading/ interaction burden for participants and
- 87 the facilitator ¹⁵. Text interactions could be in real-time or could be posted at any time over the four
- 88 days, allowing participants to interact at times/locations that suited them ^{11,16}. The same facilitator
- 89 conducted all OFG to maximise comparability and ensure data were collected in the same socio-
- 90 political and media environment. Discussions on separate topic 'pages' addressed different topic
- 91 areas (e.g. Groups and communities, Home in the future). As with in-person focus groups, the
- 92 facilitator could stimulate or clarify, for example, 'Can you tell me a little more about....'. Participants
- 93 were not obliged to respond to stimulus topic/s and could type 'no comment' or similar. A detailed
- 94 description of the OFG process is published elsewhere¹⁷.
- 95 Author 1, a female occupational therapist with an interest in housing issues, facilitated all focus
- 96 groups and advised participants that the research contributed to her PhD. To simplify interactions,
- 97 authors 2, 3 and 4, experienced female qualitative researchers, did not provide direct facilitation.
- 98 The contractor exclusively provided technical support.

99 Analysis

Reflexive thematic analysis provided a structured mechanism for analysing the large volume of data
(1800+ text-based posts) ¹⁸. Initial analysis was conducted manually by author 1 to identify emerging
themes, using Nvivo v12 to manage the large data volume, without automated analysis functions.
Data were read and re-read to understand the nuances and implications across all OFG, with all
authors reviewing the data in an iterative process to identify key themes and patterns ¹⁸. Participants
were anonymous and could not be approached to comment on findings.

106 **Results**

107 Results are discussed in terms of *autonomy, relatedness, competence* and *beneficence*.

108 Autonomy

- 109 The majority of participants expressed a desire for autonomy and satisfaction in making choices
- 110 based on personal preference or values, in a general sense or in pursuing specific activities they
- 111 found satisfying. Post retirement, one participant observed:
- 112 'Now I'm making up for lost time and most days set aside at least an hour of "me time"' (GI,
- 113 68, male, group 1)

- 114 Participants routinely expressed concern about anticipated constraints to autonomy as they age,
- 115 typically from health challenges, economic constraints or social norms, and clearly identified their
- 116 fear of losing autonomy. The view of many was expressed by DT:
- 117 'My worst fear of the future is being unable to do what I am doing now at the age of 92 -
- 118 *meeting with friends playing ...bowls and keeping healthy....'* (DT, 92, male, group 3)
- 119 Participants who had chosen to fully or partially retire from paid work referred to the increase in
- autonomy as one of the most positive aspects. GW (71, male, group 1) described retiring at 50, 'I
- 121 *accepted a redundancy package, and lived happily ever after'* and SP (64, female, group 1) advised
- 122 others to, 'Find somewhere to volunteer and you get the best of both worlds. A purpose but no boss.'
- 123 Those who felt they had been forced from the workforce (by illness, retrenchment etc.) described
- 124 impacts on their broader self-efficacy and reduction in perceived control across other areas of life.
- 125 For example:
- 126 'I had my job taken from me when my [boss's] company was taken over...' (CC, 65, Male,
- 127 group 2)
- 128 In terms of older adults' perception of their autonomy around retirement and their future,
- autonomy was positively or adversely affected by making an informed vs a coerced decision
- 130 respectively.

131 Competence

- Being engaged and capable in later life was recognised and valued, for themselves, and also for
- 133 people with whom participants shared their lives:
- 134 'My wife ... goes out of her way to help others who are sick amazes me... forever cooking
- 135 meals for neighbours and friends. What an inspirational woman.' (BF, 75, male, group 2)
- 136 Some participants described feeling competent in daily life at present , but expressed concern that
- this could change in future due to societal changes, emerging technology and an increasingly de-
- 138 personalised world. This was clearly expressed by CP:
- 139 'Knowing that the days of newspapers, free TV, postal services [are] either going to be
- 140 obsolete or other technical things changing life will become harder for the [ageing]

- 141 population. It has happened already with... the inability to speak to a person for help' (CP,
- 142 79, female, group 1)
- 143 Many participants observed that older peoples' capabilities were undervalued in their communities.
- 144 A lack of satisfaction, and in some cases distress, was evidenced where peoples' skills and abilities
- 145 were not perceived as useful or valued.
- 146 'I am on my own and very independent... It irritates me when people tell me I shouldn't be
- 147 mowing the lawn or painting a room. Why not if you are capable ...' (ML, 80, female,
- 148 group 2)
- 149 Participants also valued developing new competencies, taking classes, exploring new hobbies and
- 150 emerging technologies. This was described as personally satisfying and a way to engage more
- 151 effectively in desired activities or relationships e.g. learning vegetarian cooking with a grandchild.
- 152 Despite different contexts, many individuals discussed drawing on existing skills while adapting to
- 153 emerging circumstances:
- 154 *'I'm still involved with equestrian sports, especially Dressage as a judge & event organizer.'*
- 155 (MT, 70, female, group 1)

156 Relatedness

- 157 Relationships with others of all ages were paramount in coping with life, which could be experienced 158 like JS with a 'very supportive group of family and friends who rally when needed' or via her list of 159 reliable tradespeople (JS, 66, female, group 1). In terms of intergenerational relationships, some 160 expressed the perspective that they 'find the younger generation pretty understanding and tolerant' 161 (DJ, 57, female group 1), while others were concerned that their sense of community belonging was 162 undermined by behaviour perceived as negative stereotyping, or lack of respect for older people. 163 Indeed, the issue of intergenerational relatedness also impacted more broadly on autonomy and 164 competence needs. For example:
- 165 *'The attitude of some of the younger people that due to our age we cannot understand for*
- 166 *example how businesses operate and need our hands held ...'* (GB, 70 ,male, group 1)
- 167 The opportunity to focus on interests was valued and the social aspects of activities were often an
- 168 important element. For example, CP observed that the interpersonal aspect was integral to learning
- 169 to speak Italian:

170 *'I love the language and... not only the fun of learning but sharing this with others in the*

171 *class.*' (CP, 79, female, group 1)

172 A small number of participants expressed a preference for isolation, like LK (65, female, group 3)

173 who explained that 'I did groups and communities for decades as a professional, now I savour my

174 *peace and quiet'*. However, most participants described how they valued and aspired to retain

diverse long-term personal and place connections as part of their lives, as described by LH:

176 *'...we looked at retirement villages, but that would mean going away from all our friends...*

177 to change Church... We are in a good area, surrounded by nice, friendly neighbours with all

178 the shops and public transport within walking distance.' (LH, 81, female, group 2)

179 Those who felt isolated described their situation as 'hard' and separation from relationships as

180 'difficult'. Some participants faced a future separated from significant relationships by death or

distance. Participant MW (67, female, group 2) explained that physical limitations and task sharing

182 meant she struggled after her husband's death:

183 *'...everything was shared out... then we went off together to share any leisure time... I am*

184 *feeling extremely useless, worthless and frustrated. The worst thing is if a friend/s call in*

185 they will quickly point out that - you should do this or that - but never offer to actually

186 help...'.

187 Some participants sought alternative ways to engage with others, including using virtual methods to

188 stay in touch with important contacts, and keep up with news, social media, online interest and

advocacy groups. Participant AS (77, female, group 2) for example observed that:

190 'I love Facetime on my iPhone. I can talk to my son and his children in the UK on wi-fi for191 free.'

192 However, others found the inability to be physically present highly unsatisfactory. Overall, what

mattered most about relationships was whether they met the participant's needs and were on theirown terms.

195 '...I don't mind to join with any kind of people of other religion... I am always interested with

196 different culture and different religion, I always respect each religion and different people

197 *of different nationality...'* (AC, 65, male, group 3)

198 Beneficence

Beneficent behaviours were themselves often closely aligned with forms of interpersonal
relatedness. Positively impacting the lives of others, either directly or indirectly, was frequently
mentioned with the majority of participants engaged, or aspiring to engage in, a wide range of
beneficent or giving behaviours. Participants were keen to use their available time, resources and
competencies e.g. computer skills, driver's licence, and acknowledged the value of such activity in
terms of expanding their existing interests, skills, social engagement or the opportunity to nurture
others. LH described their experience in this way:

206 '...we have 'adopted' a young man our second son's age who is all alone now that his wife

207 has died... feels like we have family close by again.' (LH, 81, Female, group 2)

208 The majority of participants valued having community connections that they could contribute to

209 close to home, and many were also interested in engaging physically and intellectually with the

210 wider world, actively seeking information, developing opinions and seeking to influence matters

they felt strongly about. Beneficent activity was often long term, for example:

212 'I love being involved & making what I consider to be a contribution. I've been involved in

213 the community in one form or another most of my life, SES, Fire Brigades, local sports clubs

214 *[etc].'* (PO, 67, male, group 1)

215 While participants often focussed on making a positive impact, challenges to their capacity to

216 contribute could affect confidence in offering or performing these activities. These challenges could

217 make people feel frustrated, inadequate, lacking worthiness or undervalued:

218 'I was a Scout Leader and enjoyed it immensely. Getting children to engage, ...was an

219 integral part of my life, but sadly ill health stopped that. Later on I was a Committee

220 member of a group... and again ill health forced me to resign. Every group I have looked at

221 to participate in needs mobility.' (JT, 73, male, group 3)

Around one third of participants had dependants, typically minor or adult children, spouses, or other

relatives, and described finding satisfaction in making their lives better. Participants noted that

trying to improve others' lives could be difficult or put a strain on relationships. For some, giving

priority to others led to problems e.g. health issues, while for others a lack of ability to provide

positive outcomes induced distress and anxiety. Participants described their different situations:

- 227 'My needs have been put to one side for the last 19 years and unfortunately that has meant my
- 228 health has suffered. I am well aware that means upcoming medical issues that will be long term. (SP,
- 229 51, Female, group 1)
- 'I used to volunteer at [regional hospital] but [Health Department] closed us out of the food
 kitchen...' (AS, 72, male, group 3)
- The quotes from participants provided examples of the daily experiences of older adults. These are representative of the OFG and valuable in terms of better understanding need satisfaction of older people.

235 Discussion

- 236 This study examined the nuances of older adults' experience of psychological need satisfaction to
- 237 qualitatively inform possible paths and obstacles to the satisfaction of older adults' basic
- 238 psychological needs. The research uniquely captures perspectives of older people from multiple life
- stages and age ranges, including people often excluded from providing feedback due to their healthstatus, location, or caring roles.
- 241 It is clear that need satisfaction influenced the way older adults sought to engage in daily activities, 242 relationships and interaction with their communities. These behaviours then impacted on older 243 peoples' level of satisfaction in basic psychological needs. Variations in autonomy satisfaction were 244 apparent after job and retirement changes in later life, due to the cessation of job-related 245 gratifications and concerns. On one hand, we found plentiful evidence that forced retirement 246 created a fear of immediate loss of ability to satisfy needs for autonomy and competence in later 247 life. Yet, on the other hand some older adults experienced increases in autonomy in retirement, although these older adults were either partially retired or had not been forced into retirement. 248 249 Gains in autonomy satisfaction in retirement were observed for people able to choose self- directed 250 activities after retirement, particularly people who retired on their own terms rather than being 251 forced into retirement. Autonomy satisfaction may be supported by choosing retirement timing and 252 establishing a strong baseline sense of autonomy through arranging affairs for a desired post 253 retirement lifestyle.
- The importance of autonomy and competence was highlighted where satisfaction in these areas was threatened, especially where limitations to physical ability or mobility (age related or not) and ageist social expectations combined. Societal and technological changes could engender frustration, both

through perceived personal lack of ability and societal perceptions of declining competence.

258 Importantly, for some this time of life also provided the opportunity to indulge and expand interests

and skill sets. The potential loss of identity as an autonomous competent person may be more

salient among older people with a lifetime of identity establishment, leading to this studies'

261 observed fear of immediate loss of ability to satisfy needs, hence it is important to support older

262 people to maintain satisfaction in competence and autonomy as it may be difficult to regain

satisfaction in these needs if it is lost. The small number of participants aged 85+ makes it difficult to
 draw conclusions about Neubauer et al.'s ⁷ assertion that high vulnerability in very late life may

265 change the importance of competence and autonomy needs.

266 Older peoples' descriptions of relatedness were strongly associated with helping others and an 267 orientation towards beneficence. Importantly, participants frequently discussed beneficent activities 268 without identifying them as beneficent or voluntary, though the purpose was clearly to contribute to 269 other people or communities. Beneficence was identified as having an important impact on 270 positivity and influencing need satisfaction for older adults. Beneficence's impact on psychological 271 need fulfillment could be enhanced and strengthened over time as people strengthened 272 relationships, and built and maintained engagement with home environments and communities 273 through their contributions. Beneficent activity was typically in the context of formal volunteering, 274 informal assistance to family, friends and neighbours, and active membership of organisations e.g. 275 assisting neighbours who were unwell or unable to drive, raising grandchildren, involvement in local 276 interest groups, service clubs and organisations. We can speculate that Romaioli and Contarello's ⁹ 277 'disponible' worldview (reducing 'strength and productivity' drive, while embracing interpersonal 278 solidarity) could be a human's default orientation, not adopted in modern society until social 279 pressure is relaxed at retirement.

280 While late life presented the opportunity to spend time in company or alone, the fundamental need 281 to relate to others may remain as a motivator, allowing people to reorient time and effort towards 282 friendship and volunteering in ways that meet their personal interests and needs. While people 283 raised concerns about mobility and proximity regarding relatedness and beneficence satisfaction, it 284 was those with a long history of community contribution and volunteering who were most likely to 285 raise this issue. The majority of participants expressed concerns that barriers surrounding mobility 286 and physically accessing locations would increase in later life, with potential impacts on relatedness 287 and beneficence satisfaction. Older adults' efforts to overcome mobility and proximity limitations

through the virtual world were somewhat successful, but a clear desire was apparent for

289 interpersonal interaction and engagement for psychological need fulfilment. Psychological need

290 domains are highly interdependent, as changing personal circumstances, daily experiences and

291 social interactions reciprocally influenced satisfaction outcomes.

292 In considering well-being in later life it is important to understand when and how in their lives older 293 adults develop their sense of well-being. The developmental perspective has been debated since 294 Erikson ^{19,20} argued that from middle adulthood people become more focussed on generativity to 295 nurture, guide and contribute to well-being for future generations. McAdams and colleagues' 296 conceptual framework identified that complex interactions among inner needs, cultural demands, 297 interests, objectives, behaviours or narratives are entwined in generative orientation and behaviour 298 ²¹ to contribute to creating a better world, or beneficence. As this developmental stage must be 299 negotiated to successfully deal with later life, beneficence might therefore be seen as a potential 300 psychological need for people as they move from middle adulthood, or retirement, through later 301 adulthood.

302 Conclusion

303 This study contributes to ageing research by furthering our understanding of psychological need

304 satisfaction and the importance of beneficence for the well-being of contemporary older adults.

305 Martela et al's ⁸ theory that *beneficence* may be a basic psychological need in addition to *autonomy*,

306 *competence, relatedness* is somewhat supported by our findings.

307 Psychological need fulfilment was supported by older adults' engagement in daily activities,

308 relationships and interactions, which is important for well-being. Older people gain need satisfaction

from contributing to their communities but are likely to face challenges to their ability to contribute

310 in later life. This tension suggests that targeted support to build community connections and

311 volunteering options for people around retirement time could support older adults to develop

312 approaches which can satisfy psychological needs over the long term.

313 Impact statement

This study highlights that older people require access to relationships and community in order to

find meaningful ways to satisfy psychological needs. Practitioners should prioritise matching older

people with opportunities to engage socially and volunteer in local roles they are interested in, to

317 support psychological need satisfaction and well-being in later life.

318 Data availability statement: Authors elect to not make data available.

319 References

- 3201.Ryan RM, Deci EL. Self-determination theory and the facilitation of intrinsic motivation, social
development, and well-being. Am Psychol. 2000;55(1):68-78. doi:10.1037/0003-066X.55.1.68
- Ryan RM, Deci EL. Self-Determination Theory: Basic Psychological Needs in Motivation,
 Development, and Wellness. New York, NY: Guilford Publications; 2017.
- Krause AE, North AC, Davidson JW. Using Self-Determination Theory to Examine Musical
 Participation and Well-Being. *Front Psychol.* 2019;10. doi:10.3389/fpsyg.2019.00405
- Kanat-Maymon Y, Antebi A, Zilcha-Mano S. Basic psychological need fulfillment in human-pet
 relationships and well-being. *Personal Individ Differ*. 2016;92:69-73.
 doi:10.1016/j.paid.2015.12.025
- Mackenzie CS, Karaoylas EC, Starzyk KB. Lifespan Differences in a Self Determination Theory
 Model of Eudaimonia: A Cross-Sectional Survey of Younger, Middle-Aged, and Older Adults. J
 Happiness Stud. 2018;19(8):2465-2487. doi:10.1007/s10902-017-9932-4
- Miller PA, Sinding C, Griffith LE, Shannon HS, Raina P. Seniors' narratives of asking (and not asking) for help after a fall: implications for identity. *Ageing Soc*. 2016;36(02):240-258.
 doi:10.1017/S0144686X14001123
- Neubauer AB, Schilling OK, Wahl H-W. What Do We Need at the End of Life? Competence, but
 not Autonomy, Predicts Intraindividual Fluctuations in Subjective Well-Being in Very Old Age. J
 Gerontol B Psychol Sci Soc Sci. 2017;72(3):425-435. doi:10.1093/geronb/gbv052
- 3388.Martela F, Ryan RM. The Benefits of Benevolence: Basic Psychological Needs, Beneficence, and339the Enhancement of Well-Being. J Pers. 2016;84(6):750-764. doi:10.1111/jopy.12215
- Romaioli D, Contarello A. Redefining agency in late life: the concept of 'disponibility.' *Ageing Soc.* 2019;39(1):194-216. doi:10.1017/S0144686X17000897
- Villar F. Successful ageing and development: the contribution of generativity in older age.
 Ageing Soc. 2012;32(7):1-19. doi:10.1017/S0144686X11000973
- Liamputtong P. Focus Group Methodology: Principles and Practice. SAGE Publications Ltd;
 2011. doi:10.4135/9781473957657
- Bonevski B, Randell M, Paul C, et al. Reaching the hard-to-reach: a systematic review. BMC
 Med Res Methodol. 2014;14(42). doi:10.1186/1471-2288-14-42
- Froonjian J, Garnett JL. Reaching the Hard to Reach: Drawing Lessons From Research and
 Practice. *Int J Public Adm*. 2013;36(12):831-839. doi:10.1080/01900692.2013.795161

- Boldy D, Grenade L, Lewin G, Karol E, Burton E. Older people's decisions regarding 'ageing in place': A Western Australian case study. *Australas J Ageing*. 2011;30(3):136-142. doi:10.1111/j.1741-6612.2010.00469.x
- Hatten JE. Optimal Size For Online Asynchronous Text-Based Focus Group Discussions: A Mixed
 Methods Study. University of Minnesota. 2014.
- Wilkerson JM, Iantaffi A, Grey JA, Bockting WO, Rosser BS. Recommendations for internetbased qualitative health research with hard-to-reach populations. *Qual Health Res*.
 2014;24(4):561-574. doi:10.1177/1049732314524635
- 358 17. Dendle K, Buys L, Vine D. Online Focus Groups: National Focus Groups With Diverse Older
 359 Adults. SAGE Publications Ltd; 2021. doi:10.4135/9781529758535
- Braun V, Clarke V. Using thematic analysis in psychology. *Qual Res Psychol Lond*. 2006;3(2):77 101. doi: 10.1191/1478088706qp063oa
- 362 19. Erikson EH. *Insight and Responsibility*. Norton; 1964.
- 20. Erikson EH, Erikson JM, Kivnick HQ. *Vital Involvement in Old Age*. W.W. Norton; 1986.
- McAdams DP, De St. Aubin E. *Generativity and Adult Development: How and Why We Care for the next Generation*. 1st ed. American Psychological Association; 1998.
- 366

368 Tables

369 Table 1. Participant demographic characteristics

Variables	Possible responses	Group 1 n=33	Group n=37	Group 3 n=33
Gender	Female	17	18	17
	Male	16	19	16
Age	50-59	10	11	9
	60-69	11	6	9
	70-79	10	14	10
	80+	2	6	5
Education	Primary/ highschool	8	12	8
	Trade / post-secondary	16	14	13
	University	9	11	12
Relationship status	Married/ partnered	22	27	20
	Divorced/ single/ widowed/ never married	11	10	13
Household income	Under \$39,999	14	17	15
	\$40,000 - \$79,999	12	10	12
	\$80,000 or more	7	10	6
Home tenure type	Own part or outright	27	33	33
	Rent/ lease/ share	6	4	0
Location	Capital city inner	4	2	2
	Capital city suburb	14	19	19
	Regional / rural	15	16	12